

4. Publications

4.1 H-Index (76)

H-Factor per April 20, 2022: 76 (all Databases)

4.2 Sum of Impact Points (total 1588.092)

Sum of Impact Points per April 20, 2022: 1588.092

4.3 Original Papers (total 239)

1. Haldemann G., Jurkiewicz J., Zajic J., Spahn D.R. Etomidate im Rahmen der anästhesiologischen und intensivmedizinischen Behandlung des schweren Schädel-Hirn-Traumas. *Anaesthesiologie und Intensivmedizin* (1986) 187: 148-153. (Impact Factor 0.575)
2. Spahn D.R., Bush E.H., Schmid E.R., Niederer P.F. Resonant amplification and pressure flow characteristics in high-frequency ventilation. *Medical and Biological Engineering and Computing* (1988) 26: 355-359. (Impact Factor 0.551)
3. Niederer P.F., Bush E.H., Schmid E.R., Spahn D.R. Lung surrogates. *Acta Anaesthesiologica Scandinavica* (1989) 33, Suppl 90: 79-86. (Impact Factor 1.015)
4. Bush E.H., Spahn D.R., Niederer P.F., Schmid E.R. Flow separation, an important mechanism in the formation of mean pulmonary pressure during high-frequency oscillation. *Journal of Biomechanical Engineering* (1989) 111: 17-23. (Impact Factor 0.691)
5. Bush E.H., Spahn D.R., Leuthold R., Kopacsy G., Niederer P.F., Schmid E.R. Augmentation of CO₂-elimination during high frequency oscillation by removing the bi-as tube – an in vitro study. *Journal of Biomedical Engineering* (1989) 11: 334-337. (Impact Factor 0.691)
6. Spahn D.R., Schmid E.R., Jenni R., von Segesser L., Turina M., Tornic M., Baetscher A. Noninvasive versus invasive measurement of cardiac output after car-diac surgery: Clinical validation. *Journal of Cardiothoracic Anesthesia* (1990) 4: 46-59. (Impact Factor 0.718)
7. Spahn D.R., Leuthold R., Schmid E.R., Bush E.H., Niederer P.F. Gas transport enhancement during high-frequency oscillation. *Respiration Physiology* (1990) 82:29-38. (Impact Factor 1.308)
8. Spahn D.R., Leuthold R., Schmid E.R., Niederer P.F. Significance of bulk convection during high-frequency oscillation. *Respiration Physiology* (1991) 84: 1-11. (Impact Factor 1.308)
9. Spahn D.R., Smith L.R., Hu W., McRae R.L., Leone B.J. Effects of cardio-pulmonary bypass and cardioplegia on regional and global cardiac actions of halothane in dogs. *Anesthesia and Analgesia* (1991) 73: 513-520. (Impact Factor 2.346)
10. Schwinn D.A., Leone B.J., Spahn D.R., Chesnut L., Page S.O., Legett S.B. Desensitization of canine myocardial beta-adrenergic receptors during cardio-pulmonary by-pass. *Circulation* (1991) 84: 2559-2567. (Impact Factor 8.822)
11. Leuthold R., Spahn D.R., Niederer P.F., Schmid E.R. Gas transport during high-frequency oscillation; the significance of direct wash-out. *Journal of Biomedical Engineering* (1992) 14: 77-80. (Impact Factor 0.691)
12. Spahn D.R., Quill T.J., Hu W., Lu J., Smith L.R., Reves J.G., McRae R.L., Leone B.J. Validation of 133Xenon clearance as a cerebral blood flow measurement technique during cardiopulmonary by-pass. *Journal of Cerebral Blood Flow and Metabolism* (1992) 12: 155-161. (Impact Factor 6.555)

13. Spahn D.R., Smith L.R., Veronee C.D., Hu W., McRae R.L., Leone B.J. Influence of anesthesia on the threshold of pacing induced ischemia. *Anesthesia and Analgesia* (1992) 74: 14-25. (Impact Factor 2.346)
14. Spahn D.R., Smith L.R., McRae R.L., Leone B.J. Effects of acute isovolemic hemodilution and anesthesia on regional function in left ventricular myocardium with compromised coronary blood flow. *Acta Anaesthesiologica Scandinavica* (1992) 36: 628-636. (Impact Factor 1.015)
15. Leone B.J., Spahn D.R. Prophylaxis and Treatment of Ischemia. *International Anesthesiology Clinics* (1992) 30: 155-176. (Impact Factor 0.254)
16. Spahn D.R., Frasco P, White W.D., Smith L.R., McRae R.L., Leone B.J. Is esmolol cardioprotective? Tolerance of pacing tachycardia, acute afterloading and hemodilution in dogs with coronary artery stenosis. *Journal of the American College of Cardiology* (1993) 21: 809-821. (Impact Factor 5.793)
17. Spahn D.R., Smith L.R., Veronee C.D., McRae R.L., Hu W., Menius A.J., Lowe J.E., Leone B.J. Acute isovolemic hemodilution and blood transfusion: Effects on regional function and metabolism in myocardium with compromised coronary blood flow. *Journal of Thoracic and Cardiovascular Surgery* (1993) 105: 694-704. (Impact Factor 2.611)
18. Schmid E.R., Spahn D.R., Tornic M. Reliability of a new generation transesophageal Doppler device for cardiac output monitoring. *Anesthesia and Analgesia* (1993) 77: 971-979. (Impact Factor 2.346)
19. Spahn D.R., Hu W., Smith L.R., Leone B.J. Pacing induced left ventricular asynchronies: Mechanisms and functional significance for affected segments with compromised coronary blood flow. *Journal of Cardiothoracic and Vascular Anesthesia* (1993) 7: 696-704. (Impact Factor 0.718)
20. Bowens C., Spahn D.R., Frasco P, Smith L.R., McRae R.L., Leone B.J. Hemodilution induces stable changes in global cardiovascular and regional myocardial function. *Anesthesia and Analgesia* (1993) 76: 1027-1032. (Impact Factor 2.346)
21. Leone B.J., Spahn D.R. Is post cardiopulmonary bypass dysfunction a special form of stunning? *Journal of Cardiac Surgery* (1993) 8 (Suppl) 235-237. (Impact Factor 0.552)
22. Spahn D.R., Smith L.R., Leone B.J. Hämodilutionstoleranz bei koronarer Herzkrankheit: Eingefäß-versus Mehrgefäß-Erkrankung. *Helvetica Chirurgica Acta* (1993) 60: 451-455. (Impact Factor 0.039)
23. Spahn D.R., Smith L.R., Schell R.M., Hofman D., Gilesie R., Leone B.J. Importance of severity of coronary artery disease for the tolerance to normovolemic hemodilution: Comparison of single versus multivessel stenoses in a canine model. *Journal of Thoracic and Cardiovascular Surgery* (1994) 108: 231-239. (Impact Factor 2.611)
24. Leone B.J., Spahn D.R. Regional ischemia during hemodilution in flow compromised myocardium: Evidence for incomplete metabolic recovery. *Journal of Cardiac Surgery* (1994) 9 (3 Suppl) 442-448. (Impact Factor 0.552)
25. Niederer P.F, Leuthold R., Bush E.H., Spahn D.R., Schmid E.R. High-frequency ventilation: Oscillatory dynamics. *Critical Care Medicine* (1994) 22 (Suppl 9):S58-S65. (Impact Factor 3.172)
26. Weiss B.M., Spahn D.R., Keller E., Seifert B., Pasch T. Continuous noninvasive pressure monitoring by brachial artery displacement method in high-risk surgical patients. *European Journal of Anaesthesiology* (1995) 12: 555-563. (Impact Factor 0.446)
27. Spahn D.R., Schmid E.R., Seifert B., Pasch T. Hemodilution tolerance in patients with coronary artery disease who are receiving chronic β -adrenergic blocker therapy. *Anesthesia and Analgesia* (1996) 82: 687-694. (Impact Factor 2.346)

28. Spahn D.R., Zollinger A., Schlumpf RB., Stöhr S., Seifert B., Schmid E.R., Pasch T. Hemodilution tolerance in elderly patients without known cardiac disease. *Anesthesia and Analgesia* (1996) 82: 681-686. (Impact Factor 2.346)
29. Weiss B.M., Spahn D.R., Rahmig H., Rohling R., Pasch T. Radial artery tonometry: moderately accurate but unpredictable technique of continuous non-invasive arterial pressure measurement. *British Journal of Anaesthesia* (1996) 76: 405-411. (Impact Factor 2.025)
30. Schlumpf R., Candinas D., Weber M., Stocker R., Spahn D.R., Largiadèr F. Dextran 40 for clinical organ preservation. *Progress in Applied Microcirculation* (1996) 22: 61-73.
31. Schlumpf R., Weber M., Weinreich T., Spahn D.R., Rothlin M., Candinas D. Transplantation of kidneys from non-heart-beating donors: protocol, cardiac death diag-nosis and results. *Transplantation Proceedings* (1996) 28: 107-109. (Impact Factor 0.568)
32. Zalunardo M.P., Zollinger A., Spahn D.R., Seifert B. Radjaipour M., Gautschi K., Pasch T. Effects of intravenous and oral clonidine on hemodynamic and plasmacatecholamine response due to endotracheal intubation. *Journal of Clinical Anaesthesia* (1997) 9: 143-147. (Impact Factor 0.841)
33. Zollinger A., Zaugg M., Weder W., Russi E.W., Blumenthal S., Zalunardo M.P., Stöhr S., Thurnheer R., Stammberger U., Spahn D.R., Pasch T. Video-assisted thoracoscopic volume reduction surgery in patients with diffuse pulmonary emphysema: Gas exchange and anesthesiological management. *Anesthesia and Analgesia* (1997) 84: 845-851. (Impact Factor 2.346)
34. Egli G.A., Zollinger A., Seifert B., Popovic D., Pasch T., Spahn D.R. Effect of progressive haemodilution with hydroxyethyl starch, gelatin and albumin on blood coagulation: An in vitro thrombelastography study. *British Journal of Anaesthesia* (1997) 78: 684-689. (Impact Factor 2.025)
35. Spahn D.R., Seifert B., Pasch T., Schmid E.R. Effect of chronic β -blockade on compensatory mechanisms during acute isovolaemic haemodilution in patients with coronary artery disease. *British Journal of Anaesthesia* (1997) 78: 381-385. (Impact Factor 2.025)
36. Zollinger A., Spahn D.R. Singer T., Zalunardo M.P., Stoer S., Weder W., Pasch T. Accuracy and clinical performance of a continuous intra-arterial blood gas monitoring system during thoracoscopic surgery. *British Journal of Anaesthesia* (1997) 79: 47-52. (Impact Factor 2.025)
37. Rippmann C.E., Nett P.C., Popovic D., Seifert B., Pasch T., Spahn D.R. HemoCue®, an accurate bedside method of hemoglobin measurement? *Journal of Clinical Monitoring* (1997) 13: 373-377. (Impact Factor 0.725)
38. Spahn D.R., Seifert B., Pasch T., Schmid E.R. Haemodilution tolerance in patients with mitral regurgitation. *Anaesthesia* (1998) 53: 20-24. (Impact Factor 1.963)
39. Jamnicki M., Zollinger A., Seifert B., Popovic D., Pasch T., Spahn D.R. Potato starch derived hydroxyethyl starch compromises in vitro blood coagulation more than corn starch derived hydroxyethyl starch. *Anaesthesia* (1998) 53: 638-644. (Impact Factor 1.963)
40. Jamnicki M., Zollinger A., Seifert B., Popovic D., Pasch T., Spahn D.R. Compromised blood coagulation: An in vitro comparison of hydroxyethyl starch 130/0.4 and hydroxyethyl starch 200/0.5 using thrombelastography. *Anesthesia and Analgesia* (1998) 87: 989-993. (Impact Factor 2.698)
41. Zaugg M., Lucchinetti E., Zalunardo M.P., Zumstein S., Spahn D.R., Pasch T., Zollinger A., Substantial changes in arterial blood gases during thoracoscopic surgery can be missed by conventional intermittent laboratory blood gas analyses. *Anesthesia and Analgesia* (1998) 87: 647-653. (Impact Factor 2.698)

42. Casutt M., Seifert B., Pasch T., Schmid E. R., Turina M. I., Spahn D.R. Factors influencing the individual effects of blood transfusions on oxygen transport and oxygen consumption. *Critical Care Medicine* (1999) 27: 2194-2200. (Impact Factor 4.260)
43. Spahn D.R., van Brecht R., Theilmeier G., Reibold J.P., Welte M., Heinzerling H., Birck K., Keipert P.E., Messmer K. and The European Perflubron Emulsion Study Group. Perflubron emulsion delays blood transfusion in orthopedic surgery. *Anesthesiology* (1999) 91: 1195-1208. (Impact Factor 4.625)
44. Camenzind V., Bombeli T., Seifert B., Jamnicki M., Popovic D., Pasch T., Spahn D.R. Citrate storage affects Thrombelastograph® analysis. *Anesthesiology* (2000) 92: 1242-1249. (Impact Factor 4.625)
45. Biro P, Layer M, Wiedemann K, Seifert B, Spahn DR. Carbon dioxide elimination during high-frequency jet ventilation for rigid bronchoscopy. *British Journal of Anaesthesia* (2000) 84: 635-637. (Impact Factor 2.340)
46. Biro P, Layer M, Becker HD, Wiedemann K, Seifert B, Spahn DR. The influence of airway occluding instruments on airway pressure during jet ventilation for rigid bronchoscopy. *British Journal of Anaesthesia* (2000) 85: 462-465. (Impact Factor 2.340)
47. Jamnicki M., Bombeli T., Seifert B., Zollinger A., Camenzind V., Pasch T., Spahn D.R. Low (70kD) and medium (200kD) molecular weight hydroxyethyl starch: comparison of their effect on blood coagulation. *Anesthesiology* (2000) 93: 1231-1237 (Impact Factor 4.280).
48. Spahn D.R., Willmann P.F.X., Faithfull N.S. Wirksamkeit der Augmentierten Akuten Normovolämen Hämodilution (A-ANH™). *Anaesthesist* (2001) 50 (Supplement 1) S49-S54. (Impact Factor 0.977)
49. Zalunardo M.P., Zollinger A., Szelloe P., Spahn D.R., Seifert B., Pasch T. Kardiovaskuläre Stressprotektion während der Anästhesieeinleitung: Vergleich zwischen Clonidin und Esmolol. *Anaesthesist* (2001) 50: 21-25. (Impact Factor 0.977)
50. Fehr S.B., Zalunardo M.P., Seifert B., Rentsch K.M., Pasch T., Spahn D.R. Clonidin decreases propofol requirements during anesthesia: effect on bispectral index. *British Journal of Anaesthesia* (2001) 86: 627-632. (Impact Factor 2.340).
51. Iselin B., Casutt M., Bombeli T., Seifert B., Pasch T., Spahn D.R. The isolated reduction in haematocrit does not compromise in vitro blood coagulation. *British Journal of Anaesthesia* (2001) 87:246-249. (Impact Factor 2.340).
52. Spahn D.R. Coagulation disorders and treatment: drug interactions. *Infusion Therapy and Transfusion Medicine (Infusionstherapie und Transfusionsmedizin)* (2001) 28: 110-112.
53. Zaugg M., Luccinetti E., Spahn D.R., Pasch T., Schaub M.C. Volatile anesthetics mimic cardiac preconditioning by priming the activation of mitochondrial K-ATP channels. *Anesthesiology* (2002) 97: 4 – 14 (Impact Factor 3.381)
54. Pradervand-Mooser M., Gardaz J.-P., Capt H., Spahn D.R. Evaluation du coût anesthésiologique de la cholécystectomie laparoscopique. *Canadian Journal of Anesthesiology* (2002) 49: 540 – 544 (Impact Factor 1.143).
55. Eberhard P., Gisiger P.A., Gardaz J.-P., Spahn D.R. Combining transcutaneous blood gas measurement and pulse oxymetry. *Anesthesia and Analgesia* (2002) 94: S76 - S80 (Impact Factor 2.321).
56. Booth J.V., Spahn D.R., El-Moalem H., McRae R.L., Chesnut L., Leone B.J., Schwinn D.A. Esmolol improves left ventricular function via enhanced beta-adrenergic receptor signaling in a canine model of coronary revascularization. *Anesthesiology* (2002) 97: 162 - 169. (Impact Factor 3.381).
57. Sokolovic E., Biro P., Wyss P., Werthemann C., Haller C., Spahn D.R., Szucs T. Impact of the reduction of anaesthesia turnover time on operating room efficacy. *European Journal of Anaesthesiology* (2002) 19: 560 – 563. (Impact Factor 0.966)

58. Spahn D.R., Waschke K.F., Standl T., Motsch J., van Huynegem J., Welte M., Gombotz H., Coriat P., Verkh L., Faithfull S., Keipert P. Use of Perflubron Emulsion to Decrease Allogeneic Blood Transfusion in High-blood-loss Non-cardiac Surgery: Results of a European Phase 3 Study. *Anesthesiology* (2002) 97: 1338 - 1349. (Impact Factor 3.381).
59. Zaugg M., Luccinetti E., Spahn D.R., Pasch T., Garcia C., Schaub M.C. Differential effects of anesthetics on mitochondrial KATP channel activity and cardiomyocyte protection. *Anesthesiology* (2002) 97: 15 – 23 (Impact Factor 3.381)
60. Benoît Z., Wicky S., Fischer J.-F., Frascarolo P., Chapuis C., Spahn D.R., Magnusson L. Effect of increased FiO₂ before extubation on postoperative atelectasis. *Anesthesia and Analgesia* (2002) 95: 1777 - 1781 (Impact Factor 2.279).
61. Eichenberger A.E., Proietti S., Wicky S., Frascarolo P., Suter M., Spahn D.R., Magnusson L. Morbid Obesity and postoperative pulmonary atelectasis, an underestimated problem. *Anesthesia and Analgesia* (2002) 95: 1788 - 1792 (Impact Factor 2.279).
62. Neff T.A., Doelberg M., Jungheinrich C., Sauerland A., Spahn D.R., Stocker R. Repetitive high dose infusion of the novel hydroxyethyl starch HES 130/0.4 in critical-ly ill patients. *Anesthesia and Analgesia* (2003) 96: 1453 – 1459 (Impact factor 2.279).
63. Paxian M., Rensing H., Geckeis K., Bauer I., Kubulus D., Spahn D.R., Bauer M. Perflubron emulsion in prolonged hemorrhagic shock: influence of hepatocellular energy metabolism and oxygen-dependent gene expression. *Anesthesiology* (2003) 98: 1391 – 1399 (Impact Factor 3.381).
64. Julier K., da Silva R., Garcia C., Bestmann L., Frascarolo P., Zollinger A., Chassot P.-G., Schmid E., Turina M., von Segesser L.K., Pasch T., Spahn D.R. Zaugg M. Pharmacologic preconditioning elicits myocardial and renal protection in humans: a double-blind placebo-controlled multicenter study. *Anesthesiology* (2003) 98: 1315 – 1327 (Impact Factor 3.381).
65. Michlig C., Vu D.-H., Wasserfallen J.-B., Spahn D.R., Schneider P., Tissot J.-D. Haemovigilance in a general hospital (1999-2001). *Transfusion Medicine* (2003) 13: 63 – 72 (Impact Factor 1.237).
66. Rusca M., Proietti S., Schnyder P., Frascarolo P., Hedenstierna G., Spahn D.R., Magnusson L. Prevention of atelectasis formation during induction of general anaesthesia. *Anesthesia and Analgesia* (2003) 97: 1835 - 1839 (Impact Factor 2.279).
67. Suter M.R., Papaloizos M., Berde C.B., Woolf C.F., Gilliard N., Spahn D.R., Isabelle Decosterd I. Development of neuropathic pain in the rat spared nerve injury model is not prevented by a peripheral nerve block. *Anesthesiology* (2003) 99: 1402 – 1407 (Impact Factor 3.381).
68. Hofer C.K., Zollinger A., Büchi S., Klaghofer R., Serafino D., Bühlmann S., Bud-deberg C., Pasch T., Spahn D.R. Patient well-being after general anaesthesia: a prospective, randomized controlled multicenter trial comparing intravenous and inhalational anaesthesia. *British Journal of Anaesthesia* (2003) 91: 631-637. (Impact factor: 2.205).
69. Coussa M., Proietti S., Schnyder P., Frascarolo P., Suter M., Spahn D.R., Magnusson L. Prevention of atelectasis formation during induction of general anesthesia in morbidly obese patient. *Anesthesia and Analgesia* (2004) 98: 1491-1495 (Impact Factor 2.205).
70. Beck-Schimmer B., Romero B., Booy C., Joch H., Haller U., Pasch T., Spahn D.R. Release of inflammatory mediators in irradiated cell salvage blood and their biological consequences in human beings following transfusion. *European Journal of Anaesthesia* (2004) 21: 46 - 52 (Impact Factor 0.966).
71. Herriger A. Frascarolo Ph. Spahn DR. Magnusson L. Effectiveness of positive end expiratory pressure during pre-oxygenation on duration of apnoea before arterial desaturation. *Anaesthesia* (2004) 59: 243-247 (Impact Factor 2.573).

72. Hegi T.R., Bombeli T., Seifert B., Baumann P.C., Haller U., Zalunardo M.P., Pasch T., Spahn D.R. Rofecoxib does not compromise platelet aggregation and reduces blood loss in gynaecologic surgery compared to diclofenac. *British Journal of Anaesthesia* (2004) 92: 523-531 (Impact Factor 2.365).
73. Clerc S., Vuillemier H., Frascarolo P., Spahn D.R., Gardaz J.-P. Is the effect of inguinal field block with 0.5% bupivacain on postoperative pain after hernia repair enhanced by the addition of ketorolac of S(+)-ketamin ? *Clinical Journal of Pain* (2005) 21: 101 - 105 (Impact Factor 2.080).
74. Gander S., Frascarolo Ph., Suter M., Spahn D.R., Magnusson L. Positive End-Expiratory Pressure During Induction of General Anesthesia Increases Duration of Non-hypoxic Apnea in Morbidly Obese Patients. *Anesthesia and Analgesia* (2005) 100: 580-584 (Impact Factor 2.210).
75. Garcia C., Julier K., Bestmann L., Zollinger A., von Segesser L.K., Pasch T., Spahn D.R. Zaugg M. Preconditioning by Sevoflurane Decreases PECAM-1 Expression and Improves One-Year Cardiovascular Outcome in Coronary Artery Bypass Graft Surgery. *British Journal of Anaesthesia* (2005) 94: 159-165 (Impact Factor 2.365).
76. Madjdpour C., Dettori N., Frascarolo P., Burki M., Boll M., Fisch A., Bombeli T., Spahn D.R. Molecular weight of hydroxyethyl starch: Is there an effect on blood coagulation and pharmacokinetics? *British Journal of Anaesthesia* (2005) 94: 569-576 (Impact Factor 2.365).
77. Vasella F.C., Frascarolo P., Spahn D.R., Magnusson L. Antagonism of neuromuscular blockade but not muscle relaxation affects depth of anaesthesia. *British Journal of Anaesthesia* (2005) 94: 742-747 (Impact Factor 2.365).
78. Ganter M.T., Hofer C.K., Spahn D.R., Bruggisser M., Bombeli T., Seifert B., Pasch T., Zalunardo M.P. The effect of clonidine on perioperative blood coagulation. *Journal of Clinical Anaesthesia* (2005) 17: 456-462 (Impact Factor 1.208).
79. Pertin M., Ji R.-R., Berta T., Karchewski L., Powell A.J., Tate S. N., Isom L.L., Woolf C.J., Gilliard N., Spahn D.R., Decosterd I. Upregulation of the voltage gated sodium beta2 subunit in neuropathic pain models: characterization of expression in in-jured and non-injured primary sensory neurons. *J Neuroscience* (2005) 25: 10970-10980 (Impact Factor 7.907).
80. Bourquin, A.F., Süveges M., Pertin M., Gilliard N., Sardy S., Davison A.C., Spahn D.R. Decosterd I. Assessment and analysis of mechanical allodynia-like behavior induced by spare nerve injury (SNI) in the mouse. *Pain* (2006) 122: 14.e1-14.e14 (Impact Factor 4.061).
81. Jaquet Y., Monnier P., van Melle G., Ravussin P., Spahn D.R., Chollet-Rivier M. Complications of different ventilation strategies in endoscopic laryngeal surgery: a 10 year review. *Anesthesiology* (2006) 104: 52-59 (Impact Factor 4.055).
82. von Roten I., Madjdpour C., Frascarolo P., Burmeister M.-A., Fisch A., Schramm S., Bombeli T., Spahn D.R. Molar substitution and C2/C6 ratio of Hydroxyethyl Starch: Influence on Blood Coagulation. *British Journal of Anaesthesia* (2006) 96: 455-463 (Impact Factor 2.365).
83. Albrecht E., Yersin B., Spahn D.R. Fishman D., Hugli O. Success rate of airway management by residents in a pre-hospital emergency setting: a retrospective study. *European Journal of Trauma* (2006) 32: 516-522.
84. Thyges C., Madjdpour C., Frascarolo P., Buclin T., Bürki M., Fisch A., Burmeister M.-A., Asmis L., Spahn D.R. Effect of high and low molecular weight low substituted HES on blood coagulation during acute normovolemic hemodilution. *Anesthesiology* (2006) 105: 1228-1237 (Impact Factor 4.055).
85. Madjdpour C., Thyges C., Buclin T., Frascarolo P., von Rothen I., Fisch A., Burmeister M.-A., Bombeli T., Spahn D.R. Novel Starches: Single-dose pharmacokinetics and effects on blood coagulation. *Anesthesiology* (2007.) 106: 132-143 (Impact fac-tor: 4.055).

86. Suter D., Spahn D.R., Blumenthal S., Reyes L., Booy C., Roth Z'graggen B., Beck-Schimmer B. Immunomodulatory effect of sevoflurane in endotoxin-injured alveolar epithelial cells. *Anesthesia and Analgesia* (2007.) 104: 638-645 (Impact Factor 2.452).
87. Zaugg M., Bestmann L., Wacker J., Lucchinetti E., Boltres A., Schulz C., Hers-berger M., Kalin G., Furrer L., Hofer C., Blumenthal S., Muller A., Zollinger A., Spahn D.R., Borgeat A. Adrenergic Receptor Genotype but Not Perioperative Bisoprolol Therapy May Determine Cardiovascular Outcome in At-risk Patients Undergoing Surgery with Spinal Block: The Swiss Beta Blocker in Spinal Anesthesia (BBSA) Study: A Double-blinded, Placebo-controlled, Multicenter Trial with 1-Year Follow-up. *Anesthesiology* (2007.) 107: 33-44 (Impact Factor 4.207).
88. Lucchinetti E., Aguirre J., Feng J., Zhu M., Suter M., Spahn D.R., Härter L., Zaugg M. Molecular Evidence of Late Preconditioning After Sevoflurane Inhalation in Healthy Volunteers. *Anesthesia and Analgesia* (2007.) 105:629-40 (Impact Factor 2.131)
89. Schramm S., Thyges C., Frascarolo Ph., Buclin Th., Burki M., Fisch A., Burmeister M-A., Asmis L., Spahn D.R., Impact of the C2/C6 Ratio of High-molecular-weight Hydroxyethyl Starch on Pharmacokinetics and Blood Coagulation in Pigs. *Anesthesiology* (2007.) 107: 442-51 (Impact Factor 4.207)
90. Theusinger O.M., Leyvraz F.-F., Schanz U., Seifert B., Spahn D.R. Treatment of iron deficiency anemia in orthopedic surgery with intravenous iron: efficacy and limits – a prospective study. *Anesthesiology* (2007.) 107: 923-927 (Impact Factor 4.207).
91. Meyer S., Roth Z'graggen B, Blumenthal S., Borgeat A., Ganter M.T., Reyes L., Booy C., Neff T.A., Spahn D.R., Beck-Schimmer B. Hypoxia attenuates effector-target cell interaction in the airway and pulmonary vascular compartment. *Clinical and Experimental Immunology* (2007.) 150: 358-367 (Impact Factor 2.747)
92. Yue T., Roth Z'graggen B., Blumenthal S., Neff S.B., Reyes L., Booy C., Steurer M., Spahn D.R., Neff T.A., Schmid E.R., Beck-Schimmer B. Postconditioning with a volatile anaesthetic in alveolar epithelial cells in vitro. *European Respiratory Journal* (2008.) 31: 118-25 (Impact Factor 5.076).
93. Beck-Schimmer B., Breitenstein St., Urech S., De Conno E., Wittlinger M., Puhan M., Jochum W., Spahn DR., Graf R., Calvien PA. A Randomized Controlled Trial on Pharmacological Preconditioning in Liver Surgery Using a Volatile Anesthetic. *Annals of Surgery* (2008.) 248: 909-918 (Impact Factor 7.446)
94. Steurer M., Schläpfer M., Steurer M., Roth Z'Graggen B., Booy C., Reyes L., Spahn D.R., Beck-Schimmer B. The volatile anaesthetic sevoflurane attenuates lipopoly-saccharide-induced injury in alveolar macrophages. *Clinical & Experimental Immunology* (2009) 155: 224-230 (Impact Factor 3.009)
95. De Conno E., Steurer M.P., Wittlinger M., Zalunardo M.P., Weder W., Schneiter D., Schimmer R.C., Klaghofer R., Neff T.A., Schmid E.R., Spahn D.R., Roth Z'Graggen B., Urner M., Beck-Schimmer B. Anesthetic-induced Improvement of the Inflammatory Response to One-lung Ventilation. *Anesthesiology* (2009) 110: 1316-26 (Impact Factor 5.354)
96. Heim C., Schoettker P., Gilliard N., Spahn D.R. Knowledge of Glasgow coma scale by air-rescue physicians. *Scandinavian Journal of Trauma Resuscitation and Emergency Medicine* (2009) 17: 39-44
97. Tan Q., El-Badry A.M., Contaldo C., Steiner R., Hillinger S., Welti M., Hilbe M., Spahn D.R., Higuera G., van Blitterswijk C.A., Luo Q., Weder W. The Effect of Perfluorocarbon-Based Artificial Oxygen Carriers on Tissue-Engineered Trachea. *Tissue Engineering: Part A* (2009) 15: 2471-2480

98. Theusinger O.M., Nürnberg J., Asmis L.M., Seifert B., Spahn D.R. Rotation thromboelastometry (ROTEM®) stability and reproducibility over time. *European Journal of Cardiothoracic Surgery* (2010) 37: 677-683 (Impact Factor 2.397)
99. Wittlinger M., Schläpfer M., De Conno E., Roth Z'Graggen B., Reyes L., Booy Ch., Schimmer R.C., Seifert B., Burmeister MA., Spahn D.R., Beck-Schimmer B. Effect of hydroxyethyl starches (HES 130/0.42 and HES 200/0.5) on activated renal tubular epithelial cells. *Anesthesia & Analgesia* (2010) 110: 531-40 (Impact Factor 3.083)
100. Shander A., Hofmann A., Ozawa S., Theusinger O.M., Gombotz H. Spahn D.R. Activity-Based Costs of Blood Transfusions in Surgical Patients at Four Hospitals. *Transfusion* (2010) 50: 753-765 (Impact Factor 2.982)
101. Schramm S., Albrecht E., Frascarolo P., Chassot P.G., Spahn D.R. Validity of an Arterial Pressure Waveform Analysis Device: Does the Puncture Site Play a Role in the Agreement with Intermittent Pulmonary Catheter Thermodilution Measurements? *Journal of Cardiothoracic and Vascular Anesthesia* (2010) 24: 250-256 (Impact Factor 1.062)
102. Zalunardo M.P., Ivleva-Sauerborn A., Seifert B., Spahn D.R. Quality of premedication and patient satisfaction after premedication with midazolam, clonidine or placebo: Randomized double-blind study with age-adjusted dosage. *Anaesthesist* (2010) 59: 410-418 (Impact Factor 0.907)
103. Theusinger O.M., Baulig W., Asmis L.M., Seifert B., Spahn D.R. In vitro factor XIII supplementation increases clot firmness in Rotation Thromboelastometry (ROTEM®) *Thrombosis and Haemostasis* (2010) 104: 385-391 (Impact Factor 4.451)
104. Maurer K., Wacker J., Vastani N., Seifert B., Spahn D.R. Changes in axonal excitability of primary sensory afferents with general anaesthesia in humans. *British Journal of Anaesthesia* (2010) 105: 648-656 (Impact Factor 3.827)
105. Leemann H., Lustenberger Th., Talving P., Kobayashi L., Bukur M., Brenni M., Brüesch M., Spahn D.R., Keel M.J.B. The Role of Rotation Thromboelastometry in Early Prediction of Massive Transfusion. *The Journal of Trauma* (2010) 69: 1403-1409 (Impact Factor 2.626)
106. Künzle B., Zala-Mezö E., Wacker J., Kolbe M., Spahn D.R., Grote G. Leadership in anaesthesia teams: the most effective leadership is shared. *Quality Safety Health Care* (2010) 19: e46 (Impact Factor 2.803)
107. Casutt M., Kristoffy A., Schüpfer G., Spahn D.R., Konrad C. Effects on coagulation of balanced (130/0.42) and non-balanced (130/0.4) hydroxyethyl starch or gelatin compared with balanced Ringer's solution: an in vitro study using two different viscoelastic coagulation tests ROTEM™ and SONOCLOTT™. *British Journal of Anaesthesia* (2010) 105: 273-281 (Impact Factor 3.827)
108. Theusinger O.M., Thygesen C., Frascarolo P., Schramm S., Seifert B., Spahn D.R. Mismatch of arterial and central venous blood gas analysis during haemorrhage. *European Journal of Anaesthesiology* (2010) 27: 890-896 (Impact Factor 1.859)
109. Dolci M., Frascarolo P., Hayoz D., Spahn D.R., Gardaz J.P. Effect of an intravenous bolus of phenylephrine or ephedrine on skin blood flow during spinal anaesthesia: a randomised, double-blind, controlled study. *European Journal of Anaesthesiology* (2011) 28: 226-229 (Impact Factor 1.859)
110. Zalunardo M.P., Thalmann C., Seifert B., D'Cunja J., Weder W., Boehler A. Spahn D.R. Impact of preoperative right-ventricular function and platelet transfusion on outcome after lung transplantation. *European Journal of Cardio-Thoracic Surgery* (2011) 39: 538-542 (Impact Factor 2.397)
111. Rödiger R., Beck-Schimmer B., Theusinger O.M., Rusch D., Seifert B., Spahn D.R., Schmid E.R., Baulig W. The Revised Digital Transcutaneous PCO₂ / SpO₂ Ear Sensor Is a Reliable Noninvasive

- Monitoring Tool in Patients After Cardiac Surgery. *Journal of Cardiothoracic and Vascular Anesthesia* (2011) 25: 243-249 (Impact factor: 1.062)
112. Theusinger O.M., Baulig W., Seifert B., Emmert M.Y., Spahn D.R., Asmis L.M. Relative concentrations of haemostatic factors and cytokines in solvent/detergent-treated and fresh-frozen plasma. *British Journal of Anaesthesia* (2011) 106: 505-511 (Impact Factor 3.827)
 113. Baulig W., Maurer K., Theusinger O.M., Hinselmann V., Baulig B., Spahn D.R., Zalunardo M.P. Continuous elastomeric pump-based ropivacaine wound instillation after open abdominal aortic surgery: how reliable is the technique? *Heart Surgery Forum* (2011) 14: E51-8 (Impact Factor 0.634)
 114. Burtscher M.J., Manser T., Kolbe M., Grote G., Grande B., Spahn D.R., Wacker J. Adaptation in anaesthesia team coordination in response to a simulated critical event and its relationship to clinical performance. *British Journal of Anaesthesia* (2011) 106: 801-806 (Impact Factor 3.827)
 115. Musallam K.M., Tamim H.M., Richards T., Spahn D.R., Rosendaal F.R., Habbal A., Khreiss M., Dahdaleh F.S., Khavandi K., Sfeir P.M., Soweid A., Hoballah J.J., Taher A.T., Jamali F.R. Preoperative anaemia and postoperative outcomes in non-cardiac surgery: a retrospective cohort study. *The Lancet* (2011) 378: 1396-1407 (Impact Factor 33.633)
 116. Theusinger O.M., Wanner G.A., Emmert M.Y., Billeter A., Eismon J., Seifert B., Simmen H.-P., Spahn D.R., Baulig W. Hyperfibrinolysis Diagnosed by Rotational Thromboelastometry (ROTEM®) Is Associated with Higher Mortality in Patients with Severe Trauma. *Anesthesia Analgesia* (2011) 113: 1003-1012 (Impact Factor 3.274)
 117. Acheson A.G., Brookes M.J., Spahn D.R. Effects of allogeneic red blood cell transfusions on clinical outcomes in patients undergoing colorectal cancer surgery: a systematic review and meta-analysis. *Annals of Surgery* (2012) 256: 235-244 (Impact Factor 7.492)
 118. Urner M., Herrmann I.K., Buddeberg F., Schuppli C., Roth Z'graggen B., Hasler M., Schanz U., Mehr M., Spahn D.R., Beck-Schimmer B. Effects of blood products on inflammatory response in endothelial cells in vitro. *PLoS ONE* (2012) 7: e33403 (Impact Factor 4.537)
 119. Neukom L., Vastani N., Seifert B., Spahn D.R., Maurer K. Propofol decreases the axonal excitability in rat primary sensory afferents. *Life Sciences* (2012) 90: 343-350 (Impact Factor 2.527)
 120. Steurer M.P., Steurer M.A., Baulig W., Piegeler T., Schläpfer M., Spahn D.R., Falk V., Dreessen P., Theusinger O.M., Schmid E. R., Schwartz D., Neff Th.A., Beck-Schimmer B. Late pharmacologic conditioning with volatile anesthetics after cardiac surgery. *Critical Care* (2012) 16: R191 (Impact Factor 4.607)
 121. Vastani N., Seifert B., Spahn D.R., Maurer K. Sensitivities of rat primary sensory afferent nerves to magnesium: implications for differential nerve blocks. *European Journal of Anaesthesiology* (2013) 30 (1): 21 – 28 (Impact Factor 2.231)
 122. Kolbe M., Burtscher M.J., Wacker J., Grande B., Nohynkova R., Manser T., Spahn D.R., Grote G. Speaking up is related to better team performance in simulated anesthesia inductions: an observational study. *Anesthesia Analgesia* (2012) 115: 1099 – 1108 (Impact Factor 3.286)
 123. Vastani N., Seifert B., Spahn D.R., Maurer K. Preconditioning depolarizing ramp currents enhance the effect of sodium channel blockers in primary sensory afferents. *Neuromodulation* (2013) 16: 336-344 (Impact Factor 1.186)
 124. Kolbe M., Weiss M., Grote G., Knauth A., Dambach M., Spahn DR., Grande B. TeamGAINS: a tool for structured debriefings for simulation-based team trainings. *BMJ Quality&Safety* (2013) 22:541-553 (Impact Factor 2.394)

125. Mortezavi A., Hermanns T., Hefermehl L.J., Spahn D.R., Seifert B., Weber D., Brunnschweiler S., Schmid D.M., Sulser T., Eberli D. Continuous low-dose aspirin therapy in robotic-assisted laparoscopic radical prostatectomy does not increase risk of surgical hemorrhage. *Journal Laparoendoscopic & Advanced Surgical Techniques* (2013) 23:500-505 (Impact Factor 1.066)
126. Theusinger O., Schröder C., Eismon J., Emmert M., Seifert B., Spahn D., Baulig W., The Influence of Laboratory Coagulation Tests and Clotting Factor Levels on Rotation Thromboelastometry (ROTEM(R)) During Major Surgery with Hemorrhage, *Anesthesia-Analgesia* (2013) 117: 314-321 (Impact Factor 3.300)
127. Musallam K.M., Rosendaal F.R., Zaatari G., Soweid A., Hoballah J.J., Sfeir P.M., Zeineldine S., Tamim H.M., Richards T., Spahn D.R., Lotta L.A., Peyvandi F., Jamali F.R. Smoking and the Risk of Mortality and Vascular and Respiratory Events in Patients Undergoing Major Surgery. *JAMA Surgery* (2013) 148: 755-762 (Impact Factor 4.100)
128. Schaer C.A., Deuel J.W., Bittermann A.G., Rubio I.G., Schoedon G., Spahn D.R., Wepf R.A. Vellelian F., Schaer D.J. Mechanisms of haptoglobin protection against hemoglobin peroxidation triggered endothelial damage. *Cell Death & Differentiation* (2013) 20: 1569-1579 (Impact Factor 8.371)
129. Kind S.L., Spahn-Nett G.H., Emmert M.Y., Eismon J., Seifert B., Spahn D.R., Theusinger O.M., Is Dilutional Coagulopathy Induced by Different Colloids Reversible by Replacement of Fibrinogen and Factor XIII Concentrates? *Anesthesia-Analgesia* (2013) 117: 1063-1071 (Impact Factor 3.300)
130. Wanner Schmid C., Maurer K., Schmid D.M., Alon E., Spahn D.R., Gantenbein A.R., Sandor P.S. Prevalence of medication overuse headache in an interdisciplinary pain clinic. *The Journal of Headache and Pain* (2013) 4:1-7 (Impact Factor 2.779)
131. Musallam K.M., Jamali F., Rosendaal F., Richards T., Spahn D.R., Khavandi K., Barakat I., Demoss B., Lotta L., Peyvandi F., Sfeir P. Preoperative Hematocrit Concentration and the Risk of Stroke in Patients Undergoing Isolated Coronary-Artery Bypass Grafting, *Anemia* (2013) 2013:206829. (no Impact Factor)
132. Haller Y., Gantenbein A., Willmann P., Spahn D. R., Mauer K. Systemic Ropivacaine Diminishes Pain Sensitization Processes: A Randomized, Double-Blinded, Placebo-Controlled, Crossover Study in Healthy Volunteers. *Pain and Therapy* (2014) 3: 45-58
133. Biro P., Grande B., Kind S. L., Spahn D. R. and Theusinger O. M. Concluding results from the first phase of the Zurich Unexpected Difficult Airway course based on exercise of technical skills. *Anaesthesia* (2014) 69: 452-457 (Impact Factor 3.486)
134. Voigtsberger S., Urner M., Hasler M., Z'Graggen B.R., Booy C., Spahn D.R., Beck-Schimmer B. Modulation of Early Inflammatory Response by Different Balanced and Non-Balanced Colloids and Crystalloids in a Rodent Model of Endotoxemia. *PLoS One* (2014), 9(4) e93863 (Impact Factor 3.730)
135. Theusinger O.M., Kind S.L., Seifert B., Borgeat A., Gerber C., Spahn D.R. Patient blood management in orthopaedic surgery: a four-year follow-up of transfusion requirements and blood loss from 2008. to 2011 at the Balgrist University Hospital in Zurich, Switzerland. *Blood Transfus* (2014) 12:195-203 (Impact Factor 1.858)
136. Kolbe M., Grote G., Waller M., Wacker J., Grande B., Burtscher M., Spahn D.R. Monitoring and talking to the room: Autochthonous coordination patterns in team interaction and performance. *Journal of Applied Psychology* (2014) 99:1254-67 (Impact Factor 4.367)
137. Sadeghi M., Atefyekta R., Azimaraghi O., Marashi S.M., Aghajani Y., Ghadimi F., Spahn D.R., Movafegh A. A randomized, double blind trial of prophylactic fibrinogen to reduce bleeding in cardiac surgery. *Revista brasileira de anesthesiologia* (2014) 64: 253-257 (Impact Factor 0.415)

138. Weiss M., Kolbe M., Gudela G., Dambach M., Marty A., Spahn D.R., Grande B. Agency and Com-munion predict speaking up in acute care teams. *SAGE Journals* (2014) 45: 290-313 (Impact Factor 1.155)
139. Vallelian F., Deuel J.W., Schär C.A., Puglia M., Löhn M., Engelsberger W., Schauer S., Karnaukhova E., Spahn D.R., Stocker R., Bühler P.W., Schär D.J. Proteasome inhibition and oxidative reactions disrupt cellular homeostasis during heme stress. *Cell Death Differentiation* (2014) 22: 597 – 611 (Im-pact Factor 8.385)
140. Bettex D.A., Wanner P. M., Bosshart M., Balmer C., Knirsch W., Hitendu D., Dillier C., Bürki Ch., Hug M., Burkhardt S., Spahn D.R., Beck-Schimmer B. Role of sevoflurane in organ protection during car-diac surgery in children: a randomized controlled trial. *Interactive CardioVascular and Thoracic Sur-gery* (2015) 20(2): 157-165 (Impact Factor 1.109)
141. Lasocki S., Krauspe R., von Heymann C., Mezzacasa A., Chainey S., Spahn D.R. PREPARE: the prevalence of perioperative anaemia and need for patient blood management in elective orthopaedic surgery: A multicentre, observational study. *European Journal of Anaesthesiology* (2015) 32(3): 160-167 (Impact Factor 3.011)
142. Grande B., Weiss M., Biro P., Grote G., Steiger P., Spahn D.R., Kolbe M. Is talking important? Tech-nical versus combined technical/non-technical airway training in anaesthesia and intensive care med-icine. *Anästhesiologie & Intensivmedizin* (2015) 56: 5-12 (Impact Factor 1.090)
143. Thöni N., Piegeler T., Brüesch M., Sulser S., Haas T., Müller S.M., Seifert B., Spahn D.R., Rützler K. Incidence of difficult airway situations during prehospital airway management by emergency physicians – A retrospective analysis of 692 consecutive patients. *Resuscitation* (2015) 90: 42-45 (Impact Factor 3.960)
144. Gross I., Seifert B., Hofmann A., Spahn D.R. Patient blood management in cardiac surgery results in fewer transfusions and better outcome. *Transfusion* (2015) 55: 1075-1081 (Impact Factor 3.568)
145. Renner T.A., Zalunardo M.P., Weder W., Spahn D.R. Bilateral Lung Transplantation in a Patient Re-ceiving Rivaroxaban Anticoagulation. *Journal of Cardiothoracic and Vascular Anesthesia* (2015) 29(3): 723 – 726 (Impact Factor 1.482)
146. Schick C.J., Weiss M., Kolbe M., Marty A., Dambach M., Knauth A., Spahn D.R., Grote G., Grande B. Simulation With PARTS (Phase-Augmented Research and Training Scenarios): A Structure Facilitat-ing Research and Assessment in Simulation. *Simulation in Healthcare* (2015) 10(3): 178–187 (Impact Factor 1.477)
147. Tscholl D.W., Weiss M., Kolbe M., Staender S., Seifert B., Landert D., Grande B., Spahn D.R., No-ethiger C.B. An Anesthesia Preinduction Checklist to Improve Information Exchange, Knowledge of Critical Information, Perception of Safety, and Possibly Perception of Teamwork in Anesthesia Teams. *Anesthesia and Analgesia* (2015) 121(4): 948-956 (Impact Factor 3.472)
148. Schuepbach R., Grande B., Camen G., Schmidt A. R., Fischer H., Sessler D. I., Sei-fert B., Spahn, D. R., Ruetzler K. Intubation with VivaSight or conventional left-sided double-lumen tubes: a randomized trial. *Canadian Journal of Anaesthesia* (2015) 62(7): 762-769 (Impact Factor 2.527)
149. Theusinger O.M., Baulig W., Seifert B., Müller S.M., Mariotti S., Spahn D.R. Changes in coagulation in standard laboratory tests and ROTEM in trauma patients between on-scene and arrival in the emer-gency department. *Anesthesia and Analgesia* (2015) 120(3): 627-635 (Impact Factor 3.472)
150. Arrigo M., Jaeger N., Seifert B. Spahn D.R., Bettex D., Rudiger A. Disappointing Success of Electrical Cardioversion for New-Onset Atrial Fibrillation in Cardiosurgical ICU Patients. *Critical Care Medicine* (2015) 43(11): 2354-2359 (Impact Factor 6.312)

151. Deuel JW, Schaer CA, Boretti FS, Opitz L, Garcia-Rubio I, Baek JH, Spahn DR, Buehler PW, Schaer DJ. Hemoglobinuria-related acute kidney injury is driven by intrarenal oxidative reactions triggering a heme toxicity response. *Cell Death and Disease* (2016) 7: e2064 (Impact Factor 5.014)
152. Tscholl DW, Weiss M, Spahn DR, Noethiger CB. How to Conduct Multimethod Field Studies in the Operating Room: The iPad Combined With a Survey App as a Valid and Reliable Data Collection Tool. *JMIR Research Protocols* (2016) 5(1): e4.
153. Schaer CA, Deuel JW, Schildknecht D, Mahmoudi L, Garcia-Rubio I, Owczarek C, Schauer S, Kissner R, Banerjee U, Palmer AF, Spahn DR, Irwin DC, Vallelan F, Buehler PW, Schaer DJ. Haptoglobin Preserves Vascular Nitric Oxide Signaling During Hemolysis. *American Journal of Respiratory Critical Care Medicine* (2016) 193(10): 1111-1122 (Impact Factor 12.996)
154. Baulig W, Seifert B, Spahn DR, Theusinger OM. Accuracy of non-invasive continuous total hemoglobin measurement by Pulse CO-Oximetry in severe traumatized and surgical bleeding patients. *Journal of Clinical Monitoring Computing* (2017) 31(1): 177-185 (Impact Factor 1.819)
155. Mehra T, Seifert B, Bravo-Reiter S, Wanner G, Dutkowski P, Holubec T, Moos RM, Volbracht J, Manz MG, Spahn DR. Implementation of a patient blood management monitoring and feedback program significantly reduces transfusions and costs. *Transfusion* (2015) 55(12): 2807-15 (Impact Factor 3.225)
156. Zalunardo MP, Schläpfer M, Beck-Schimmer B, Seifert B, Spahn DR, Bettex D. Impact of cytokine release on ventricular function after hepatic reperfusion: a prospective observational echocardiographic study with tissue Doppler imaging. *BMC Anesthesiology* (2015) 15:107 (Impact Factor 1.375)
157. Schmidt A.R., Ulrich L., Seifert B., Albrecht R., Spahn D.R., Stein P. Ease and difficulty of pre-hospital airway management in 425 paediatric patients treated by a helicopter emergency medical service: a retrospective analysis. *Scandinavian Journal of Trauma Resuscitation Emergency Medicine* (2016) 24(1): 22. (Impact Factor 2.025)
158. Kandler L., Tscholl D. W., Kolbe M., Seifert B., Spahn D.R. Using educational video to enhance protocol adherence for medical procedures. *British Journal of Anaesthesia* (2016) 116(5): 662-669 (Impact Factor 4.853)
159. Piegeler T., Thoeni N., Kaserer A., Bruesch M., Sulser S., Mueller St.M., Seifert B., Spahn, D.R., Ruetzler K. Sex and Age Aspects in Patients Suffering From Out-Of-Hospital Cardiac Arrest. A Retrospective Analysis of 760 Consecutive Patients. *Medicine* (2016) 95(18): e3561 (Impact Factor 5.723)
160. Schuerner P., Grande B., Piegeler T., Schlaepfer M., Saager L., Hutcherson M.T., Spahn D.R., Ruetzler K. Hands-Off Time for Endotracheal Intubation during CPR Is Not Altered by the Use of the C-MAC Video-Laryngoscope Compared to Conventional Direct Laryngoscopy. A Randomized Crossover Manikin Study. *PLoS One* (2016) 11(5): e0155997 (Impact Factor 3.234)
161. Piegeler T., Neth P., Schlaepfer M., Sulser S., Albrecht R., Seifert B., Spahn D.R., Ruetzler K. Advanced Airway Management in an Anesthesiologist-Staffed Helicopter Emergency Medical Service (HEMS): a Retrospective Analysis of 1047 Out-Of-Hospital Intubations. *Resuscitation* (2016) 105: 66-69 (Impact Factor 4.167)
162. Schulze M., Grande, B., Kolbe M., Kriech S., Nothiger C.B., Kohler M., Spahn D.R., Franzen D. Sa-fAIRway: an airway training for pulmonologists performing a flexible bronchoscopy with nonanesthesiologist administered propofol sedation: A prospective evaluation. *Medicine (Baltimore)* (2016) 95(23): e3849 (Impact Factor 5.723)
163. Weiss M., Kolbe M., Grote G., Spahn D.R., Grande B. Why didn't you say something? Effects of after-event reviews on voice behaviour and hierarchy beliefs in multi-professional action teams. *European Journal of Work and Organizational Psychology* (2016) 26(1): 66-80 (Impact Factor 2.208)

164. Schadde E., Tsatsaris C., Swiderska-Syn M., Breitenstein S., Urner M., Schimmer R., Booy, C. Z'Graggen B.R., Wenger R.H., Spahn, D.R., Hertl M., Knechtle S., Diehl A.M., Schlapfer M., Beck-Schimmer B. Hypoxia of the growing liver accelerates regeneration. *Surgery* (2017) 161(3): 666-679 (Impact Factor 3.309)
165. Meybohm P., Choorapoikayil S., Wessels A., Herrmann E., Zacharowski K., Spahn D.R. Washed cell salvage in surgical patients: A review and meta-analysis of prospective randomized trials under PRISMA. *Medicine (Baltimore)* (2016) 95(31): e4490 (Impact Factor 2.133)
166. Sulser S., Ubbmann D., Schlaepfer M., Brueesch M., Goliash G., Seifert B., Spahn, D.R., Ruetzler K. C-MAC videolaryngoscope compared with direct laryngoscopy for rapid sequence intubation in an emergency department: A randomised clinical trial. *European Journal of Anaesthesiology* (2016) 33:943-948 (Impact Factor 3.634)
167. Rudiger A., Begdeda H., Babic D., Krüger B., Seifert B., Schubert M., Spahn D.R., Bettex D. Intraoperative events during cardiac surgery are risk factors for the development of delirium in the ICU. *Critical Care* (2016) 20: 264 (Impact Factor 4.950)
168. Chen Z., Spahn D.R., Zhang X., Liu Y., Chu H., Liu Z. Morphine Postconditioning Protects Against Reperfusion Injury: The Role of Protein Kinase C-Epsilon, Extra-cellular Signal-Regulated Kinase 1/2 and Mitochondrial Permeability Transition Pores. *Cellular Physiology and Biochemistry* (2016) 39(5):1930-1940 (Impact Factor 4.652)
169. Theusinger O.M., Goslings D., Studt J.D., Brand-Stauber B., Seifert B., Spahn D.R., Frey B.M. Quarantine versus pathogen-reduced plasma-coagulation factor content and rotational thromboelastometry coagulation. *Transfusion* (2017) 57:637-645 (Impact Factor 3.042)
170. Kaserer A., Stein P., Simmen H.P., Spahn, D.R., Neuhaus, V. Failure rate of prehospital chest decompression after severe thoracic trauma. *American Journal of Emergency Medicine* (2017) 35(3):469-474 (Impact Factor 1.504)
171. Eichler K., Urner M., Twerenbold C., Kern S., Brugger U., Spahn D.R., Beck-Schimmer B., Ganter M.T. Economic Evaluation of Pharmacologic Pre- and Postconditioning With Sevoflurane Compared With Total Intravenous Anesthesia in Liver Surgery: A Cost Analysis. *Anesthesia & Analgesia* (2017) 124(3): 925-933 (Impact Factor 3.827)
172. Radu R.R., Kaserer A., Seifert B., Simmen H.P., Ruetzler K., Spahn D.R., Neuhaus V. Prevalence and in-hospital outcome of aspiration in out-of-hospital intubated trauma patients. *European Journal of Emergency Medicine* (2018) 25(5): 362-367 (Impact Factor 2.026)
173. Jeger V., Arrigo M., Hildenbrand F.F., Muller D., Jirkof P., Hauffe T., Seifert B., Arras M., Spahn D.R., Bettex D., Rudiger A. Improving animal welfare using continuous nalbuphine infusion in a long-term rat model of sepsis. *Intensive Care Medicine Experimental* (2017) 5(1):23 (Impact Factor 2.156)
174. Baek J.H., Yalamanoglu A., Gao Y., Guenster R., Spahn D.R., Schaer D.J., Buehler P.W. Iron accelerates hemoglobin oxidation increasing mortality in vascular diseased guinea pigs following transfusion of stored blood. *JCI Insight* (2017) 2(9): e93577
175. Oberholzer N., Kaserer A., Albrecht R., Seifert B., Tissi, M., Spahn D.R., Maurer K., Stein P. Factors Influencing Quality of Pain Management in a Physician Staffed Helicopter Emergency Medical Service. *Anesthesia & Analgesia* (2017) 125(1):200-209 (Impact Factor: 3.827)
176. Stein P., Kaserer A., Sprengel K., Wanner G. A., Seifert B., Theusinger O.M., Spahn D.R. Change of transfusion and treatment paradigm in major trauma patient. *Anaesthesia* (2017) 72(11):1317-1326 (Impact Factor 3.794)

177. Ruetzler K., Guzzella SE, Tscholl DW, Restin T, Cribari M, Turan A, You J, Sessler DI, Seifert B, Gaszynski T, Ganter MT, Spahn DR. Blind intubation through Self-pressurized, Disposable Supraglottic Airway Laryngeal Intubation Masks: An International, Multicenter, Prospective Cohort Study. *Anesthesiology* (2017) 127(2):307-316 (Impact Factor 5.555)
178. Hovaguimian F., Köppel S., Spahn D.R. Safety of Anticoagulation Interruption in Patients Undergoing Surgery or Invasive Procedures: A Systematic Review and Metaanalyses of Randomized Controlled Trials and Non-randomized Studies. *World J. Surg* (2017) 41(10):2444-2456 (Impact Factor 2.673)
179. Stein Ph., Spahn GH., Müller St., Zollinger A., Baulig W., Brüesch M., Seifert B. Spahn D.R., Impact of city police layperson education and equipment with automatic external defibrillators on patient outcome after out of hospital cardiac arrest. *Resuscitation* (2017) 118:27-34 (Impact Factor 5.230)
180. Paydar S., Khalili H., Sabetian G., Dalfardi B., Bolandparvaz S., Niakan M.H., Abbasi H., Spahn D.R., Comparison of the impact of applications of Targeted Transfusion Protocol and Massive Transfusion Protocol in trauma patients. *Korean Journal of Anesthesiology* (2017) 70 (6):626-632
181. Weiss M., Kolbe M., Grote G., Spahn D.R., Grande B., We can do it! Inclusive leader language promotes voice behavior in multi-professional teams. *Leadership Quarterly* (2018) 29(3): 389-402 (Impact Factor 3.094)
182. Steffensmeier D., Albrecht R., Wendling J., Melliger R., Spahn D.R., Stein Ph., Wyss Chr., Specialist advice may improve patient selection for decompression therapy following diving accidents: a retrospective observational study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine* (2017) 25(1):101(Impact Factor 2.036)
183. Stein P., Studt JD., Albrecht R., Müller S., von Ow D., Fischer S., Seifert B., Mariotti S., Spahn D.R., Theusinger OM., The Impact of Prehospital Tranexamic Acid on Blood Coagulation in Trauma Patients. *Anesthesia and Analgesia* (2018)126(2):522-529 (Impact Factor 4.014)
184. Wetzel O., Schmidt AR., Seiler N., Scaramuzza D., Seifert B., Spahn D.R., Stein P., A smartphone application to determine body length for body weight estimation in children: a prospective clinical trial. *J.Clin Monit Comput* (2017) 32(3):571-578 (Impact Factor 1.500)
185. Van Ransbeeck A., Budilivski A., Spahn D.R., Macrea L., Giuliani F., Maurer K., Pain Assessment Discrepancies: A Cross-Sectional Study Highlights the Amount of Underrated Pain. *Pain Pract* (2018) 18 (3):360-367 (Impact Factor 2.495)
186. Krüger BD., KrumannJ., Corti N., Spahn D.R., Bettex D., Rudiger A., Dexmedetomidine-Associated Hyperthermia: A Series of 9 Cases and a Review of the Literature. *Anesth Analg.* (2017) 125(6):1898-1906 (Impact Factor 4.014)
187. Kaserer A., Casutt M., Sprengel K., Seifert B., Spahn D.R., Stein P., Comparison of two different coagulation algorithms on the use of allogenic blood products and coagulation factors in severely injured trauma patients: aretrospective, multicentre, observational study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine* (2018) 26(1):4 (Impact Factor 2.036)
188. Grassin-Delyle S., Theusinger O.M., Albrecht R., Mueller S., Spahn D.R., Urien S., Stein P., Optimisation of the dosage of tranexamic acid in trauma patients with population pharmacokinetic analysis. *Anaesthesia* (2018) 73(6):719-729 (Impact Factor 4.741)
189. Kaserer A., Schedler A., Jetter A., Seifert B., Spahn D.R., Stein P., Studt JD., Risk Factors for Higher-than-Expected Residual Rivaroxaban Plasma Concentrations in Real-Life Patients. *Thromb Haemost.* (2018) 118(5):808-817 (Impact Factor 5.627)
190. Jacky A., Rudiger A., Krüger B., Wilhelm MJ., Paal S., Seifert B., Spahn D.R., Bettex D., Comparison of levosimendan and milrinone for ECLS weaning in patients after cardiac surgery – a retrospective

- before and after study. *Journal of Cardiothoracic and Vascular Anesthesia* (2018) 32(5):2112-2119 (Impact Factor 1.699)
191. Valko P.O., Roschitzki B., Faigle W., Grossmann J., Panse C., Biro P., Dambach M., Spahn D.R., Weller M., Martin R., Baumann C.R. In search of cerebrospinal fluid biomarkers of fatigue in multiple sclerosis: A proteomics study. *Journal of Sleep Research* (2018) 28(3):e12721 (Impact Factor 3.433)
 192. Rudiger A., Jeger V., Arrigo M., Schaer C.A., Hildenbrand F.F., Arras M., Seifert B., Singer M., Schoedon G., Spahn D.R., Bettex D. Heart rate elevations during early sepsis predict death in fluid-resuscitated rats with fecal peritonitis. *Intensive Care Med Exp* (2018) 0; 6 (1):28
 193. Tscholl DW., Handschin L., Neubauer P., Weiss M., Seifert B., Spahn D.R., Noethiger C.B., Using an animated patient avatar to improve perception of vital sign information by anaesthesia professionals. *British Journal of Anaesthesia* (2018) 121(3):662-671 (Impact Factor 6.499)
 194. Beck-Schimmer B., Roth Z'graggen B., Booy C., Koppel S. Spahn D.R., Schläpfer M., Schadde E., Sevoflurane Protects Hepatocytes From Ischemic Injury by Reducing Reactive Oxygen Species Signaling of Hepatic Stellate Cells: Translational Findings Based on a Clinical Trial. *Anesth Analg* (2018) 127(4):1058-1065 (Impact Factor 3.463)
 195. Kwon J.H., Han S., Cho D., Spahn D.R., Ko J.S., Kim D.Y., Jun, J.H., Gwak, M.S., Kim G.S., Longer storage of red blood cells does not affect mortality in transfused liver transplant recipients. *Transfusion* (2018) 58(11):2529-2537 (Impact Factor 3.423)
 196. Tscholl D.W., Weiss M., Handschin L., Spahn D.R., Noethiger C.B., User perceptions of avatar-based patient monitoring: a mixed qualitative and quantitative study. *BMC Anesthesiology* (2018) 18(1):188 (Impact Factor 1.788)
 197. Spahn D.R., Schoenrath F., Spahn G.H., Seifert B., Stein Ph., Theusinger O.M., Kaserer A., Hege- mann I., Hofmann A., Maisano F., Falk V., Effect of ultra-short-term treatment of patients with iron deficiency or anaemia undergoing cardiac surgery: a prospective randomised trial. *The Lancet* (2019) 393(10187):2201-2212 (Impact Factor 53.254)
 198. Tscholl D.W., Handschin L., Roessler J., Weiss M., Spahn D.R., Noethiger C.B., It's not you, it's the design - common problems with patient monitoring reported by anesthesiologists: a mixed qualitative and quantitative study. *BMC Anesthesiology* (2019) 19(1):87 (Impact Factor 1.788)
 199. Pfarr J., Ganter M.T., Spahn D.R., Noethiger C.B., Tscholl D.W., Avatar-Based Patient Monitoring With Peripheral Vision: A Multicenter Comparative Eye-Tracking Study. *Journal of Medical Internet Research* (2019) 21(7):e13041 (Impact Factor 4.945)
 200. Kaserer A., Rössler J., Braun J., Farokhzad F., Pape H.C., Dutkowski P., Plass A., Horisberger T., Volbracht J., Manz M.G., Spahn D.R., Impact of a Patient Blood Management monitoring and feed- back programme on allogeneic blood transfusions and related costs. *Anaesthesia* (2019) 74(12):1534-1541 (Impact Factor 5.879)
 201. Rössler J., Schoenrath F., Seifert B., Kaserer A., Spahn G.H., Falk V., Spahn D.R., Iron deficiency is associated with higher mortality in patients undergoing cardiac surgery: a prospective study. *British Journal of Anaesthesia* (2020) 124(1):25-34 (Impact Factor 6.199)
 202. Kaserer A., Kiavialaitis G.E., Braun J., Schedler A., Stein P., Rössler J., Spahn D.R., Studt J.D., Impact of rivaroxaban plasma concentration on perioperative red blood cell loss. *Transfusion* (2020) 60 (1):197:205 (Impact Factor 3.111)
 203. Füllenbach C., Stein P., Glaser P., Triphaus C., Lindau S., Choorapoikayil S., Schmitt E., Zacharowski K., Hintereder G., Hennig G., Homann C., Stepp H., Spahn G.H., Kaserer A., Schedler A., Meybohm

- P., Spahn D.R., Screening for iron deficiency in surgical patients based on noninvasive zinc protoporphyrin measurements. *Transfusion* (2020) 60(1);62-72 (Impact Factor 3.111)
204. Pfarr J., Ganter M.T., Spahn D.R., Noethiger C.B., Tscholl D.W., Effects of a standardized distraction on caregivers' perceptive performance with avatar-based and conventional patient monitoring: a multicenter comparative study. *Journal of Clinical Monitoring and Computing* (2020) 24(6):1369-1378 (Impact Factor 2.179)
 205. Kiavialaitis G.E., Müller S., Braun J., Rössler J., Spahn D.R., Stein P., Kaserer A., Clinical practice of pre-hospital analgesia: An observational study of 20,978 missions in Switzerland. *American Journal of Emergency Medicine* (2020) 38(11):2318-2323 (Impact Factor 1.651)
 206. Kaserer A., Schedler A., Seifert B., Spahn D.R., Studt J.D., Stein P., Standard coagulation assays alone are not sufficient to exclude surgically relevant rivaroxaban plasma concentrations. *Perioperative Medicine* (2019) 8:15 eCollection 2019 (Impact Factor keiner)
 207. Kaserer A., Rössler J., Slankamenac K., Arvanitakis M., Spahn D.R., Giovanoli P., Steiger P., Plock J.A., Impact of allogeneic blood transfusions on clinical outcomes in severely burned patients. *Burns* (2020) 46(5):1083-1090 (Impact Factor 2.247)
 208. Stein A.L., Rössler J., Braun J., Sprengel K., Beeler P.E., Spahn D.R., Kaserer A., Stein P., directed factor-based coagulation management on thromboembolic events following major trauma. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine* (2019) 27(1):117 (Impact Factor 2.556)
 209. Grande B., Oechslin P., Schlaepfer M., Seifert B., Inci I., Opitz I., Spahn D.R., Weder W., Zalunardo M., Predictors of blood loss in lung transplant surgery-a single center retrospective cohort analysis. *Journal of Thoracic Disease* (2019) 11(11):4755-4761 (Impact Factor 2.027)
 210. Biro P., Hofmann P., Gage D., Boehler Q., Chautems C., Braun J., Spahn D.R., Nelson B.J., Automated tracheal intubation in an airway manikin using a robotic endoscope: a proof of concept study. *Anaesthesia* (2020) 75(7):881-886 (Impact Factor 5.879)
 211. Rössler J., Meybohm P., Spahn D.R., Zacharowski K., Braun J., Nöthiger C.B., Tscholl D.W., Improving decision making through presentation of viscoelastic tests as a 3D animated blood clot: the Visual Clot. *Anaesthesia* (2020) 75(8):1059-1069 (Impact Factor 5.879)
 212. Garot O., Rössler J., Pfarr J., Ganter M.T., Spahn D.R., Nöthiger C.B., Tscholl D.W., Avatar-based versus conventional vital sign display in a central monitor for monitoring multiple patients: a multicenter computer-based laboratory study. *BMC Medical Informatics and Decision Making* (2020) 20;(1):26 (Impact Factor 2.067)
 213. Tscholl D.W., Rössler J., Handschin L., Seifert B., Spahn D.R., Nöthiger C.B., The Mechanisms Responsible for Improved Information Transfer in Avatar-Based Patient Monitoring: Multicenter Comparative Eye-Tracking Study. *Journal of Medical Internet Research* (2020) 16;22(3):e15070 (Impact Factor 4.945)
 214. Dirscherl K., Schläpfer M., Roth Z'graggen B., Wenger R.H., Booy C., Flury-Frei R., Fatzer R., Aloman C., Bartosch B., Parent R., Kurtcuoglu V., de Zélicourt D., Spahn D.R., Beck Schimmer B., Schadde E., Hypoxia sensing by hepatic stellate cells leads to VEGF-dependent angiogenesis and may contribute to accelerated liver regeneration. *Scientific Reports* (2020) 9;10(1):4392 (Impact Factor 4.011)
 215. Rössler J., Kaserer A., Albiez B., Braun J., Breckwoldt J., Spahn D.R., Nöthiger C.B., Tscholl D.W., Comparing Classroom Instruction to Individual Instruction as an Approach to Teach Avatar-Based Patient Monitoring With Visual Patient: Simulation Study. *JMIR Medical Education* (2020) 23;6(1):e17922 (Impact Factor keiner)

216. Rössler J., Hegemann I., Schoenrath F., Seifert B., Kaserer A., Spahn G.H., Falk V., Spahn D.R., Efficacy of quadruple treatment on different types of pre-operative anaemia: secondary analysis of a randomised controlled trial. *Anaesthesia* (2020) 75(8):1039-1049 (Impact Factor 5.879)
217. Grest A., Kurmann J., Müller M., Jeger V., Krüger B., Spahn D.R., Cardiovascular Safety of Clonidine and Dexmedetomidine in Critically Ill Patients after Cardiac Surgery. *Critical Care Research and Practice* (2020):475615, 8 pages (Impact Factor keiner)
218. Marty A.P., Schmelzer S., Thomasin R.A., Braun J., Zalunardo M.P., Spahn D.R., Breckwoldt J., Agreement between trainees and supervisors on first-year entrustable professional activities for anaesthesia training. *British Journal of Anaesthesia* (2020) 125(1):98-103 (Impact Factor 6.199)
219. Unal D., Senayli Y., Polat R., Spahn D.R., Toraman F., Alkis N., for the Turkish Society of Anaesthesiology and Reanimation Patient Blood Management Group and the Turkish National Perioperative Transfusion Study Investigators, Peri-operative blood transfusion in elective major surgery: incidence, indications and outcome - an observational multicentre study. *Blood Transfusion* (2020) 18(4):261-279 (Impact Factor 3.662)
220. Said S., Gozdzik M., Roche T.R., Braun J., Rössler J., Kaserer A., Spahn D.R., Nöthiger C.B., Tscholl D.W., Validation of the Raw National Aeronautics and Space Administration Task Load Index (NASA-TLX) Questionnaire to Assess Perceived Workload in Patient Monitoring Tasks: Pooled Analysis Using Mixed Models. *Journal of Medical Internet Research* (2020) 22(9):e19472 (Impact Factor 5.034)
221. Kelemen J. A., Kaserer A., Jensen K. O., Stein P., Seifert B., Simmen H. P., Spahn D. R., Pape H. C., Neuhaus V., Prevalence and outcome of contrast-induced nephropathy in major trauma patients. *European Journal of Trauma and Emergency Surgery* (2020) DOI:10.1007/s00038-020-0149-w online ahead of print (Impact Factor 2.139)
222. Roche T.R., Said S., Rössler J., Gozdzik M., Meybohm P., Zacharowski K., Spahn D.R., Nöthiger Ch.B., Tscholl, D.W., Physicians' Perceptions of Visual Clot (Situation Awareness-oriented Visualization Technology for Viscoelastic blood coagulation management): Mixed Methods Study. *JMIR Serious Games* (2020) 8(4):e19036 (Impact Factor 3.351)
223. Inci I., Arni S., Iskender I., Citak N., Rodriguez J.M., Weisskopf M., Opitz I., Weder W., Frauenfelder T., Krafft M.P., Spahn D.R., Functional, Metabolic and Morphologic Results of Ex Vivo Donor Lung Perfusion with a Perfluorocarbon-Based Oxygen Carrier Nanoemulsion in a Large Animal Transplantation Model. *Cells* (2020) 9(11):2501 (Impact Factor 4.366)
224. Kataife E.D., Said S., Braun J., Roche T.R., Rössler J., Kaserer A., Spahn D.R., Mileo F.G., Tscholl D.W., The Haemostasis Traffic Light, a user-centred coagulation management tool for acute bleeding situations: a simulation-based randomised dual-centre trial. *Anaesthesia* (2021) 76(7):902-910 (Impact Factor 6.955)
225. Friedrich M.S., Studt J.D., Braun J., Spahn D.R., Kaserer A., Coronavirus-induced coagulopathy during the course of disease. *PLoS One* (2020) 15(12):e0243409 (Impact Factor 2.740)
226. Roche T.R., Wetli D.J., Braun J., Kataife E.D., Mileo F.G., Spahn D.R., Tscholl D.W., Said S., Physicians' perceptions regarding acute bleeding management: an international mixed qualitative quantitative study. *BMC Anesthesiology* (2021) 21(1):43 s12871-021-01269-x (Impact Factor 2.217)
227. Said S., Roche T.R., Braun J., Ganter M.T, Meybohm P., Herrmann J., Zacharowski K., Rivas E., Lopez-Baamonde M., Raimann F.J., Piekarski F., Spahn D.R., Nöthiger C.B., Tscholl D.W., Effects of an animated blood clot on the decision-making of users inexperienced in viscoelastic testing - Visual Clot technology: a multicenter trial. *Journal of Medical Internet Research* (2021) 23(5): e27124 (Impact Factor 5.428).

228. Roche T.R., Said S., Braun J., Maas E.J.C., Machado C., Grande B., Kolbe M., Spahn D.R., Nöthiger C.B., Tscholl D.W., Avatar-based patient monitoring in critical anaesthesia events: a randomised high-fidelity simulation study. *British Journal of Anaesthesia*. (2021) 126(5):1046-1054 (Impact Factor 9.166)
229. Schaer C.A., Jeger V., Gentinetta T., Spahn D.R., Vallelian F., Rudiger A., Schaer D.J., Haptoglobin treatment prevents cell-free hemoglobin exacerbated mortality in experimental rat sepsis. *Intensive Care Medicine Experimental* (2021) 9(1): 22 s40635-021-00387-7 (Impact Factor keiner)
230. Roche T.R., Braun J., Ganter M.T., Meybohm P., Herrmann J., Zacharowski K., Raimann F.J., Piekarski F., Spahn D.R., Nöthiger C.B., Tscholl D.W., Said S., Voice alerting as a medical alarm modality holds untapped potential for next-generation patient monitoring - a randomised, international multi-centre trial. *British Journal of Anaesthesia* (2021) 127(5): 769-777 (Impact Factor 9.166)
231. Sahli S.D., Pedrazzi N., Braun J., Spahn D.R., Kaserer A., Plock J.A., Effect of a factor-based coagulation management on blood product use after major burn injury: A retrospective cohort study. *Burns* (2021) 47(7):1486-1494 (Impact Factor 2.744)
232. Wieczorek M., Schwarz F., Sadlon A., Abderhalden L.A., de Godoi Rezende Costa Molino C., Spahn D.R., Schaer D.J., Orav E.J., Egli A., Bischoff-Ferrari H.A, Iron deficiency and biomarkers of inflammation: a 3-year prospective analysis of the DO-HEALTH trial. *Aging Clin Exp Res*. (2022) 34(3):515-525 (Impact Factor 3.638)
233. Bergauer L. , Kataife E.D., Mileo F.G., Roche T.R., Said S., Spahn D.R., Tscholl D.W., Wetli D.J., Physicians' perceptions of two ways of algorithm presentation: graphic versus text-based approach. *Ergonomics* (2022):1-12 DOI 10.1080/00140139.2022.2029581 Online ahead of print (Impact Factor 2.778)
234. Akbas S., Said S., Roche T.R., Nöthiger C.B., Spahn D.R., Tscholl D.W., Bergauer L., User Perceptions of Different Vital Signs Monitor Modalities During High-Fidelity Simulation: Semiquantitative Analysis. *JMIR Hum Factors* (2022) 9(1):e34677 (kein Impact Factor)
235. Ljubenovic A., Said S., Braun J., Grande B., Kolbe M., Spahn D.R., Nöthiger C.B., Tscholl D.W., Roche T.R., Anesthesia providers' visual attention in simulated anaesthesia emergencies using conventional number-based and avatar-based patient monitoring: a prospective, eye-tracking study. *JMIR Serious Games* (2022);10(1):e35642 (Impact Factor 4.143)
236. Wetli D.J., Bergauer L., Nöthiger C.B., Roche T.R., Spahn D.R., Tscholl D.W., Said S., Improving Visual-Patient-Avatar Design Prior to Its Clinical Release: A Mixed Qualitative and Quantitative Study. *Diagnostics* (2022) 12(2):555 (Impact Factor 3.706)
237. Stahl-Gugger A., de Godoi Rezende Costa Molino C., Wieczorek M., Chocano-Bedoya P.O., Abderhalden L.A., Schaer D.J., Spahn D.R., Orav E.J., Vellas B., da Silva J.A.P., Kressig R.W., Egli A., Bischoff-Ferrari H.A.; DO-HEALTH Research Group: Prevalence and incidence of iron deficiency in European community-dwelling older adults: an observational analysis of the DO-HEALTH trial. *Aging Clin Exp Res*. (2022) DOI: 10.1007/s40520-022-02093-0 Online ahead of print (Impact Factor 3.638)
238. Marty A.P., Braun J., Schick C., Zalunardo M.P., Spahn D.R., Breckwoldt J., A mobile application to facilitate implementation of programmatic assessment in anaesthesia training. *British Journal of Anaesthesia* (2022) Online ahead of print (Impact Factor 9.166)
239. Sahli S.D., Kaserer A., Braun J., Halbe M., Dahlem Y. Spahn M.A., Rössler J., Krüger B., Maisano F., Spahn D.R., Wilhelm M.J., Predictors Associated with Mortality of Extracorporeal Life Support Therapy for acute heart failure: Single-center experience with 679 patients. *Journal of Thoracic Disease* (2022) Online ahead of print (Impact Factor 2.895)

4.4 Meta-Analyses (total 3)*Included in Original Papers.*

1. Acheson A.G., Brookes M.J., Spahn D.R. Effects of allogeneic red blood cell transfusions on clinical outcomes in patients undergoing colorectal cancer surgery: a systematic review and meta-analysis. *Annals of Surgery* (2012) 256: 235-244 (Impact Factor 7.492)
2. Meybohm P., Choorapoikayil S., Wessels A., Herrmann E., Zacharowski K., Spahn D.R. Washed cell salvage in surgical patients: A review and meta-analysis of prospective randomized trials under PRISMA. *Medicine (Baltimore)* (2016) 95(31): e4490 (Impact Factor 2.133)
3. Hovaguimian F., Köppel S., Spahn D.R. Safety of Anticoagulation Interruption in Patients Undergoing Surgery or Invasive Procedures: A Systematic Review and Metaanalyses of Randomized Controlled Trials and Non-randomized Studies. *World J. Surg* (2017) 41(10):2444-2456 (Impact Factor 9.166)

4.5 Review Articles (total 139)

1. Spahn D.R., Leone B.J., Reves J.G., Pasch T. Cardiovascular and coronary physiology of acute isovolemic hemodilution: A review of non-oxygen carrying and oxygen carrying solutions. *Anesthesia and Analgesia* (1994) 78: 1000-1021. (Impact Factor 2.346)
2. Spahn D.R., Schmid E.R. Haemodilution in cardiac and vascular surgery. *Current Opinion in Anaesthesiology* (1996) 9: 54-61.
3. Spahn D.R., Pasch T. Erythrozytensubstitution: Was ist bekannt über den kritischen Hämatokrit. *Infusionstherapie und Transfusionsmedizin* (1997) 24: 100-105. (Impact Factor 0.271)
4. Egli G.A., Spahn D.R. Does hemodilution enhance or compromise blood coagulation? *Seminars in Cardiothoracic and Vascular Anesthesia* (1997) 1: 342-348.
5. Spahn D.R. Sauerstofftransportierende Lösungen - Die Kolloide der Zukunft? *Anästhesiologie Intensivmedizin Notfallmedizin Schmerztherapie* (1998) 33: 277-279. (Impact Factor 0.333)
6. Spahn D.R., Pasch T. State of the art blood saving. *Current Opinion in Anaesthesiology* (1998) 11: 161-166.
7. Spahn D.R. Monitoring of oxygen delivery in cardiac and vascular surgery. *Vox Sanguinis* (1998) 74 (Supplement 2) 395-397. (Impact Factor 1.821)
8. Spahn D.R. Optimale und kritische Hämoglobinkonzentration beim Intensivpatienten: Eine Betrachtung aus klinischer Sicht. *Intensivmedizin und Notfallmedizin* (1998) 35 (Supplement 1) 98-101.
9. Spahn D.R., Jamnicki M. Blood saving techniques with special emphasis on haemodilution. *Current Anaesthesia and Critical Care* (1998) 9: 140-145.
10. Spahn D.R., Schanz U., Pasch T. Perioperative Transfusionskriterien. *Anaesthesist* (1998) 47: 1011-1020. (Impact Factor 0.888)
11. Spahn D.R., Jamnicki M. Künstliche Sauerstoffträger. *Intensivmedizin und Notfallmedizin* (1999) 36: 243-249.
12. Spahn D.R. Artificial oxygen carriers: Research and clinical use, *La Transfusione Del Sangue* (1999) 44: 55-62.
13. Spahn D.R. Benefits of red cell transfusion. *Transfusion Alternatives in Transfusion Medicine* (1999) 1: 6-10.
14. Spahn D.R. Artificial O₂ carriers: Perfluorocarbon emulsions. *Critical Care* (1999) 3: R93-R97. (Impact Factor 0.701)

15. Spahn D.R. Current status of artificial oxygen carriers. *Advanced Drug Delivery Reviews* (2000) 40: 143-151. (Impact Factor 3.022)
16. Expertengruppe Humanalbumin (Pasch T., Bucher H.-U., Keller E., Künzi W., Salomon F., Spahn D.R., Stocker R.) Indikationen für Humanalbuminlösungen. *Schweizerische Medizinische Wochenschrift* (2000) 130: 516-522 (Impact Factor 0.308)
17. Spahn D.R., Casutt M. Eliminating blood transfusions: New aspects and perspectives. *Anesthesiology* (2000) 93: 242-255. (Impact Factor 4.625)
18. Spahn D.R. Perioperative transfusion triggers for red blood cells. *Vox Sanguinis* (2000) 78 (Supplement 2) 163-166. (Impact Factor 1.821)
19. Spahn D.R., Pasch T. Physiologic properties of blood substitutes. *News in Physiological Science* (2001) 16: 38-41. (Impact Factor 2.170)
20. Spahn D.R., Kocian R. Les transporteurs artificiels d'oxygène et l'hémodilution normovolémique aiguë augmentée: Une mise au point de la situation actuelle. *Médecine et Hygiène* (2001) 59: 946-950.
21. Spahn D.R. Sauerstoffträger – Carrier der Zukunft. *Anaesthesist* (2001) 50: 450-455. (Impact Factor 0.977)
22. Spahn D.R. Clinical studies using Oxygent in non-cardiac surgery TATM (2002, in press)
23. Zaugg M., Schaub M.C., Pasch T., Spahn D.R., Modulation of beta-adrenergic receptor subtype activities in perioperative medicine: mechanisms and site of action. *British Journal of Anaesthesia* (2002) 88: 101-123 (Impact Factor 2.205).
24. Kocian R., Faithfull N.S., Willmann P.F.X., Spahn D.R. Augmented acute normovolemic hemodilution (A-ANH™) – a new concept to minimize the need for allogeneic blood transfusion. *Intensivmedizin und Notfallmedizin* (2002) 39: 411-417.
25. Kocian R., Chollet-Rivier M., Spahn D.R. Anästhesie für endoskopische Eingriffe. *Anaesthesist* (2002) 51: 144-163. (Impact Factor 0.829)
26. Chassot P.-G., Delabays A., Spahn D.R. Preoperative evaluation of patients with or at risk of coronary artery disease undergoing noncardiac surgery. *British Journal of Anaesthesia* (2002) 89: 747-759. (Impact Factor 2.205).
27. Spahn D.R., Kocian R. Artificial oxygen carriers. *Current Medical Literature Anaesthesiology* (2002) 16: 29-33.
28. Spahn D.R., Kocian R. Artificial oxygen carriers: where do we stand? *TATM* (2002) 4 (Supplement): 16-18.
29. Spahn D.R., Kocian R. The role of perfluorocarbon emulsions in reducing allogeneic blood transfusions and augmenting tissue oxygenation. *Infusion Therapy and Transfusion Medicine* (2002) 29 (Supplement 1) 31-32 (Impact Factor 0.031).
30. Spahn D.R. Artificial oxygen carriers: Status 2002. *Vox Sanguinis* (2002) 83 (Supplement 1) 281-285 (Impact Factor 1.944).
31. Spahn D.R., Kocian R. The place of artificial oxygen carriers in reducing allogeneic blood transfusions and augmenting tissue oxygenation. *Canadian Journal of Anesthesiology* (2003) 50: S41-S47 (Impact Factor 1.014).
32. Magnusson L., Spahn D.R. New Concepts on atelectasis during general anaesthesia. *British Journal of Anaesthesia* (2003) 91: 61 - 72 (Impact Factor 2.098).

33. Zaugg M., Lucchinetti E., Garcia C., Pasch T., Spahn D.R., Schaub M.C. Anaesthetics and cardiac preconditioning. Part II. Clinical implications. *British Journal of Anaesthesia* (2003) 91: 566-576 (Impact Factor 2.098).
34. Jamnicki M., Kocian R., van der Linden P., Zaugg M., Spahn D.R. Acute normovolemic hemodilution: physiology, limitations and clinical use. *Journal of Cardiothoracic and Vascular Anesthesia* (2003) 17: 747-754 (Impact Factor 0.877).
35. Dettori N, Spahn D.R. Hydroxyethylstarches and pruritus – A real problem? *TATM* (2003) 5: 401-404.
36. Spahn D.R., Kocian R. Transfusions sanguines: efficacité alternatives peropératoires y compris les transporteurs artificielles d'oxygène. *Médecine et Hygiène* (2003) 61: 2482-2489.
37. Spahn D.R., Kocian R. What is the status of artificial blood in 2003? *Blood Banking and Transfusion Medicine* (2003) 1: 54-59.
38. London M.J., Zaugg M., Schaub M.C., Spahn D.R. Perioperative Beta Blockade: Physiologic Foundation and Clinical Controversies. *Anesthesiology* (2004) 100: 170-175. (Impact Factor 3.470).
39. Chassot P.-G., van der Linden P., Zaugg M., Mueller X.M., Spahn D.R. Physiologic and anaesthetic management for off-pump coronary artery bypass surgery. *British Journal of Anaesthesia* (2004) 92: 400-413 (Impact Factor 2.365).
40. Spahn D.R., Dettori N., Kocian R., Chassot P.-G. Transfusion in the cardiac patient. (*Critical Care Clinics*) (2004) 20: 269-279 (Impact Factor 1.485).
41. Spahn D.R., Kocian R. Critères de la transfusion érythrocytaire. *Médecine et Hygiène* (2004) 62: 508-511.
42. Bombeli T., Spahn D.R. Updates in perioperative coagulation: Physiology and management of thromboembolism and haemorrhage. *British Journal of Anaesthesia* (2004) 93: 275-287 (Impact Factor 2.365).
43. Marcucci C., Madjdpour C., Spahn D.R., Allogeneic blood transfusions: benefit, risks and clinical indications in countries with a low or high human development index. *British Medical Bulletin* (2004) 70:15-28 (Impact Factor 1.708).
44. Spahn D.R. Strategies for transfusion therapy. *Best Practice & Research Clinical Anaesthesiology* (2004) 18: 661-673.
45. Bombeli T., Spahn D.R. Updates in perioperative coagulation: Physiology and management of thromboembolism and haemorrhage. *British Journal of Anaesthesia (Indian Excerpts Edition)* (2004) 1: 84-93.
46. Heim C., Schoettker P., Spahn D.R. Glasgow Coma Score für den Patienten mit Schädel-Hirn Trauma. *Anaesthesist* (2004) 53: 1245-1256 (Impact Factor 0.982).
47. Mamie C., Meyer P.-A., Crettenand B., Morabia A., Clergue F. et le Comité de pilotage romand (De-lachaux A., Erard P.-Y., Laverrière M.-C., Maître P., Ravussin P., Spahn D.R. Schweizer A., Vial A.) Evolution prévisible des effectifs médico-infirmière en anesthésie en Suisse romande. *Médecine et Hygiène* (2004) 62: 2502-2506.
48. Spahn D.R., Kocian R. Artificial O2 carriers: status 2005. *Current Pharmaceutical Design* (2005) 11: 4099-4114 (Impact Factor 5.385).
49. Madjdpour C., Spahn D.R. Allogeneic blood transfusions: Efficacy, risks, alternatives and indications *British Journal of Anaesthesia* (2005) 95: 33-42 (Impact Factor 2.469).
50. Thyges C., Spahn D.R. Current status of artificial O2 carriers. *Anesthesiology Clinics of North America* (2005) 23: 373-389.

51. Madjdpour C., Marcucci C., Tissot J.-D., Spahn D.R. Perioperative Bluttransfusion – Nutzen, Risiken und Richtlinien. *Anaesthesist* (2005) 54: 67-82. (Impact Factor 0.982).
52. Spahn D.R., Rossaint R. Insight into coagulopathic bleeding and blood component transfusion in trauma. *British Journal of Anaesthesia* (2005) 95: 130-139 (Impact Factor 2.469).
53. Zander R., Adams H.A., Boldt J., Hiesmayr M.J., A. Meier-Hellmann, Spahn D.R., Standl T. Forderungen und Erwartungen an einen optimalen Volumenersatz. *Anästhesiologie, Intensivmedizin, Notfallmedizin und Schmerztherapie (AINS)* (2005) 40: 701-719 (Impact Factor 0.415).
54. Madjdpour C., Spahn D.R. Allogeneic blood transfusions: Efficacy, risks, alternatives and indications *British Journal of Anaesthesia, South African Excerpt Edition* (2005) 5: 262-271.
55. Madjdpour C., Heindl V., Spahn D.R. Allogeneic blood transfusion: Risks benefits, alternatives and indications. *Minerva Anesthesiologica* (2006) 72: 283-298.
56. Rossaint R, Cerny V, Coats TJ, Duranteau J, Fernández-Mondéjar E, Gordini G, Stahel PF, Hunt BJ, Neugebauer E and Spahn DR Key issues in advanced bleeding care in trauma. *Shock* (2006) 26: 322-331 (Impact Factor 3.122).
57. Madjdpour C., Spahn D.R., Weiskopf R.B. Anemia and perioperative red blood cell transfusion: a matter of tolerance. *Critical Care Medicine* (2006) 34 (Supplement) S102-S108 (Impact Factor 4.182).
58. Vincent J.-L., Rossaint R., Riou B., Ozier Y., Williams D.J., Zideman D., Spahn D.R., Recommendations on the use of recombinant activated factor VII as an adjunctive treatment for massive bleeding – a European perspective. *Critical Care* (2006). (Impact Factor 3.214).
59. Kocian R., Campiche S., Spahn D.R. Transfusion peropératoire. *Revue Médicale Suisse* (2006) 2: 2656-61
60. Chassot P.-G., Delabays A., Ravussin P., Spahn D.R. Antiplaquettaires et hémorragie peropératoire. *Revue Médicale Suisse* (2006) 2: 2684-7
61. Rossaint R., Stahel P.F., Duranteau J., Spahn D.R. Nonsurgical treatment of major bleeding: Pharmaceutical interventions and angiography. *Anesthesiology Clinics of North America* (2007.) 25: 35-48.
62. Klein H.G., Spahn D.R., Carson J.L. Red blood cell transfusion in clinical practice. *Lancet* (2007.) 370: 415-426. (Impact Factor 25.800).
63. Chassot P.-G., Delabays A., Spahn D.R. Perioperative use of antiplatelet drugs. *Best Practice & Research Clinical Anaesthesiology* (2007.) 21: 241-256.
64. Grottke O., Henzler D., Spahn D.R., Rossaint R. Coagulopathy in multiple trauma: new aspects of therapy. *Der Anaesthesist* (2007.) 56: 95-108 (Impact Factor 0.849)
65. Vincent J.-L., Rossaint R., Riou B., Ozier Y., Zideman D., Spahn D.-R. Recommendations on the use of recombinant activated factor VII as an adjunctive treatment for massive bleeding. A European perspective. *Annales Françaises d'Anesthésie et de Réanimation* (2007.) 26: 145-156 (Impact Factor 0.313)
66. Spahn D.R., Cerny V., Coats T.J., Duranteau J., Fernández-Mondéjar E., Gordini G., Stahel Ph.F., Hunt B.J., Komadina R., Neugebauer E., Ozier Y., Riddez L., Schultz A., Vincent J.-L., Rossaint R. Management of bleeding following major trauma: a European guideline. *Critical Care* (2007.) 11: R17: 1 – 22 (Impact Factor 2.932)
67. Madjdpour C., Spahn D.R. Allogeneic red blood cell transfusion: Physiology of oxygen transport. *Best Practice & Research Clinical Anaesthesiology* (2007.) 21: 163-171

68. Shander A., Hofmann A., Gombotz H., Theusinger O.M., Spahn D.R. Estimating the cost of blood: past, present and future directions. *Best Practice & Research Clinical Anaesthesiology* (2007.) 21: 271-289
69. Chassot P.-G., Delabays A., Spahn D.R. Perioperative antiplatelet therapy: the case for continuing therapy in patients at risk of myocardial infarction. *British Journal of Anaesthesia* (2007.) 99: 316-328 (Impact Factor 2.679)
70. Apfel C.C., Kranke P., Piper S., Rüschi D., Kerger H., Steinfath M., Stöcklein K., Spahn D.R., Möllhoff T., Danner K., Biedler A., Hohenhaus M., Zwissler B., Danzeisen O., Gerber H., Kretz F.-J. Übelkeit und Erbrechen in der postoperativen Phase: Experten- und evidenzbasierte Empfehlungen zu Prophylaxe und Therapie. *Der Anaesthesist* (2007.) 11: 1170-1180 (Impact Factor 0.863)
71. Kocian R., Spahn D.R. Haemoglobin, oxygen carriers and perioperative organ perfusion. *Best Practice & Research Clinical Anaesthesiology* (2008.) 22: 63-80
72. Zalunardo M.P., Spahn D.R. Preoperative Evaluation – an Update. *Praxis, Schweizerische Rundschau für Medizin* (2008.) 97: 369-373
73. Buddeberg F., Beck Schimmer B., Spahn D.R. Transfusion-transmissible infections and transfusion-related immunomodulation. *Best Practice & Research Clinical Anaesthesiology* (2008.) 22: 503-517
74. Theusinger O.M., Spahn D.R., Ganter M.T. Transfusion in trauma: why and how should we change our current practice? *Current Opinion in Anaesthesiology* (2009) 22: 305-312
75. Biro P., Spahn D.R. The difficult intubation drill at the University Hospital Zurich. *Romanian Journal of Anaesthesia and Intensive Care* (2009) 16: 147-153
76. Rossaint R., Bouillon B., Cerny V., Coats T.J., Duranteau J., Fernández-Mondéjar E., Stahel P.F., Hunt B.J., Komadina R., Nardi G., Neugebauer E., Ozier Y., Riddez L., Schultz A., Vincent J.L., Spahn D.R. Management of bleeding following major trauma: an updated European guideline. *Critical Care* (2010)14: R52 (Impact Factor 4.931)
77. Eberli D., Chassot P.G., Sulser T., Samama Ch.M., Mantz J., Delabays A., Spahn D.R. Urological Surgery and Antiplatelet Drugs After Cardiac and Cerebrovascular Accidents. *The Journal of Urology* (2010) 183: 2128-2136 (Impact Factor 4.016)
78. Spahn D.R. Anemia and Patient Blood Management in Hip and Knee Surgery. *Anesthesiology* (2010) 113: 482-95 (Impact Factor 5.354)
79. Chassot P.G., Marcucci C., Delabay A., Spahn D.R. Perioperative antiplatelet therapy. *American Family Physician* (2010) 82: 1484-1489 (Impact Factor 1.702)
80. Sørensen B., Spahn D.R., Immerhofer P., Spannagl M., Rossaint R. Clinical review: Prothrombin complex concentrates – evaluation of safety and thrombogenicity. *Critical Care* (2011) 15: 201-209 (Impact Factor 4.931)
81. Isbister J.P., Shander A., Spahn D.R., Erhard J., Farmer S.L., Hofmann A. Adverse Blood Transfusion Outcomes: Establishing Causation. *Transfusion Medicine Reviews* (2011) 25: 89-101 (Impact Factor 3.614)
82. Shander A., Fink A., Javidroozi M., Erhard J., Farmer S.L., Corwin H., Goodnough L.T., Hofmann A., Isbister J., Ozawa S., Spahn D.R. Appropriateness of Allogeneic Red Blood Cell Transfusion: The International Consensus Conference on Transfusion Outcomes. *Transfusion Medicine Reviews* (2011) 25: 232-246.e53 (Impact fac-tor: 3.614)
83. Levi M., Fries D., Gombotz H., van der Linden Ph., Nascimento B., Callum J.L., Bé-lisle S., Rizoli S., Hardy J.-F., Johansson P.I., Samama C.M., Grottke O., Rossaint R., Henny C.P., Goslings J.C., Theusinger O.M., Spahn D.R., Ganter M.T., Hess J.R., Dutton R.P., Scalea T.M., Levy J.H., Spinella

- P.C., Panzer S., Reesink H.W. Prevention and treatment of coagulopathy in patients receiving massive transfusions. *Vox Sanguinis* (2011) 101: 154-174 (Impact Factor 3.292)
84. Grottke O., Spahn D.R., Rossaint R. Treatment of massive bleeding: Summary of the updated European guidelines. *Anaesthetist* (2011) 60: 546-554 (Impact Factor 0.729)
 85. Kozek-Langenecker S., Sorenson B., Hess J., Spahn D.R. Clinical effectiveness of fresh frozen plasma compared with fibrinogen concentrate: a systematic review. *Critical Care* (2011) 15: R239 (Impact Factor 4.595)
 86. Schleiffenbaum B., Holzer N., Aeschbach Th., Bergerhoff A., Casutt M., Faust A., Miozzari H., Neff Th.A., Widler J., Spahn D.R. Optimales präoperatives Management der Knie- und Hüftgelenkersatz-Operationen unter besonderer Berücksichtigung der Anämie – die Rolle des Hausarztes. *Praxis* (2011) 100: 1071-1081
 87. Theusinger O.M., Felix Ch., Spahn D.R. Strategies to reduce the use of blood products: a European perspective. *Current Opinion in Anesthesiology* (2012) 25: 59 (Impact Factor 2.469)
 88. Shander A., Van Aken H., Colomina M.J., Gombotz H., Hofmann A., Krauspe R., Lasocki S., Richards T., Slappendel R., Spahn D.R. Patient Blood Management in Europe. *British Journal of Anaesthesia* (2012) 109: 55-68 (Impact Factor 4.243)
 89. Theusinger O.M., Madjdpour C., Spahn D.R. Resuscitation and transfusion management in trauma patients: emerging concepts. *Current Opinion in Critical Care* (2012) 18: 661 – 670 (Impact Factor 2.514)
 90. Zentai C., Grottke O., Spahn D.R., Rossaint R. Nonsurgical techniques to control massive bleeding. *Anesthesiology Clinics* (2013) 31: 41 – 53
 91. Spahn D.R. Severe bleeding in surgical and trauma patients: the role of fibrinogen replacement therapy. *Thromb. Res.* (2012) 130 Suppl. 2: S15 - S19 (Impact factor 2.440)
 92. Spahn D.R., Shander A., Hofmann A., The Chiasm: Transfusion practise versus patient blood management. *Best Practise & Research Clinical Anaesthesiology* (2013) 27: 37-42
 93. Spahn D.R., Bouillon B., Cerny V., Coats T.J., Duranteau J., Fernandez-Mondejar E., Filipescu D., Hunt B., Komandina R., Nardi G., Neugebauer E., Ozier Y., Riddez L., Schultz A., Vincent J.L., Rossaint R., Management of bleeding and coagulopathy following major trauma: an updated European guideline. *Critical Care* (2013) 17:R76 (Impact Factor 4.61)
 94. Spahn D.R., Goodnough L., Alternatives to blood transfusion, *Blood Transfusion 2, Lancet* (2013) 381:1855-1865 (Impact Factor 38.278)
 95. Hayoz D., Kohler H-P., Spahn D.R., Prävention der venösen Thromboembolie in Medizin und Chirurgie. *Schweiz Med Forum* (2013) 13: 619-620
 96. Spahn D.R., From plasma transfusion to individualized, goal-directed coagulation factor administration. *Journal of Cardiothorac and Vascular Anesthesia* (2013) 27: S16 (Impact Factor 1.448)
 97. Theusinger O., Stein P., Spahn D.R., Applying 'Patient Blood Management' in the trauma center. *Current Opinion in Anesthesiology* (2014) 27: 225-232 (Impact Factor 2.400)
 98. Theusinger O.M., Stein P., Spahn D.R., Transfusion strategy in multiple trauma patients. *Current Opinion Critical Care* (2014) 20: 645-655 (Impact Factor 3.183)
 99. Spahn D.R., Spahn G.H., Stein Ph., Evidence Base for Restrictive Transfusion Triggers in High-Risk Patients. *Transfusion Medicine and Hemotherapy* (2015) 42: 110-114 (Impact factor 2.011)

100. Kolbe M., Grande B., Spahn D.R., Briefing and debriefing during simulation-based training and beyond: Content, structure, attitude and setting. *Best Practice & Research Clinical Anaesthesiology* (2015) 29 (1): 87-96
101. Spahn DR, Spahn GH, Stein P., Indications and Risks of Fibrinogen in Surgery and Trauma. *Seminars in Thrombosis and Hemostasis* (2016) 42(2): 147-154 (Impact Factor 3.876)
102. Sulser S., Ubmann D., Brueesch M., Goliasch G., Seifert B., Spahn D.R., Ruetzler K., The C-MAC videolaryngoscope compared with conventional laryngoscopy for rapid sequence intubation at the emergency department: study protocol. *Scandinavian Journal of trauma, resuscitation & emergency medicine* (2015) 23(1): 38-42 (Impact Factor 2.025)
103. Costa-Filho R, Hochleitner G, Wendt M, Teruya A, Spahn DR., Over 50 Years of Fibrinogen Concentrate. *Clinical and Applied Thrombosis Hemostasis* (2016) 22(2):109-14 (Impact Factor 2.392)
104. Rossaint, R., Bouillon, B., Cerny, V., Coats, T.J., Duranteau, J., Fernandez-Mondejar, E., Filipescu, D., Hunt, B.J., Komadina, R., Nardi, G., Neugebauer, E.A., Ozier, Y., Riddez, L., Schultz, A., Vincent, J.L., Spahn, D.R., The European guideline on management of major bleeding and coagulopathy following trauma: fourth edition. *Critical Care* (2016) 20(1): 100 (Impact Factor 4.476)
105. Theusinger O.M., Spahn D.R., Perioperative blood conservation strategies for major spine surgery. *Best Practice & Research Clinical Anaesthesiology* (2016) 30(1): 41-52.
106. Meybohm P., Richards T., Isbister J., Hofmann A., Shander A., Goodnough, L.T., Munoz M., Gombotz H., Weber C.F., Choorapoikayil S., Spahn D.R., Zacharowski K., Patient Blood Management Bundles to Facilitate Implementation. *Transfusion Medicine Reviews* (2017) 31(1):62-71 (Impact Factor 3.878)
107. Solomon C., Asmis L.M., Spahn, D.R., Is viscoelastic coagulation monitoring with ROTEM or TEG validated? *Scandinavian Journal of Clinical and Laboratory Investigation* (2016) 76(6): 503-507 (Impact Factor 1.471)
108. Zacharowski K., Spahn, D.R. Patient blood management equals patient safety. *Best Practice & Research Clinical Anaesthesiology* (2016) 30(2):159-69
109. Munoz M., Acheson A.G., Auerbach M., Besser M., Habler O., Kehlet H., Liembruno G.M., Lasocki S., Meybohm P., Rao Baikady R., Richards T., Shander A., So-Osman C., Spahn D.R., Klein A.A. International consensus statement on the peri-operative management of anaemia and iron deficiency. *Anaesthesia* (2017) 72 (2): 233-247 (Impact Factor 3.794)
110. Stein P., Kaserer A., Spahn G. H., Spahn D.R., Point-of-Care Coagulation Monitoring in Trauma Patients. *Seminars in Thrombosis and Hemostasis* (2017) 43(4): 367-374 (Impact Factor 3.505)
111. Zimmerman R., Tsai A.G., Salazar Vazquez B.Y., Cabrales P., Hofmann A., Meier J., Shander A., Spahn, D.R., Friedman J.M., Tartakovsky D.M., Intaglietta M. Posttransfusion Increase of Hematocrit per se Does Not Improve Circulatory Oxygen Delivery due to Increased Blood Viscosity. *Anesthesia and Analgesia* (2017) 124(5):1547-1554 (Impact Factor 3.827)
112. Meybohm P., Froessler B., Goodnough L.T., Klein A.A., Munoz M., Murphy M.F., Richards T., Shander A., Spahn D.R., Zacharowski K., Simplified International Recommendations for the Implementation of Patient Blood Management (SIR4PBM). *Perioperative Medicine (London)* (2017) 6:5
113. Cappellini M.D., Comin-Colet J., de Francisco A., Dignass A., Doehner W., Lam C., Macdougall I., Rogler G., Camaschella C., Kadir R., Kassebaum N., Spahn DR., Taher A., Musallam K., Iron deficiency across chronic inflammatory conditions: International expert opinion on definition, diagnosis and management. *American Journal of Hematology* (2017) 92(10):1068-1078 (Impact Factor 5.275)

114. Meybohm P., Muellenbach R. M., Keller H., Fichtlscherer S., Papadopoulos N., Spahn D.R., Greinacher A., Zacharowski K., Patient Blood Management in cardiac surgery. *Z Herz Thorax Gefäßschir* (2017) 31:247-265
115. Fries D., Innenhofer P., Spahn D.R., Transfusion Approaches and Mortality in Trauma Patients: A Narrative Review. *Semin Thromb Hemost.* (2017) 43(7):759-771 (Impact Factor 3.629)
116. Spahn D.R., Keipert PE., An Overview of Two Human Trials of Perfluoro in Non-Cardiac Surgery. *Shock* (2019) 52 (1S Suppl 1):116-118 (Impact Factor 3.113)
117. Levy J.H., Rossaint R., Zacharowski K., Spahn D.R., What is the evidence for platelet transfusion in perioperative settings? *Vox Sang* (2017) 112(8):704-712 (Impact Factor 2.192)
118. Kaserer A., Stein P., Spahn G.H., Spahn D.R., Patient Blood Management: der Standard heute. *Therapeutische Umschau* (2017) 74(7):369-376
119. Spahn D.R., Kaserer A., Spahn G.H., Stein P., "Patient Blood Management" ist heute Standard. *Swiss Medical Forum* (2017) 17(5152):1145-1147
120. Munoz M., Acheson A.G., Bisbe E., Butcher A., Gómez-Ramírez S., Khalafallah A. A., Kehlet H., Kietai S., Liunbruno G.M., Meybohm P., Rao Baikady R., Shander A., So-Osman C., Spahn D.R. Klein A.A., An international consensus statement on the management of postoperative anaemia after major surgical procedures. *Anaesthesia* (2018) 73(11):1418-1431 (Impact Factor 5.431)
121. Lam C.S.P., Doehner W., Comin-Colet J., IRON CORE Group., Iron deficiency in chronic heart failure: case-based practical guidance. *ESC Heart Failure* (2018) 5(5):764-771 (Impact Factor 1.14)
122. Gómez-Ramírez S., Shander A., Spahn D.R., Auerbach M., Liunbruno GM., Vaglio S., Muñoz M., Prevention and management of acute reactions to intravenous iron in surgical patients. *Blood Transfusion* (2018) 17(2):137-145 (Impact Factor 2.138)
123. Spahn D.R., Bouillon B., Cerny V., Duranteau J., Filipescu D., Hunt B.J., Komadina R., Maegele M., Nardi G., Riddez L., Samama Ch.-M., Vincent J.-L., Rossaint R., The European guideline on management of major bleeding and coagulopathy following trauma: fifth edition. *Critical Care* (2019) 23(1):98 (Impact Factor 6.425)
124. Gómez-Ramírez S., Bisbe E., Shander A., Spahn D.R., Muñoz M., Management of Perioperative Iron Deficiency Anemia. *Acta Haematologica* (2019) 142(1):21-29 (Impact Factor 1.307)
125. Abdullah H.R., Ang A.L., Froessler B., Hofmann A., Jang JH., Kim Y.W., Lasocki S., Lee J.J., Lee S.Y., Lim K.K.C., Singh G., Spahn D.R. Um T.H., Asia-Pacific PBM expert Consensus Meeting Working Group, Getting patient blood management Pillar 1 right in the Asia-Pacific: a call for action. *Singapore Medical Journal* (2020) 61(6):287-296 (Impact Factor 1.081)
126. Fenger-Eriksen C., Fries D., David J.S., Bouzat P., Lance M.D., Grottke O., Spahn D.R., Schoechl H., Maegele M., Pre-hospital plasma transfusion: a valuable coagulation support or an expensive fluid therapy? *Critical Care* (2019) 23(1):238 (Impact Factor 6.959)
127. Meybohm P., Westphal S., Ravn H.B., Ranucci M., Agarwal S., Choorapoikayil S., Spahn D.R., Ahmed A.B., Froessler B., Zacharowski K., Perioperative Anemia Management as Part of PBM in Cardiac Surgery – A Narrative Updated Review. *Journal of Cardiothoracic and Vascular Anesthesia* (2020) 34(4):1060-1073 (Impact Factor 1.882)
128. Spahn D.R., Beer J.H., Borgeat A., Cahssot P.G., Kern C., Mach F., Nedeltchev K., Korte W., NOACs in Anesthesiology. *Transfusion Medicine and Hemotherapy* (2019) 46 (4):282-293 (Impact Factor 3.00)
129. Shander A., Zacharowski K., Spahn D.R., Red cell use in trauma. *Current Opinion in Anesthesiology* (2020) 33(2):220-226 (Impact Factor 2.102)

130. Spahn D.R., Muñoz M., Klein A.A., Levy J.H., Zacharowski K., Patient Blood Management: Effectiveness and Future Potential. *Anesthesiology* (2020) 133(1):212-222 (Impact Factor 6.424)
131. Boehler Q., Gage D., Hofmann P.H., Gehring A., Chautems C., Spahn D.R., Biro P., Nelson B., REALITI: a Robotic Endoscope Automated via Laryngeal Imaging for Tracheal Intubation. *IEEE Transactions on Medical Robotics and Bionics* (2020) (kein Impact Factor)
132. Shander A., Goobie S.M., Warne M.A., Aapro M., Bisbe E., Perez-Calatayud A.A., Callum J., Cushing M.M., Dyer W.B., Erhard J., Faraoni D., Farmer S., Fedorova T., Frank SM, Froessler B, Gombotz H, Gross I, Guinn NR, Haas T2, Hamdorf J, Isbister JP, Javidroozi M, Ji H, Kim YW, Kor DJ, Kurz J, Lasocki S, Leahy MF, Lee CK, Lee JJ, Louw V, Meier J, Mezzacasa A, Munoz M, Ozawa S, Pavesi M, Shander N, Spahn DR, Spiess BD, Thomson J, Trentino K, Zenger C, Hofmann A, International Foundation of Patient Blood Management (IFPBM) and Society for the Advancement of Blood Management (SABM) Work Group. The Essential Role of Patient Blood Management in a Pandemic: A Call for Action. *Anesthesia & Analgesia* (2020) 131(1):74-85 (Impact Factor 3.489)
133. Macdougall I.C., Comin-Colet J., Breyman C., Spahn D.R., Koutroubakis I.E., Iron Sucrose: A Wealth of Experience in Treating Iron Deficiency. *Advances in Therapy* (2020) 37(5):1960-2002 (Impact Factor 3.260)
134. Baron D.M., Franchini M., Goobie S.M., Javidroozi M., Klein A.A., Lasocki S., Liembruno G.M., Muñoz M., Shander A., Spahn D.R., Zacharowski K., Meybohm P., Patient blood management during the COVID-19 pandemic – a narrative review. *Anaesthesia* (2020) 75(8):1105-1113 (Impact Factor 5.879)
135. Tscholl D.W., Rössler J., Said S., Kaserer A., Spahn D.R., Nöthiger C.B., Situation Awareness-Oriented Patient Monitoring with Visual Patient Technology: A Qualitative Review of the Primary Research. *Sensors* (2020) 9:20(7) pii: E2112 (Impact Factor 3.031)
136. Sahli S.D., Rössler J., Tscholl D.W., Studt JD., Spahn D.R., Kaserer A., Point-of-Care Diagnostics in Coagulation Management. *Sensors* (2020) 20(15):E4254 (Impact Factor 3.275)
137. Gunaydin S., Spahn D.R., Ozisik K., Demir A., Askin G., Sert D. E., Bozkurt H., Sampiyon A., Kazanci D., Kiliçli A. B., Kucuker S. A., Kervan U., Ozatik M. A., Building a patient blood management program in a large-volume tertiary hospital setting: Problems and solutions. *Turkish Journal of Thoracic and Cardiovascular Surgeri* (2020) 28(3):560-569 (Impact Factor 0.190)
138. Hofmann A., Spahn D.R., Holtorf A.-P., PBM Implementation Group, Making patient blood management the new norm(al) as experienced by implementors in diverse countries. *BMC Health Services Research* (2021) 21(1):634 (Impact Factor 2.655)
139. Akbas S, Castellucci C, Nehls F, Müller SM, Spahn DR, Kaserer A., Präklinische Schmerztherapie: Übersicht und Verbesserungsmöglichkeiten. *Praxis* (2022) 111(3):157-162 (no Impact Factor)

4.6 Editorials (total 40)

1. Leone B.J., Spahn D.R., Anemia, hemodilution and oxygen delivery. *Anesthesia and Analgesia* (1992) 75: 651-653. (Impact Factor 2.346).
2. Spahn D.R., Blood substitutes. *Critical Care* (1999) 3: R91-R92. (Impact Factor 0.701).
3. Spahn D.R., Anaesthesia outside the operating room. *Current Opinion in Anaesthesiology* (2000) 13: 407.
4. Spahn D.R., Gilliard N., Gardaz J.-P., Messung der Anästhesietiefe: Traum oder Notwendigkeit? *Anaesthesist* (2001) 50: 229-230 (Impact Factor 0.977).
5. Spahn D.R., Priebe H.-J., Preoperative hypertension: remain wary: yes – cancel surgery: no. *British Journal of Anaesthesia* (2004) 92: 461–464 (Impact Factor 2.365).

6. Spahn D.R., Marcucci C., Blood management in intensive care medicine: CRIT and ABC - what can we learn? *Critical Care* (2004) 8: 89-90 (Impact Factor 0.876).
7. Spahn D.R., Tucci M.A., Makris M., Is recombinant FVIIa the magic bullet in the treatment of major bleeding? *British Journal of Anaesthesia* (2005) 94: 553-555 (Impact Factor 2.365).
8. Spahn D.R., Hypocalcemia in trauma: Frequent but frequently underestimated and undertreated. *Critical Care Medicine* (2005) 33:2124-2125 (Impact Factor 4.195).
9. Spahn D.R., Tucci M.A., Makris M., Is recombinant FVIIa the magic bullet in the treatment of major bleeding? *British Journal of Anaesthesia, South African Excerpts Edition* (2005) 5: 170-172.
10. Spahn D.R., Chassot P.-G., Fluid restriction for cardiac patients during major non-cardiac surgery should be replaced by goal-directed intravascular fluid administration. *Anesthesia and Analgesia* (2006) 102: 344-346 (Impact Factor 2.210).
11. Spahn D.R., Madjdpour C., Physiologic transfusion triggers: do we have to use (our) brain? *Anesthesiology* (2006) 104: 905-906 (Impact Factor 4.055).
12. Spahn D.R., Howell S.J., Delabays A., Chassot P.-G., Coronary stents and perioperative anti-platelet regimen: Dilemma between bleeding and stent thrombosis. *British Journal of Anaesthesia* (2006) 96: 675-677 (Impact Factor 2.365).
13. Clergue F., Spahn D.R., Ravussin P., La transfusion: un témoin de la qualité des soins en anesthésie? *Revue Médicale Suisse* (2006) 2: 2651-2652.
14. Spahn D.R., Howell S.J., Delabays A., Chassot P.-G., Coronary stents and perioperative anti-platelet regimen: Dilemma between bleeding and stent thrombosis. *British Journal of Anaesthesia (Indian Excerpts Edition)* (2006) 3: 132-134.
15. Spahn D.R. Blood transfusions in 2007: Risks, alternatives and indications. *Best Practice & Research Clinical Anaesthesiology* (2007.) 21:161
16. Spahn D.R., Chassot P.-G., Zaugg M., Pragmatic Treatment versus Elaborative but Incomplete Testing. A Hobson's Choice? *Anesthesiology* (2007.) 107: 526-529 (Impact Factor 4.207)
17. Spahn D.R., Moch H., Hofmann A., Isbister J.P., Patient Blood Management – The Pragmatic Solution for the problem with Blood Transfusions. *Anesthesiology* (2008.) 109: 951-953 (Impact Factor 4.596)
18. Spahn D.R., Asmis L.M., Excessive perioperative bleeding: are fibrin monomers and factor XIII the missing link? *Anesthesiology* (2009) 110: 212-213 (Impact Factor 5.354)
19. Spahn D.R., Ganter M.T., Towards early individual goal-directed coagulation management in trauma patients. *British Journal of Anaesthesia* (2010) 105: 103-105 (Impact Factor 3.827)
20. Ganter M.T., Spahn D.R., Active, personalized and balanced coagulation management saves lives in patients with massive bleeding. *Anesthesiology* (2010) 113: 1016-1018 (Impact Factor 5.354)
21. Van Veen J.J., Spahn D.R., Makris M., Routine preoperative coagulation tests: an outdated practice? *British Journal of Anaesthesia* (2011) 106: 1-3 (Impact Factor 3.827)
22. Spahn D.R., Shander A., Hofmann A., Berman M.F., More on Transfusion and Adverse Outcome. It's Time to Change. *Anesthesiology* (2011) 114: 234-236 (Impact Factor 5.354)
23. Spahn D.R., Korte W., Novel Oral Anticoagulants. New Challenges for Anesthesiologists in Bleeding Patients. *Anesthesiology* (2012) 116: 9-10 (Impact Factor 5.354)
24. Spahn D.R., Theusinger O.M., Hofmann A., Patient blood management is a win-win: a wake-up call. *British Journal of Anaesthesia* (2012) 108: 889-892 (Impact Factor 4.224)

25. Spahn D.R., Vamvakas E.C., Is best transfusion practice alone best clinical practice? *Blood Transfusion* (2013) 11: 172-174 (Impact Factor 2.099)
26. Rossaint R., Bouillon B., Cerny V., Coats T.J., Duranteau J., Fernandez-Mondéjar E., Filipescu D., Hunt B.J., Komandina R., Maegele M., Nardi G., Neugebauer E., Ozier Y., Riddez L., Schultz A., Vincent J.-L., Spahn D.R., The STOP the Bleeding Campaign. *Critical Care* (2013) 17: 136 (Impact Factor 4.61)
27. Spahn D.R., Rossaint R. All we ever wanted to know about perioperative bleeding. *EJA* (2013) 30: 267-269 (Impact Factor 2.231)
28. Kozek-Langenecker S., Fries D., Spahn D. R. and Zacharowski K. Fibrinogen concentrate: clinical reality and cautious Cochrane recommendation. *British Journal of Anaesthesia* (2014) 112 (5): 784–787 (Impact Factor 4.237)
29. Spahn D.R., TEG®- or ROTEM®-based individualized goal-directed coagulation algorithms: don't wait – act now! *Critical Care* (2014) 18:637 (Impact Factor 5.035)
30. Schlenke P., Spahn D.R., Patient Blood Management: It is Time to Streamline Targeted Therapy Options. *Transfusion Medicine and Hemotherapy* (2015) 42 (2): 72-78 (Impact Factor 2.011)
31. Spahn D.R., Zacharowski K. Non-treatment of preoperative anaemia is substandard clinical practice. *British Journal of Anaesthesia* (2015) 115(1): 1-3 (Impact Factor 4.853)
32. Spahn D.R., Patient Blood Management: Success and Potential in the Future. *Annals of Surgery* (2016) 264(2): 212-213 (Impact Factor 8.327)
33. Paydar S., Sabetian G., Khalili H., Abbasi H.R., Bolandparvaz S., Ghahramani Z., Dalfardi B., Spahn D.R., Shiraz Trauma Transfusion Score: A Scoring System for Blood Transfusion in Trauma Patients. *Bull Emerg Trauma* (2016) 4(3):121-3.
34. Spahn D.R., Patient Blood Management: the new standard. *Transfusion* (2017) 57 (6):1325-1327 (Impact Factor 3.042)
35. Spahn D.R., Artificial oxygen carriers: a new future? *Crit Care* (2018) 22 (1):46 (Impact Factor 5.358)
36. Smith K., Spahn D.R., Rapidly getting resuscitation skills to the patient with out-of-hospital cardiac arrest. *Eur Heart J.* (2018) 39(13):1048-1050 (Impact Factor 20.212)
37. Shander A., Muñoz M., Spahn D.R., Intravenous iron for severe iron deficiency anaemia. *British Journal of Anaesthesia* (2018) 121(2):342-344 (Impact Factor 6.499)
38. Spahn D.R., Patient Blood Management: What Else? *Annals of Surgery* (2019) 269(5):805-807 (Impact Factor 9.203)
39. Spahn D.R., Kaserer A., Studt J.D., Coagulation management following trauma in presence of direct oral anticoagulants. *Anesthesiology* (2021) 135(4): 570-572 (Impact Factor 7.892)
40. Spahn D. R., Kaserer A., Intravenous iron for all in cardiac surgery?: *Annals of Surgery* (2022) 275(2): 240-241 (Impact Factor 12.969)

4.7 Case Reports (total 19)

1. Spahn D.R., Schmid S., Carrel T., Pasch T, Schmid E.R., Hypopharynx-perforation by transesophageal echocardiography probe. *Anesthesiology* (1995) 82: 581-583. Impact Factor 4.900)
2. Zollinger A., Hager P., Singer T., Friedl H.P., Pasch T., Spahn D.R., Extreme hemodilution due to massive blood loss in tumor surgery. *Anesthesiology* (1997) 87: 985-987. (Impact Factor 4.900)

3. Künzli A., von Segesser L.K., Vogt P.R., Spahn D.R., Schneider J., Jenni R., Turina M., Inflammatory aneurism of the ascending aorta. *Annals of Thoracic Surgery* (1998) 65: 1132-1133. (Impact Factor 1.861)
4. Neff T.A., Stocker R., Wight E., Spahn D.R., Extreme intraoperative blood loss and hemodilution in a Jehovah's witness: New aspects in postoperative management. *Anesthesiology* (1999) 91: 1949-1951. (Impact Factor 4.625)
5. Weiss B.M., Maggiorini M., Jenni R., Lauper U., Popovic V., Bombeli T., Spahn D.R., Pregnant patient with primary pulmonary hypertension: Inhaled pulmonary vasodilators and epidural anesthesia for Cesarean section. *Anesthesiology* (2000) 92: 1191-1194. (Impact Factor 4.625)
6. Biro P., Hegi T.R., Weder W., Spahn D.R., Laryngeal mask airway and high frequency jet ventilation for the resection of a high grade upper trachea stenosis. *Journal of Clinical Anesthesia* (2001) 13: 141-143 (Impact Factor 0.841).
7. Zalunardo M.P., Bimmler D., Grob U.C., Stocker R., Pasch T., Spahn D.R., Late oesophageal perforation after intraoperative transoesophageal echocardiography. *British Journal of Anaesthesia* (2002) 88: 595-597 (Impact Factor 2.205).
8. Marcucci C, Chassot P.-G., Gardaz J.-P., Magnusson L., Ris H.-B., Delabays A., Spahn D.R. Fatal myocardial infarction after lung resection in a patient with prophylactic preoperative coronary stenting. *British Journal of Anaesthesia* (2004) 92: 743-747.
9. Kocian R., Spahn D.R., Bronchial Aspiration in Patients After Weight Loss Due to Gastric Banding. *Anesthesia and Analgesia* (2005) 100: 1856-1857. (Impact Factor 2.210).
10. Perruchoud C., Blanc C., Ruchat P., Chassot P.-G., Brenn S., Spahn D.R., Echocardiography is crucial for the diagnostic, management and treatment of massive pulmonary embolism. *Anesthesia and Analgesia* (2006) 103: 38-39. (Impact Factor 2.452).
11. Theusinger O.M., Spahn D.R., Chaloupka K., Postoperative pain and vomiting after orbital wall surgery in trauma. *European Journal of Anaesthesiology* (2008.) 25: 689-700. (Impact Factor 1.435).
12. Biro P., Spahn D.R., Pfammatter T., High-frequency jet ventilation for minimizing breathing-related liver motion during percutaneous radiofrequency ablation of multiple hepatic tumours. *British Journal of Anaesthesia* (2009) 102: 650-653. (Impact Factor 3.827)
13. Brenni M., Worn M., Brüesch M., Spahn D.R., Ganter M.T., Successful rotational thromboelastometry-guided treatment of traumatic haemorrhage, hyperfibrinolysis and coagulopathy. *Acta Anaesthesiologica Scandinavica* (2010) 54: 111-117 (Impact Factor 2.260)
14. Marrel J., Christ D., Spahn D.R., Anaphylactic shock after sensitization to gelatin. *British Journal of Anaesthesia* (2011) 107: 647-648. (Impact Factor 4.243)
15. Rittirsch D., Bättegay E., Zimmerli L.U., Baulig W., Spahn D.R., Ossendorf C., Wanner G.A., Simmen H.-P., Werner C.M.L., Cement-augmented dorsal instrumentation of the spine as a safe adjunct to the multimodal management of metastatic pheochromocytoma: a case report. *Patient Safety in Surgery* (2012) 6: 1
16. Stein P., Bosshart M., Brand B., Schlicker A., Spahn D.R. and Bettex D., Dabigatran anticoagulation and Stanford type A aortic dissection: lethal coincidence. Case report with literature review. *Acta Anaesthesiol Scand* (2014) 58: 630–637 (Impact Factor 2.355)
17. Stein P., Albrecht R., Spahn D.R., Multiple trauma, resuscitation, and 15 minutes of esophageal intubation: survival without neurologic deficit. *Am J Emerg Med.* (2014) 32:950.e1-2 (Impact Factor 1.152)

18. Meyer S., Hartmann F., Stein Ph., Lenherr R., Fuchs J., Spahn D.R., Massive coagulopathy caused by the bite of a *Crotalus basiliscus* snake. *Anaesthesia Case* (2017) 5 (1):60-65
<https://onlinelibrary.wiley.com/doi/10.21466/ac.FCOABBC.2017>
19. Hegemann I., Ganter C., Widmer C.C., Becker M., Müller D., Spahn D.R., Ongoing redistribution of dabigatran necessitates repetitive application of idarucizumab. *British Journal of Anaesthesia* (2018) 121(2): 505-508 637 (Impact Factor 9.166)

4.8 Published Study Protokolls (total 1)

1. Buhre W., de Korte-de Boer D., de Abreu M.G., Scheeren T., Gruenewald M., Hoeft A., Spahn D.R., Zarbock A., Daamen S., Westphal M., Brauer U., Dehnhardt T., Schmier S., Baron J.F., De Hert S., Gavranović Ž., Cholley B., Vymazal T., Szczeklik W., Bornemann-Cimentini H., Soro Domingo M.B., Grintescu I., Jankovic R., Belda J., Prospective, randomized, controlled, double-blind, multi-center, multinational study on the safety and efficacy of 6% Hydroxyethyl starch (HES) sOlution versus an Electrolyte solutioN In patients undergoing eleCtive abdominal Surgery: study protocol for the PHOENICS study. *Trials*. (2022) 23(1):168 (Impact Factor 2.279)

4.9 Letters to the Editor (total 31)

1. Jakob M., Spahn D.R., Jenni R., Aortic dissection (letter). *New England Journal of Medicine* (1994) 331: 815. (Impact Factor 22.412).
2. Spahn D.R., Pasch T., Grundsätze ärztlicher Haftung für den Anästhesisten (letter). *Anaesthesist* (1997) 46: 627. (Impact Factor 0.594).
3. Zollinger A., Spahn D.R., Pasch T., Reply (letter). *British Journal of Anaesthesia* (1997) 79: 816-817. (Impact Factor 2.025).
4. Egli G., Zollinger A., Pasch T., Spahn D.R., Reply (letter). *British Journal of Anaesthesia* (1998) 80: 126. (Impact Factor 2.293).
5. Spahn D.R., The differential effects of prostaglandin E1 and nitroglycerin on regional cerebral oxygenation (letter). *Anesthesia and Analgesia* (1998) 86: 1338-1339. (Impact Factor 2.698).
6. Spahn D.R., Casutt M., Eliminating Blood Transfusions: What about Hypotensive Anesthesia? In Reply. *Anesthesiology* (2001) 94: 543. (Impact Factor 4.625).
7. Spahn D.R., Casutt M., Eliminating Blood Transfusions: What about Hypotensive Anesthesia? In Reply 2. *Anesthesiology* (2002) 96: 253. (Impact Factor 3.381).
8. Freymond D., Mustaki J.-P., Jaques B., Spahn D. R., Droperidol treated PONV and bilateral mandibular fracture after maxillofacial surgery. *Anesthesia and Analgesia* (2002) 95: 1465. (Impact Factor 2.279).
9. Neff T.A., Stocker R., Spahn D.R. In Response to: Haynes GR., Is hydroxyethyl starch safe in brain injury? *Anesthesia and Analgesia* (2004) 99: 620-622. (Impact Factor 2.210).
10. London M.J., Zaugg M., Schaub M.C., Spahn D.R., In reply: Perioperative Beta Blockade: Physiologic Foundation and Clinical Controversies. *Anesthesiology* (2004) 101:804-805 (Impact Factor 3.503).
11. Zaugg M., Schaub M.C., London M.J., Spahn D.R., In reply 2: Perioperative Beta Blockade: Physiologic Foundation and Clinical Controversies. *Anesthesiology* (2004) 101: 1245 (Impact Factor 3.503).
12. Neff T.A., Stocker R., Spahn D.R., A Comparison of Albumin and Saline for Fluid Resuscitation in the Intensive Care Unit. *New England Journal of Medicine* (2004) 351: 1905 (Impact Factor 34.833).

13. Marcucci C., Chassot P.-G., Spahn D.R., In reply: Fatal myocardial infarction after lung resection in a patient with prophylactic preoperative coronary stenting. *British Journal of Anaesthesia* (2005) 94: 689. (Impact Factor 2.425)
14. Theusinger O.M., Schanz U., Spahn D.R., In reply: Treatment of iron deficiency anemia in orthopedic surgery with intravenous iron: efficacy and limits – a prospective study. *Anesthesiology* (2008.) 109: 152 (Impact Factor 4.596).
15. Spahn D.R., Holger M., Hofmann A., Isbister J.P., In reply: Patient Blood Management and Transfusion. *Anesthesiology* (2009) 111: 444 (Impact Factor 5.354).
16. Marrel J., Christ D., Spahn D.R. Anaphylactic shock after sensitization to gelatine. *British Journal of Anaesthesia* (2011) 107: 647 (Impact Factor 4.224)
17. Kozek-Langenecker S., Sørensen B., Hess J., Spahn D.R., Emotional or evidence-based medicine: is there a moral tragedy in haemostatic therapy? *Critical Care* (2011) 15: 462 (Impact Factor 4.595)
18. Kolbe M, Grote G, Burtcher MJ, Wacker J, Manser T, Nohynkova R, Grande B, Spahn D.R., In response. *Anesthesia Analgesia* (2013) 116: 1184-1186 (Impact Factor 3.300)
19. Görlinger K., Kozek-Langenecker S.A., Spahn D.R., Outcome criteria such as massive transfusion are inadequate for matching and result in questionable conclusions. *Journal of Trauma and Acute Care Surgery* (2013) 75: 744-745 (Impact Factor 2.348)
20. Marx G., Rossaint R., Zacharowski K., Spahn D.R., Major Confounders May Influence Multivariate Analysis in a Single-Center Observational Study. *Critical Care Medicine* (2014) 42(5) e386 (Impact Factor 6.124)
21. Brookes M.J., Spahn D.R., Acheson A.G., Blood Transfusion and colorectal cancer outcome. *Annals of Surgery* (2015) 261: e80 (Impact Factor 7.188)
22. Spahn D.R., Zacharowski K. Mild anaemia indeed requires treatment. *Br J Anaesth* (2016) 116(5): 729-730 (Impact Factor 4.853)
http://bj.a.oxfordjournals.org/content/115/1/1/reply#brjana_el_12887?sid=b227c87a-aeaf-414c-bab8-c9b96db928b8
23. Spahn D.R., Reporting potential conflicts of interest. *Braz J Anesthesiol* (2016) 66(2): 222-223
24. Stein P., Spahn D.R., Bettex D., Answer to: Dabigatran anticoagulation and Stanford Type A aortic dissection: not a lethal coincidence. *Acta Anaesthesiol Scand* (2016) 60(4): 545 (Impact Factor 2.322)
25. Schadde E., Breitenstein S., Hertl M., Spahn D.R., Schlapfer M., Beck-Schimmer B., Reply to: Liver hypoxia as a trigger to liver regeneration: No more than another piece of the puzzle. *Surgery* (2017) 161(4): 1177-1178 (Impact Factor 3.309)
26. Ruetzler K., Sulser S., Ubmann D., Spahn D.R., Reply to: comparing C-MAC videolaryngoscope with direct laryngoscopy for emergency intubation. *Eur J Anesthesiol.* (2017) 34(11):786 (Impact Factor 3.570)
27. Hegemann I., Ganter C., Widmer C.C., Becker M., Müller D., Spahn D.R., Ongoing redistribution of dabigatran necessitates repetitive application of idarucizumab. *British Journal of Anaesthesia* (2018) 121 (2):505-508 (Impact Factor 6.499)
28. Rössler J. Kaserer A., Spahn G.H., Spahn D.R., Not all anemia is solely due to iron deficiency. *avat-Journal of Thoracic Disease* (2020) 12(3): 1130-1132 (Impact Factor 2.027)
29. Trentino K.M., Spahn D.R., Mace H.S., Gobotz H., Hofmann A., Is patient blood management cost-effective? Comment on *British Journal of Anaesthesia*. *British Journal of Anaesthesia* (2021) 126(1):e7-e9 (Impact Factor 9.166)

30. Hofmann A., Gross I., Girelli D., Aapro M., Spahn D.R., Iron deficiency in PREVENTT. *Lancet* (2021) 397(10275):668-669 (Impact Factor 79.323)
31. Judd L., Baron D.M., Bisbe E., Lasocki S., Metnitz P., Posch M., Raobaikady R., Reichmayr M., Spahn D.R., Stoppe C., Zacharowski K., Choorapoikayil S., Meybohm P., The impact of the SARS-CoV-2 pandemic on the ongoing prospective, international, multicentre observational study assessing the preoperative anaemia prevalence in surgical patients (ALICE-trial). *Transfusion Medicine* (2021) 31(5): 387-390. (Impact Factor 2.019)

Refresher Course Lectures

1. Reves J.G., Spahn D.R., Leone B.J., Slaughter T., What's new in cardiac anesthesia? *Anesthesia and Analgesia* (1993) Supplement, 46-48. (Impact Factor 2.346)

Special Articles

1. Body S.C., B. Ch., Collard Ch.D., Eisenach J.C., Hemmings H.C., Kersten J.R., Sessler D.I., Spahn D.R., Journal-related Activities and Other Special Activities at the 2010 American Society of Anesthesiologists Annual Meeting. *Anesthesiology* (2010) 113: 518 (Impact Factor 5.354)

4.10 Editorials to own Publications (total 32)

2. Tremper K.K., Perfluorochemical „Blood Substitutes“ Indication for an oxygen carrying colloid. *Anesthesiology* (1999) 91: 1185-1187 accompanying the article Spahn D.R., van Brecht R., Theilmeier G., Reibold J.P., Welte M., Heinzerling H., Birck K., Keipert P.E., Messmer K. and The European Perflubron Emulsion Study Group. *Anesthesiology* (1999) 91: 1195-1208 „Perflubron emulsion delays blood transfusion in orthopedic surgery“. (Impact Factor 4.625)
3. Whitten C.W., Greilich P.E. Thrombelastography: Past, present and future. *Anesthesiology* (2000) 92: 1223-1225 accompanying the article Camenzind V., Bombeli T., Seifert B., Jamnicki M., Popovic D., Pasch T., Spahn D.R. *Anesthesiology* (2000) 92: 1242-1249 „Citrate storage affects Thrombelastograph® analysis“. (Impact Factor 4.625)
4. Parrillo J.E. Journal supplements, anemia management, and evidence-based critical care medicine. *Critical Care Medicine* (2001) (Supplement) 29: S139-S140 accompanying the article Casutt M., Seifert B., Pasch T., Schmid E. R., Turina M. I., Spahn D.R. *Critical Care Medicine* (2001) (Supplement) 29: S173-S179, initial publiziert (1999) 27: 2194-2200 "Factors influencing the individual effects of blood transfusions on oxygen transport and oxygen consumption". (Impact Factor 4.260)
5. Wartier D.C., Kersten J.R., Pagel P.S., Gross G.J. Anesthetic preconditioning: Serendipity and science. *Anesthesiology* (2002) 97: 1-3 accompanying the articles Zaugg M., Luccinetti E., Spahn D.R., Pasch T., Schaub M.C. Volatile anesthetics mimic cardiac preconditioning by priming the activation of mitochondrial K-ATP channels. *Anesthesiology* (2002) 97: 4-14 (Impact Factor 3.381) and Zaugg M., Luccinetti E., Spahn D.R., Pasch T., Garcia C., Schaub M.C. Differential effects of anesthetics on mitochondrial KATP channel activity and cardiomyocyte protection. *Anesthesiology* (2002) 97: 15 – 23 (Impact Factor 3.381).
6. Tremper K.K., Perfluorochemical "Red Blood Cell Substitutes": A Product Still Searching for an Indication *Anesthesiology* (2002) 97: 1333-1334 accompanying the article Spahn D.R., Waschke K.F., Standl T., Motsch J., van Huynegem J., Welte M., Gombotz H., Coriat P., Verkh L., Faithfull S., Keipert P. and the European Perflubron Emulsion in Non-Cardiac Surgery Study Group. Perflubron Emulsion Decreases Allogeneic Blood Transfusion in Major Non-cardiac Surgery: Results of a European Phase 3 Study. *Anesthesiology* (2002) 97: 1338-1349 (Impact Factor 3.381).

7. Lindahl S.G.E., Mure M. Dosing oxygen: a tricky matter or a piece of cake? *Anesthesia and Analgesia* (2002) 95: 1472 - 1473 accompanying the article Benoît Z., Wicky S., Fischer J.-F., Frascarolo P., Chapuis C., Spahn D.R., Magnusson L. Effect of increased FiO₂ before extubation on postoperative atelectasis. *Anesthesia and Analgesia* (2002) 95: 1777-1781 (Impact Factor 2.279).
8. Drummond G.B. New concepts in respiratory function. *British Journal of Anaesthesia* (2003) 91: 1 accompanying the article Magnusson L., Spahn D.R. New Concepts on atelectasis during general anaesthesia. *British Journal of Anaesthesia* (2003) 91: 61-72 (Impact Factor 2.098).
9. Kertai M.D., Bax J.J., Klein J., Poldermans D. Is there any reason to withhold β blockers from high-risk patients with coronary artery disease during surgery? *Anesthesiology* (2004) 100: 4-7 accompanying the article London M.J., Zaugg M., Schaub M.C., Spahn D.R. Perioperative Beta Blockade: Physiologic Foundation and Clinical Controversies. *Anesthesiology* (2004) 100: 170-175 (Impact Factor 3.470).
10. Kelleher A., Gothard J. Anaesthesia for off-pump coronary artery surgery *British Journal of Anaesthesia* (2004) 92: 324 - 325 accompanying the article Chassot P.-G., van der Linden P., Zaugg M., Mueller X.M., Spahn D.R. Physiologic and anaesthetic management for off-pump coronary artery bypass surgery. *British Journal of Anaesthesia* (2004) 92: 400-413 (Impact Factor 2.098).
11. Newby D.E., Nimmo A.F. Prevention of cardiac complications of noncardiac surgery: stenosis and thrombosis *British Journal of Anaesthesia* (2004) 92: 628-632 accompanying the article Marcucci C, Chassot P.-G., Gardaz J.-P., Magnusson L., Ris H.-B., Delabays A., Spahn D.R. Fatal myocardial infarction after lung resection in a patient with prophylactic preoperative coronary stenting. *British Journal of Anaesthesia* (2004) 92: 743-747.
12. Hunter J.M. The recovery period. *British Journal of Anaesthesia* (2005) 95: 1-2 accompanying the article Madjdpour C., Spahn D.R. Allogeneic blood transfusions: Efficacy, risks, alternatives and indications *British Journal of Anaesthesia* (2005) 95: 33-42.
13. Improving blood safety worldwide. *Lancet* (2007.) 370: 361 accompanying the article Klein H.G., Spahn D.R., Carson J.L. Red blood cell transfusion in clinical practice. *Lancet* (2007.) 370: 415-426. (Impact Factor 25.800).
14. Minei J.P. Evidence-based guidelines for bleeding in trauma patients: where do we go from here? *Critical Care* (2007.) 11: 1-2 accompanying the article Spahn D.R., Cerny V., Coats T.J., Duranteau J., Fernandez-Mondejar E., Gordini G., Stahel P.F., Hunt B.J., Komadina R., Neugebauer E., et al. Management of bleeding following major trauma: a European guideline. *Critical Care* (2007.) 11:R17. (Impact Factor 3.116)
15. Claus R.A., Sossdorf M., Hartog Ch. The Effects of Hydroxyethyl Starch on Cultured Renal Epithelial Cells. *Anesthesia & Analgesia* (2010) 110:300-301 accompanying the article Wittlinger M., Schläpfer M., De Conno E., Roth Z'Graggen B., Reyes L., Booy Ch., Schimmer R.C., Seifert B., Burmeister MA., Spahn D.R., Beck-Schimmer B. Effect of hydroxyethyl starches (HES 130/0.42 and HES 200/0.5) on activated renal tubular epithelial cells. *Anesthesia & Analgesia* (2010) 110: 531-40 (Impact factor: 3.083)
16. Custer B. The cost of blood: did you pay too much or did you get a good deal? *Transfusion* (2010) 50: 742-744 accompanying the article Shander A., Hofmann A., Ozawa S., Theusinger O.M., Gombotz H. Spahn D.R. Activity-Based Costs of Blood Transfusions in Surgical Patients at Four Hospitals. *Transfusion* (2010) 50: 753-765 (Impact Factor 2.982)
17. Riordan Jr W.P., Cotton B.A. All bleeding stops: how we can help... *Critical Care* (2010) 14: 146-147 accompanying the article Rossaint R., Bouillon B., Cerny V., Coats T.J., Duranteau J., Fernández-Mondéjar E., Stahel P.F., Hunt B.J., Komadina R., Nardi G., Neugebauer E., Ozier Y., Riddez L.,

- Schultz A., Vincent J.L., Spahn D.R. Management of bleeding following major trauma: an updated European guideline. *Critical Care* (2010)14: R52 (Impact Factor 4.931)
18. Jones J.St. Editorial Comment. *The Journal of Urology* (2010) 183: 2136 accompanying the article Eberli D., Chassot P.G., Sulser T., Samama Ch.M., Mantz J., Delabays A., Spahn D.R. Urological Surgery and Antiplatelet Drugs After Cardiac and Cerebrovascular Accidents. *The Journal of Urology* (2010) 183: 2128-2136 (Impact Factor 4.016)
 19. Kashuk J.L. Editorial Comment. *The Journal of Trauma* (2010) 69: 1408-1409 accompanying the article Leemann H., Lustenberger Th., Talving P., Kobayashi L., Bukur M., Brenni M., Brüesch M., Spahn D.R., Keel M.J.B. The Role of Rotation Thromboelastometry in Early Prediction of Massive Transfusion. *The Journal of Trauma* (2010) 69: 1403-1409 (Impact Factor 2.626)
 20. Vamvakas E.C. Editorial Comment. *Transfusion Medicine Reviews* (2011) 25: 81-88 accompanying the article Isbister J.P., Shander A., Spahn D.R., Erhard J., Farmer S.L., Hofmann A. Adverse Blood Transfusion Outcomes: Establishing Causation. *Transfusion Medicine Reviews* (2011) 25: 89-101 (Impact Factor 3.614)
 21. Gombotz H. Editorial Comment. *The Lancet* (2011) 378: 1362-1363 accompanying the article Musallam K.M., Tamim H.M., Richards T., Spahn D.R., Rosendaal F.R., Habbal A., Khreiss M., Dahdaleh F.S., Khavandi K., Sfeir P.M., Soweid A., Hoballah J.J., Taher A.T., Jamali F.R. Preoperative anaemia and postoperative outcomes in non-cardiac surgery: a retrospective cohort study. *The Lancet* (2011) 378: 1396-1407 (Impact Factor 33.633)
 22. Stanworth S.J. Editorial Comment. *Critical Care* (2011) 15: 1006-1007 accompanying the article Kozek-Langenecker S., Sorenson B., Hess J., Spahn D.R., Clinical effectiveness of fresh frozen plasma compared with fibrinogen concentrate: a systematic review. *Critical Care* (2011) 15: R239 (Impact Factor 4.595)
 23. Bracco D. Editorial Comment. *Critical Care* (2012) 16: 180 accompanying the article Steurer M., Steurer A.M., Baulig W., Piegeler T., Schläpfer M., Spahn D.R., Falk V., Dreessen P., Theusinger O.M., Schmid E.R., Schwartz D., Neff T.A., Beck-Schimmer B., Late pharmacologic conditioning with volatile anesthetics after cardiac surgery. *Critical Care* (2012) 16: R191 (Impact Factor 4.607)
 24. Editorial Comment. *Lancet* (2013) 381:1789 accompanying the article Spahn D.R., Goodnough L., Alternatives to blood transfusion, *Blood Transfusion* 2, *Lancet* (2013) 381:1855-1865 (Impact Factor 38.278)
 25. Lane-Fall M. B., Gutsche J. T. Editorial Comment. *Anesthesia & Analgesia* (2015) 121: 852-853 accompanying the article Tscholl D.W., Weiss M., Kolbe M., Staender S., Seifert B., Landert D., Grande B., Spahn D.R., Noethiger C.B. An Anesthesia Preinduction Checklist to Improve Information Exchange, Knowledge of Critical Information, Perception of Safety, and Possibly Perception of Teamwork in Anesthesia Teams. *Anesthesia and Analgesia* (2015) 121: 948-956 (Impact Factor 3.472)
 26. Smith A.F., Choi S.W. Editorial Comment. *Anaesthesia* (2017) 72:1299-1301 accompanying the article by Stein P., Kaserer A., Sprengel K., Wanner GA., Seifert G., Theusinger OM., Spahn D.R., Change of transfusion and treatment paradigm in major trauma patients *Anaesthesia* (2017) 72(11):1299-1301 (Impact Factor 4.741)
 27. Hare G.M.T., Mazer C.D. Editorial Comment. *The Lancet* (2019) 393(10187):2177-2178 accompanying the article by Spahn D.R., Schoenrath F., Spahn G.H., Seifert B., Stein Ph., Theusinger O.M., Kaserer A., Hegemann I., Hofmann A., Maisano F., Falk V., Effect of ultra-short-term treatment of patients with iron deficiency or anaemia undergoing cardiac surgery: a prospective randomised trial. *The Lancet* (2019) 393(10187):2201-2212 (Impact Factor 53.254)

28. Miles L.F., Story D.A. Editorial Comment. *British Journal of Anaesthesia* (2020) 124(1):1-3 accompanying the article by Rössler J., Schoenrath F., Seifert B., Kaserer A., Spahn G.H., Falk V., Spahn D.R., Iron deficiency is associated with higher mortality in patients undergoing cardiac surgery: a prospective study. *British Journal of Anaesthesia* (2020) 124(1):25-34 (Impact Factor 6.199)
29. Ahmand I., Arora A., El-Boghdadly K., Embracing the robotic revolution into anaesthetic practice. *Anaesthesia* (2020) 75(7):848-851 accompanying the article by Biro P., Hofmann P., Gage D., Boehler Q., Chautems C., Braun J., Spahn D.R., Nelson B.J., Automated tracheal intubation in an airway manikin using a robotic endoscope: a proof of concept study. *Anaesthesia* (2020) 75 (7):881-886
30. Ahmed A., Agarwas S., Teaching an old dog new tricks: three-dimensional visual spatialisation of viscoelastic testing and artificial intelligence. *Anaesthesia* (2020) 75(8):1006-1009 accompanying the article by Rössler J., Meybohm P., Spahn D.R., Zacharowski K., Braun J., Nöthiger C.B., Tscholl D.W., Improving decision making through presentation of viscoelastic tests as a 3D animated blood clot: the Visual Clot. *Anaesthesia* (2020) 75(8):1059-1069 (Impact Factor 5.879)
31. Choorapoikayil S., Zacharowski K., A nationwide Turkish movement to implement Patient Blood Management. *Blood Transfusion* (2020) 18(4):241-243 accompanying the article by Unal D., Senayli Y., Polat R., Spahn D.R., Toraman F., Alkis F., for the Turkish Society of Anaesthesiology and Reanimation Patient Blood Management Group and the Turkish National Perioperative Transfusion Study Investigators. Peri-operative blood transfusion in elective major surgery: incidence, indications and outcome - an observational multicentre study. *Blood Transfusion* (2020) 18(4):261-279 (Impact Factor 3.662)
32. Webster C.S., Weller J.M., Data visualisation and cognitive ergonomics in anaesthesia and healthcare. *British Journal of Anaesthesia* (2021) 126(5):913-915 accompanying the article by Roche T.R., Said S., Braun J., Maas E.J.C., Machado C., Grande B., Kolbe M., Spahn D.R., Nöthiger C.B., Tscholl D.W., Avatar-based patient monitoring in critical anaesthesia events: a randomised high-fidelity simulation study. *British Journal of Anaesthesia* (2021) 126(5):1046-1054 (Impact Factor 9.166)
33. Webster C.S., Sanderson P., Need for a new paradigm in the design of alarms for patient monitors and medical devices. *British Journal of Anaesthesia* accompanying the article by Roche T.R., Braun J., Ganter M.T., Meybohm P., Herrmann J., Zacharowski K., Raimann F.J., Piekarski F., Spahn D.R., Nöthiger C.B., Tscholl D.W., Said S., Voice alerting as a medical alarm modality holds untapped potential for next-generation patient monitoring - a randomised, international multi-centre trial. *British Journal of Anaesthesia* (2021) 127(5): 677-680 (Impact Factor 9.166)

Highlights / Commentary to our Publications (total 3)

1. Henkel G. *Anesthesiology* (2003) 99: 6A accompanying the article Suter M.R., Papa-loizos M., Berde C.B., Woolf C.F., Gilliard N., Spahn D.R., Isabelle Decosterd I. Development of neuropathic pain in the rat spared nerve injury model is not prevented by a peripheral nerve block. *Anesthesiology* (2003) 99: 1402 – 1407 (Impact Factor 3.381).
2. Thiemermann C. What's new in SHOCK, October 2006? *Shock* (2006) 26: 319 – 321 accompanying the article Rossaint R, Cerny V, Coats TJ, Duranteau J, Fernández-Mondéjar E, Gordini G, Stahel PF, Hunt BJ, Neugebauer E and Spahn DR (2006) Key issues in advanced bleeding care in trauma. *Shock* 26: 322-331.
3. Goodnough LT. Blood management: transfusion medicine comes of age, *The Lancet* (2013) 381:1791-1792 accompanying the article Spahn DR., Goodnough LT, Alternatives to blood transfusion. *The Lancet* (2013): 381: 1855-1865 (Impact Factor 38.278)

4.11 Books (total 18)

1. Weiterbildung für Anästhesisten 1998 Eds: Bardenheuer H.J., Forst H., Larsen R., Rossaint.R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-64711-2) (1999).
2. Weiterbildung für Anästhesisten 1999 Eds: Bardenheuer H.J., Forst H., Rossaint R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-66816-0) (2000).
3. Weiterbildung für Anästhesisten 2000 Eds: Bardenheuer H.J., Forst H., Rossaint R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-41277-8) (2001).
4. Weiterbildung für Anästhesisten 2001 Eds: Bardenheuer H.J., Forst H., Rossaint R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-43146-2) (2002).
5. Festschrift 50 Jahre SGAR Eds: Frei F., Pasch T., Spahn D.R. Hans Huber Verlag, Bern, Göttingen, Toronto, Seattle (ISBN 3-456-83903-0) (2002).
6. Weiterbildung für Anästhesisten 2002 Eds: Bardenheuer H.J., Forst H., Rossaint R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-00092-5) (2003).
7. Weiterbildung für Anästhesisten 2003 Eds: Bardenheuer H.J., Forst H., Rossaint R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-20375-3) (2004).
8. Weiterbildung für Anästhesisten 2004 Eds: Bardenheuer H.J., Forst H., Rossaint R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-24118-3) (2005)
9. Weiterbildung für Anästhesisten 2005 Eds: Bardenheuer H.J., Forst H., Rossaint R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-29617-4) (2006).
10. Weiterbildung für Anästhesisten 2006 Eds: Bardenheuer H.J., Forst H., Rossaint R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 978-3-540-47962-8) (2007.).
11. Heart Disease and the Surgical Patient Eds: Howell S.J., Spahn D.R., Pepper C.B. Marcel Dekker, New York (ISBN 0-8493-4091-8) (2007.).
12. Patient Blood Management Eds: Gombotz H., Zacharowski K., Spahn D.R., Georg Thieme Verlag, Stuttgart, New York (ISBN 978-3-13-170621-8) (2013)
13. Schweizer Expertenbericht zur Anwendung von Edoxaban in der täglichen Praxis: Steffel J., Alberio L., Asmis L.M., Baumgartner I., Beer H.J., Bonetti P.O., Gallino A., Lyer P., Mach F., Mazzolai L. Regoli F, Spahn D.R., Staub D., Stricker H., Tsakiris D.A., Wuillemin W.A., Korte W., EMH Schweizerischer Ärzteverlag, Muttentz (ISBN 978-3-03754-090-9) (2015)
14. Patient Blood Management Eds: Gombotz H., Zacharowski K., Spahn D.R., Georg Thieme Verlag, Stuttgart, New York (ISBN 978-3-13-200441-2) (2016)

15. Schweizer Expertenbericht zur Anwendung von Edoxaban in der täglichen Praxis: Steffel J, Arnold M., Asmis L., Beer H., Bonetti P.O., Gallino A., Korte W., Kuhne M., Mach F., Regoli F., Schindewolf M., Spahn D.R., Staub D., Stricker H., Sztajzel R., Tsakiris D., Windecker S., EMH Schweizerischer Ärzteverlag, Muttentz (ISBN 978-3-03754-100-5) (2017)
16. Patient Blood Management Eds: Gombotz H., Zacharowski K., Spahn D.R. Georg Thieme Verlag, Stuttgart, New York (ISBN 978-3-13-241077-0) (2018)
17. Schweizer Expertenbericht zu praktischen Anwendung von Edoxaban: Steffel J., Arnold M., Asmis L.M., Beer J.H., Bonetti P.O., Gallino A., Korte W., Kühne M., Mach F., Mazzolai L., Regoli F., Rickli H., Schindewolf M., Spahn D.R., Staub D., Stricker H., Sztajzel R., Tsakiris D., Wuillemin W.A., EMH Schweizerischer Ärzteverlag, Muttentz (ISBN 978-3-03754-119-7) (2019)
18. Schweizer Expertenbericht zur Praktischen Anwendung von Edoxaban (Lixiana®): Jan Steffel, Marcel Arnold, Lars M. Asmis, Piero O. Bonetti, Augusto Gallino, Wolfgang Korte, Michael Kühne, François Mach, Lucia Mazzolai, François Regoli, Hans Rickli, Marc Schindewolf, Donat R. Spahn, Daniel Staub, Hans Stricker, Dimitrios Tsakiris, Walter A. Wuillemin, EMH Schweizerischer Ärzteverlag, Muttentz (ISBN 978-03754-119-7) (2020)

4.12 Chapters (total 43)

1. Spahn D.R. Hämodilution: Möglichkeiten und Grenzen. In: Aktuelle Probleme der Chirurgie und Orthopädie, Eds. Ammann J. und. Morell A., Hans Huber Verlag, Bern (ISBN 3-456-82500-5) (1995) 45: 43-48.
2. Spahn D.R. Künstliches Blut. In: Aktuelle Probleme der Chirurgie und Orthopädie, Eds. Ammann J. und. Morell A., Hans Huber Verlag, Bern (ISBN 3-456-82500-5) (1995) 45: 119-124.
3. Spahn D.R., Jenni R. Transösophageale Echokardiographie. In: Monitoring in der Anästhesie und Intensivmedizin, Eds. List W.F., Metzler H., Pasch T, Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-57636-3) (1995) 185-203.
4. Spahn D.R., Zollinger A., Stöhr S., Schmid E.R., Pasch T. Hämodilutionstoleranz von älteren Patienten. In: Eigenbluttransfusion aus heutiger Sicht, Eds., Mempel W., Mempel M., Schwarzfischer G., Endres W. Sympomed, München (ISBN 3-927759-15-5) (1996) 5: 43-48.
5. Spahn D.R., Pasch T. Critical hematocrit. In: Yearbook of Intensive Care and Emergency Medicine, Ed. Vincent J.L., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-60552-5) (1996) 635-642.
6. Spahn D.R. Anemia - Chronic Disease. In: Essence of Anesthesia Practice, Eds. Roizen M.F., Fleisher L.A., W.B. Saunders Company, Philadelphia (ISBN 0-7216-5972-1) (1997) 17.
7. Spahn D.R. Critical hematocrit - hemodilution. In: Simposio Mostra Anestesia Rianimazione e Terapia Intensiva, Eds. Braschi A., Chiaranda M., Gattinoni L., Pesenti A., Raimondi F., Springer Verlag, Milano (ISBN 3-540-75054-1) (1997) 28-29.
8. Spahn D.R. Artificial oxygen carriers. In: Yearbook of Intensive Care and Emergency Medicine, Ed. Vincent J.L., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-63798-2) (1998) 218-225.
9. Spahn D.R., Indemini A.N.L. Limites de l'hémodilution normovolémique aiguë. Rôle de la transfusion autologue différée. In: Cardiopathies de l'adulte. Anesthésie en chirurgie non cardiaque, Eds. Estanove S., Lehot J.-J. Masson, Paris, Milan, Barcelone (ISBN 2-225-83219-6) (1998) 55-68.
10. Spahn D.R. The optimal and critical hemoglobin in health and acute illness. In: Update in Intensive Care and Emergency Medicine - Tissue Oxygenation in Acute Medicine, Eds. Sibbald W.J., Messmer

- K., Fink M.P. Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-64086-X) (1998) 263-275.
11. Spahn D.R. New therapeutic concepts using oxygen carriers. In: Volume replacement, Ed. Baron J. F., Treib J., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-64187-4) (1998) 121-133.
 12. Spahn D.R. Perioperative renal protection. In: Simposio Mostra Anestesia Rianimazione e Terapia Intensiva, Eds. Braschi A., Gattinoni L., Pesenti A., Raimondi F., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 88-470-0031-9) (1998) 50-51.
 13. Spahn D.R., Schanz U., Pasch T. Perioperative Transfusionskriterien. In: Weiterbildung für Anästhesisten 1999 Eds. Bardenheuer H.J., Forst H., Larsen R., Rossaint.R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-66816-0) (1999) 65-76.
 14. Spahn D.R. Artificial Oxygen Carriers: Perfluorocarbon Emulsions. In: Transfusion Medicine and Alternatives to Blood Transfusion, Eds. Shander A., Spence R. Baron J.-F., R&J Editions Médicales, Paris (ISBN 2-910052-12-5) (2000) 312-317.
 15. Spahn D.R. Current status of artificial oxygen carriers. In: Yearbook of Intensive Care and Emergency Medicine, Ed. Vincent J.L., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-66830-6) (2000) 507-518.
 16. Spahn D.R. Willmann P.F.X., Faithfull N.S. Augmented acute normovolemic hemodilution (A-ANH™). Yearbook of Intensive Care and Emergency Medicine, Ed. Vincent J.L., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-41407-x) (2001) 319-327.
 17. Pasch T., Spahn D.R. Kardiorespiratorisches Basismonitoring. In: ains – Intensivmedizin, Eds. Van Aken H., Reinhart K., Zimpfer M., Thieme Verlag, Stuttgart, New York (ISBN 3-13-114871-3) (2001) 228-236.
 18. Pasch T., Spahn D.R. Herz-Kreislauf-Funktion. In: ains – Anästhesie, Eds. Kochs E., Krier C., Buzello W., Adams H. A., Thieme Verlag, Stuttgart, New York (ISBN 3-13-114881-0) (2001) 480-488.
 19. Spahn D.R. Neue Möglichkeiten des Volumenersatzes: Fluorocarbone. In: Volumenersatztherapie, Ed. Boldt J., Thieme Verlag, Stuttgart, New York (ISBN 3-13-125081-X) (2001) 119-126.
 20. Spahn D.R. Anemia - Chronic Disease. In: Essence of Anesthesia Practice, Second Edition, Eds. Roizen M.F., Fleisher L.A., W.B. Saunders Company, Philadelphia (ISBN 0-7216-9267-2) (2002) 17.
 21. Spahn D.R., Kocian R. Transfusions sanguines: Efficacité, risques et alternatives. Festschrift 50 Jahre SGAR Eds: Frei F., Pasch T., Spahn D.R. Hans Huber Verlag, Bern, Göttingen, Toronto, Seattle (ISBN 3-456-83903-0) (2002) 107-118.
 22. Kocian R., Chollet-Rivier M., Spahn D.R. Anästhesie für endoskopische Eingriffe. In: Weiterbildung für Anästhesisten 2002 Eds. Bardenheuer H.J., Forst H., Larsen R., Rossaint.R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-00092-5) (2003) 21-38.
 23. Dettori N., Kocian R., Spahn D.R. Clinical use of artificial oxygen carriers. In: Yearbook of Intensive Care and Emergency Medicine, Ed. Vincent J.L., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-44382-7) (2003) 615-622.

24. Dettori N., Kocian R., Spahn D.R. Artificial oxygen carriers. In: Volume replacement. Ed. Boldt J., UNI-MED Verlag AG, Bremen (ISBN 3-89599-721-8) (2004) 49-55.
25. Spahn D.R., Kocian R. Properties and use of artificial oxygen carriers. In: Intravenous fluid therapy, Ed. Webb A.R., Aesculap Academia, Sheffield (2004) 63-68.
26. Dettori N., Spahn D.R. Pruritus and HES: Fact or fiction? In: Yearbook of Intensive Care and Emergency Medicine, Ed. Vincent J.L., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-20714-7) (2004) 722-728.
27. Heim C., Schoettker P., Spahn D.R. Glasgow Coma Score für den Patienten mit Schädel-Hirn Trauma. In: Weiterbildung für Anästhesisten 2004 Eds. Bardenheuer H.J., Forst H., Larsen R., Rossaint.R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-24118-3) (2005) 163-173.
28. Marcucci C., Madjdpour C, Spahn D.R. Pathophysiology, benefits and risks of red blood cell transfusion In: Yearbook of Intensive Care and Emergency Medicine, Ed. Vincent J.L., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-23476-4) (2005) 505-518.
29. Spahn D.R., Chassot P.G. Clinical trials in cardiac surgery In: Blood Substitutes, Ed. Robert M. Winslow. Academic Press, Elsevier, Amsterdam, Boston, Heidelberg, London, New York, Oxford, Paris, San Diego, San Francisco, Singapore, Sydney, Tokyo (ISBN-10: 0-12-759760-3) (2006) 163-168.
30. Madjdpour C., Marcucci C., Tissot J.-D., Spahn D.R. Perioperative Bluttransfusion – Nutzen, Risiken und Richtlinien. In: Weiterbildung für Anästhesisten 2005 Eds. Bardenheuer H.J., Forst H., Larsen R., Rossaint.R., Spahn D.R., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 10 3-540-29617-4) (2006) 1-15.
31. Rossaint R., Spahn D.R. Trauma: Bleeding Coagulopathy and blood component transfusion. In: Yearbook of Intensive Care and Emergency Medicine, Ed. Vincent J.L., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 3-540-30155-0) (2006) 255-264.
32. Haberer J.-P., Samama C.-M., Spahn D.R., Albrecht E. Hématologie et Anesthésie. In: Manuel pratique d'anesthésie. Eds. E. Albrecht, J.-P. Haberer, E. Buchser. Masson, Elsevier-Massons S.A.S., (ISBN 2-294-03373-6) (2006) 413 - 440
33. Chassot P.G., Spahn D.R. Preoperative assessment. In: Heart Disease and the Surgical Patient Eds: Howell S.J., Pepper C.B., Spahn D.R., New York (ISBN 0-8493-4091-8) (2007.) 87-115.
34. Chassot P.G., Marcucci C., Spahn D.R. Urgent or semiurgent surgery in patients with severe coronary artery disease. In: Heart Disease and the Surgical Patient Eds: Howell S.J., Pepper C.B., Spahn D.R., New York (ISBN 0-8493-4091-8) (2007.) 305-334.
35. Howell S.J, Pepper C.B., Spahn D.R. Conclusions and the future. In: Heart Disease and the Surgical Patient Eds: Howell S.J., Pepper C.B., Spahn D.R., New York (ISBN 0-8493-4091-8) (2007.) 371-377.
36. Pasch T., Spahn D.R. Kardiorespiratorisches Basismonitoring. In: ains – Intensivmedizin 2. Auflage, Eds. Van Aken H., Reinhart K., Zimpfer M., Welte T. Thieme Verlag, Stuttgart, New York (ISBN 3-13-114872-1) (2007.) 222-230.
37. Marcucci C., Chassot P.-G., Asmis L., Spahn D.R. Hematologic risk assessment. In: Perioperative Medicine: Managing for Outcome, Eds. Newman M.F., Fleisher L.A., Fink M.P. Academic Press, Elsevier, Amsterdam, Boston, Heidelberg, London, New York, Oxford, Paris, San Diego, San Francisco, Singapore, Sydney, Tokyo (ISBN 978-1-41602-456-9) (2007.).

38. Beck-Schimmer B., Spahn D.R., Neff T.A. Can we protect the lung from acute injury? In: Yearbook of Intensive Care and Emergency Medicine, Ed. Vincent J.L., Springer Verlag, Berlin, Heidelberg, New York, Barcelona, Budapest, Hong Kong, London, Milano, Paris, Singapore, Tokyo (ISBN 978-3-540-49432-4) (2007.) 381-387.
39. Kocian R., Theusinger O.M., Spahn D.R. Anästhesie für endoskopische Eingriffe. In: Anästhesiologie, Kompendium und Repetitorium zur Weiter- und Fortbildung, Eds. Eckart J., Jaeger K., Möllhoff T., ecomed Medizin, Verlagsgruppe Hüthig Jehle Rehm GmbH, (ISBN 978-3-609-71361-8) (2007.) Chapter 18, 1-24.
40. Spahn D.R., PBM und Outcome. In: Patient Blood Management, Eds. Gombotz H., Zacharowski K., Georg Thieme Verlag, (ISBN 978-3-13-170621-8) (2013) Chapter 6, 170-171
41. Theusinger O.M., Kind S. L., Spahn D.R. Patient Blood Management. In: Perioperative Hemostasis, Eds. Marcucci C.E., Schoettker P., Springer Verlag, (ISBN 978-3-642-55003-4) (2015) Chapter 13, 221-239
42. Spahn D.R. PBM and Outcome. In: Patient Blood Management. Eds. Gomotz H., Zacharowski K., Spahn D.R., Georg Thieme Verlag, (ISBN 978-3-13-200441-2) (2016) Chapter 8.1, 200-202
43. Studt J.D., Kaserer A., Spahn D.R. Diagnostic Procedures: Coagulation. In: Senior Trauma Patients Eds. Pape H.C., Kates S.L., Hierholzer C., Bischoff-Ferrari H.A. Springer, Cham, (ISBN 978-3-030-91482-0) (2022), 213-215

4.13 Congress Proceedings (total 9)

1. Spahn D.R. Perfluorochemicals used as artificial oxygen carriers. In: Proceedings of the European School of Transfusion Medicine ESTM residential course on "Transfusion Medicine in disaster and hospital emergencies", Eds. Thomas M. J. G., Rossi U. (1998) 51-56.
2. Spahn D.R. Crystalloids vs. colloids vs. gelatins. In: Proceedings of the European School of Transfusion Medicine ESTM residential course on "Transfusion Medicine in disaster and hospital emergencies", Eds. Thomas M. J. G., Rossi U. (1998) 67-70.
3. Spahn D.R. Management of hypovolaemic shock: Critical haematocrit. In: Proceedings of the FIGO Committee on Perinatal Health (CPH) on „Prevention and Management of Anaemia in Pregnancy and Postpartum Haemorrhage“, Eds. Huch A., Huch R., Breyman C. (1999) 145-162.
4. Perruchoud C., Schoettker P., Ribordy V., Spahn D.R., Fishman D. Cardioversion électrique des tachycardies instables en préhospitalier: quel souvenir gardent nos patients ? Journal Européen des Urgences (European Journal of Emergencies) (2004) 17: S99 – S102.
5. Thyges C., Kocian R., Spahn D.R. Current status of artificial O2 carriers. ESA Congress 2005, Refresher Course Lectures, p 189 - 196.
6. Madjdpour C., Spahn D.R. Update on red blood cell transfusion. ESA Congress 2005, Refresher Course Lectures, p 283 - 288.
7. Spahn D.R. Efficacy of red blood cell transfusions. TATM (2006) 7 (Supplement) 10-11.
8. Spahn D.R. Acute Normovolemic hemodilution in cardi thoracic surgery. TATM (2006) 7 (Supplement) 29-30.
9. Vincent J.-L., Rossaint R., Riou B., Ozier Y., Williams D.J., Zideman D., Spahn D.R., Abbreviated recommendations on the use of recombinant activated factor VII as an adjunctive treatment for massive bleeding – a European perspective. ESA Congress 2007, Refresher Course Lectures, p 53 – 59.

4.14 Selected Abstracts until 2011 (total 200)

1. Haldemann G., Jurkiewicz J., Zajic J., Spahn D.R. Etomidate in Anästhesie und Intensivmedizin. *Anaesthesist* (1983) 32 (Suppl.): 67.
2. Niederer P.F., Bush E.H., Spahn D.R., Schmid E.R., Lunkenheimer P.P. Propagation and damping of flow distribution in the bronchial tree in high-frequency ventilation. *Journal of the International Organization for Medical Physics* (1988) 33 (Suppl 1): 219.
3. Spahn D.R., Schmid E.R., Tornic M., Jenni R., Baetscher A. Continuous, noninvasive cardiac output monitoring by electrical bioimpedance and transesophageal continuouswave Doppler ultrasound. *Anesthesiology* (1988) 69: A236.
4. Bush E.H., Spahn D.R., Niederer P.F., Schmid E.R. Formation and mathematical modeling of resonant amplification during high-frequency oscillation (HFO). *Physiologist* (1988) 31: A170.
5. Spahn D.R., Schmid E.R., Baetscher A., Tornic M. Zuverlässigkeit nichtinvasiver Methoden zur Bestimmung des Herzminutenvolumens. *Schweizerische Medizinische Wochenschrift* (1989) 119: 379.
6. Spahn D.R., Leuthold R., Schmid E.R., Niederer P.F. Augmentation of gas transport during high-frequency oscillation (HFO) in dogs by removing the bias tube. *The European Respiratory Journal* (1989) 2 (Suppl. 5): 316s.
7. Spahn D.R., Bush E.H., Leuthold R., Schmid E.R., Niederer P.F. Resonant Amplification during high-frequency oscillation (HFO). *British Journal of Anaesthesia* (1989) 63: 112S.
8. Leuthold R., Spahn D.R., Niederer P.F., Schmid E.R. Gas transport during high-frequency oscillation - an invitro study. *Proceedings of the First World Congress of Biomechanics, Volume II, University of California, San Diego, CA 1990, p 310.*
9. Niederer P.F., Leuthold R., Spahn D.R., Schmid E.R. Influence of oscillator and lung characteristics on resonant amplification in high-frequency oscillation. *Proceedings of the First World Congress of Biomechanics, Volume II, University of California, San Diego, CA 1990, p 166.*
10. Spahn D.R., Schmid E.R., Tornic M. Impact of ejection time in suprasternal calibration upon accuracy of transesophageal Doppler cardiac output determination. *Anesthesiology* (1990) 73: A517.
11. Schmid E.R., Spahn D.R., Tornic M. Reliability of a new generation transesophageal Doppler device for cardiac output monitoring. *Anesthesiology* (1990) 73: A415.
12. Quill T.J., Spahn D.R., Lu J., Kern F.H., Greely W.J., McRae R.L., Reves J.G., Leone B.J. Validation of Xenon clearance as a measure of cerebral blood flow. *Anesthesiology* (1990) 73: A597.
13. Leone B.J., Spahn D.R., McRae R.L., Smith L.R. Effects of hemodilution and anesthesia on regional function of compromised myocardium. *Anesthesiology* (1990) 73: A596.
14. Spahn D.R., Leone B.J., McRae R.L., Smith L.R. Influence of anesthesia on pacing induced ischemia threshold. *Anesthesiology* (1990) 73: A595.
15. Spahn D.R., Leuthold R., Schmid E.R., Niederer P.F. Direct wash out - an essential gas transport mechanism during high-frequency oscillation. *Physiologist* (1990) 33: A124.
16. Spahn D.R., Smith L.R., McRae R.L., Leone B.J. Halothane dose response curves pre versus post cardio-pulmonary bypass in dogs. *Anesthesia and Analgesia* (1991) 72: S268.
17. Spahn D.R., Smith L.R., Menius A.J., McRae R.L., Veronee C.D., Leone B.J. Critical level of hemodilution in myocardium with compromised coronary blood flow: A study on regional function and retransfusion. *Anesthesiology* (1991) 75: A517.

18. Schwinn D.A., Leone B.J., Chesnut L.C., Spahn D.R., Page S.O., Liggett S.B. α -adrenergic receptor desensitization during cardiopulmonary bypass. *Anesthesiology* (1991) 75: A1119.
19. Spahn D.R., White W.D., Frasco P., Smith L.R., McRae R.L., Leone B.J. Is esmolol cardioprotective? Tolerance of pacing tachycardia in dogs with critical coronary stenosis. *Anesthesia and Analgesia* (1992) 74: S303.
20. Spahn D.R., Frasco P., Smith L.R., Hu, W., Bowens C., McRae R.L., Leone B.J. Cardiopulmonary bypass induces physiologic α adrenergic receptor desensitization. *Proceedings of the 14th Annual Meeting of the Society of Cardiovascular Anesthesiologists* (1992). p 178.
21. Spahn D.R., Smith L.R., Hu, W., Leone B.J. Mechanisms and functional significance of hemodilution induced new LV asynchronies in dogs with critical LAD stenosis. *Proceedings of the 14th Annual Meeting of the Society of Cardiovascular Anesthesiologists* (1992). p 165.
22. Spahn D.R., Hu, W., Smith L.R., Leone B.J. Mechanisms and functional significance of pacing induced new LV asynchronies in dogs with critical LAD stenosis. *Proceedings of the 14th Annual Meeting of the Society of Cardiovascular Anesthesiologists* (1992). p 207.
23. Bowens C., Spahn D.R., Smith L.R., Frasco P., McRae R.L., Hu W., Leone B.J. The hemodynamic effects of acute extended isovolemic hemodilution. *Proceedings of the 14th Annual Meeting of the Society of Cardiovascular Anesthesiologists* (1992), p 294.
24. Spahn D.R., Frasco P., Smith L.R., Bowens C., McRae R.L., Leone B.J. Cardiopulmonary bypass induces physiologic beta-adrenergic receptor desensitization: Indication for a differential right and left ventricular sensitivity. *Anesthesiology* (1992) 77: A660.
25. Spahn D.R., Smith L.R., Leone B.J. Hämodilutionstoleranz bei koronarer Herzkrankheit: Ein- vs. Mehrgefässerkrankung. *Schweizerische Medizinische Wochenschrift* (1993) 123 Suppl. 49: 34.
26. Spahn D.R., Smith L.R., Schwinn D.A., Leone B.J. Cardiopulmonary Bypass with aortic cross-clamping reduces dobutamine responsiveness: Differential right and left ventricular sensitivity. (2nd International Symposium on Heart Failure, Geneva, Switzerland May 16-20, 1993 Abstract No. 683).
27. Leone B.J., Spahn D.R., Schell R.M., Hoffman R.D., Gillespie R. Effect of single and multiple coronary stenosis on tolerance to isovolemic hemodilution: Importance of compensatory contractile function. *15th Annual Meeting of the Society of Cardiovascular Anesthesiologists* (1993), p242.
28. Spahn D.R., Smith L.R., Leone B.J. Hämodilutionstoleranz bei koronarer Eingefäss- versus koronarer Mehrgefässerkrankung. (Jahrestagung der Schweizerischen Gesellschaft für Anästhesiologie und Reanimation, St. Gallen, 25.-26. Juni, 1993).
29. Spahn D.R., Fielding R.M., Gillespie R., Hoffman R.D., Smith L.R., Archer-Paik L.E., Leone B.J. Cardiovascular effects of recombinant human haemoglobin (rHb1.1) in a canine model of normovolaemic haemodilution. *British Journal of Anaesthesia* (1993) 71: 761P.
30. Gillespie R., Hoffman R.D., Spahn D.R., Smith L.R., Leone B.J. Compensatory mechanisms during hemodilution induced regional myocardial ischemia. *Anesthesiology* (1993) 79: A595.
31. Spahn D.R., Smith L.R., Schell R.M., Leone B.J. Tolerance of acute isovolaemic haemodilution in a canine model of single- versus multi-vessel coronary artery disease. *Journal of Cardiothoracic and Vascular Anesthesia* (1994) 8 (Suppl 2): 120.
32. Spahn D.R., Schmid E.R., Pasch T. Haemodilution tolerance in beta-blocked patients prior to coronary artery bypass surgery. *Journal of Cardiothoracic and Vascular Anesthesia* (1994) 8 (Supplement 3): 14.

33. Spahn D.R., Schmid E.R., Pasch T. Hämodilutionstoleranz von beta-blockierten Patienten mit schwerer koronarer Herzkrankheit. Schweizerische Medizinische Wochenschrift (1994) 124 (Suppl. 63): 20 (A92).
34. Spahn D.R., Schmid E.R., Pasch T. Hämodilutionstoleranz von chronisch beta-blockierten Patienten mit ausgeprägter koronarer Herzkrankheit. Jahrestagung der Schweizerischen Gesellschaft für Anästhesiologie und Reanimation, Bern, 22.-24. September 1994.
35. Spahn D.R., Schmid E.R., Pasch T. Hemodilution tolerance in chronically beta-blocked patients prior to coronary artery bypass surgery. Anesthesiology (1994) 81: A100.
36. Spahn D.R., Schmid E.R., Pasch T. Haemodilution tolerance in chronically beta-blocked patients prior to coronary artery bypass surgery. European Journal of Anaesthesiology (1995) 12:212.
37. Weiss B.M., Keller E., Pasch T., Spahn D.R., Demierre D. Continuous non-invasive vs. radial artery pressure monitoring in cardiovascular and pulmonary risk patients. European Journal of Anaesthesiology (1995) 12: 208.
38. Spahn D.R., Zollinger A., Stöhr S., Schmid E.R., Pasch T. Haemodilution tolerance in the elderly. (Euro-Anaesthesia' 95, Bern, 27.-28. Januar, 1995).
39. Spahn D.R., Zollinger A., Stöhr S., Schmid E.R., Pasch T. Hämodilutionstoleranz von Patienten im Alter von über 65 Jahren. (8. Informationstagung über Eigenbluttransfusion, München, 31. März - 1. April 1995).
40. Spahn D.R., Pasch T., Schmid E.R. Effect of chronic beta blockade on haemodilution tolerance in patients with severe coronary artery disease. British Journal of Anaesthesia (1995) 74 (suppl 2): 3 (A.6).
41. Spahn D.R., Schmid E.R., Seifert B., Pasch T. Effect of age and ejection fraction on hemodilution tolerance in chronically beta-blocked patients prior to coronary artery bypass surgery. Anesthesiology (1995) 83: A129.
42. Spahn D.R., Zollinger A., Schlumpf R.B., Stöhr S., Schmid E.R., Seifert B., Pasch T. Hemodilution tolerance in the elderly. Anesthesiology (1995) 83: A28.
43. Zollinger A., Spahn D.R., Ganter M., Curchod M., Singer T., Weder W., Pasch T. Accuracy of continuous intra-arterial blood gas monitoring during thoracoscopic surgery. Anesthesiology (1995) 83: A423.
44. Weiss B.M., Rahmig H., Spahn D.R., Rohling R., Pasch T. Continuous non-invasive blood pressure monitoring by radial artery tonometry in high-risk patients. British Journal of Anaesthesia (1995) 74 (Suppl. 1): 9 (A.28).
45. Spahn D.R., Zollinger A., Schlumpf R.B., Stöhr S., Schmid E.R., Seifert B., Pasch T. Hämodilutionstoleranz älterer Patienten. Schweizerische Medizinische Wochenschrift (1995) 125 (Supplementum 73): 15S.
46. Spahn D.R., Schmid E.R., Seifert B., Pasch T. Effekt von Alter und Auswurfraction auf die Hämodilutionstoleranz bei Patienten mit schwerer koronarer Herzkrankheit. Schweizerische Medizinische Wochenschrift (1995) 125 (Supplementum 73): 10S.
47. Zollinger A., Ganter M., Curchod M., Singer T., Stöhr S., Spahn D.R., Weder W., Pasch T. Genauigkeit der kontinuierlichen intra-arteriellen Blutgasmessung während thorakoskopischer Operationen. Schweizerische Medizinische Wochenschrift (1995) 125 (Supplementum 73): 10S.
48. Spahn D.R. Hämodilutions-Toleranz bei herzchirurgischen Eingriffen. Anaesthetist (1995) 44 (Supplement 2):217.

49. Rippmann C.E., Nett Ph.C., Popovic D., Seifert B., Pasch T., Spahn D.R. Hemocue®, an accurate bedside method of hemoglobin measurement? *Anesthesiology* (1996) 85: A489.
50. Spahn D.R., Rippmann C.E., Seifert B., Pasch T., Schmid E.R. Hämodilutionstoleranz von Patienten mit Mitralinsuffizienz. Submitted to *Schweizerische Medizinische Wochenschrift* (1996) 126 (Supplementum 83): 7S
51. Rippmann C.E., Nett Ph.C., Popovic D., Seifert B., Pasch T., Spahn D.R. Hemocue®, ein zuverlässiges portables Photometer zur Hämoglobinbestimmung? *Schweizerische Medizinische Wochenschrift* (1996) 126 (Supplementum 83): 11S
52. Egli G.A., Zollinger A., Seifert B., Popovic D., Pasch T., Spahn D.R. Effect of progressive haemodilution with hydroxyethyl starch, gelatin and albumin on blood coagulation: An in vitro thrombelastography study. *British Journal of Anaesthesia* (1997) 78 (Supplement 1): A.202.
53. Spahn D.R., Seifert B., Pasch T., Schmid E.R. Haemodilution tolerance in patients with mitral regurgitation. *British Journal of Anaesthesia* (1997) 78 (Supplement 1): A.187.
54. Spahn D.R. Effektivität der präoperativen Hämodilution. *Anästhesiologie Intensivmedizin Notfallmedizin Schmerztherapie* (1997) 32: S29.
55. Spahn D.R. Clinical Trials with Fluorocarbons. *Infusionstherapie und Transfusionsmedizin* (1997) 24: K615.
56. Spahn D.R. Pathophysiological aspects of oxygen transport in critical illness. *Journal für Anästhesie und Intensivbehandlung* (1998) 5: 189-190.
57. Jamnicki M., Zollinger A., Seifert B., Popovic D., Pasch T., Spahn D.R. Potato starch derived hydroxyethylstarch (200'000 / 0.5) compromises in vitro blood coagulation more than corn starch derived hydroxyethylstarch (200'000 / 0.5). *British Journal of Anaesthesia* (1998) 80 (Suppl 1) A.285.
58. Spahn D.R., van Brecht R., Theilmeier G., Reibold J. P., Welte M., Dunger-Baldauf C., Heinzerling H., Keipert P., Messmer K. and Perflubron Emulsion Study Group. Perflubron emulsion delays blood transfusions in orthopaedic surgery. *British Journal of Anaesthesia* (1998) 80 (Suppl 1) A.276.
59. Spahn D.R. Artificial blood: Research and clinical use. *La Transfusione Del Sangue* (1998) 43 (Suppl 2) s50.
60. Spahn D.R. Künstliche Sauerstoffträger: Fluorocarbon-Emulsionen. *Infusionstherapie und Transfusionsmedizin* (1998) 25 (Suppl 1) 32/3m.
61. Camenzind V., Seifert B., Zollinger A., Popovic D., Jamnicki M., Pasch T., Spahn D.R. Citrate storage alters blood coagulation parameters as assessed by thrombelastography. *Anesthesiology* (1998) 89: A915.
62. Casutt M., Seifert B., Pasch T., Schmid E.R., Turina M.I., Spahn D.R. Factors influencing the individual effects of blood transfusions on O₂ transport and O₂ consumption. *Anesthesiology* (1998) 89: A454.
63. Camenzind V., Jamnicki M., Seifert B., Zollinger A., Popovic D., Pasch T., Spahn D.R. Zitratlagerung verändert die mittels Thrombelastographie gemessenen Blutgerinnungsparameter. *Schweizerische Medizinische Wochenschrift* (1998) 128 (Supplementum 104): 5S.
64. Jamnicki M., Zollinger A., Seifert B., Popovic D., Pasch T., Spahn D.R. Beeinträchtigung der Blutgerinnung: Ein in vitro Vergleich von Hydroxyäthylstärke 130/0.4 mit Hydroxyäthylstärke 200/0.5 unter Anwendung der Thrombelastographie. *Schweizerische Medizinische Wochenschrift* (1998) 128 (Supplementum 104): 10S.

65. Aschkenasy S.V., Zalunardo M.P., Zaugg M., Spahn D.R., Pasch T., Zollinger A. Verlauf des arteriellen PO₂ während Einlungenventilation: Vergleich zwischen Patienten mit und ohne Lungenemphysem. Schweizerische Medizinische Wochenschrift (1998) 128 (Supplementum 104): 7S.
66. Camenzind V., Seifert B., Zollinger A., Popovic D., Jamnicki M., Pasch T., Spahn D.R. Effect of 72 hours citrate storage on thromelastographic parameters. British Journal of Anaesthesia (1999) 82 (Suppl 1) A.260.
67. Biro P., Romero B., Spahn D.R. Remifentanyl versus alfentanil as a supplement for total intravenous anaesthesia with propofol during jet ventilation for laryngeal microsurgery. British Journal of Anaesthesia (1999) 82 (Suppl 1) A.432.
68. Biro P., Layer M., Wiedemann K., Spahn D.R. Airway pressure alteration distal to airway stenosis during high frequency jet ventilation. British Journal of Anaesthesia (1999) 82 (Suppl 1) A.443.
69. Jamnicki M., Camenzind V., Bombeli T., Zollinger A., Seifert B., Popovic D., Pasch T., Spahn D.R. Low molecular weight (70 kD) hydroxyethyl starch (HES) compromises blood coagulation less than medium molecular weight HES (200 kD). British Journal of Anaesthesia (1999) 82 (Suppl 1) A.242.
70. Spahn D.R., Jamnicki M., Bombeli T., Seifert B., Pasch T. Hydroxyethyl starch (HES) 70'000 compromises blood coagulation less than HES 200'000: Effect of in vivo molecular weight. Anesthesiology (1999) 91: A167.
71. Jamnicki M., Bombeli T., Zollinger A., Seifert B., Pasch T., Spahn D.R. Niedermolekulare Hydroxyäthylstärke 70/0.5 beeinträchtigt die Blutgerinnung weniger als mittelmolekulare Hydroxyäthylstärke 200/0.5. Schweizerische Medizinische Wochenschrift (1999) 128 (Supplementum 112): 6S.
72. Camenzind V., Bombeli T., Jamnicki M., Seifert B., Zollinger A., Pasch T., Spahn D.R. Zitratlagerung verändert die Thrombelastographie-Parameter der Blutgerinnung. Schweizerische Medizinische Wochenschrift (1999) 128 (Supplementum 112): 9S.
73. Iselin B., Casutt M., Bombeli T., Seifert B., Pasch T., Spahn D.R. The isolated reduction in haematocrit does not compromise blood coagulation. European Journal of Anaesthesiology (2000) 17 (Supplement 19): A243.
74. Booth J.V., Spahn D.R., El-Moalem H., McRae R.L., Chesnut L., Leone B.J., Schwinn D.A. Esmolol administration during cardio-pulmonary bypass prevents acute myocardial beta-adrenergic receptor desensitization and improves left ventricular systolic function. Anesthesia and Analgesia (2000) 90: SCA40.
75. Fehr S.B., Zalunardo M.P., Seifert B., Pasch T., Spahn D.R. Clonidine Decreases Propofol Requirements as Assessed by Bispectral Index. Anesthesiology (2000) A-273.
76. Beck-Schimmer B., Romero B., Pasch T., Spahn D.R. Transfusion of Irradiated Blood from Cell Salvage (CSblood) Does Not Cause Upregulation of Systemic TNF-, IL-1 and Eotaxin. Anesthesiology (2000) A-178.
77. Fehr S.B., Zalunardo M.P., Seifert B., Pasch T., Spahn D.R. Clonidin reduziert den Propofolbedarf – Evaluation mittels Bispektralem Index (BIS). Schweizerische Medizinische Wochenschrift (2000) 130 (Supplementum 123): 5S.
78. Blank C., Büchi S., Klaghofer R., Hofer C., Buddeberg C., Spahn D.R. Zollinger A. Befindlichkeit nach Allgemeinanästhesie: Worauf kommt es an? Schweizerische Medizinische Wochenschrift (2000) 130 (Supplementum 123):6S.
79. Zalunardo M.P., Zollinger A., Szelloe P., Spahn D.R., Seifert B., Pasch T. Vergleich der Wirksamkeit von Clonidin und Esmolol bei der kardiovaskulären Stressprotektion während der endotrachealen Intubation. Schweizerische Medizinische Wochenschrift (2000) 130 (Supplementum 123): 6S.

80. Beck-Schimmer B., Romero B., Pasch T., Spahn D.R. Transfusion von bestrahltem Cellsaver-Blut ist ein sicheres Verfahren in Bezug auf die Rücktransfusion der Entzündungsmediatoren Tumor Necrosis Faktor- α (TNF- α), Interleukin-1b (IL-1 β) und Eotaxin. Schweizerische Medizinische Wochenschrift (2000) 130 (Supplementum 123): 13S.
81. Neff T.A., Jungheinrich C., Doelberg M., Sauerland A., Spahn D.R., Stocker R. Advantages of 6% hydroxyethyl starch 130/0.4 (Voluven®) at repetitive high dose levels in patients with severe cranio-cerebral trauma. Critical Care (2001) 5 (Supplement 1): S53.
82. Spahn D.R., Waschke K., Standl T., Motsch J., Welte M., Vanhuynegem L., Gombotz H., Coriat P., Keipert P. and the Oxygent Study Group. Oxygent™ reduces allogeneic blood transfusion in noncardiac surgery: A Phase 3 study. European Journal of Anaesthesiology (2001) 18 (Supplement 21): A-204.
83. Sokolovic E, Szucs T, Biro P, Wyss P, Spahn D. An evaluation of the operating room management in the clinic for gynecology. 17th Annual Meeting of the International Society of Technology Assessment Health Care in Philadelphia (USA), 3-6 June 2001.
84. Eichenberger A.-S., Proietti S., Wicky S., Suter M., Frascarolo P., Spahn D.R. Magnusson L. Atélectasies pulmonaires et obésité morbide. Annales Françaises d'Anesthésiologie et de Réanimation (2001) (Supplément 1) 20: R098.
85. Rusca M., Wicky s., Frascarolo P., Proietti S., Spahn D.R. Magnusson L. Efficacité d'une pression positive continue Durant la préoxygénation sur la formation d'atélectasies. Annales Françaises d'Anesthésiologie et de Réanimation (2001) (Supplément 1) 20: R101.
86. Rusca M., Wicky s., Proietti S., Spahn D.R. Magnusson L. Continuous positive airway pressure prevents atelectasis formation during induction of general anesthesia. Anesthesiology (2001) 95: A-1331.
87. Eichenberger A.-S., Proietti S., Suter M., Spahn D.R. Magnusson L. Pulmonary atelectasis and morbid obesity. Anesthesiology (2001) 95: A-1332.
88. Gardaz J.-P., Pradervand M., Capt H., Spahn D.R. Anesthesia costs of the laparoscopic cholecystectomy. Anesthesiology (2001) 95: A-1091.
89. Rusca M., Wicky S., Proietti S., Frascarolo Ph., Spahn D.R., Magnusson L. Continuous positive airways pressure prevents atelectasis formation during induction of general anaesthesia. Swiss Medical Weekly (2001) 131 (Supplement 127) S6.
90. Eichenberger A.-S., Proietti S., Suter M., Spahn D.R. Magnusson L. Pulmonary Atelectasis and Morbid Obesity Pulmonary Atelectasis and Morbid Obesity. Swiss Medical Weekly (2001) 131 (Supplement 127) S6.
91. Wegmueller H., Vial Y., Thorin D., Spahn D.R. Regional anesthesia and umbilical cord acidosis. Swiss Medical Weekly (2001) 131 (Supplement 127) S8.
92. Gardaz J.-P., Pradervand M., Capt H., Spahn D.R. Anesthesia costs of the laparoscopic cholecystectomy. Swiss Medical Weekly (2001) 131 (Supplement 127) S10.
93. Decosterd I., Gilliard N., Spahn D.R., Tate S., Woolf C.J. Regulation of the sodium channels Nav1.8 and Nav1.9 in injured and non-injured primary sensory neurons in neuropathic pain condition. Swiss Medical Weekly (2001) 131 (Supplement 127) S13.
94. Decosterd I., Allchorne A., Gilliard N., Spahn D.R., Woolf C.J. Neuropathic pain models express differential pharmacological sensitivity to analgesics. Swiss Medical Weekly (2001) 131 (Supplement 127) S13.

95. Clerc S., Vuilleumier H., Capt H., Spahn D.R., Gardaz J.-P. Is the effect of inguinal field block with 0,5 % bupivacaïne on postoperative pain after hernia repair enhanced by addition of ketorolac or S(+) ketamine ? *Swiss Medical Weekly* (2001) 131 (Supplement 127) S13.
96. Hofer C.K., Zollinger A., Büchi S., Klaghofer R., Serafino D., Buehlmann S., Buddeberg C., Pasch T., Spahn D.R. Patient well-being after general anaesthesia: A prospective, randomised, double-blind multicenter study on comparison of sevoflurane and propofol anaesthesia. *European Journal of Anaesthesiology* (2002) 19 (Supplement 24): A33.
97. Hegi T.R., Ambühl P.M., Bombeli T., Zalunardo M.P., Seifert B., Pasch T., Spahn D.R. The cyclooxygenase-2 inhibitor rofecoxib preserves renal function better than diclofenac, a non-selective cyclooxygenase inhibitor in patients undergoing hysterectomy. *European Journal of Anaesthesiology* (2002) 19 (Supplement 24): A687.
98. Burion M., Gardaz J.-P., Tucci M., Spahn D.R. Clinical evaluation of a new miniaturized combined pulse oximetry and carbon dioxide tension sensor. *European Journal of Anaesthesiology* (2002) 19 (Supplement 24): A155.
99. Zaugg M., Spahn D. R. Influence of Sevoflurane-induced Preconditioning on Post-operative Arrhythmias and ST-Segment Changes in Coronary Artery Bypass Graft Surgery. *Anesthesiology* (2002) 97: A-206.
100. Hofer C. K., Spahn D. R., Klaghofer R., Pasch T. Zollinger A. Early and Late Postoperative Nausea and Vomiting after General Anesthesia: A prospective, randomized, double-blinded multicenter study comparing sevoflurane and propofol *Anesthesiology* (2002) 97: A-1195.
101. Gardaz J.P., Burion M., Tucci M.A., Frascarolo P., Spahn D.R. Accuracy of a new combined pulse oximetry and carbon dioxide tension sensor during general anesthesia. *Anesthesiology* (2002) 97: A-594.
102. Schoettker P., Fishman D., Spahn D.R., Yersin B. Prise en charge préhospitalière des traumatisés crâniens: comparaison d'un système suisse avec un système australien. *European Journal of Emergency Medicine* (2002) 15: 109.
103. Hegi T.R., Bombeli T., Ambühl P.M., Baumann P.C., Zalunardo M.P., Seifert B., Pasch T., Spahn D.R. Perioperative Rofecoxib Causes Less Hemoglobin Loss in Patients Undergoing Breast Surgery than Diclofenac. *Swiss Medical Weekly* (2002) 132 (Supplement 132): 20 (P58).
104. Julier K., Garcia C., Frascarolo P., Pasch T., Schmid E. R., Zollinger A., Spahn D. R., Zaugg M. Effects of Anesthetic Preconditioning on Perioperative Arrhythmias in Coronary Artery Bypass Graft Surgery: A Placebo-controlled Randomized Multicenter Study. *Swiss Medical Weekly* (2002) 132 (Supplement 132): 5 (P8).
105. Dolci M., Frascarolo P., Hayoz D., Spahn D.R., Gardaz J.P. Effect of i.v. bolus of phenylephrine or ephedrine on skin blood flow during spinal anesthesia. *Swiss Medical Weekly* (2002) 132 (Supplement 132): 7 (P16).
106. Burion M., Tucci M.A., Frascarolo P., Spahn D.R., Gardaz J.P. Accuracy of a new combined pulse oximetry and carbon dioxide tension sensor during general anesthesia. *Swiss Medical Weekly* (2002) 132 (Supplement 132): 18 (P51).
107. Suter M.R., Papaloïzos M., Berde C.B., Woolf C.J., Gilliard N., Spahn D.R., Décosterd I. Bupivacaine loaded microspheres: effect of long-term conduction blockade on the development of experimental neuropathic pain. *Swiss Medical Weekly* (2002) 132 (Supplement 132): 16 (P44).

108. Coussa M., Proietti S., Frascarolo P., Spahn D.R., Magnusson L. Continuous positive airway pressure prevents atelectasis formation during induction of general anaesthesia in morbidly obese patients. *Swiss Medical Weekly* (2002) 132 (Supplement 132): 12 (P34).
109. Vasella F., Frascarolo P., Spahn D.R., Magnusson L. Effect of decurarisation on depth of anaesthesia. *Swiss Medical Weekly* (2002) 132 (Supplement 132): 18 (P53).
110. Gilliard N., Spahn D.R., Pannatier A. Suivi des consommations de médicaments en anesthésiologie de 1997 à 2001. *Forum Médical Suisse* (2002).
111. Suter M., Allchorne A.J., Papaloizos M., Berde C. B., Gilliard N., Spahn D.R., Woolf C.J., Decosterd I. Effect of local anesthetics on stimulus-evoked pain in the spared nerve injury (SNI) model. Society for Neurosciences, 32nd Annual Meeting, Orlando (2002).
112. Herriger A. Frascarolo Ph. Spahn DR. Magnusson L. Effectiveness of positive end expiratory pressure during pre-oxygenation on duration of apnoea before arterial desaturation. *European Journal of Anaesthesiology* (2003); 20: A-268.
113. Coussa M., Proietti S., Frascarolo P., Spahn D.R., Magnusson L. Positive endexpiratory pressure prevents atelectasis formation during induction of general anaesthesia in morbidly obese patients. *European Journal of Anaesthesiology* (2003); 20: A-266.
114. Vasella F., Frascarolo P., Spahn D.R., Magnusson L. Effect of curarisation and decurarisation on depth of anaesthesia. *European Journal of Anaesthesiology* (2003); 20: A-136.
115. Albrecht E., Yersin B., Hugli O., Spahn D.R., Fishman D. Contrôle des voies aériennes par des internes en médecine extra-hospitalière: étude rétrospective. Congrès de médecine d'urgence, Paris 2003.
116. Bourquin A.F., Woolf C.J., Gilliard N., Spahn D.R., Decosterd I. Assessment of neuropathic pain-related behavior in mouse: spared nerve injury model (SNI). Congrès Européen de l'Association Internationale de l'Etude de la Douleur, Prague 2003.
117. Gander S., Frascarolo Ph., Suter M., Spahn D.R., Magnusson L. Positive endexpiratory pressure during induction of general anaesthesia increases time of apnea before peripheral desaturation in morbidly obese patients. *Anesthesiology* (2003) 99: A-1515.
118. Dolci M., Frascarolo Ph., Hayoz D., Spahn D.R., Gardaz J.P. Effect of i.v. bolus of phenylephrine or ephedrine on skin blood flow during spinal anesthesia. *Anesthesiology* (2003) 99: A-179.
119. Herriger A., Frascarolo Ph., Spahn D.R., Magnusson L. Effectiveness of positive end expiratory pressure during pre-oxygenation on duration of apnea before arterial desaturation. *Swiss Medical Weekly* (2003) 133 (Supplement 137): 8 (P16).
120. Gander S., Frascarolo Ph., Suter M., Spahn D.R., Magnusson L. Positive end expiratory pressure during induction of anesthesia increases time of apnea before peripheral desaturation in morbidly obese patients. *Swiss Medical Weekly* (2003) 133 (Supplement 137): 9 (P21).
121. Bourquin A.F., Woolf C.J., Gilliard N., Spahn D.R., Decosterd I. Measure of pain hypersensitivity in the mouse spared nerve injury model of neuropathic pain. *Swiss Medical Weekly* (2003) 133 (Supplement 137): 13 (P33).
122. Lauper D., Decosterd I., Frascarolo Ph., Spahn D.R., Gardaz J.P. Intraperitoneal tenoxicam for analgesia after laparoscopic cholecystectomy: preliminary results. *Swiss Medical Weekly* (2003) 133 (Supplement 137): 4 (P5).
123. Perruchoud C., Schoettker P., Ribordy V., Yersin B., Spahn D.R., Fishman D. Cardioversion électrique des tachycardies instables en préhospitalier: quel souvenir en garde nos patients? *Urgence* 2004, Paris 7-9 avril 2004.

124. Joray F., Schoettker P., Glanzmann Y., Yersin B., Spahn D.R., Fishman D. Accident de plongée: mot-clé d'engagement d'un hélicoptère médicalisé. Urgence 2004, Paris 7-9 avril 2004.
125. Corniche J., Ribordy V., Schoettker P., Spahn D.R., Yersin B., Fishman D. Secours hélicoptérés et utilisation du treuil. Urgence 2004, Paris 7-9 avril 2004.
126. Corniche J., Ribordy V., Schoettker P., Spahn D.R., Yersin B., Fishman D. Secours Berger M.M., Dettori N., Frascarolo P., Chioléro R.C., Raffoul W., Spahn D.R. Incidence des complications thromboemboliques chez le brûlé grave admis en réanimation. 24. Congrès de Société Française d'Etude et de Traitement des Brûlures, Marseille, 9-11 juin 2004.
127. Marrel J., Frascarolo P., Blanc C., Spahn D.R., Magnusson L. Videolaryngoscopy improves intubation in morbidly obese patients. *European Journal of Anaesthesiology* (2004) 21 (Supplement 32): A-279.
128. Berger M.M., Dettori N., Frascarolo P., Chioléro R.C., Raffoul W., Spahn D.R. Incidence des complications thromboemboliques chez le brûlé grave admis en réanimation. 24. Congrès de Société Française d'Etude et de Traitement des Brûlures, Marseille, 9-11 juin 2004.
129. Dettori N., Madjdpour C., Frascarolo Ph., Fisch A., Spahn D.R. Influence of hydroxyethyl starches on blood coagulation: is molecular weight relevant? *Anesthesiology* (2004) 101: A722.
130. Julier K., Dettori N., Madjdpour C., Frascarolo Ph., Spahn D.R. Molecular weight does not determine the effect of hydroxyethyl starche on in vitro blood coagulation. *Anesthesiology* (2004) 101: A723.
131. Ganter M., Suter D., Spahn D.R., Pasch T., Beck-Schimmer B. Effects of hypoxia and reoxygenation on the respiratory compartment of the lung. *Anesthesiology* (2004) 101: A1569.
132. Zaugg M., Julier K., Garcia C., Spahn D. R., Zollinger A. Preconditioning by sevoflurane improves one-year cardiovascular outcome in coronary artery bypass graft surgery. *Anesthesiology* (2004) 101: A209.
133. Dettori N., Madjdpour C., Frascarolo Ph., Fisch A., Spahn D.R. Influence of hydroxyethyl starches on blood coagulation: is molecular weight relevant? *Swiss Medical Weekly* (2004) 134 (Supplement 143): 9 (P22).
134. Julier K., Dettori N., Madjdpour C., Frascarolo Ph., Spahn D.R. Molecular weight does not determine the effect of hydroxyethyl starche on in vitro blood coagulation. *Swiss Medical Weekly* (2004) 134 (Supplement 143): 9 (P24).
135. Suter D., Ganter M., Spahn D.R., Pasch T., and Beck-Schimmer B. Alveolar hypoxia and reoxygenation: Inflammatory response in the respiratory compartment of the lung. *Swiss Medical Weekly* (2004) 134 (Supplement 143): 18 (P54).
136. Marrel J., Blanc C., Frascarolo Ph., Spahn D.R., Magnusson L. Videolaryngoscopy improves the laryngoscopic grade in morbidly obese patients. *Swiss Medical Weekly* (2004) 134 (Supplement 143): 8 (P20).
137. Pertin M., Bourquin A.F., Isom L.L., Gilliard N., Spahn D.R., Decosterd I. Regulation and function of auxiliary beta2 subunit of voltage gated sodium channel in neuro-pathic pain. *Swiss Medical Weekly* (2004) 134 (Supplement 143): 15 (P41).
138. Garcia C., Julier K., Zollinger A., Spahn D.R., Pasch T., Zaugg M. Preconditioning by sevoflurane improves one-year cardiovascular outcome in coronary artery bypass graft surgery. *Swiss Medical Weekly* (2004) 134 (Supplement 143): 4 (P5).
139. Bourquin A.F., Suveges M., Gilliard N., Spahn D.R., Isom L.L., Sardy S., Decosterd I. Refined behavioral analysis of the sural nerve injury model of neuropathic pain in transgenic mice. Poster 247, 4th Forum of European Neuroscience, Lisbon, July 10-14, 2004.

140. Suter D., Spahn D.R., Reyes L., Booy C., Pasch T: Beck-Schimmer B. Anti-inflammatory effect of sevoflurane in endotoxin-induced lung injury. *European Journal of Anaesthesiology* (2005) 22 (Supplement 34): A-242.
141. Debatisse D., Marcucci C., Villemure J.G., Spahn D.R. Pralong E. Pain stimulation by using Synchronised Somatosensory Evoked Potentials (SSEPs) and Contact Heat Evoked Potentials (CHEPs). *European Journal of Anaesthesiology* (2005) 22 (Supplement 34): A-710.
142. Madjdpour C., Buclin T., Frascarolo P., Thyès C., von Rothen I., Burmeister M.-A., Fisch A., Bombeli T., Spahn D.R. Novel polyanionic starches: Pharmacokinetics and effect on blood coagulation. *European Journal of Anaesthesiology* (2005) 22 (Supplement 34): A-287.
143. Berta T., Perrin F.E., Pertin M., Descombes P., Gilliard N., Spahn D.R., Kato A.C., Decosterd I. Exploiting laser capture microdissection and gene expression profiling in the spared nerve injury model of neuropathic pain. 11th World Congress on Pain (IASP) August 21-26, 2005 Sydney, Australia.
144. Pertin M., Ji R.R., Berta T., Powell A., Gilliard N., Tate S., Isom L.L., Woolf C., Spahn D.R., Decosterd I. Modulation of expression of beta2 subunit of voltage-gated sodium channel in experimental neuropathic pain. 11th World Congress on Pain (IASP) August 21-26, 2005 Sydney, Australia.
145. Thyès C., Frascarolo P., Madjdpour C., Boll M., Spahn D.R. Do high doses of high and low molecular weight HES influence blood coagulation differently? *Anesthesiology* (2005) 103: A362.
146. von Rothen I., Madjdpour C., Frascarolo P., Fisch A., Spahn D.R. Molar substitution and C2/C6 ratio of HES: influence on human blood coagulation. *Anesthesiology* (2005) 103: A369.
147. Thyès C., Frascarolo P., Madjdpour C., Boll M., Spahn D.R. Can arterial base excess be predicted by venous blood gas analysis? *Anesthesiology* (2005) 103: A540.
148. Madjdpour C., Buclin T., Frascarolo P., Burmeister M., Spahn D.R. Pharmacokinetics and pharmacodynamics of novel starches. *Anesthesiology* (2005) 103: A486.
149. Berta T., Perrin F.E., Pertin M., Gilliard N., Spahn D.R., Descombes P., Kato A.C., Decosterd I. Laser capture microdissection technology and gene expression analysis of specific neuronal populations in experimental neuropathic pain. *Swiss Medical Weekly* (2005) 135 (Supplement 148): S 6 (P14).
150. Pertin M., Poirot O., Berta T., Gilliard N., Spahn D.R., Kellenberger S., Decosterd I. Sodium channels and neuropathic pain: relationship between subunits levels of expression and sodium currents. *Swiss Medical Weekly* (2005) 135 (Supplement 148): S 6 (P16).
151. Thyès C., Madjdpour C., Frascarolo P., Boll M., Fisch A., Spahn D.R. Effect of high and low molecular weight low substituted HES on blood coagulation during acute normovolemic hemodilution. *Swiss Medical Weekly* (2005) 135 (Supplement 148): S 4 (P7).
152. Thyès C., Madjdpour C., Frascarolo P., Chassot P.G., Spahn D.R. Is arterial base excess predictable by venous blood gas analysis? *Swiss Medical Weekly* (2005) 135 (Supplement 148): S 4 (P8).
153. Blanc C., Frascarolo P., Spahn D.R., Magnusson L. Videolaryngoscopy improves the laryngoscopic grade in difficult intubation. *Swiss Medical Weekly* (2005) 135 (Supplement 148): S 20 (P64).
154. Madjdpour C., Buclin T., Thyès C., Burmeister M., Spahn D.R. Pharmacokinetics and pharmacodynamics of novel starches. *Swiss Medical Weekly* (2005) 135 (Supplement 148): S 5 (P60).
155. Chollet-Rivier M., Jaquet Y., Monnier P., Ravussin P., Spahn D.R. Complications of different ventilation strategies in endoscopic laryngeal surgery: a 10 years review. *Swiss Medical Weekly* (2005) 135 (Supplement 148): S 18 (P55).

156. Roth Z'graggen B., Yue T., Blumenthal S., Reyes L., Booy C., Steurer M., Neff S.B., Neff T.A., Schmid E.R., Spahn D.R., Beck-Schimmer B. Acute lung injury: postconditioning with a volatile anaesthetic. *Intensive Care Medicine* (2006) 32 (Supplement 1): S 15 (P 0039).
157. Steurer M.A., Steurer M.P., Schmid E.R., Spahn D.R., Beck-Schimmer B. Sevoflurane postconditioning decreases the inflammatory response produced by alveolar macrophages. *Anesthesiology* (2006) 105: A16
158. Steurer M.P., Steurer M.A., Spahn D.R., Schmid E.R., Beck-Schimmer B. The effect of Sevoflurane versus Propofol on TNF α production after one-lung ventilation (preliminary). *Anesthesiology* (2006) 105: A18
159. Beck-Schimmer B., Yue T., Roth Z'graggen B., Reyes L., Booy C., Steurer M., Spahn D.R., Schmid E.R. Acute lung injury: postconditioning with a volatile anaesthetic. *Intensivmedizin* (2006) 43 (Supplement 1)
160. Steurer M.P., Steurer M.A., Spahn D.R., Schmid E.R., Beck-Schimmer B. Effect of Sevoflurane versus Propofol on the inflammatory response during One-Lung Ventilation in thoracic surgery - preliminary data. *Swiss Medical Weekly* (2006) 136 (Supplement 153): S 3 (P1).
161. Yue T., Roth Z'graggen B., Reyes L., Booy Ch., Steurer M., Spahn D.R., Schmid E.R., Beck-Schimmer B. Acute lung injury: postconditioning with a volatile anesthetic. *Swiss Medical Weekly* (2006) 136 (Supplement 153): S 5 (P11).
162. Steurer M.P., Steurer M.A., Schmid E.R., Spahn D.R., Beck-Schimmer B. Sevoflurane postconditioning attenuates production of inflammatory mediators in alveolar macrophages in an in vitro setting of acute lung injury. *Swiss Medical Weekly* (2006) 136 (Supplement 153): S 5 (P12).
163. Axis A., Beggah A.T., Woolf C. J., Arber S., Gilliard N., Spahn D.R., Decosterd I. Morphological quantification of A-sprouting in superficial lamina of dorsal horn after peripheral nerve injury. *Swiss Medical Weekly* (2006) 136 (Supplement 153): S 8 (P21).
164. Pertin M., Allchorne A.J., Woolf C.J., Gilliard N., Spahn D.R., Decosterd I. Sympathetic-sensory coupling in neuropathic pain. *Swiss Medical Weekly* (2006) 136 (Supplement 153): S 8 (P22).
165. Berta T., Perrin F.E., Pertin M., Gilliard N., Spahn D.R., Descombes P., Kato A.C., Decosterd I. Differential gene expression in injured and non-injured small dorsal root ganglia neurons after spared nerve injury. *Swiss Medical Weekly* (2006) 136 (Supplement 153): S 8 (P23).
166. Beggah A.T., Pertin M., Pavent A., Gilliard N., Spahn D.R., Pellerin L., Decosterd I. Neuropathic pain and spinal glia: in vitro characterization of c-jun N-terminal kinase (JNK) activation. *Swiss Medical Weekly* (2006) 136 (Supplement 153): S 9 (P24).
167. Theusinger O.M., Leyvraz P-F., Spahn D.R. Intravenous iron to treat anaemia in orthopedic surgery. *European Journal of Anaesthesiology* (2007.) 24 (Supplement 39): S 64-65
168. Theusinger O.M., Hofmann A., Gombotz H., Spahn D.R. Determinating the true cost of RBC transfusion from a health care providers perspective – a preliminary report. *European Journal of Anaesthesiology* (2007.) 24 (Supplement 39) (P70)
169. Theusinger O.M., Hoeffter E., Spahn D.R. Is autologous blood donation useful in reduction mammoplasty? *TATM* (2007.) 9 (Supplement 1): S44-45
170. De Conno E., Neff T.A., Blumenthal St., Spahn D.R., Beck-Schimmer B. An In Vitro Model for Postconditioning in Acute Lung Injury. *Anesthesiology* (2007.) 107 (A1653)
171. De Conno E., Steurer M., Wittlinger M., Spahn D.R., Beck-Schimmer B. Immunomodulatory Effects of Anesthetics in the Respiratory Compartment during One-Lung Ventilation. *Anesthesiology* (2007.) 107 (A1651)

172. Joray F., Décosterd I., Frascarolo Ph., Spahn D.R., Gardaz P. Analgesic Efficacy of i.v. Perfusion of Lidocaine, Ketamine, or Their Association after Laparotomy. *Anesthesiology* (2007.) 107 (A1759)
173. Viret M., Roth Z'graggen B., Reyes L., Booy C., Spahn D.R., Beck-Schimmer B. Effects of hypoxia and reoxygenation on the respiratory compartment of the lung. *Intensive Care Medicine* (2007.) 23 (Supplement 2): S 147 (P 0567)
174. Viret M., Roth Z'graggen B., Reyes L., Booy C., Spahn D.R., Beck-Schimmer B. Effects of hypoxia and reoxygenation on the respiratory compartment of the lung. *Swiss Medical Weekly* (2007.) 137 (Supplement 160): S 5 (FM 8)
175. De Conno E., Steurer M., Wittlinger M., Spahn DR., Beck-Schimmer B. Immunomodulatory Effects of Anesthetics in the Respiratory Compartment during One-Lung Ventilation. *Swiss Medical Weekly* (2007.) 137 (Supplement 160): S 6 (FM 9)
176. Zaugg M., Zollinger A., Spahn D.R., Borgeat A. Adrenergic receptor genotype but not perioperative bisoprolol therapy may determine cardiovascular outcome in at-risk patients undergoing surgery with spinal block. *Swiss Medical Weekly* (2007.) 137 (Supplement 160): S 10 (FM 22)
177. Schläpfer M., Blumenthal S., Roth-Z'Graggen B., Spahn D.R., Beck-Schimmer B. Anti-inflammatory effect of ropivacaine in endotoxin-injured alveolar epithelial cells: Elucidation of cellular signalling. *European Journal of Anaesthesiology* (2008.) 25 (Supplement 44): S 77 (5AP3-8)
178. Wittlinger M., De Conno E., Schläpfer M., Spahn D.R., Beck-Schimmer B. Effect of different HES preparations (HES 130/0.42; HES 200/0.5) on activated proximal tubular epithelial cells in vitro. *European Journal of Anaesthesiology* (2008.) 25 (Supplement 44): S 173 (12AP4-4)
179. Wittlinger M., De Conno E., Schläpfer M., Spahn D.R., Beck-Schimmer B. Effect of different HES preparations on activated proximal tubular epithelial cells in vitro. *Anesthesiology* (2008.) 109 (A267)
180. Steurer M.P., Steurer M.A., Spahn D.R., Schmid E., Beck-Schimmer B. Late sevoflurane postconditioning and myocardial enzymes after cardiac surgery - preliminary data. *Anesthesiology* (2008.) 109 (A65)
181. Beck-Schimmer B., Wittlinger M., De Conno E., Urech S., Spahn D.R. Pharmacological preconditioning in liver surgery with a sevoflurane: a randomized controlled trial. *Anesthesiology* (2008.) 109 (A1134)
182. Wittlinger M., De Conno E., Neff Th., Schläpfer M., Spahn D.R., Beck-Schimmer B. Effect of different HES preparations (HES 130/0.42; HES 200/0.5) on activated proximal tubular epithelial cells in vitro. *Swiss Medical Weekly* (2008.) 138 (Supplement 166): S 6 (FM 13)
183. Schläpfer M., Roth Z'Graggen B., Blumenthal S., Borgeat A., Spahn D.R., Beck-Schimmer B. Anti-inflammatory effect of ropivacaine in endotoxin - injured alveolar epithelial cells: elucidation of cellular signalling. *Swiss Medical Weekly* (2008.) 138 (Supplement 166): S 6 (FM 14)
184. Voigtsberger S., Lachmann R.A., Leutert A.C., Spahn D.R., Beck-Schimmer B. Post-conditioning with the volatile anaesthetic sevoflurane in an in vivo model of LPS-induced lung injury. *Swiss Medical Weekly* (2008.) 138 (Supplement 166): S 6 (FM 15)
185. Leutert A.C., Voigtsberger S., Roth Z'Graggen B.V., Reyes L., Booy Ch., Spahn D.R., Beck-Schimmer B. In vitro investigation on the effect of sevoflurane on active transport of sodium, potassium-adenosine triphosphatase (Na⁺/K⁺-ATPase). *Swiss Medical Weekly* (2008.) 138 (Supplement 166): S 7 (FM 16)

186. Wacker J., Kleeb B., Künzle B., Leisinger E., Kobler A., Kolbe M., Manser T., Burtscher M., Spahn D.R., Grote G. High incidence of non-routine events during standard anesthesia inductions: A prospective analysis of synchronized video and vital parameter recordings. *Swiss Medical Weekly* (2008.) 138 (Supplement 166): S 9 (FM 23)
187. Steurer M.P., Puhan M., Schmid E.R., Spahn D.R., Beck-Schimmer B. Effect of late sevoflurane post-conditioning on myocardial enzyme kinetics after on pump cardiac surgery – preliminary data. *Swiss Medical Weekly* (2008.) 138 (Supplement 166): S 13 (P 14)
188. Heim C., Schoettker P., Spahn D.R. Knowledge of Glasgow Coma Scale by Swiss Air-Rescue Physicians. *Swiss Medical Weekly* (2008.) 138 (Supplement 166): S 17 (P 29)
189. Maurer K., Wacker J., Spahn D.R. General Anesthetics Change Axonal Excitability of Primary Sensory Afferents. *Anesthesiology* (2009) (A107)
190. Theusinger O.M., Baulig W., Asmis L.M., M.D., Seifert B., Spahn D.R. The Effect of In Vitro Normalization of Factor XIII on Rotation Thrombelastometry (ROTEM®). *Anesthesiology* (2009) (A401)
191. Theusinger O.M., Nürnberg L., Asmis L.M., M.D., Seifert B., Spahn D.R. Stability of Samples over Time and Reproducibility of Rotation Thrombelastography (ROTEM®). *Anesthesiology* (2009) (A402)
192. Buddeberg F., Schanz U., Hasler M., Spahn D.R., Beck-Schimmer B. In Vitro Determination of the Inflammatory Potential of Platelet Concentrates. *Anesthesiology* (2009) (A1582)
193. Schläpfer M., Schild J.C., Voigtsberger S., Spahn D.R., Beck-Schimmer B. Effect of sevoflurane on lung oedema in an ALI/ARDS model in vivo and in vitro. *Swiss Medical Weekly* (2009) 139 (Supplement 177): S 4 (FM 10)
194. Buddeberg F., Hasler M., Schanz U., Spahn D.R., Beck-Schimmer B. In vitro determination of the inflammatory potential of platelet concentrates and fresh frozen plasma. *Swiss Medical Weekly* (2009) 139 (Supplement 177): S 6 (FM 21)
195. Voigtsberger S., Schläpfer M., Spahn D.R., Beck-Schimmer B. Fluid resuscitation with HES 130 attenuates the expression of inflammatory mediators in the kidney compared to Ringer's lactate in an in vivo model of LPS-induced sepsis in rats. *Swiss Medical Weekly* (2009) 139 (Supplement 177): S 6 (FM 22)
196. Steurer M.P., Steurer M. A., Schmid E.R., Spahn D.R., Beck-Schimmer B. Effect of a late Sevoflurane Postconditioning on Pulmonary Performance after On Pump Aortic Valve Replacement. *Swiss Medical Weekly* (2009) 139 (Supplement 177): S 6 (FM 23)
197. Vastani N., Spahn D.R., Maurer K. Small depolarizing ramp currents can be used to block nerve conduction in the presence of low concentrations of local anesthetics. *Swiss Medical Weekly* (2010) 140 (Supplement 184): S 10 (P 3)
198. Maurer K., Wacker J., Spahn D.R. Induction of general anesthesia with propofol and sevoflurane change axonal excitability of primary sensory afferents. *Swiss Medical Weekly* (2010) 140 (Supplement 184): S 10 (P 5)
199. Theusinger O.M., Asmis L.M., Seifert B., Spahn D.R., Baulig W. Influence of Clotting Factor Levels and Laboratory Parameters on Thromboelastometry (ROTEM®). *ASA Abstracts* (2010) A649
200. Gross O., Vastani N., Spahn D.R., Maurer K. Buprenorphine but not morphine modulates nerve excitability of primary sensory afferents of rat at clinically relevant concentrations. *Swiss Medical Weekly* (2011) 141 (Supplement 190): S 8 (FM 23)

4.15 Theses (total 102)

1997

1. Egli G.A.: Effect of progressive haemodilution with hydroxyethyl starch, gelatin and albumin on blood coagulation: An in vitro thrombelastography study.
2. Rippmann Ch. E.: HemoCue®, an accurate bedside method of hemoglobin measurement?

1998

3. Casutt M.: Factors influencing the individual effects of blood transfusions on oxygen transport and oxygen consumption.

2000

4. Werner O.: Atemwegsprobleme bei der Sectio Caesarea.
5. Camenzind V.: Effect of citrate storage on Thrombelastograph® analysis.
6. Holenstein P.: Low (70 kD) and medium (200 kD) molecular weight hydroxyethyl starch: Comparison of their effect on blood coagulation in vitro.

2001

7. Iselin B.: The isolated reduction of haematocrit does not compromise in vitro blood coagulation.
8. Fehr S.B.: Clonidin decreases propofol requirements during anesthesia: effect on bispectral index.
9. Rudaz D.: Effect of fluid-loading on hemodynamic consequences due to a change in position from supine to knee-ellbow for lumbar disc surgery (in collaboration with Dr. P.-G. Chassot).
10. Pradervan-Mooser M.: Evaluation du coût anesthésiologique de la cholécystectomie laparoscopique (in collaboration with Dr. J.-P. Gardaz).
11. Benoît Z.: Effect of increased FiO₂ before extubation on postoperative atelectasis (in collaboration with Dr. L. Magnusson).
12. Eichenberger A.-S.: Morbid obesity and postoperative pulmonary atelectasis: an underestimated problem (in collaboration with Dr. L. Magnusson).

2002

13. Vasella F.: Effect of decurarisation on depth of anaesthesia (in collaboration with Dr. L. Magnusson).
14. Zweifel A.-S.: Ephedrin decreases fetal umbilical artery pH during spinal anesthesia for cesarian section (in collaboration with Dr. D. Thorin).
15. Clerc S.: Is the effect of inguinal field block with 0.5% bupivacain on postoperative pain after hernia repair enhanced by the addition of ketorolac or S(+)-ketamin ? (in collaboration with Dr. J.-P. Gardaz).
16. Julier K.: Pharmacologic preconditioning elicits myocardial and renal protection in humans: a double-blind placebo-controlled multicenter study (in collaboration with Dr. M. Zaugg, Institut für Anästhesiologie, UniversitätsSpital Zürich).
17. Dolci M.: Effect of i.v. bolus of phenylephrine or ephedrine on skin blood flow during spinal anesthesia (in collaboration with Dr. J.-P. Gardaz).
18. Coussa M.: Continuous positive airway pressure prevents atelectasis formation during induction of general anaesthesia in morbidly obese patients (in collaboration with Dr. L. Magnusson).
19. Dettori N.: Effect of high-molecular, low-substituted hydroxyethyl starch on blood coagulation.

20. Burion M.: Evaluation of a new miniaturized combined pulse oximetry and carbon dioxide tension sensor (in collaboration with Dr. J.-P. Gardaz).
21. Herriger A.: Effect of PEEP on the duration of apnea during anesthesia induction (in collaboration with Dr. L. Magnusson).
22. Thierrin L.: Early bronchoconstriction in anesthetized sheep: a simplified experimental model of asthma (in collaboration with Dr. J.-P. Gardaz).
23. Suter M.: Bupivacaine loaded microspheres: effect of long-term conduction blockade on the development of experimental neuropathic pain (in collaboration with Dr. I. Décosterd).
24. Rusca M.: Continuous positive airway pressure prevents atelectasis formation during induction of general anesthesia (in collaboration with Dr. L. Magnusson).
25. Lauper D.: Effect of intra-peritoneal application of NSAIDs on postoperative pain after laparoscopic cholecystectomy (in collaboration with Dr. J.-P. Gardaz).

2003

26. Bourquin A.F.: Assessment of neuropathic pain-related behavior in mouse: spared nerve injury model (SNI). (in collaboration with Dresse. I. Décosterd).
27. Marrel J.: Does videolaryngoscopy improve intubating condition in morbidly obese patients? (in collaboration with Dr. L. Magnusson).
28. Gander S.: Positive end-expiratory pressure during induction of general anaesthesia increases time of apnea before peripheral desaturation in morbidly obese patients. (in collaboration with Dr. L. Magnusson).

2007

29. Meyer S.: Hypoxia attenuates effector-target cell interaction in the airway and pulmonary vascular compartment. (in collaboration with PD Dr. B. Beck Schimmer)
30. Bruggisser M.: Einfluss von Clonidin auf die perioperative Blutgerinnung (in collaboration with PD Dr. M.P. Zalunardo)

2008

31. Schramm S.: Impact of the C2/C6 Ratio of High-Molecular-Weight Hydroxyethyl Starch on Pharmacokinetics and Blood Coagulation in Pigs (in collaboration with Dr. PD Dr. Th. Buclin)
32. Wittlinger M.: Effect of hydroxyethyl starches (HES 130/0.42 and HES 200/0.5) on in-flamed renal tubular epithelial cells (in collaboration with Prof. Dr. B. Beck Schimmer)
33. Tornic J.: Acute lung injury: Apoptosis in effector and target cells of the upper and lower airway compartment upon endotoxin and hypoxia-induced injury (in collaboration with Prof. Dr. B. Beck Schimmer)
34. Maurer Ch.H.: Inhalation von 80% Sauerstoff bewirkt einen thrombelastographisch nachweisbaren prokoagulatorischen Effekt bei gesunden Probanden (in collaboration with PD Dr. M. Zaugg und Dr. J. Wacker)
35. Ambrosio S.: Sevoflurane Inhalation at Sedative Concentrations Provides Endothelial Protection against Ischemia-Reperfusion Injury in Humans (in collaboration with PD Dr. M. Zaugg)
36. Thalman C.: "Impact of Preoperative Right-Ventricular function on outcome after lung transplantation" (in collaboration with PD Dr. M.P. Zalunardo)

2009

37. Senn A.H.: Assessment of cardiac output changes using a modified Flo Trac/Vigileo™ algorithm in cardiac surgery patients (in collaboration with PD Dr. med. C. Hofer)
38. Neukom L.: Effects of Propofol on Excitability of Primary Sensory Afferents in a Rat In-vitro Model Measured with Threshold Tracking Technique (in collaboration with Dr. med. K. Maurer)
39. Viret M.: Effect of hypoxia and reoxygenation on the lower respiratory compartment of the lung (in collaboration with Prof. Dr. med. B. Beck Schimmer)
40. Ganeo-Christoffel L.: Die postoperative Rhabdomyolyse: eine retrospektive Datenanalyse zu Inzidenz, möglichen Risikofaktoren und Verlauf (in collaboration with PD Dr. med Ch. Haberthür, Lucerne)
41. Weber J.: „Tetrahydrocannabinol (delta 9-THC) Treatment in Chronic Central Neuropathic Pain and Fibromyalgia Patients: Results of a Multicenter Survey“ (in collaboration with Prof. Dr. med. Ch. Konrad, Lucerne)
42. Wölfel Ch.: „Tauchunfälle in der Schweiz – Optimierte Ressourcennutzung durch Telemedizin“ (in collaboration with Prof. Dr. med. Ch. Konrad, Lucerne)
43. Brunnschweiler S.A.: Reduktion von postoperativem Schmerz, Nausea und Erbrechen: Eine Untersuchung zur Qualität der anästhesiologischen Betreuung im Aufwachraum (in collaboration with PD Dr. med. C. Hofer, Stadtspital Triemli, Zuerich)
44. Rast-Heule D.: Monitoring von rekombinantem Faktor VIIa (rFVIIa) in einem in-vitro Dilutionsmodell (in collaboration with PD Dr. med. C. K. Hofer, Stadtspital Triemli, Zuerich)

2010

45. Nürnberg J.: “Rotation thromboelastometry (ROTEM®)” stability and reproducibility over time (in collaboration with Dr. med. O. M. Theusinger, University Hospital Zurich)
46. Kristoffy A.: Effects on coagulation of balanced (130/0.42) and non-balanced (130/0.4) Hydroxyethyl Starch or gelatin compared with balanced Ringer’s Solution. An in-vitro study using two different viscoelastic coagulation tests ROTEM™ and SONOCLOTTM™ (in collaboration with Prof. Dr. med. Ch. Konrad, Lucerne)
47. van Beijnum T.A.: Two distinct application habits for propofol: An observational study (in collaboration with PD Dr. med. Peter Biro, University Hospital Zurich)
48. Rödiger R.: The Revised Digital Transcutaneous PCO₂ / SpO₂ Ear Sensor Is a Reliable Noninvasive Monitoring Tool in Patients After Cardiac Surgery (in collaboration with Dr. med. W. Baulig, University Hospital Zurich)

2011

49. Thalmann C.: Impact of preoperative right-ventricular function and platelet transfusion on outcome after lung transplantation (in collaboration with Prof. Dr. med. M.P. Zalunardo, University Hospital Zurich)
50. Ludwig A.A.L.: A simulated severe difficult airway does not alter the intubation performance with the SensaScope a prospective randomised manikin study (in collaboration with Prof. Dr. med. Biro und PD Dr. med. Baulig, University Hospital Zurich)
51. Job-Ladowsky K. Intermediate Cervical Plexus Block for Carotid Endarterectomy: A Case Series of the Spread of Injectate (in collaboration with Prof. Dr. med. Ch. Konrad, Lucerne)

2012

52. Wölfel Christian P.: Telemedicine in the management of diving accidents: correlation of phone-assessed symptom severity with clinical findings (in collaboration with Prof. Dr. med. Ch. Konrad, Lucerne)
53. Hein Jürgen M.: Scientific fraud in 20 falsified anesthesia papers. Detection using financial auditing methods. (in collaboration with Prof. Dr. med. Ch. Konrad and PhD Dr. med. G. Schüpfer, Lucerne)

2013

54. Schröder C.: The Influence of Laboratory Coagulation Tests and Clotting Factor Levels on Rotation Thromboelastometry (ROTEM®) during Major Surgery with Hemorrhage (in collaboration with Dr. med. O. Theusinger, Dr. med. J. Eismon, Dr. med. M. Emmert, B. Seifert, Prof. Dr. med D.R. Spahn and Dr. med. W. Baulig)

2014

55. Haller Y.: Systemic Ropivacaine Diminishes Pain Sensitization Processes: A Randomized, Double-Blinded, Placebo-Controlled, Crossover Study in Healthy Volunteers (in collaboration with Dr. med. A. Gantenbein, Dr. med. P. Willmann, Prof. Dr. med D. R. Spahn and Dr. med. K. Maurer)
56. Kind S.: Patient blood management in orthopaedic surgery: a four-year follow-up of transfusion requirements and blood loss from 2008. to 2011 at the Balgrist University Hospital in Zürich, Switzerland (in collaboration with Dr. med. O. Theusinger, Prof. Dr. B. Seifert, Prof. Dr. med. A. Borgeat, Prof. Dr. med. C. Gerber, Prof. Dr. med. D. R. Spahn)
57. Kuhn S.J.: Postkonditionierung mit Sevofluran auf Intensivstation nach Eingriff an der Herzklappe – welchen Nutzen haben die Patienten 6 Monate später? (in collaboration with Dr. med. Martin Schläpfer, Prof. Dr. med. Beatrice Beck-Schimmer und Prof. Dr. med. D. R. Spahn)
58. Beilstein C.M.: Qualität der perioperativen Analgesie und Entwicklung chronischer postoperativer Schmerzen: Eine Evaluation am Stadtspital Triemli (in collaboration with PD Dr. med. Stephan Blumenthal, Prof. Dr. med. D. R. Spahn)

2015

59. Kaiser A.M.E.: Therapie und Therapieerfolg von Duodenaladenomen – eine retrospektive Analyse (in collaboration with PD Dr. med. O.M. Theusinger, Prof. Dr. med. D.R. Spahn)
60. Thöni N.P.: Incidence of difficult airway situations during prehospital airway management by emergency physicians – A retrospective analysis of 692 consecutive patients (in collaboration with PD Dr. med. Univ. K. Rützler, Prof. Dr. med. D.R. Spahn)
61. Homburg K.: Analyse der Zuweisungs- und Aufnahmepolitik einer grossen Intensivstation durch die Einführung der DRG in der Schweiz (in collaboration with PD Dr. med. St. Blumenthal, Prof. Dr. med. D.R. Spahn)
62. Schick C.J.: Simulation with PARTS (Phase-Augmented Research and Training Scenarios) – A Structure Facilitating Research and Assessment in Simulation (in collaboration with Dr. med. B. Grande, Prof. Dr. med D.R. Spahn)
63. Tscholl D.W.: An Anesthesia Preinduction Checklist to Improve Information Exchange, Knowledge of Critical Information, Perception of Safety, and Possibly Perception of Teamwork in Anesthesia Teams (in collaboration with Prof. Dr. med. D.R. Spahn, Dr. med. Ch.B. Nöthiger)
64. Begdeda H.: Klinische Charakteristika, Morbidität und Mortalität kritisch kranker Patienten mit und ohne Delir (in collaboration with PD Dr. med. Alain Rudiger, Prof. Dr. med. D.R. Spahn)

2016

65. Schulze M.G.: SafAirway: an airway training for pulmonologists performing a flexible bronchoscopy with non-anesthesiologist administered propofol sedation. A prospective evaluation (in collaboration with Dr. med. Bastian Grande, Prof. med. Dr. D.R. Spahn)
66. Schürner Ph.: Hands-off time for endotracheal intubation during CPR is not altered by the use of the C-MAC video-laryngoscope compared to conventional direct laryngoscopy. A randomized crossover manikin study (in collaboration with Dr. med. Bastian Grande, Prof. Dr. med. Dr. D.R. Spahn).
67. Ubmann D.: C-MAC videolaryngoscope compared with direct laryngoscopy for rapid sequence intubation in an emergency department: A randomized clinical trial (in collaboration with PD Dr. med. univ. K. Rützler, Prof. Dr. med. D. Spahn)

2017

68. Tiefenauer E.M.: Major Surgeries are More Painful: Perioperative Pain Management and the Role of Preexisting Chronic Pain in Two Types of Spine Surgery (in collaboration with Prof. Dr. med. Ch.J. Konrad, Prof. Dr. med. D.R. Spahn)
69. Hausammann A.E.: Evaluation der Effizienz der Technik der epiduralen Anästhesie/Analgesie im UniversitätsSpital Zürich von 2009: Eine retrospektive Datenanalyse (in collaboration with PD Dr. med. K. Maurer, Prof. Dr. med. D.R. Spahn)
70. Radu R.R.: Prevalence and in-hospital outcome of aspiration in out-of-hospital intubated trauma patients (in collaboration with PD Dr. med. V. Neuhaus, A. Kaserer, B. Seifert, Prof. Dr. med. H.P. Simmen, K. Ruetzler, Prof. Dr. med. D. R. Spahn)
71. Jäger N.: Disappointing Success of Electrical Cardioversion for New-Onset Atrial Fibrillation in Cardio-surgical ICU Patients (in collaboration with PD Dr. med. Alain Rudiger, Prof. Dr. med. D.R. Spahn)
72. Kaserer A.: Change of transfusion and treatment paradigm in major trauma patients (in collaboration with Dr. med. Philipp Stein, Prof. Dr. med. D.R. Spahn)

2018

73. Hüllemann S.: Application of Benford's law: a valuable tool for detecting scientific papers with fabricated data? (in collaboration with Prof. Dr. med. Christoph Johannes Konrad, Prof. Dr. med. D.R. Spahn)
74. Steffensmeier D.J.: Specialist advice may improve patient selection for decompression therapy following diving accidents: a retrospective observational study (in collaboration with Dr. med. Philipp Stein, Prof. Dr. med. D.R. Spahn)
75. Schedler A.: Risk Factors for Higher - than - Expected Residual Rivaroxaban Plasma Concentrations in Real Life Patients (in collaboration with Dr. med. Philipp Stein, Prof. Dr. med. D.R. Spahn)
76. Hanusch M.: Übertragen einer Sicherheitsprozedur aus der Aviatik in das Gesundheitswesen: ppa - patient performance // analysis action (in collaboration with Dr. med. B. Grande, Prof. Dr. med. D.R. Spahn)
77. Kurmann J.: Dexmedetomidine-associated hyperthermia: A series of 9 cases and a review of the literature (in collaboration with PD Dr. med. A. Rudiger, Prof. Dr. med. D.R. Spahn)
78. Handschin L. S.: Using an animated patient avatar to improve perception of vital sign information by anesthesia professionals (in collaboration with Dr. med. Ch. Nöthiger, Prof. Dr. med. D.R. Spahn)
79. Kaserer A.: Change of transfusion and treatment paradigm in major trauma patients (in collaboration with PD Dr. med. Philipp Stein, Prof. Dr. med. D.R. Spahn)

80. Jacky A.: Comparison of Levosimendan and Milrinone for ECLS Weaning in Patients After Cardiac Surgery – A Retrospective Before-and-After Study (in collaboration with Prof. Dr. med. D. Bettex, Prof. Dr. D.R. Spahn)

2019

81. Leuzinger E.A.: How current transfusion practices in geriatric patients with hip fractures still differ from current guidelines and the effects on outcome: A retrospective observational study (in collaboration with Prof. Dr. med. Christoph Konrad, Prof. Dr. med. D.R. Spahn)
82. Rauchenstein-Ziltener G.: Veränderung der Verlegungspolitik einer grossen Intensivstation durch die Einführung der DRG in der Schweiz (in collaboration with Prof. Dr. med. D.R. Spahn, PD Dr. med. Stephan Blumenthal)
83. Rüegg-Fauceglia E.: Eine Analyse des Patientenkollektivs von 2004 bis 2013 des Zentrums für Schmerzmedizin am Institut für Anästhesiologie und Intensivmedizin des Stadtspital Triemli, Zürich (in collaboration with Prof. Dr. med. D.R. Spahn, PD Dr. med. Stephan Blumenthal)
84. Kurmann J.: Dexmedetomidine-associated hyperthermia: A series of 9 cases and a review of the literature (in collaboration with Prof. Dr. med. D.R. Spahn, PD Dr. med. Alain Rudiger)
85. Oberholzer N.C.: Factors Influencing Quality of Pain Management in a Physician Staffed Helicopter Emergency Medical Service (in collaboration with Prof. Dr. med. D.R. Spahn, PD Dr. med. Philipp Stein)
86. Schnaudigel geb. Günster R.: Dose dependent effects of red blood cell transfusions in a guinea pig model (in collaboration with Prof. Dr. med. D.R. Spahn, Prof. Dr. med. Dominik Schaer)

2020

87. Kiavialaitis G.: Impact of rivaroxaban plasma concentration on perioperative red blood cell loss (in collaboration with Prof. Dr. med. D.R. Spahn, PD Dr. med. Philipp Stein)
88. Schenk P.: Treatment of Seizures in Children and Adults in the Emergency Medical System of the City of Zurich, Switzerland – Midazolam vs. Diazepam – A Retrospective Analysis (in collaboration with Prof. Dr. med. D.R. Spahn)
89. Yue P.E.: Untersuchung zur Ökonomie, Ökologie und Infektionsgefahr von Mehrweg- und Einweg-Laryngoskopspateln (in collaboration with Prof. Dr. med. D.R. Spahn, Prof. Dr. med. Christoph Hofer)
90. Stein A.L.: Impact of a goal-directed factor-based coagulation management on thromboembolic events following major trauma (in collaboration with Prof. Dr. med. D.R. Spahn)
91. Garot O.: Avatar-based versus conventional vital sign display in a central monitor for monitoring multiple patients: a multicenter computer-based laboratory study (in collaboration with Prof. Dr. med. D.R. Spahn)
92. Oechslin P.P.: Predictors of blood loss in lung transplant surgery – a single center retrospective cohort analysis (in collaboration with Prof. Dr. med. D.R. Spahn, PD Dr. med. Bastian Grande)

2021

93. Becker M.: Untersuchung zur Korrelation des Preliminary Universal Surgical Invasiveness Score (pU-SIS) mit früh-postoperativen Outcome-Daten. Eine prospektive Beobachtungsstudie (in collaboration with Prof. Dr. med. D.R. Spahn, Prof. Dr. med. P. Biro)

94. Said S.: The Haemostasis Traffic Light, a user-centred coagulation management tool for acute bleeding situations: a simulation-based randomised dual-centre trial (in collaboration with Prof. Dr. med. D.R. Spahn, Dr. med. D.W. Tscholl)
95. Roche T.R.: Physicians' Perceptions of a Situation Awareness-Oriented Visualization Technology for Viscoelastic Blood Coagulation Management (Visual Clot): Mixed-Methods Study (in collaboration with Prof. Dr. med. D.R. Spahn, Dr. med. D.W. Tscholl)
96. Lichtenhahn A.: Analyse eines First-responder-Systems zur notfallmedizinischen Versorgung im ländlichen Raum: erste Ergebnisse und Erfahrungen (in collaboration with Dr. med. C.J. Konrad, Prof. Dr. med. D.R. Spahn)
97. Friedrich M.S.: Coronavirus-induced coagulaopathy during the course of disease (in collaboration with Dr. med. Alexander Kaserer, Prof. Dr. med. D.R. Spahn)
98. Pfarr J.: Effects of a standardized distraction on caregivers' perceptive performance with avatar-based and conventional patient monitoring: a multicenter comparative study (in collaboration with Dr. med. David W. Tscholl, Dr. med. Christoph B. Nöthiger, Prof. Dr. med. Donat R. Spahn)
99. Tra S.: Association of uterine activity and maternal volatile anesthetic exposure during open fetal surgery for spina bifida: a retrospective analysis (in collaboration with Prof. Dr. med. D.R. Spahn, Prof. Dr. med. P. Biro)
100. Malgorzata A.: Validation of the Raw National Aeronautics and Space Administration Task Load Index (NASA-TLX) Questionnaire to Assess Perceived Workload in Patient Monitoring Tasks: Pooled Analysis Study Using Mixed Models (in collaboration with Dr. med. David W. Tscholl, Prof. Dr. med. Donat R. Spahn)
101. Akbas S.: Comparison of the resonance sonorheometry based Quantra® system with rotational thromboelastometry ROTEM® sigma in cardiac surgery – a prospective observational study (in collaboration with Prof. Dr. med. Donat R. Spahn, Prof. Dr. med. Werner Baulig)

2022

102. Hager S.: Effects of extracellular MgSO₄ and Ca⁺⁺ on nerve excitability in an in-vitro model (in collaboration with Prof. Dr. med. D.R. Spahn, PD Dr. med. K. Maurer)

4.16 Diploma Theses (total 3)

2012

1. Bringolf Lilian G.: Voodoo Death. Akuter Stress und seine schädlichen Folgen. (in collaboration with PD Dr. med. Alain Rudiger)

2014

1. Fichmann D.: Surviving acute traumatic transection of the ascending aorta and proximal aortic arch – report of an exceptional case (in collaboration with PD Dr. med. Daniel Schmidlin)

2016

1. Oberholzer N.: Detailed case description and review of the literature about a patient suffering from chordoma and dying after a complication of tracheotomy (in collaboration with Dr. med. Philipp Stein)

4.17 Video

1. Kocian R., Spahn D.R. Intubation vigile – Die wache Intubation. Production in collaboration with cemcav, CHUV, Lausanne (2006) ©RK-DRS-ALG-CHUV CEMCAV.

5. Invited Lectures (809)

1. Hämodilution: Möglichkeiten und Grenzen. At: Fortbildungskurs "Moderne Chirurgie und Blutersatz" der Schweizerischen Gesellschaft für Chirurgie, Kartause Ittigen, 4th September 1993.
2. Artificial blood. At: Fortbildungskurs "Moderne Chirurgie und Blutersatz" der Schweizerischen Gesellschaft für Chirurgie, Kartause Ittigen, 4th September 1993.
3. Die isovoläme Hämodilution. At: Fortbildungsveranstaltung in Anästhesie und Intensivmedizin, Institut für Anästhesiologie, Kantonsspital St. Gallen, St. Gallen, 7th Februar 1994.
4. Hämodilution und koronare Herzkrankheit: Möglichkeiten und Grenzen. At: 30. Luzerner Anaesthesie-Forum, Institut für Anästhesiologie und Reanimation, Kantonsspital Luzern, Luzern, 6th October 1994.
5. Hämodilution und koronare Herzkrankheit: Möglichkeiten und Grenzen. At: Fortbildungsveranstaltung des Instituts für Anästhesiologie, Universitätsspital Zürich, Zürich, 6th December 1994.
6. Hämodilution und koronare Herzkrankheit: Möglichkeiten und Grenzen. At: Blockkurs "Herz und Lunge" der ärztlichen Fortbildung, Institut für Anästhesiologie und Intensivbehandlung, Inselspital Bern, Bern, 7th December 1994.
7. Zeugen Jehovah's: Medizinische und ethische Aspekte. At: Blockkurs "Herz und Lunge" der ärztlichen Fortbildung, Institut für Anästhesiologie und Intensivbehandlung, Inselspital Bern, Bern, 8th December 1994.
8. Hämodilutionstoleranz von Patienten im Alter von über 65 Jahren. At: 8. Informationstagung über Eigenbluttransfusion, Ludwig-Maximilian-Universität München, München, 31th März 1995.
9. Critical haematocrit. At: ESA Meeting (European Society of Anaesthesiologists), Paris, 30th April 1995.
10. Limitations of homologous blood transfusions. At: 3. ESA Meeting (European Society of Anaesthesiologists), Paris, 1st May 1995.
11. Blood saving techniques. At: 3. ESA Meeting (European Society of Anaesthesiologists), Paris, 1st May 1995.
12. Hämodilutions-Toleranz bei herzchirurgischen Eingriffen. At: 24. Zentraleuropäischer Anaesthesiekongress, Wien, 8th September 1995.
13. Critical hematocrit in the perioperative period. At: Fortbildungsveranstaltung, Department of Anesthesiology, University Hospital Umeå, Umeå, 29th September 1995.
14. Hämodilutionstoleranz bei Patienten mit koronarer Herzkrankheit. At: Fortbildungsveranstaltung, Institut für Anästhesiologie, Klinikum Grosshadern der Universität München, München, 14th November 1995.
15. Hämodilutionstoleranz bei kardialem Risiko. At: Internationales Symposium "Autologe Transfusion", Garmisch-Patenkirchen, 18th November 1995.
16. Erythrozytensubstitution. At: Symposium "Bluttransfusion und Blutgerinnung in der perioperativen Phase", Graz, 2nd December 1995.

17. Hemodilution tolerance of patients with severe coronary artery disease: Effect of age and left ventricular ejection fraction. At: 14. Annual Symposium, Clinical Update in Anesthesiology and Advances in Techniques of Cardiopulmonary Bypass, organized by the Department of Anesthesiology, The Mount Sinai Medical Center, New York, 13–20 January 1996.
18. When (not) to transfuse. At: 16. International Symposium on Intensive Care and Emergency Medicine, Brussels, 18–22 March 1996.
19. Increasing DO₂: Blood oxygen content or blood flow. At: 16. International Symposium on Intensive Care and Emergency Medicine, Brussels, 18–22 March 1996.
20. Hämodilution. At: Fortbildungsveranstaltung, Departement Anästhesie, Kantonsspital Basel, Basel, 22nd April 1996.
21. Hämodilution in der Herzchirurgie. At: Fortbildungsveranstaltung, Klinik für Anaesthesiologie der Ruprecht-Karls-Universität Heidelberg, Heidelberg, 24th April 1996.
22. Hemodilution: How low can we go? At: 4. ESA Meeting (European Society of Anaesthesiologists), London, 1–5 June 1996.
23. Hemodilution tolerance in patients compromised cardiac function. At: 17. International Congress of the Israel Society of Anesthesiologists, Tel Aviv, 4–7 June 1996.
24. Der kritische Hämatokrit bei Patienten mit kardialen Erkrankungen. At: Fortbildungsveranstaltung der Klinik und Poliklinik für Anaesthesiologie und Intensivtherapie des Universitätsklinikums Carl Gustav Carus, Technische Universität Dresden, Dresden, 27th August 1996.
25. Low hemoglobin in cardiac surgery. At: Formation post graduée, Département d'Anesthésie - Réanimation des Hôpital Cardio-Vasculaire et Pneumologique L. Pradel, Lyon, 13 th September 1996.
26. Limits of anemia. At: Fortbildungsveranstaltung, Département d'Anesthésie - Réanimation des Hôpital Cardio-Vasculaire et Pneumologique L. Pradel, Lyon, 13 th September 1996.
27. Anästhesie beim geriatrischen Patienten. At: Jahreskongress der Schweizerischen Gesellschaft für Anästhesiologie und Reanimation (SGAR), Interlaken, 8th November 1996.
28. Management of haemorrhagic shock: Critical haematocrit. At: FIGO Symposium on "Prevention and Management of Anaemia in Pregnancy and Postpartum Haemorrhage, Zürich, 13–14 December 1996.
29. Sauerstofftransportierende Lösungen - Die Kolloide der Zukunft? At: Tübinger Anaesthesie-Symposium 1997, Tübingen, 15th March 1997.
30. Künstliche Sauerstoffträger als Alternative zur Bluttransfusion. At: Fortbildungstagung der Schweizerischen Interessengemeinschaft für Anästhesie-Pflegepersonal, Zürich, 22. März 1997.
31. Effektivität der präoperativen Hämodilution. At: German Congress of Anaesthesiology, Hamburg, 23–26 April 1997.
32. How effective is perioperative organ protection: The kidneys. At: Jahrestagung der European Society of Anaesthesiologists (ESA), Lausanne, 3–6 May 1997.
33. The role of artificial blood in transfusion. At: Jahrestagung der European Society of Anaesthesiologists (ESA), Lausanne, 3–6 May 1997.
34. Critical hematocrit - hemodilution. At: SMART Meeting, Milano, 28–30 May 1997.
35. Sauerstofftransportierende Lösungen. At: Symposium "Volumenersatz", Berlin, 9th August 1997.
36. Indikation zur Bluttransfusion: Der kritische Hämatokrit. At: Fortbildungstagung der Vereinigung Berner Anästhesisten, Thun, 16th August 1997.

37. Künstliche Sauerstoffträger. At: Düsseldorfer Anaesthesiekolloquium, Düsseldorf, 25th August 1997.
38. Human trials with fluorocarbons. At: Joint Congress of the International Society of Blood Transfusion (ISBT) European Section and the German Society of Transfusion Medicine and Immunohaematology (DGTI), Frankfurt, 1–4 October 1997.
39. Künstliche Sauerstoffträger: Neue Entwicklungen. At: Fortbildungsveranstaltung des Instituts für Anästhesiologie des UniversitätsSpitals Zürich, Zürich, 30th October 1997.
40. Künstliche Sauerstoffträger: Neue Entwicklungen. At: Fortbildungsveranstaltung des Departements für Anästhesiologie und Intensivmedizin des Inselspital Bern, Bern, 31th October 1997.
41. Hämodilution und optimale Hämoglobinkonzentration bei Patienten mit koronarer Herzerkrankung. At: Fortbildungskonferenz der Abteilung für Anästhesie und Intensivmedizin des Universitätsklinikum Essen, Essen, 3rd November 1997.
42. Perioperative Hämodilution bei Risikopatienten: Gibt es einen kritischen Hämatokrit? At: Fortbildungsveranstaltung der Klinik für Anästhesiologie und Operative Intensivmedizin des Klinikums der Christian-Albrechts-Universität zu Kiel, Kiel, 19th November 1997.
43. Gegenwärtiger Stand Sauerstoff transportierender Lösungen. At: Anästhesiologisches Kolloquium am Klinikum der Universität Regensburg, Regensburg, 25th November 1997.
44. Optimale und kritische Hämoglobinkonzentration beim Intensivpatienten - aus klinischer Sicht. At: Deutscher Interdisziplinärer Kongress für Intensivmedizin und Notfallmedizin, Hamburg, 26–29 November 1997.
45. Der Entschluss zur Bluttransfusion: Nur selten gerechtfertigt? At: 29. Münsteraner Anästhesie-Symposium "150 Jahre Anästhesie - der lange Weg zur perioperativen Medizin", Münster, 5–6 December 1997.
46. Künstlicher Sauerstofftransport mit Fluorocarbonen. At: Symposium "Bluttransfusion und Blutgerinnung in der perioperativen Phase", Graz, 12–13 December 1997.
47. New therapeutic concepts using oxygen carriers. At: "International update on plasma volume substitution in Europe", Göteborg, 6th February 1998.
48. Bedeutung des Sauerstofftransportes bei kritisch Kranken. At: 8. Internationales Symposium Intensivmedizin und Intensivpflege, Bremen, 11–13 February 1998.
49. Critical hematocrit. At: Formation post graduée, Hôpitaux Universitaires de Genève, Division d'Anesthésiologie, Genf, 3rd March 1998.
50. Künstliche Sauerstoffträger: Aktueller Stand. At: Fortbildungsprogramm der Klinik für Anästhesiologie und operative Intensivmedizin des Kantonsspital Aarau, Aarau, 10th March 1998.
51. The optimal hemoglobin in health and acute illness. At: "Round Table Conference on Tissue Oxygenation in Acute Medicine", Brüssel, 14–16 March 1998.
52. Artificial oxygen carriers. At: 18. International Symposium on Intensive Care and Emergency Medicine, Brüssel, 17–20 March 1998.
53. Artificial oxygen carriers. At: 6. Annual Meeting of the European Society of Anaesthesiologists (ESA), Barcelona, 25–28 April 1998.
54. Perioperative renal protection. At: SMART Meeting, Milano, 27–29 May 1998.
55. Crystalloid vs. Colloid vs. Gelatin Solutions. At: Course on "Blood Transfusion in Emergencies and Disasters" der European School of Transfusion Medicine, Pescara, 10–14 June 1998.

56. Perfluorochemicals. At: Course on "Blood Transfusion in Emergencies and Disasters" der European School of Transfusion Medicine, Pescara, 10–14 June 1998.
57. Artificial Blood - Research and Clinical Use. At: 33. Convegno Nazionale di Studi di Medicina Transfusionale, Pescara, 10–14 June 1998.
58. Monitoring of oxygen delivery in cardiac and vascular surgery. At: 25. Congress of the International Society of Blood Transfusion, Oslo, 27th June – 2nd July 1998.
59. Preoperative cardiac risk evaluation for major non-cardiac surgery. At: 10th European Congress of Anaesthesiology / DAK 98, Frankfurt, 30th June – 4th July 1998.
60. Acute normovolemic hemodilution and acceptance of dilutional anaemia in patients with coronary artery disease and cerebro-vascular diseases. At: 10th European Congress of Anaesthesiology / DAK 98, Frankfurt, 30th June – 4th July 1998.
61. Alternatives to homologous blood cell transfusions: Is there a place for hemoglobin solutions? At: 10th European Congress of Anaesthesiology / DAK 98, Frankfurt, 30th June – 4th July 1998.
62. Künstliche Sauerstoffträger. At: Neue Perspektiven in der Volumentherapie, Friedberg, 4th September 1998.
63. Künstliche Sauerstoffträger. At: Neue Perspektiven in der Volumentherapie, Friedberg, 11th September 1998.
64. Perfluorocarbone: Physiologie und mögliche klinische Anwendungen. At: Jenaer Symposium, Jena, 15–19 September 1998.
65. Künstliche Sauerstoffträger. At: Fortbildungsveranstaltung der Universitätsklinik für Anästhesiologie des Universitätsklinikum Ulm, Ulm, 14th September 1998.
66. Künstliche Sauerstoffträger. At: Volumenersatz: Aktueller Stand und aktuelle Kontroversen, Düsseldorf, 19th September 1998.
67. Künstliche Sauerstoffträger. At: 31. Jahreskongress der Deutschen Gesellschaft für Transfusionsmedizin und Immunhämatologie, Bern, 6–9 October 1998.
68. Blutsparende Massnahmen in der perioperativen Periode. At: Weiterbildungskurs III der Region Deutschland Süd/Ost der FEEA, Dresden, 22–24 October 1998.
69. Perfluorocarbone als Blutersatz: Erste Erfahrungen am Menschen. At: Symposium über Radikale, Antioxydantien und Blutersatzstoffe, Schladming, 6–7 November 1998.
70. Perflubron emulsion OxygentTM delays blood transfusion in orthopedic surgery: Results of a phase IIb study. At: IBC's 6th Annual Conference on „Blood Substitutes and Oxygen Therapeutics, Washington, 19–20 November 1998.
71. Der kritische Hämatokrit. At: Fortbildungsreihe der Universitätsklinik für Anästhesiologie der Freien Universität Berlin (Benjamin Franklin), Berlin, 25th November 1998.
72. Der Entscheid zur Bluttransfusion – nur selten gerechtfertigt? At: Anaesthesiologisch intensivmedizinische Weiterbildung der Klinik für Anästhesiologie und Intensivtherapie, Klinik für Anästhesiologie und Intensivtherapie des Klinikums der Friedrich-Schiller Universität Jena, Jena, 3rd December 1998.
73. Limits of hemodilution. At: Formazione continua in Anesthesiologia, Ospedale Regionale di Lugano, Lugano, 11th January 1999.
74. Artificial oxygen carriers. At: 14. International Winter Meeting on "Perioperative volume and hemoglobin replacement", Leuven, 23rd January 1999.

75. Blutsparende Massnahmen in der perioperativen Periode. At: Weiterbildungskurs III der Region Deutschland Süd/Ost der FEEA, Dresden, 28–30 January 1999.
76. Rational use of colloids, and their effect on hemostasis. At: Strategies on I.V.-fluid therapy in burn and trauma patients, Helsinki, 17th February 1999.
77. Blood substitutes. At: Fortbildungsveranstaltung, Department of Anaesthesia, The Toronto Hospital / Mount Sinai Hospital, Toronto, 26th March 1999.
78. Effect of anemia in critically ill patients. At: RBC Transfusions in the ICU, New York, April 12, 1999.
79. Artificial oxygen carriers. At: XXXIV ESSR Congress (European Society for Surgical Research), Bern, 22–24 April 1999.
80. Transfusion triggers and limits of anaemia. At: XXXIV ESSR Congress (European Society for Surgical Research), Bern, 22–24 April 1999.
81. Erwartungen in künstliche Sauerstoffträger: Gegenwart und Zukunft. At: Eigenblutseminar 1999 der Österreichischen Gesellschaft für Eigenbluttransfusion, Wien, 13–15 May 1999.
82. Perioperative Morbidität und mortalität anämischer patienten: Gibt es einen optimalen Hämatokrit? At: Deutscher Anästhesiekongress – DAK International, Wiesbaden, 5–8 May 1999.
83. Oxygen transport. At: European Society of Anaesthesiologists (ESA) Annual Meeting, Amsterdam, 29th May – 1st June 1999.
84. Augmentation de l'hémodilution normovolemique aiguë avec l'émulsion de perflourocarbone. At: Xvèmes Journées d'Anesthésie et de Réanimation du Nord et de l'Est, Dijon, 18–19 June 1999.
85. Hämodilution und Perflubron. At: Weiterbildungsreihe der Universitätsklinik für Anästhesiologie, Universität Heidelberg, Heidelberg, 2nd August 1999.
86. Transport de l'oxygène par les émulsions fluorocarbonnées: ou en sommes-nous? At: 5ème Journée Sédunoise d'Anesthésiologie, Sion, 15th September 1999.
87. Künstliche Sauerstoffträger – Noch Euphorie oder schon/wann klinische Realität? Fluorocarbone. At Symposium Autologe Transfusion: Von der Euphorie zur Ratio, Nottwil/Luzern, 24–25 September 1999.
88. Blutersatz, Volumenersatz, blutsparende Massnahmen. At: Ärztliche Weiterbildung Stadtsptial Triemli, Zürich, 28th September 1999.
89. Augmentation de l'hémodilution normovolemique aiguë avec l'émulsion de perflubron. At: Formation post graduée, Département d'Anesthésie Réanimation, Groupe Hospitalier Pitié-Salpêtrière Paris, Paris, 18th October 1999.
90. Einfluss von Colloiden und Crystalloiden auf die Blutgerinnung. At: Fortbildungsveranstaltung des Instituts für Anästhesiologie, Universitätsspital Zürich, 27th October 1999.
91. Künstliche Sauerstoffträger: Stand der Entwicklung. At: Weiterbildung Kantonsspital Winterthur, Winterthur, 9th November 1999.
92. Welches Kolloid wann? At: Weiterbildungsreihe des Städtischen Krankenhaus Solingen, Solingen, 4th November 1999.
93. Künstliche Sauerstoffträger. At: Weiterbildungsreihe der Universitätsklinik für Anästhesiologie, Universität Homburg-Saar, Homburg, 16th November 1999.
94. Efficacy and safety of colloids and crystalloids. At: First Annual NATA Symposium, Barcelona, 31st January – 2nd February 2000.

95. Artificial oxygen carriers. At: 20. International Symposium on Intensive Care and Emergency Medicine, Brussels, 21–24 March 2000.
96. Fluid therapy and blood coagulation. At: 20. International Symposium on Intensive Care and Emergency Medicine, Brussels, 21–24 March 2000.
97. Comment diminuer le saignement chirurgical : Le rôle de l'anesthésiste. At: International Symposium on Transfusion Alternatives, Marseille, 28–29 March 2000.
98. Où en sont les transporteurs d'oxygène? At: International Symposium on Transfusion Alternatives, Marseille, 21–24 March 2000.
99. Synthetic colloids in anaesthesia. At: European Society of Anaesthesiologists (ESA) Annual Meeting, Vienna, 1–4 April 2000.
100. Artificial O2 carriers. At: European Society of Anaesthesiologists (ESA) Annual Meeting, Vienna, 1–4 April 2000.
101. Toleranz intraoperativer Hämatokritwerte. At: Jahrestagung der Österreichischen Gesellschaft für Anästhesie und Reanimation (ÖGARI), Wien, 1–4 April 2000.
102. Künstliche Sauerstoffträger: Volumenersatzstoffe des neuen Millenniums? At: Deutscher Anästhesiekongress, München, 8th May 2000.
103. Current status of artificial oxygen carriers – augmented acute normovolaemic haemodilution. At: 1st European Congress on Bloodless Health Care, Geneva, 11–12 May 2000.
104. Management of extreme anemia in the Jehovah's witness patient. At: 1st European Congress on Bloodless Health Care, Geneva, 11–12 May 2000.
105. Artificial oxygen carriers: current status and future options. At: Critical Issues in Respiratory and critical care medicine: Science and technology, Juan-les-Pins, 12–14 June 2000.
106. Transport d'oxygène: Quelle valeurs limites? At: Weiterbildungsreihe des Service d'Anesthésiologie, Centre Hospitalier Universitaire Vaudois, Lausanne, 28th June 2000.
107. Nausées et vomissements postopératoires. At: Weiterbildungsreihe des Service d'Anesthésiologie, Centre Hospitalier Universitaire Vaudois, Lausanne, 29th June 2000.
108. Entwicklung künstlicher Sauerstoffträger. At: Weiterbildungsreihe der Klinik für Anästhesiologie des Universitätsklinikums der Rheinisch-Westfälischen Technischen Hochschule Aachen, Aachen, 29th June 2000.
109. Perioperative transfusion triggers for red blood cells. At: Congress of the International Society of Blood Transfusion (ISBT), Vienna, 9–14 July 2000.
110. Kunstblut an der Schwelle zur Realität. At: XXVI. Symposium des Collegium Gynaecologicum, Zürich, August 17–19 July 2000.
111. Update on Blood Substitutes. At: World Congress of the International Society of Blood Hematology, Toronto, 26–30 August 2000.
112. Artificial oxygen carriers. At: XXVII Congress of the European Society for Artificial Organs (ESAO), Lausanne, 31st August – 2nd September 2000.
113. Künstliche Sauerstoffträger – je früher desto besser. At: Weiterbildungsreihe der Klinik für Herz- und Gefäßchirurgie, Departement Herz und Gefässe, Inselspital Bern, Bern, 18th September 2000.
114. Transfusion sanguine. At: MSD des intensivistes, Lausanne, 27th September 2000.

115. Transporteurs artificiels de l'oxygène: amélioration potentielle de l'oxygénation tissulaire? At: 12ème Journée Lausannoise d' Anesthésiologie, Lausanne, 3rd October 2000.
116. (Augmentierte) Hämodilution: Ein wirksames Verfahren? At: Symposium Perioperative Fremdbluttransfusion – Indikation, Probleme Alternativen, Universitätsklinik für Anästhesiologie, Universität Homburg-Saar, Homburg, 21th October 2000.
117. Künstliche O₂-Träger and der Grenze zur Realität. At: Weiterbildungsreihe des Instituts für Anästhesiologie, Kantonsspital Winterthur, Winterthur, 24th October 2000.
118. Drug interactions. At: Haemostasis and Transfusion: Perioperative Mangement in the Elderly Patient, Graz, 27–28 October 2000.
119. Blutsparende Massnahmen. At: Weiterbildungsreihe der Anästhesiologischen Universitätsklinik des Universitätsklinikums Freiburg, Freiburg im Breisgau, 20th November 2000.
120. Perioperative Probleme. At: Blockkurs SGGG, Departement Frauenheilkunde, UniversitätsSpital Zürich, Zürich, 2nd December 2000.
121. Augmented ANH™: An alternative technique to allogeneic blood transfusion. At: PGA New York, 11th December 2000.
122. L'hémodilution „augmentée“ et les fluorocarbones. At: Colloque, Service d'Anesthésiologie, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, 10th January 2001.
123. Hémodilution aiguë: PRO. At: Anesthésie Réanimation, Technologies, Evolutions, Paris, 12th January 2001.
124. L'hémodilution „augmentée“ et les fluorocarbones. At: Anesthésie Réanimation, Technologies, Evolutions, Paris, 12th January 2001.
125. Les substitus sanguins. At: Symposium „Les Champs Blancs“, Chavanne-de-Bogis, 1st February 2001.
126. Perfluorocarbon solutions in surgical patients. At: 21st International Symposium on Intensive Care and Emergency Medicine, Brussels, 20–23 March 2001.
127. Strategies to limit blood transfusions. At: 21st International Symposium on Intensive Care and Emergency Medicine, Brussels, 20–23 March 2001.
128. Perfluorocarbon technology with augmented ANH: European Phase II trial results. At: 9th ESA Annual Meeting, Gothenburg, 7–10 April 2001.
129. Oxygen: Studies in non-cardiac Surgery. At: 2nd NATA Conference, Berlin, 20–21 April 2001.
130. Synthetic colloids. At: Annual Meeting of the Finnish Society of Anesthesiologists, near Helsinki, 12th May 2001.
131. Anesthesia techniques in a bloodless care program. At: 2001 Spring Conference, Center for Bloodless Medicine and Surgery, Pensilvania Hospital, Philadelphia, PA, 18th May 2001.
132. Current status of artificial oxygen carriers. At: 11th European Congress of Anaesthesiology CENSA, Florence, 5–9 June 2001.
133. An alternative to haemoglobin – the use of perfluorocarbons. At: Meeting of the Section of Anaesthesia of the Royal Society of Medicine, London, 15th June 2001.
134. Transfusions sanguines: risques, efficacité et alternatives. At: Colloques du Département des Services de Chirurgie et Anesthésiologie, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, 24th September 2001.

135. Traitement des nausées postopératoires: point sur la situation. At: 13ème Journée Lausannoise d'Anesthésiologie, Lausanne, 2nd October 2001.
136. Blutersatz, ab wann und womit? At: Fortbildungsveranstaltung in Anästhesie und Intensivmedizin, Kantonsspital St. Gallen, St. Gallen, 8th October 2001.
137. Are temporary artificial oxygen carriers (blood substitutes») an answer? In Elective Non-cardiac surgery? At: ASA Annual Meeting, New Orleans, 16th October 2001.
138. Augmented acute normovolemic hemodilution A-ANH. At: Postgraduate Formation, University Hospital Gothenborg, 24th October 2001
139. Artificial oxygen carriers: Where are we today? At: Fluid Club, Uppsala, October 25, 2001.
140. The concept of Augmented acute normovolemic hemodilution (A-ANH)? At: Fluid Club, Uppsala, 25th October 2001.
141. Clinical experience with O₂ carriers. At: Workshop on development of quality systems to improve the clinical use of blood, organized by the WHO, Groningen, 30th October 2001.
142. Use of colloids in blood sparing techniques. At: Workshop on Volume replacement, San Francisco, 14th December 2001.
143. Artificial oxygen carriers: current status. At: Fortbildungsveranstaltung, Departement Anästhesie, Kantonsspital Basel, Basel, 21th January 2002.
144. Use of thrombelastogram to monitor coagulation. At: 22nd International Symposium on Intensive Care and Emergency Medicine, Brussels, 19–22 March 2002.
145. Hemodilution. At: 22nd International Symposium on Intensive Care and Emergency Medicine, Brussels, 19–22 March 2002.
146. Update on perflouorocarbon emulsions. At: 22nd International Symposium on Intensive Care and Emergency Medicine, Brussels, 19–22 March 2002.
147. Perioperative hemodilution: New aspects combining ANH and artificial oxygen carriers. At: 10th ESA Annual Meeting, Nice, 6–9 April 2002.
148. Oxygen carriers: Where do we stand? At: 3rd NATA Conference, Rome, 22–23 April 2002.
149. The role of perfluorocarbons: What are the benefits. At: A Hot Topic Conference of the Royal Colledge of Physicians of Edinburgh, Edinburgh, 9th May 2002.
150. Einsatzmöglichkeiten künstlicher Sauerstoffträger in der Herzchirurgie. At: Deutscher Anästhesiekongress DAK 2002, Nürnberg, 22–25 June 2002.
151. Wie schreibe ich eine wissenschaftliche Publikation? Fragestellung und Methodik: Worauf kommt es an. At: Deutscher Anästhesiekongress DAK 2002, Nürnberg, 22–25 June 2002.
152. Blood substitutes. At: 27th Congress of the International Society of Blood Transfusion, ISBT Congress 2002, Vancouver, 24–29 August 2002.
153. The role of perfluorocarbon emulsion in reducing allogeneic blood transfusions and augmenting tissue oxygenation. At: 35th Jahreskongress der Deutschen Gesellschaft für Transfusionsmedizin und Immunhämatologie DGTI, München, 3–6 September 2002.
154. Use of r-HuEPO in intensive care. At: Gemeinsame Jahresversammlung der Schweizerischen Gesellschaft für Intensivmedizin (SGI) und der Gesellschaft Schweizerischer Amts- und Spitalapotheker (GSASA), Lugano, 12–13 September 2002.

155. Crystalloids and colloids: an overview. At: First Meeting of the Society for the Advancement of Blood Transfusion SABM, Washington, 20–21 September 2002.
156. Blutsparende Massnahmen in der Chirurgie. At: Fortbildungsveranstaltung, Service d'Anesthésiologie, Hôpital Régional Yverdon, Yverdon, 2nd October 2002.
157. Oxygen therapeutics. At: 3rd General Meeting of the Global Collaboration for Blood Safety (GCBS) organized by the World Health Organization, Geneva, 5–8 November 2002.
158. Utilisation de l'érythropoïétine dans la période péri-opératoire. At: Colloque "epargne sanguine", Uvrier, 7th November 2002.
159. Artificial oxygen carriers: Current status and outlook. At: Grand Rounds, Department of Anesthesiology, Upstate Medical University, Syracuse NY, 4th December 2002.
160. Transfusionskriterien und Transfusionstrigger. At: Fortbildungsveranstaltung des Instituts für Anästhesiologie des Universitätsspital Zürich, Zürich, 22nd January 2003.
161. Transfusions sanguines: Indications en 2003. At: Colloque, Service d'Anesthésiologie, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, 5th March 2003.
162. Clinical experience with O₂ carriers: where do we stand? At: 23rd International Symposium on Intensive Care and Emergency Medicine, Brussels, 18–21 March 2003.
163. What is the status of artificial blood? At: 8th European Congress of the International Society of Blood Transfusion, ISBT Congress 2003, Istanbul, 4–8 May 2003.
164. Perioperative hämostasiologische Therapie. At: Fortbildungsveranstaltung der Klinik für Anästhesiologie, Universitätsklinikum Heidelberg, Heidelberg, 16th June 2003.
165. Indikationen zur Transfusion von Blut und Blutprodukten. At: Fortbildungsveranstaltung der Klinik für Anästhesiologie des Kantonsspital Aarau, Aarau, 23rd September 2003.
166. Le protoxyde d'azote doit-il être abandonné? At: Journée de Formation, Division d'Anesthésiologie, Hôpital Universitaire de Genève, Genève, 29th November 2003.
167. Fluorocarbone – Stand 2004. At: CAT-Symposium: Autologe Transfusion – Von der Euphorie zur Ratio, Nottwil, 16th January 2004.
168. Sang artificiel: le point en 2004. At: Journée de perfectionnement en médecine intensive, Hôpital Universitaire de Genève, Genève, 12th February 2004.
169. Indications for FFP and platelets. At: 24th International Symposium on Intensive Care and Emergency Medicine, Brussels, 30th March – 2nd April 2004.
170. Minimizing allogeneic blood transfusions. At: 13th World Congress of Anaesthesiologists, Paris, 18–23rd April 2004.
171. Blood transfusions in the ICU: Artificial O₂-carriers and erythroesis stimulating factors – is there a role in the ICU? At: Euroanaesthesia 2004, the Annual Congress of the ESA, Lisbon, 5–8 June 2004.
172. Treatment of critical O₂ delivery: Perfluorocarbon emulsions – an update. At: Euroanaesthesia 2004, the Annual Congress of the ESA, Lisbon, 5–8 June 2004.
173. Critical bleeding in the peri- and postoperative setting: Surgical bleeding: Scope of the problem. At: Euroanaesthesia 2004, the Annual Congress of the ESA, Lisbon, 5–8 June 2004.
174. Indications aux transfusions sanguines. At: Symposium d'Anesthésiologie, Service d'Anesthésiologie CHUV, Lausanne, 16th June 2004.

175. Utilisation des produits sanguins labiles. At: 6èmes journées de perfectionnement STS CRS / ASMT, Lausanne, 18–19 June 2004.
176. What's new in blood management 2004? European vs. U.S. perspective. At: Symposium 2004 of the Society for the Advancement of Blood Management, SABM, Miami FL, September 10-11, 2004.
177. Surgical bleeding – scope of the problem. At: Massive bleeding – the state of the art therapy, Zürich, 29th September 2004.
178. Transfusion triggers and artificial O2 carriers. At: Grand Rounds of the Heart Center, Duke University Medical Center, Durham, NC, 5th October 2004.
179. Allogeneic blood transfusions: Efficacy, risks and alternatives. At: Grand Rounds of the Department of Anesthesiology, Duke University Medical Center, Durham, NC, 6th October 2004.
180. Artificial O2 carriers: who benefits? At: ASA Congress, Las Vegas, NV, 23–27 October 2004.
181. Tolerance of anaemia: Compensatory mechanism and limitations. At: Annual Scientific Meeting in Anaesthesiology 2004 by the Hong Kong College of Anaesthesiologists, Hong Kong, 13–14 November 2004.
182. Perioperative fluid therapy: Crystalloids and colloids. At: Annual Scientific Meeting in Anaesthesiology 2004 by the Hong Kong College of Anaesthesiologists, Hong Kong, 13–14 November 2004.
183. Artificial oxygen carriers: Physiologic principles and clinical use. At: Annual Scientific Meeting in Anaesthesiology 2004 by the Hong Kong College of Anaesthesiologists, Hong Kong, 13–14 November 2004.
184. Surgical bleeding – scope of the problem. At: Massive bleeding – the state of the art therapy, Bussigny, 16th December 2004.
185. Risiken, Alternativen und Indikationen von Bluttransfusionen. At: 14. Anästhesiologischer Frühling/Graz, Universitätsklinik für Anästhesiologie und Intensivmedizin, Universitätsklinikum Graz, 10th March 2005.
186. Behandlung mit Blutprodukten. At: Intensivmedizinisches Symposium “Behandlung des septischen Patienten 2005”, Klinik für Intensivmedizin, Inselspital Bern, 6th April 2005.
187. Oxygen carriers. At: 6th Annual NATA Symposium on Transfusion Medicine and Alternatives, Prague, 18–19 April 2005.
188. Transfusions sanguines: Risques, efficacité, alternatives et indications. At: Formation post-gardée du Service d'Anesthésiologie, Centre Hospitalier Universitaire Vaudois, Lausanne, 12th May 2005.
189. Advances in blood substitutes. At: Euroanaesthesia 2005, the Annual Congress of the ESA, Vienna, 28–31 May 2005.
190. Update on transfusion. At: Euroanaesthesia 2005, the Annual Congress of the ESA, Vienna, 28–31 May 2005.
191. Perioperative organ protection with inhaled anesthetics. At: 61st Annual Meeting of the Canadian Anesthesiologist's Society, Vancouver, BC, 17–21 June 2005.
192. Jehovah's witness patient undergoing ascending aortic aneurism and mitral valve repair. At: 61st Annual Meeting of the Canadian Anesthesiologist's Society, Vancouver, BC, 17–21 June 2005.
193. Allogeneic blood transfusions: risks and alternatives. At: Research Seminar of the Center of Medical Research of the University of Zurich, Zurich, 1st July 2005.
194. Young vs. old RBC units: rheology, oxygen transport. At: Regional Congress Europe of the International Society of Blood Transfusion, ISBT, Athens, 3rd July 2005.

195. Blood, plasma and total body water in health and disease. At: The first International Conference "The Great Fluid Debate", London, 11–12 August 2005.
196. Fluid balance: A personal view from an anaesthesiologist / intensivist. At: The first International Conference "The Great Fluid Debate", London, 11–12 August 2005.
197. Synthetic colloids are the best plasma volume expanders. At: The first International Conference "The Great Fluid Debate", London, 11–12 August 2005.
198. Artificial oxygen carriers – What is new in 2005 and what can be expected in the future? At: First Congress of the Croatian Society for the Advancement of Bloodless Medicine, Zagreb, 22–25 September 2005.
199. Transfusion Strategies in Trauma: Current Options. At: Annual meeting of the European Society of Intensive Care Medicine, ESICM, Amsterdam, 25–28 September 2005.
200. Transfusion associated with improved outcome – where is the evidence? At: 1. Europäischer Kongress über blutsparende Massnahmen, Vienna, 5–7 October 2005.
201. Künstliche Sauerstoffträger – besser als Fremdblut? At: 1. Europäischer Kongress über blutsparende Massnahmen, Vienna, 5–7 October 2005.
202. Transfusionstrigger in der akuten Anämie: at: Gemeinsame Fortbildungsveranstaltung der Kliniken für Chirurgische Intensivmedizin und Hämatologie des UniversitätsSpital Zürich, Zürich, 12th October 2005.
203. Und wenn es dann doch einmal blutet! Wann transfundieren? At: Advanced Bleeding Care, Weimar, 22nd November 2005.
204. Transfusionstherapie bei Polytrauma: at: 2. Aachener Anästhesiekongress der Kliniken der Anästhesie der Krankenhäuser Aachen – Eschweiler - Würselen, Aachen, 25–26 November 2005.
205. Efficacy of red blood cell transfusion. At: 2nd Asian NATA Symposium on Transfusion Medicine and Alternatives, Hong Kong, 14–15 January 2006.
206. Acute Normovolemic Hemodilution. At: 2nd Asian NATA Symposium on Transfusion Medicine and Alternatives, Hong Kong, January 14–15 January 2006.
207. Management der kritischen Blutung – was kann der Anästhesist leisten? At: 3. Petersberger Forum Intensivmedizin – Führungskräfte Congress 2006, Königswinter - Bonn, 1–4 February 2006.
208. Are blood transfusions safe? At: 26nd International Symposium on Intensive Care and Emergency Medicine, Brussels, 21–24 March 2006.
209. Artificial oxygen carriers: Clinical use. At: 26nd International Symposium on Intensive Care and Emergency Medicine, Brussels, 21–24 March 2006.
210. Volumenersatz beim Polytrauma: Wie kann die Koagulopathie verhindert werden? At: Trauma-Management beyond ATLS®, Zürich, 5th April 2006.
211. Transfusion and improved outcome. At: ARCBS Course in Transfusion Medicine, Sydney, 10–12 May 2006.
212. Three pillars in blood conservation. At: ARCBS Course in Transfusion Medicine, Sydney, 10–12 May 2006.
213. Targeted oxygen therapy – better than allogeneic blood? At: ARCBS Course in Transfusion Medicine, Sydney, 10–12 May 2006.
214. Transfusion therapy 2006 and beyond. At: Toggenburger Anästhesie Repetitorium, Wildhaus, 20th May 2006.

215. ABC: The European medical education initiative on advanced bleeding care. At: Euroanaesthesia 2006, the Annual Congress of the ESA, Madrid, 3–6 June 2006.
216. Update on alternative oxygen carriers. At: Euroanaesthesia 2006, the Annual Congress of the ESA, Madrid, 3–6 June 2006.
217. Coagulation management: Effect of blood transfusions. At: Coagulation Course, Amsterdam, 15–16 June 2006.
218. Mögliche Ansätze frühzeitiger Therapie mit rFVIIa. At: 4. Kongress der Arbeitsgemeinschaft für Notfallmedizin, Graz, 22–24 June 2006.
219. Transfusionsstrategien: Aus dem Bauch heraus oder gibt es genug harte Daten? At: Fortbildungsveranstaltung des HELIOS Klinikum Erfurt, Erfurt, 28th June 2006.
220. Evidenzbasierte Transfusionstrigger. At: Fortbildungsveranstaltung des Instituts für Anästhesiologie, UniversitätsSpital Zürich, Zürich, 5th July 2006.
221. Bluttransfusion: von Risiken und Einsparpotenzial zu perioperativen Konzepten. At: „fareWELLcome“-Symposium aus Anlass des Abschieds von Prof. T. Pasch und des Stellenantritts von Prof. D.R. Spahn, UniversitätsSpital Zürich, Zürich, 25th October 2006.
222. Evidence based perioperative transfusion triggers. At: Weekly Surgical & Gastroenterological Grand Rounds, UniversitätsSpital Zürich, Klinik für Viszeral- und Transplantationschirurgie, Zürich, 31th October 2006.
223. Under and Over Transfusion: Current Practice today. At: Postgraduate Assembly of the New York Society of Anesthesiologists (PGA), New York, 8–12 December 2006.
224. Restriktive Transfusionsstrategie beim kritisch kranken Patienten. At: Deutscher Anästhesiekongress (DAK), Hamburg, 5th May 2007.
225. Abbreviated recommendations on the use of recombinant activated factor VIIa. At: Euroanaesthesia 2007, the Annual Congress of the ESA, Munich, 9–12 June 2007.
226. Coagulation strategies, triggers and targets: Fluids and blood products. At: Euroanaesthesia 2007, the Annual Congress of the ESA, Munich, 9–12 June 2007.
227. Management of perioperative bleeding complication. Allogeneic blood products: Risk and benefits. At: 2nd International Coagulation Course, Vienna, 22–23 June 2007.
228. Evidenz basierte Transfusionstrigger. At: Fortbildungsveranstaltung des 95. Luzerner Anästhesie Forums, Institut für Anästhesie, Chirurgische Intensivmedizin und Schmerztherapie, Kantonsspital Luzern, 28th June 2007.
229. Bluttransfusionen: Von Risiko und Einsparpotenzial zu perioperativen Konzepten. At: Fortbildungsveranstaltung des Kantonsspital Schaffhausen, Schaffhausen, 4th June 2007.
230. Treatment of lifethreatening bleeding. At: XXIst Congress of the International Society of Thrombosis and Haemostasis, Geneva, Switzerland, 8th July 2007.
231. Management of Severe Coagulopathy. At: 4th Asian NATA Meeting in Collaboration with the Chinese Society of Anesthesiology, Beijing, 28–29 July 2007.
232. Restrictive Fluid Therapy Improves Postoperative Outcome; Con. At: 4th Asian NATA Meeting in Collaboration with the Chinese Society of Anesthesiology, Beijing, 28–29 July 2007.
233. Fremdbluttransfusionen: Risiken, Alternativen und Indikationen at: Fortbildungsveranstaltung des Kantonsspital St. Gallen, St. Gallen, 28th August 2007.

234. Blood transfusions and outcome. At: International Consensus Conference on Transfusion and Outcome, Cape Cod, 30th August – 1st September 2007.
235. Coagulopathy and Strategies to Achieve Hemostasis: Physiological Aspects. At: SABM Meeting, Hollywood, 5–8 September 2007.
236. Gibt es 2007. noch Indikationen für die Transfusion von Erythrozyten-Konzentraten? Die Evidenz. At: „Blut 3“ – Updates Gerinnung und Transfusion, UniversitätsSpital Zürich, 25th October 2007.
237. Balanced Volume Replacement – A new concept, a lot to win: An integrated and goal-directed concept of balanced crystalloid and colloid solutions. At: Interlaken an der Jahrestagung der Schweizerischen Gesellschaft für Anästhesiologie und Reanimation, 1–3 November 2007.
238. Indikation zur Transfusion. At: 2. Klosterser Kolloquium Perioperatives Gerinnungsmanagement, Klosters, 23–24 November 2007.
239. Transfusionsrisiken. At: 39. Münsteraner Anästhesie-Symposium „Herz und Hirn“, Münster, 29th November – 1st December 2007.
240. Update on risks and benefits of blood transfusions. At: Fortbildungsveranstaltung des Instituts für Anästhesiologie, UniversitätsSpital Zürich, Zürich, 5th December 2007.
241. Abbreviated recommendations on the use of recombinant activated factor VIIa. At: Fortbildungsveranstaltung der Klinik für Anästhesiologie II – Operative Intensivmedizin, Universitätsmedizin, Georg-August-Universität Göttingen, 31th January 2008.
242. Allogeneic blood products: Risks and benefits. At: 3rd International Coagulation Course, Management of peri-operative bleeding complications, Wien, 11th April 2008.
243. Präoperative Anämie – Risiko und Behandlung. At: 3. Oberösterreichisches Anästhesie-Symposium, Präoperatives Management kritisch kranker Patienten, AKH Linz, 12th April 2008.
244. Transfuser du PFC et / ou des plaquettes: un geste anodin? At: 2ème Symposium sedunois Coagulation et Transfusion, Hôpital de Sion, 21th May 2008.
245. Transfusion: indications et dangers: At: Première rencontre de Montreux Gestion périopératoire de la coagulation, Grand Hôtel Swiss Majestic Montreux, 17–18 October 2008.
246. Patient Blood Management – Improving patient outcomes whilst reducing costs. At: WA Patient Blood Management Program Visiting Faculty, King Edward Memorial Hospital for Women, Department of Anaesthesia, Perth, 4th November 2008.
247. Patient Blood Management – Improving patient outcomes whilst reducing costs. At: WA Patient Blood Management Program Visiting Faculty, Sir Charles Gairdner Hospital (SCGH) Grand Round, Perth, 4th November 2008.
248. Patient Blood Management – Improving patient outcomes whilst reducing costs. At: WA Patient Blood Management Program Visiting Faculty, PathWest Haematology meeting, Haematology Department, Perth, 4th November 2008.
249. Patient Blood Management – Improving patient outcomes whilst reducing costs. At: WA Patient Blood Management Program Visiting Faculty, Fremantle Hospital and Health Service (FHHS) Department of Anaesthesia, Perth, 4th November 2008.
250. Patient Blood Management – Improving patient outcomes whilst reducing costs. At: WA Patient Blood Management Program Visiting Faculty, Perth, 4th November 2008.
251. Patient Blood Management – Improving patient outcomes whilst reducing costs. At: WA Patient Blood Management Program Visiting Faculty, Princess Margaret Hospital (PMH) for Children, Department of Anaesthesia, Perth, 5th November 2008.

252. Patient Blood Management – Improving patient outcomes whilst reducing costs. At: WA Patient Blood Management Program Visiting Faculty, Department of Health Royal Street, East Perth, 5th November 2008.
253. Bluttransfusionen, Indikationen, Risiken. At: 3. Klosterser Kolloquium Perioperatives Gerinnungsmanagement, Klosters, 14–15 November 2008.
254. Lecture – Transfusion and Outcome – an urgent need for change. At: Annual Meeting of Slovak haematology society and Slovak society of anaesthesiology and intensive care, Rajcke Teplice, 13th December 2008.
255. Bluttransfusionen und Outcome. At: Kölner Anästhesiekolloquien, Winterhalbjahr 2008. / 2009, Köln, 13th January 2009.
256. Damage Control Resuscitation par les anesthésistes et les produits sanguins? At: Symposium Prise en charge du saignement peropératoire et du polytraumatisé, CHUV, Lausanne, 14th January 2009.
257. Rivaroxaban in der Anästhesie - Empfehlungen einer Schweizer Expertengruppe. At: 53rd Annual Meeting of the Society of Thrombosis and Haemostasis Research, Hofburg, Vienna, 5th February 2009.
258. Transfusions- und Gerinnungsmanagement: Neue Optionen. At: Berner Forum für Intensivmedizin, Bern, 12th March 2009.
259. Adverse effects of blood transfusions – should usage be optimized? At: Danish Society of Thrombosis and Haemostasis annual meeting. The Bleeding Future? Copenhagen, 17th April 2009.
260. Transfusion outcomes – preliminary results from the 1st International Consensus Conference on Transfusion Outcomes (ICCTO). At: WA PBM Anaemia/Iron Deficiency Detection, Evaluation and Management Program Workshop, Perth, 28–29 April 2009.
261. Should we be concerned about blood transfusions? At: National Iron Deficiency Anaemia Meeting, Sydney, 30th April – 1st May 2009.
262. Goal-directed Therapy – welche Ziele sind geeignet? At: Deutscher Anästhesiekongress 2009 (DAC), Leipzig, 10th May 2009.
263. Patient blood management: The consequence of side effects and costs of blood transfusions. At: 3ième Symposium Sedunois “Coagulation et Transfusion, Sion, 13th May 2009.
264. Do the benefits of transfusion outweigh its risks? At: European Society of Anaesthesiology, Euroanaesthesia 2009, Milan, 7th June 2009.
265. Should we be concerned about blood transfusion? At: European Society of Anaesthesiology, Euroanaesthesia 2009, Milan, 7th June 2009.
266. Is there evidence for giving coagulation factors in bleeding? At: European Society of Anaesthesiology, Euroanaesthesia 2009, Milan, 7th June 2009.
267. Patient Blood Management: an urgent need for a change. At: Weekly Surgical and Gastroenterological Grand Rounds, UniversitätsSpital Zürich, 23rd June 2009.
268. Perioperatives Gerinnungsmanagement. At: HIT Vortrag, Blutspende Zürich, 7th July 2009.
269. Patient Blood Management: an urgent need for a change. At: Heart Surgery Grand Rounds, UniversitätsSpital Zürich, 8th July 2009.
270. Welche präoperativen Abklärungen bei wem? At: Prevention Summit: Medizinische Prävention in der Praxis, Klinik für Kardiologie, UniversitätsSpital Zürich, 20th August 2009.

271. Bluttransfusionen – haben wir Anlass zur Sorge? At: Jahrestagung der Österreichischen Gesellschaft für Anästhesiologie, Reanimation und Intensivmedizin, Tagungszentrum Schönbrunn, Wien, 17th September 2009.
272. RBC Transfusion: hazards and indications. At: Deuxième rencontre de Lausanne “Perioperative Coagulation Management”, Hôtel Beau Rivage Palace, Lausanne, 23rd October 2009.
273. Refresher Course VI: Blood saving strategies and transfusion thresholds. At: Jahreskongress SGAR, Casino Kursaal, Interlaken, 31th October 2009.
274. Alternatives to transfusions. At: 15. Fortbildungskurs der SGH (Schweizerische Gesellschaft für Hämatologie, Zürich, 31th October 2009.
275. Patient Blood Management“ at: Interdisziplinäre Fortbildung Klinik für Chirurgie, Kantonsspital Aarau, 2nd November 2009.
276. Rationelle Transfusionskonzepte. At: 11. Chiemgauer Intensivtag „Aktuelles aus der Intensivmedizin für Ärzte und Pflegekräfte“, Klinikum Traunstein, 14th November 2009.
277. Bluttransfusionen, Indikationen, Risiken. At: 4. Klosterser Kolloquium Perioperatives Gerinnungsmanagement, Klosters, 27th November 2009.
278. Vorbereitung der präoperativen anämischen Patienten auf die Operation. At: 3. Iron Academy Symposium 2010, Inselspital Bern, 21th January 2010.
279. Role of fibrinogen in coagulation. At: Perioperative Bleeding Management Symposium, Teheran, 26th January 2010.
280. Präoperative Abklärung. At: 11.Symposium Vereinigung Zürcher Internisten, Universität Zürich, 28th January 2010.
281. Bluttransfusionen: Outcome und Indikationen. At: 20. Symposium Intensivmedizin und Intensivpflege, Bremen, 19th February 2010.
282. The high-risk surgical patient: Optimizing hemodynamic management. Limiting blood transfusions. At: 30th Anniversary International Symposium on Intensive Care and Emergency Medicine, Brüssel, 10th March 2010.
283. Transfusion: In coronary artery disease. At: 30th Anniversary International Symposium on Intensive Care and Emergency Medicine, Brüssel, 12th March 2010.
284. Patient blood Management. At: Blockkurs 1: Anästhesie Schweiz, UniversitätsSpital Basel, 16th March 2010.
285. Alerting results of the International Consensus Conference on Transfusion and Outcome (ICCTO), Phoenix 2009. At: The Need for New Products, Concepts and Algorithms in Patient Blood Management, University of California, San Diego, 22–23 March 2010.
286. Problems with transfusion – 2: From vesiculation to thrombotic events. At: The Need for New Products, Concepts and Algorithms in Patient Blood Management, University of California, San Diego, 22–23 March 2010.
287. An integrated and goal-directed concept of balanced crystalloid and colloid solutions. At: 26th Annual Scientific Conference, Egyptian Anesthesia 2010, Kairo, 30th March – 2nd April 2010.
288. What guidelines mean for cardiac surgery: A Swiss case study. At: The 11th Annual NATA-Symposium, Barcelona, 8th April 2010.
289. Algorithmes face à une hémorragie grave (algorithmes Zurich). At: 4ième Symposium Sedunois “Coagulation et Transfusion”, Sion, 26th May 2010.

290. Transfusion of RBC: outcome and indications. At: European Society of Anaesthesiology, Euroanaesthesia 2010, Helsinki, 14th June 2010.
291. Patient Blood Management – Indikation, Risiken und Outcomerelevanz von Transfusionen. At: Deutscher Anästhesiekongress 2010, Nürnberg, 20th June 2010.
292. Perioperatives Risiko bei älteren Patientinnen und Patienten. At: Jahreskongress der gynécologie suisse, SGGG, Interlaken, 26th June 2010.
293. Critical bleeding – overview of concepts: Physiology of massive bleeding. At: International Symposium on Critical Bleeding Copenhagen, 6–7 September 2010.
294. Monitoring of haemostasis: VHA (ROTEM). At: International Symposium on Critical Bleeding Copenhagen, 6–7 September 2010.
295. Blood products and critical bleeding – what is the evidence?: RBC transfusion. At: International Symposium on Critical Bleeding Copenhagen, 6–7 September 2010.
296. Resuscitation in Critical Bleeding – How do I do it! At: International Symposium on Critical Bleeding Copenhagen, 6–7 September 2010.
297. Transfusion of blood related products: pro-con. At: Symposium Perioperative bleeding and Trauma», CHUV, Lausanne, 10th September 2010.
298. The risk of blood transfusion. At: EACTS: 24th Annual Meeting, Geneva, 13th September 2010.
299. Patient Blood Management. At: Fortbildungsveranstaltung des Universitätsklinikum Magdeburg A.ö.R. Institut für Transfusionsmedizin und Immunhämatologie mit Blutbank, Magdeburg, 15th September 2010.
300. Indikation, Risiken und Outcomerelevanz von Transfusionen. At: HAI 2010, Berlin, 16th September 2010.
301. Präoperative Anämie – Management und die vermeidbare Transfusion. At: HAI 2010, Berlin, 16th September 2010.
302. Bluttransfusion: Outcome und Indikation. At: AIC 2010, Graz, 17th September 2010.
303. Transfusion de produits sanguins: Risques, conséquences et coûts associés. At: Symposium ROTEM®, Paris, 21th September 2010.
304. Intravenous Fluids: Getting The Balance Right. At: Lunch Presentation, Kuala Lumpur, Malaysia, 25th September 2010.
305. Intravenous Fluids: Getting The Balance Right. At: Making Sense of Fluid Therapy – A Guide to Perioperative & Intensive Care Management Workshop, Kuching, Malaysia, 26th September 2010.
306. Future of Balanced Colloids. At: Balanced Fluid Therapy Conference, Mumbai, India, 27th September 2010
307. Balanced Fluid Therapy. At: Balanced Fluid Therapy Conference, Kolkata, India, 28th September 2010.
308. Balanced Fluid Therapy. At: Balanced Fluid Therapy Conference, New Delhi, India, 29th September 2010.
309. Outcome of Transfusion or the Urgent Need to Implement Patient Blood Management. At: ASA Meeting, San Diego, USA, 19th October 2010.
310. Concept of patient blood management. At: Jahreskongress SGAR, Beaulieu, Lausanne, 5th November 2010.

311. Bluttransfusionen, Indikationen, Risiken. At: 5. Klosterser Kolloquium Perioperatives Gerinnungsmanagement, Klosters, 19–20 November 2010.
312. Chirurgia senza sangue: sicurezza e trasfusioni in chirurgia. At: 95° Congresso Nazionale della Società Italiana di Ortopedia e Traumatologia (SIOT), Roma, 23rd November 2010.
313. An integrated and goal-directed concept of balanced crystalloid and colloid solutions. At: Grand Rounds, University Hospital of Brussels (UZ Brussel), 24th November 2010.
314. Indikation, Risiken und Outcomerelevanz von Transfusionen – gibt es Alternativen? At: 21. Symposium Intensivmedizin und Intensivpflege Bremen, Bremen, 16th February 2011.
315. An integrated and goal-directed concept of balanced crystalloid and colloid solutions. At: 17th ASEAN Congress of Anesthesiologists, Manila, Philippines, 25th February 2011.
316. RBC Transfusion and Outcome or Urgency to implement Patient Blood Management. At: 17th ASEAN Congress of Anesthesiologists, Manila, Philippines, 26th February 2011.
317. Patient Blood Management (PBM) – Warum und mit welchen Ergebnissen? At: Führungskräftekongress Interdisziplinäre Intensivmedizin, Sanssouci Berlin – Potsdam, Germany, 3rd March 2011.
318. Allgemeines Management des Traumapatienten: Update der europäischen Guidelines. At: Seminar-kongress Interdisziplinäre Intensivmedizin, Garmisch-Patenkirchen, Germany, 7th March 2011.
319. Patient Blood Management – warum, wie? At: Symposium: Patient Blood Management, St. Pölten, Austria, 12th March 2011.
320. Fluids and blood products in trauma: Which one is the ideal replacement? At: XXIX Colombian Congress of Anesthesiology, Medellin, Colombia, 18–20 March 2011.
321. How to diagnose and treat coagulopathy in trauma patients? At: XXIX Colombian Congress of Anesthesiology, Medellin, Colombia, 18–20 March 2011.
322. Trauma Management. At: Congresso da Sociedade Portuguesa de Anestesiologia, Lisbon, Portugal, 24th March 2011.
323. Blood bank products in perioperative bleeding. At: Interdisciplinary Meeting on the Management of Perioperative Bleeding (IMO 2011) of the Austrian Society of Anesthesiology, Reanimation and Intensive Care Medicine, Frankfurt, Germany, 1–2 April 2011
324. Specific goal-directed coagulation management of the bleeding patient. At: 6th International Congress on Intensive Care Medicine, Teheran, Iran, 27–29 April 2011.
325. Practical aspects of bleeding management with fibrinogen. At: 6th International Congress on Intensive Care Medicine, Teheran, Iran, 27–29 April 2011.
326. Indikation, Risiken und Outcomerelevanz von Transfusionen – gibt es Alternativen? At: 58. Deutscher Anästhesiekongress, DAC, Hamburg, 16th May 2011.
327. Patient Blood Management in 2011. At: 5ième Symposium Sedunois “Coagulation et Transfusion”, Sion, 25th May 2011.
328. Bluttransfusionen und Outcome oder die Dringlichkeit Patient Blood Management einzuführen. At: Fortbildungsveranstaltung der Klinik für Hämatologie des UniversitätsSpital Zürich, Zurich, 26th May 2011.
329. Bluttransfusionen und Outcome oder die Dringlichkeit Patient Blood Management einzuführen. At: Anästhesiologisches Kolloquium der Klinik für Anästhesiologie, Klinikum der Universität München, Munich, 7th June 2011.

330. Patient Blood Management in der Orthopädie: warum ist das notwendig? At: Symposium on „Patient Blood Management in der Orthopädie“, Uniklinik Balgrist, Zurich, 9th June 2011.
331. The polytraumatised patient in the ICU: Transfusion and coagulation. At: ESA, European Society of Anaesthesiology, Euroanaesthesia 2011, Amsterdam, Holland, 13th June 2011.
332. Indications, Risks and Outcome – Relevance of Transfusion. At: ESA, European Society of Anaesthesiology, Euroanaesthesia 2011, Amsterdam, Holland, 13th June 2011.
333. Richtige Indikationsstellung und mögliche Alternativen zur Verabreichung von Erythrozytenkonzentrat im OP und auf Normalstationen. At: Fortbildungsveranstaltung, Krankenhaus der Barmherzigen Schwestern Ried/Innkreis, Ried im Innkreis, Austria, 21st June 2011.
334. Patient Blood Management. At: 1. IQUO-Kongress - Uro-Onkologische Qualitätsversorgung in der Praxis sichern, Berlin, Germany, 1st July 2011.
335. Einsatz labiler Blutprodukte. At: 1. Klosterser Basiskurs, Perioperatives Gerinnungsmanagement, Klosters, Switzerland, 2nd July 2011.
336. Bluttransfusionen und Outcome oder die Dringlichkeit Patient Blood Management einzuführen. At: Interne Fortbildungsveranstaltung für Anästhesisten im Kantonsspital Graubünden, Chur, Switzerland, 8th July 2011.
337. Bluttransfusionen und Outcome oder die Dringlichkeit Patient Blood Management einzuführen. At: Interne Fortbildungsveranstaltung für Chirurgen im Kantonsspital Graubünden, Chur, Switzerland, 8th July 2011.
338. Transfusion und Outcome oder die Dringlichkeit Patient Blood Management einzuführen. At: 1. Bonner Anästhesie-Forum, Universitätsklinikum Bonn, Germany, 14th September 2011.
339. EK-Transfusion und Outcome oder die Dringlichkeit, Patient Blood Management einzuführen. At: Fortbildungsveranstaltung im Städtischen Klinikum Solingen, Germany, 15th September 2011.
340. Streitgespräch: Differenzierte Therapie mit labilen Blutprodukten und Gerinnungskonzentrat Pro-contra. At: 5. Gerinnungs-Kolloquium Interlaken, Spital Interlaken, Switzerland, 21st September 2011.
341. Bluttransfusionen vermeiden, um den Outcome zu verbessern: Warum wir Patient Blood Management einführen müssen! At: Fortbildungsveranstaltung, Paracelsus Medizinische Privatuniversität, Salzburg, Austria, 3rd October 2011.
342. EK, PK, TK: Patient-Blood-Management is urgent! At: 41. Bayerische Anästhesietage, Garmisch-Partenkirchen, Germany, 8th October 2011.
343. Patient Blood Management (PBM): State of the Concept. At: ASA Annual Meeting, Chicago, USA, 18th October 2011.
344. How does Patient Blood Management improve the patient's recovery? At: Jahreskongress SGAR, Interlaken, Schweiz, 27th October 2011.
345. Tracheostomy in the ICU? At: The 88th Annual Scientific Meeting of The Korean Society of Anesthesiologists, Seoul, Korea, 3–5 November 2011.
346. Optimizing outcomes through transfusion protocols. At: 16th Brazilian congress of intensive care medicine, Porto Alegre, Brazil, 9–12 November 2011.
347. Coagulation disorder in massive bleeding: What are the alternatives? At: 16th Brazilian congress of intensive care medicine, Porto Alegre, Brazil, November , 9–12 November 2011.
348. New oral anticoagulants. At: 16th Brazilian congress of intensive care medicine, Porto Alegre, Brazil, 9–12 November 2011.

349. An integrated and goal-directed concept of balanced crystalloid and colloid solutions. At: Symposium on „Balanced crystalloid and colloid solutions“, Departement of Anesthesiology, University Hospital Leuven, Belgium, 15th November 2011.
350. Bluttransfusionen, Indikationen, Risiken. At: 6. Klosterser Kolloquium Perioperatives Gerinnungsmanagement, Klosters, 18–19 November 2011.
351. Blutsparende Massnahmen: - ein Update -. At: Fortbildungsveranstaltung, Klinik für Anästhesiologie und Operative Intensivmedizin, Universitätsklinikum Schleswig-Holstein, Kiel, Germany, 23rd November 2011.
352. Outcome of Transfusion – Patient Blood Management 2012. At: Grand Rounds, CHUV, Lausanne, Switzerland, 2nd February 2012.
353. Wann sollte die perioperative Thromboseprophylaxe beginnen? At: 56th Annual Meeting of the Society of Thrombosis and Hemostasis Research, Clinical Research – Bridge to the Future, St. Gallen, Switzerland, 3rd February 2012.
354. Outcome of Transfusion – Patient Blood Management 2012. At: Fortbildungsveranstaltung der Klinik für Anästhesiologie der Technischen Universität München, Klinikum rechts der Isar, Munich, Germany, 8th March 2012.
355. Bluttransfusionen vermeiden, um den Outcome zu verbessern: Warum wir Patient Blood Management einführen müssen! At: Fortbildungsveranstaltung Gynäkologie (Frauen und Kopfklinik), LKH Innsbruck-Universitätsklinik, Innsbruck, Austria, 12th March 2012.
356. Bluttransfusionen – ein sicherer Ausweg? At: Wintertagung der Österreichischen Gesellschaft für Nephrologie (ÖGN), Fuschl, Austria, 15th March 2012.
357. Blood transfusion results in adverse outcome – the scientific evidence. At: Association of Veterinary Anaesthetists (AVA) Spring Meeting 2012, Davos, Switzerland, 22nd March 2012.
358. Patient Blood Management. At: 15th WFSA World Congress of Anaesthesiologists, Buenos Aires, Argentina, 25th March 2012.
359. The Physiology and Pathophysiology of Perioperative Hemostasis. At: 34th Annual SCA Meeting & Workshops, Boston, USA, 29th April 2012.
360. Outcome von Transfusionen. At: 59. Jahrestagung der Deutschen Gesellschaft für Anästhesiologie und Intensivmedizin (DAC), Leipzig, Germany, 6th May 2012.
361. Transfusionsrichtlinien 2012. At: Monatliche Fortbildungsreihe des Instituts für Anästhesiologie, UniversitätsSpital Zürich, Zurich, Switzerland, 9th May 2012.
362. EK – Transfusion und Outcome oder die Dringlichkeit, Patient Blood Management einzuführen. At: Anästhesiologisches Kolloquium, Klinikum Leverkusen, Germany, 15th May 2012.
363. Patient Blood Management in 2012. At: 6ième Symposium Sedunois “Coagulation et Transfusion”, Sion, 23rd May 2012.
364. Blood transfusion – well known but also well to the patient? At: 17th Congress of EHA, Amsterdam, 14th June 2012.
365. Einflussmöglichkeiten des Anästhesisten auf den Operationserfolg. At: Fortbildungsveranstaltung „Brennpunkt Urologie“, Horgen, Switzerland, June 15th 2012.
366. Patient Blood Management. At: 8. Norddeutsches Kolloquium „Perioperatives Gerinnungsmanagement, Höpen, Schneverdingen, Germany, 15th June 2012.

367. Blutsparende Massnahmen. At: Fortbildungsveranstaltung der Kliniken für Anästhesiologie und Intensivmedizin der Krankenhäuser Aachen, Düren, Eschweiler, Geilenkirchen, Heinsberg, Jülich und Würselen, Universitätsklinikum Aachen, Germany, 21st June 2012.
368. Einsatz von labilen Blutprodukten. At: 2. Klosterser Basiskurs, Perioperatives Gerinnungsmanagement, Klosters, Switzerland, 29th June 2012.
369. Patient Blood Management. At: Fortbildungsprogramm 2012 der Klinik für Anästhesiologie, Intensivmedizin und Schmerztherapie, Klinikum der Johann Wolfgang Goethe-Universität, Frankfurt am Main, Germany, 9th July 2012.
370. Severe bleeding in surgical patients: the role of fibrinogen in replacement therapy. At: World Federation of Hemophilia 2012 World Congress, Paris, France, 11th July 2012.
371. Präoperative Anämie – Welche Rolle habe ich als Hausarzt? At: SGAM Congress, Lausanne, Switzerland, 30th August 2012.
372. Outcome of Transfusion – Patient Blood Management 2012. At: 45. Jahreskongress der deutschen Gesellschaft für Transfusionsmedizin & Immunhämatologie e.V. (DGTI), Graz, Austria, 12th September 2012.
373. Fluid Therapy in Sepsis. At: Jahrestagung der Österreichischen Gesellschaft für Anästhesiologie, Reanimation und Intensivmedizin, AIC 2012, Klagenfurt, Austria, 14th September 2012.
374. Goal-directed, factor based coagulation management in trauma. At: 3rd Symposium “Massive bleeding. New look on known problems.”, Warsaw, Poland, 15th September 2012.
375. Patient Blood Management – Vermeidung von Fremdblutgabe. At: Fortbildungsveranstaltung Bundesverband Deutscher Krankenhausapotheker e.V., Landesverband Baden-Württemberg, Stuttgart, Germany, 26th September 2012.
376. Wie Bluttransfusionen überflüssig werden! Die Bluttransfusion ist kein Ausweg bei Anämie. At: Fortbildungsveranstaltung der klinischen Abteilung für Nephrologie und Hämodialyse, Med. Univ. Klinik Graz, Austria, 23rd October 2012.
377. Outcome of Transfusion: An urgent need for change. At: 1st Asia-Pacific ROTEM® Meeting, Bangkok, Thailand, 25th October 2012.
378. Coagulation management in severe trauma. At: 1st Asia-Pacific ROTEM® Meeting, Bangkok, Thailand, 25th October 2012.
379. Patient Blood Management – aus der Sicht des Anästhesisten und Intensivmediziners. At: Allgäuer Forum der Anästhesie und Intensivmedizin, Klinikum Memmingen, Germany, 30th October 2012.
380. Fibrinogen and algorithms during major bleeding. At: II Semana: del uso racional de la sangre, progresos en medicina y cirugía, Unidad de Medicina y Cirugía Sin Sangre de Centro Médico Teknon, Barcelona, Spain, 7th November 2012.
381. No volume – hypovolemic resuscitation. At: 8th Innsbruck Winter Symposium for Coagulation: “Infusion, Transfusion and Coagulation Management in Massive Bleeding”, Innsbruck, Austria, 9th November 2012.
382. SAFE-UISEP-6S: Dürfen wir Kolloide überhaupt noch brauchen? At: Monatliche Fortbildungsreihe des Instituts für Anästhesiologie, UniversitätsSpital Zürich, Zurich, Switzerland, 14th November 2012.
383. European Trauma Treatment Guidelines: Update 2012. At: Jubiläumstagung SGAR – SGI 2012, Congress Center Basel, Switzerland, 15–17 November 2012.

384. Empfehlungen der Expertengruppe Rivaroxaban and Anesthesiology». At: 13. Unionstagung der Schweizerischen Gesellschaften für Gefässkrankheiten, Kursaal Bern, Switzerland, 21st November 2012.
385. Bluttransfusionen, Indikationen, Risiken. At: 7. Klosterser Kolloquium Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Switzerland, 30th November 2012.
386. Perioperative Betreuung bei TEP (Patient Blood Management). At: Jahrestagung ÖGO-BVdO, Tagungszentrum Schloss Schönbrunn, Vienna, Austria, 8th December 2012.
387. Einsatz labiler Blutprodukte. At: ROTEM Workshop, UniversitätsSpital Zürich, Zurich, Switzerland, 14th Decenber 2012.
388. Risk and benefit of FFP and RBC transfusions. At: 1st Regional Coagulation Meeting, Vienna, Austria, 24th January 2013.
389. Outcome of transfusion with a special focus on cancer patients and the need to implement Patient Blood Management. At: Special lecture, National Cancer Center, Seoul, Korea, 26th February 2013.
390. Outcome of transfusion with a special focus on orthopedic patients and the need to implement Patient Blood Management. At: Special lecture, Korea University Medical Center, Seoul, Korea, 26th February 2013.
391. To guide or not to guide concentrates? At: Reunião sobre Racionalização da Transfusão, Hotel Onyria Marinha, Cascais, Portugal, 2nd March 2013.
392. Outcome of RBC transfusions: An urgent need to introduce Patient Blood Management. At: Manejo do sangramento perioperatório, Rio Othon Palace, Rio de Janeiro, Brasil, 8th March 2013.
393. Indication and outcome of FFP and platelet trasfusions. At: Manejo do sangramento perioperatório, Rio Othon Palace, Rio de Janeiro, Brasil, 8th March 2013.
394. Role of fibrinogen and factor concentrates in massive bleeding. At: Manejo do sangramento perioperatório, Rio Othon Palace, Rio de Janeiro, Brasil, 8th March 2013.
395. Blutsparende Massnahmen. At: Westdeutsche Anästhesietage 2013, RuhrCongress Bochum, Germany, 16th March 2013.
396. Welche Bedeutung haben Bluttransfusionen auf den Outcome? Die Notwendigkeit „Patient Blood Management“ einzuführen. At: Fortbildungsveranstaltung des Klinikums Ingoldstadt, Ingoldstadt, Germany, 10th April 2013.
397. Was spricht für den Einsatz von ESA beim Tumorpatienten? At: Frühjahrstagung, Österreichische Gesellschaft für Hämatologie & Onkologie, Linz, Austria, 18th April 2013.
398. Trauma Induced Coagulopathy. At: Blood & Beyond: Issues in Bleeding and Coagulation, Perioperative Blood Management Services, Dalhousie University Department of Anesthesia, Pain Management and Perioperative Medicine, Halifax, Canada, 20th April 2013.
399. Volume Resuscitation in Hemorrhagic Shock. At: Blood & Beyond: Issues in Bleeding and Coagulation, Perioperative Blood Management Services, Dalhousie University Department of Anesthesia, Pain Management and Perioperative Medicine, Halifax, Canada, 20th April 2013.
400. Nouvelles directives européennes de prise en charge du patient polytraumatisé. At: 7ème Symposium Sédunois „Coagulation et transfusion“, Aula de l'Hôpital de Sion, Sion, Switzerland, 1st May 2013.
401. Präoperative Anämie – welche Rolle habe ich als Hausarzt? At: Innere Medizin – Update Refresher 2013, Technopark Zürich, Switzerland, 10th May 2013.

402. Helfen oder schaden wir mit Bluttransfusionen? Die Dringlichkeit Patient Blood Management einzuführen. At: Fortbildung Anästhesie und Intensivmedizin, Kantonsspital Schaffhausen, Switzerland, 22nd May 2013.
403. Outcome of Transfusion und die Notwendigkeit Patient Blood Management einzuführen. At: SGIM/SSMI Annual Meeting 2013, Congress Center Basel, Switzerland, 30th May 2013.
404. Increasing tolerance to anaemia. At: The European Anaesthesiology Congress, CCIB, Barcelona, Spain, 2nd June 2013.
405. Update of the European guidelines for the management of bleeding and coagulopathy: what's new in diagnostics and treatment. At: The European Anaesthesiology Congress, CCIB, Barcelona, Spain, 4th June 2013.
406. Die wichtigsten Empfehlungen zu Gerinnung und Hämodynamik» Theme: Europäische Trauma Guidelines: Update 2013. At: 100. Jahreskongress der Schweizerischen Gesellschaft für Chirurgie, Kursaal Bern, Bern, Switzerland, 12th June 2013.
407. Perioperatives Management unter modernen Gesichtspunkten» Theme: Patientensicherheit und Gefässchirurgie. At: 100. Jahreskongress der Schweizerischen Gesellschaft für Chirurgie, Kursaal Bern, Bern, Switzerland, 13th June 2013.
408. Einsatz von labilen Blutprodukten. At: 3. Basiskurs, Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Klosters, Switzerland, 22nd June 2013.
409. Verbessern Transfusionen das Outcome? At: Weiterbildungsveranstaltung „Blutmanagement – eine Chance zum Verbessern des Outcomes?“, Helios Krankenhaus Gotha/Ohrdruf, Gotha, Germany, 27th June 2013.
410. Blutsparende Massnahmen. At: 9. Kurs, Grundlagen der Gerinnung in Anästhesie und Intensivmedizin, Maritim Hotel Schnitterhof, Bad Sassendorf, Germany, 6th July 2013.
411. The central role of fibrinogen in blood coagulation. At: I Simpósio Internacional Multiprofissional, Paciente Crítico Cirúrgico, Renaissance São Paulo Hotel, São Paulo, Brasil, 12th July 2013.
412. Transfusion and outcome. At: I Simpósio Internacional Multiprofissional, Paciente Crítico Cirúrgico, Renaissance São Paulo Hotel, São Paulo, Brasil, 12th July 2013.
413. European Trauma Treatment Guidelines: Update 2013. At: Simpósio Internacional de Assistência Multidisciplinar, AO Paciente Politraumatizado, Faculdade de Medicina da USP e Centro de Convenções Rebouças, São Paulo, Brasil, 6th September 2013.
414. Treatment of Jehovah's Witnesses Patient Blood Management live. At: Simpósio Internacional de Assistência Multidisciplinar, AO Paciente Politraumatizado, Faculdade de Medicina da USP e Centro de Convenções Rebouças, São Paulo, Brasil, 7th September 2013.
415. Duale TC-Aggregationshemmung. At: Symposium Prämedikation – was soll das sein? Institut für Anästhesiologie und Intensivmedizin, Stadtspital Triemli Zürich, Zurich, Switzerland, 12th September 2013.
416. Patient Blood Management 2013 – aus anästhesiologischer Sicht. At: 31. Jahrestagung der Österreichischen Gesellschaft für Orthopädie und orthopädische Chirurgie, IMC Fachhochschule Krems, Krems, Austria, 13th September 2013.
417. The STOP the Bleeding Campaign: Implementing European guidelines for the management of bleeding and coagulopathy, Key recommendations from an anaesthesiologist's perspective. At: 15th Congress of the European Shock Society, Medical University of Vienna, Vienna, Austria, September 14th 2013.

418. Patient-Blood-Management. At: Fortbildung Eisenmangel und Blutarmut, Best Western Hotel Cristal München, Munich, Germany, 18th September 2013.
419. Indikationen, Risiken und Outcomerelevanz von Transfusionen. At: 15. Hauptstadtkongress der DGAI für Anästhesiologie und Intensivtherapie, Internationales Congress Centrum ICC Berlin, Berlin, Germany, 20th September 2013.
420. Patient-Blood-Management – Vermeidung von Fremdblutgabe. At: Fortbildung Eisenmangel und Blutarmut, Novina Hotel Südwestpark Nürnberg, Nuremberg, Germany, 25th September 2013.
421. Blut-Transfusionen am USZ. AT: UniversitätsSpital Zürich, Zurich, Switzerland, 22nd October 2013.
422. Europäische Trauma-Guidelines: Die wichtigsten Empfehlungen aus Sicht des Anästhesisten. At: DKOU Kongress, Symposium „Europäische Trauma-Guidelines: Update 2013“, Messe Süd, Berlin, Germany, 23rd October 2013.
423. Outcome of transfusion: An urgent need for changes. At: 1st Latin America Meeting on perioperative bleeding management, Albert Einstein Medical Center, São Paulo, Brasil, 24th October 2013.
424. Blut-Transfusionen am USZ» UniversitätsSpital Zürich, Zurich, Switzerland, 28th October 2013.
425. Outcome nach Bluttransfusionen - die Dringlichkeit Patient Blood Management einzuführen“. At: Seminare der Graduate School BIOME "Ischämie, Reperfusion und Angiogenesis", Institut für Physiologische Chemie, Essen, Germany, 29th October 2013.
426. Meet the Challenge: SGAR guidelines for the perioperative use of Ticagrelor. At: Jahreskongress SGAR, Beaulieu Lausanne, Lausanne, Switzerland, 7th November 2013.
427. Update of the European Trauma Treatment Guidelines 2013. At: Jahreskongress SGAR, Beaulieu Lausanne, Lausanne, Switzerland, 7th November 2013.
428. Übersichtsvortrag: Optimierung des patienteneigenen Blutvolumens – Erläuterung der 1. Säule des PBM. At: PBM-Symposium, Universitäts-Klinik für Blutgruppenserologie und Transfusionsmedizin, Universität Graz, Graz, Austria, 14th November 2013.
429. Prävalenz und Outcome von Eisenmangel und Anämie. At: PBM-Symposium, Universitäts-Klinik für Blutgruppenserologie und Transfusionsmedizin, Universität Graz, Graz, Austria, 14th November 2013.
430. Practical experience in trauma. At: Workshop – Perioperative Bleeding Management, Istanbul, Turkey, 21th November 2013.
431. Indication and outcome of RBC, FFP and platelet transfusions. At: Workshop – Perioperative Bleeding Management, Istanbul, Turkey, 22nd November 2013.
432. Bluttransfusionen, Indikationen, Risiken. At: 8. Klosterer Kolloquium, Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Klosters, Switzerland, 29th November 2013.
433. Blut-Transfusionen am USZ» UniversitätsSpital Zürich, Zurich, Switzerland, 4th December 2013.
434. Indikationen, Risiken und Outcome-Relevanz von Transfusionen. At: 13. Kongress der Deutschen Interdisziplinären Vereinigung für Intensiv- und Notfallmedizin, CCL – Congress Center Leipzig, Leipzig, Germany, 5th December 2013.
435. Die wichtigsten Empfehlungen aus Sicht des Anästhesisten. At: 13. Kongress der Deutschen Interdisziplinären Vereinigung für Intensiv- und Notfallmedizin, CCL – Congress Center Leipzig, Leipzig, Germany, 6th December 2013.

436. Outcome of Transfusion» By invitation of the Office of Blood Research and Review/Division of Hematology of the Federal Drug Administration (FDA), Department of Health & Human Services, Bethesda, MD, USA, 6th January 2014.
437. Patient Blood Management (PBM). At: Fortbildungstagung Immunhämatologie und Transfusionsmedizin SVTM, Schweizerische Vereinigung für Transfusionsmedizin, Inselspital, Berne, Switzerland, 24th January 2014.
438. Einsatz Labiler Blutprodukte. At: 2. ROTEM Workshop. Perioperatives Gerinnungsmanagement am IfA, UniversitätsSpital Zürich, Zurich, Switzerland, 31th January 2014.
439. Management of Hemorrhage after Cardiac Surgery. At: SHA (Saudi Heart Association) 25 Annual Scientific Meeting, Riyadh, Saudi Arabia, 6th February 2014.
440. Outcome of Transfusion in Cardiac Surgery. The Urgent Need to Implement Patient Blood Management. At: SHA (Saudi Heart Association) 25 Annual Scientific Meeting, Riyadh, Saudi Arabia, 6th February 2014.
441. Restoring Hemostasis Fibrinogen Concentrate vs. Cryoprecipitate. At: SHA (Saudi Heart Association) 25 Annual Scientific Meeting, Riyadh, Saudi Arabia, 6th February 2014.
442. The Central Role of Fibrinogen in Coagulation. At: 2nd Iranian Cardiovascular Joint Congress, Tehran, Iran, 26th February 2014.
443. Improving Outcome of Patients in Cardiac Surgery by Coagulation Monitoring and Factor Based Coagulation Management». At: 2nd Iranian Cardiovascular Joint Congress, Tehran, Iran, 26th February 2014.
444. Coagulation Management in Trauma: The New European Trauma Treatment Guidelines», at: 2nd Iranian Cardiovascular Joint Congress, Tehran, Iran, 26th February 2014.
445. Guidelines. At: Symposium Anesthesia and Beyond. 60th Anniversary of the Department of Anesthesiology and Critical Care Medicine AKH, Linz, Austria, 8th March 2014.
446. Perioperatives Management nach Stenting. At: Moderne Plättchen- und Gerinnungshemmung in Klinik und Praxis. Vorhofflimmern und Akutes Koronarsyndrom, UniversitätsSpital Zürich, Zurich, Switzerland, 13th March 2014.
447. Europäische Trauma-Guidelines: Update 2013. Die wichtigsten Empfehlungen aus Sicht des Anästhesisten. At: Deutscher Interdisziplinärer Notfallmedizin Kongress, Wiesbaden, Germany, 20th March 2014.
448. Eisenmangel...vor einem chirurgischen Eingriff. At: 7th Iron Academy, Zurich, Switzerland, 27th March 2014.
449. Blood Transfusions – Do they really work? At: RCOG World Congress 2014, Hyderabad, India, 28th March 2014.
450. Outcome-Relevanz von Bluttransfusion: Verbleibende Indikationen und Patient Blood Management. At: Interdisziplinäre Fortbildung, Hirslanden Klinik Aarau, Aarau, Switzerland, 2nd April 2014.
451. Carence en fer chez...le patient devant subir une opération chirurgicale. At: 7 th Iron Academy, Lausanne, Switzerland, 3rd April 2014.
452. Die neuen „European Trauma Treatment Guidelines“ einschliesslich der Bedeutung der oralen Thromboseprophylaxe-Medikation. At: Fortbildung Anästhesie, UniversitätsSpital Zürich, Zurich, Switzerland, 16th April 2014.
453. European Trauma Treatment Guidelines: Update 2013. At: Deutscher Anästhesiecongress, Congress Center Leipzig, Leipzig, Germany, 8th May 2014.

454. Outcome nach EK Transfusion. At: Monatliche Fortbildungsveranstaltung der Klinik für Anästhesiologie, Intensivmedizin und Schmerztherapie der Universitätsklinik Frankfurt, Frankfurt, Germany, 12th May 2014.
455. Perioperatives Blutgerinnungs-Management - das wichtigste aus anästhesiologischer Sicht»: at: 101. Jahreskongress der Schweizerischen Gesellschaft für Chirurgie, Kursaal Berne, Berne, Switzerland, 21st May 2014.
456. Anticoagulation with Rivaroxaban – What we must know about it in the OR. At: 101. Jahreskongress der Schweizerischen Gesellschaft für Chirurgie, Kursaal Berne, Berne, Switzerland, 22nd May 2014.
457. Transfusion und Outcome – welches ist der ideale Trigger für die Gabe von Eryth-rozytenkonzentraten . At: Therapie mit Blutprodukten, Hämotherapie – Ist weniger mehr? Klinikum Neuperlach, Munich City Centre, Munich, Germany, 4th June 2014.
458. Einsatz von labilen Blutprodukten. At: 4. Basiskurs, Perioperatives Gerinnungsmanagement, Gemein-dezentrum Klosters, Klosters, Switzerland, 14th June 2014.
459. Duale Thrombozytenhemmung – Do's and Dont's: Präoperative Abklärung in der Praxis. At: Swiss Family Docs Conference 2014, Kongresshaus Zürich, Zurich, Switzerland, 28th August 2014.
460. Duale Plättchenhemmung / NOAC Wann absetzen? Wann nicht absetzen? At: Medidays Zürich 2014 Allgemeiner Fortbildungskurs der Medizinischen Fakultät Zürich, Zurich, Switzerland, 3rd September 2014.
461. Patient Blood Management. At: Transfusionsmedizin Symposium Stadtspital Triemli, Zurich, Switzerland, 4th September 2014.
462. Patient Blood Management. At: 7. Kölner Intensiv-Forum-AINS, KOMED im MediaPark, Koeln, Germany, 5th September 2014.
463. ROTEM® based coagulation algorithms: Risks and benefits of FFP, cryo and fibrinogen concentrate. At: Workshop – Perioperative Bleeding Management, Budapest, Hungary, 11–12 September 2014.
464. Pharmacoeconomics of Bleeding Management. At: Workshop – Perioperative Bleeding Management, Budapest, Hungary, 11–12 September 2014.
465. European Trauma Treatment Guidelines: Update 2013/2014-09. At: 16. Hauptstadtkongress der DGAI für Anästhesiologie und Intensivtherapie, Estrel Conventin Center, ECC Berlin, Germany, 18–20 September 2014.
466. Outcome of Transfusion Patient Blood Management Geht es nach der OP weiter? At: 16. Hauptstadtkongress der DGAI für Anästhesiologie und Intensivtherapie, Estrel Conventin Center, ECC Berlin, Germany, 18–20 September 2014.
467. European Trauma Treatment Guidelines: Update 2013/2014-09. At: CEEA (Committee for European Education in Anaesthesiology) Course 3 on Intensive Care, Emergency Medicine, Blood and Blood Transfusion of the joint committee of the ESA and WFSA, Coimbra, Portugal, 7th October 2014.
468. Management of severe bleeding. At: CEEA (Committee for European Education in Anaesthesiology) Course 3 on Intensive Care, Emergency Medicine, Blood and Blood Transfusion of the joint committee of the ESA and WFSA, Coimbra, Portugal, 7th October 2014.
469. Transfusion Medicine – Erythrocyte transfusion triggers. At: 20. Fortbildungskurs der Schweizerischen Gesellschaft für Hämatologie (SGH) 2014, Zurich, Switzerland, 24th October 2014.
470. Patient Blood Management – perioperativ und innovativ. At: Herausforderungen in der perioperativen Medizin, Kunstmuseum Solingen, Solingen, Germany, 25th October 2014.

471. Transfusion therapy in surgical patients: Emerging Concepts. At: 4th International Forum on Transplant Digestive Organ Transplantation, São Paulo, Brazil, 14th November 2014.
472. Pharmacological strategies in coagulopathy in liver surgery and transplantation. At: 4th International Forum on Transplant Digestive Organ Transplantation, São Paulo, Brazil, 14th November 2014.
473. Patient Blood Management – Transfusionseinsparung durch i.v. Eisen? At: Fortbildungsveranstaltung “ Bloodmanagement/Eisenthalapie/Neubewertung §116b neu”, Bundesverband Deutscher Krankenhausapotheker (ADKA) e.V., Frankfurt, Germany, 8th November 2014.
474. Management of severe bleeding. At: Porto Anaesthesiology International Congress 2014, Porto, Portugal, 20th November 2014.
475. Management of severe bleeding in trauma. At: 2o Curso de Gestão Clínica da Hemorragia Massiva, Centro de Simulação Biomédica, Coimbra, Portugal, 21st November 2014.
476. Patient Blood Management aus anästhesiologischer Sicht. At: Jahrestagung der Österreichischen Gesellschaft für Anästhesiologie, Reanimation und Intensivmedizin 2014, Linz, Austria, 27th November 2014.
477. Bluttransfusionen, Indikationen, Risiken. At: 9. Klosterser Kolloquium, Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Klosters, Switzerland, 28th November 2014.
478. Perioperativer Umgang mit NOACs – SGAR-Richtlinien. At: 9. Klosterser Kolloquium, Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Klosters, Switzerland, 29th November 2014.
479. Evidence of coagulation management strategies – Is there an evidence for a targeted therapy? At: 9. Innsbruck Winter Symposium for coagulation, Innsbruck, Austria, 11th December 2014.
480. POC and factor concentrate based perioperative coagulation management» By invitation of the Office of Blood Research and Review/Division of Hematology of the Federal Drug Administration (FDA), Department of Health & Human Services, Silver Springs, MD, USA, 18th December 2014.
481. Outcome of transfusion: The urgent need to implement Patient Blood Management. At: Gemeinsame Fortbildungsveranstaltung der Klinik für Anästhesiologie und Schmerztherapie und der Klinik für Intensivmedizin und Notfallmedizin, Klinikum Bremen-Mitte, Bremen, Germany, 21st January 2015.
482. Strengthening the second pillar of PBM (II): Preoperative bleeding control. At: First Patient Blood Management (PBM) Expert Meeting / Training Workshop, AIT TechGate, Vienna, Austria, 6th February 2015.
483. Medical management of cardiac patients during non-cardiac Surgery. At: Symposium Perioperative Management of cardiac patients, Cardiology update 2015; an ESC update programme, Davos, Switzerland, 10th February 2015.
484. EC, FFP und Thrombozyten Risiken und Indikationen. At: Seminarkongress Interdisziplinäre Intensivmedizin, Garmisch-Partenkirchen, Germany, 4th March 2015.
485. Is human plasma obsolete? At: Portuguese Society of Anaesthesiology Congress, Cascais, Portugal, 13th March 2015.
486. European Trauma Treatment Guidelines: Update 2013 / 2015-03. At: Portuguese Society of Anaesthesiology Congress, Cascais, Portugal, 13th March 2015.
487. POC and factor concentrate based coagulation management in cardiac surgery and trauma. At: First Course on Critical Bleeding, Churruca Hospital, Buenos Aires, Argentina, March 26th 2015
488. POC and factor concentrate based coagulation management in cardiac surgery and trauma. At: Grand Rounds, Italian Hospital, Buenos Aires, Argentina, 27th March 2015.

489. POC and factor concentrate based coagulation management in cardiac surgery and postpartum hemorrhage. At: First interdisciplinary course in management of critical bleeding using thrombelastometry and the concepts of Patient Blood Management at the Argentinian Medical Agency, Buenos Aires, Argentina, 28th March 2015.
490. Anästhesieaufklärung. At: Patientenaufklärung, UniversitätsSpital Klinik für Geburtshilfe, Zurich, Switzerland, 9th April 2015.
491. Präoperativer Eisenmangel, Transfusionsbedarf und Patient Blood Management. At: 19. Treffen des Netzwerks Perioperative Gerinnung Nordbayern, Lindner Hotel Schloss Reichmannsdorf, Schlüssel-feld, Germany, April 22nd 2015.
492. Patient Blood Management from the perspective of Anaesthesiologist. At: DUK Seminar in Perioperative Bleeding Management/ Patient Blood Management, Dan-ube University Krems, Krems, Austria 28th May 2015.
493. Patient Blood Management: Cost Perspective. At: DUK Seminar in Perioperative Bleeding Management/ Patient Blood Management, Danube University Krems, Krems, Austria 28th May 2015.
494. Which transfusion strategy for which patient group? At: Annual Congress of European Society of Anaesthesiology, Berlin, Germany, 30th May 2015.
495. RBC Transfusion: Evidence base for restrictive transfusion Triggers. At: 3rd European Advanced Fluid Therapy Conference, Berlin, Germany, 3rd June 2015.
496. How many patients need transfusion? At: Gemeinsame Jahrestagung 2015 der Schweizerischen Gesellschaft für Kardiologie (SGK) und der Schweizerischen Gesellschaft für Herz- und thorakale Gefässchirurgie (SGHC), Zurich, Switzerland, 12th June 2015.
497. State of the Art Lecture: Pathophysiology, intraoperative diagnosis and treatment options in trauma settings. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, Vienna, Austria, 13th June 2015.
498. Integrating Perioperative Bleeding Management into Patient Blood Management. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, Vienna, Austria, 13th June 2015.
499. Gerinnungsdiagnostik beim Trauma einschliesslich NOAC-Monitoring. At: Fortbildungsveranstaltung des Instituts für Anästhesiologie, Universitätsspital Zürich, Zurich, Switzerland, 17th June 2015.
500. Gerinnungsdiagnostik beim Trauma einschliesslich DOAC-Monitoring. At: 5. Basiskurs Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Klosters, Switzerland, 19th June 2015.
501. Einsatz von labilen Blutprodukten. At: 5. Basiskurs Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Klosters, Switzerland, 20th June 2015.
502. Antikoagulation in der Orthopädie: Praktische Aspekte zu peri-/postoperativem Management und Blutungsmanagement. At: 75. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie und Traumatologie, Congress Center Basel, Switzerland, 25th June 2015.
503. Welche Medikamente stoppen? Welche Antikoagulation perioperativ? At: 29. Mediweek Davos, Sommer-Seminar-Woche 2015, Kongresszentrum Davos, Saal Aspen, Switzerland, 3rd July 2015.
504. The Clinical Evidence from Profoundly Anemic Patients. At: New Tissue Oxygenation Technologies, Englewood, USA, 8th August 2015.
505. Alter, Multimorbidität und Operation. At: Medidays Zürich, Allgemeiner Fortbildungskurs der Medizinischen Fakultät Zürich, Switzerland, 31st August 2015.

506. Patient Blood Management. At: UCB Cross Speciality Congress For Iron Deficiency Anemia, Masterclass, Chongqing, China, 12th September 2015.
507. Patient Blood Management. At: UCB Cross Speciality Congress For Iron Deficiency Anemia, Chongqing, China, 13th September 2015.
508. Patient Blood Management in Switzerland. At: 17. Hauptstadtkongress der DGAI für Anästhesiologie und Intensivtherapie, Berlin, Germany, 18th September 2015.
509. Perioperatives Management von Patienten mit oraler Antikoagulation. At: Fort- und Weiterbildungsveranstaltung, Departement Innere Medizin, Kantonsspital Baden, Baden, Switzerland, 24th September 2015.
510. POC and factor concentrate based coagulation algorithms in trauma. At: 12th International Congress of Anesthesiology, Critical Care and Pain Medicine, Teheran, Iran, 25th September 2015.
511. POC and factor concentrate based coagulation algorithms in cardiac surgery. At: 12th International Congress of Anesthesiology, Critical Care and Pain Medicine, Teheran, Iran, 25th September 2015.
512. POC and factor concentrate based coagulation algorithms in post-partum hemorrhage. At: 12th International Congress of Anesthesiology, Critical Care and Pain Medicine, Teheran, Iran, 25th September 2015.
513. Einfluss von Fremdbluttransfusionen auf das Immunsystem des Patienten. At: Patient Blood Management – Pflegerische und ärztliche Fortbildung, organised by Transfusionskommission St. Marienhospital Vechta, Vechta, Germany, 14th October 2015.
514. Antikoagulation in der Angiologie – praktische Aspekte aus Klinik und Labor: Perioperatives Management und Therapie von Blutungskomplikationen“ at: 16. Unionstagung der Schweizerischen Gesellschaften für Gefässkrankheiten, Kursaal Bern, Bern, Switzerland, 29th October 2015.
515. How do I manage the main coagulation disorders in the following situations: acute trauma, coagulopathy? At: XX Congresso Brasileiro de Medicina Intensiva – CBMI, Costa do Saúpe, Brazil, 5th November 2015.
516. Disorders involving coagulation and transfusion in critically ill patients“. At: XX Congresso Brasileiro de Medicina Intensiva – CBMI, Costa do Saúpe, Brazil, 6th November 2015.
517. Sind Kolloide out?“ at: AIC 2015 - Jahrestagung der Österreichischen Gesellschaft für Anästhesiologie, Reanimation und Intensivmedizin, Tageszentrum Schönbrunn, Vienna, Austria, 12th November 2015.
518. Update Transfusionstrigger“ Anlässlich: AIC 2015 - Jahrestagung der Österreichischen Gesellschaft für Anästhesiologie, Reanimation und Intensivmedizin, Tageszentrum Schönbrunn, Vienna, Austria, 12th November 2015.
519. NOAC patients in the emergency setting“ – The anesthesiologist’s views. At: Gemeinsamer Kongress SGAR & SGNOR & VRS & SIGA/FSIA, Olma Messen St. Gallen, St. Gallen, 13th November 2015.
520. Der blutende Patient / Le patient qui saigne. At: Gemeinsamer Kongress SGAR & SGNOR & VRS & SIGA/FSIA, Olma Messen St. Gallen, St. Gallen, 13th November 2015.
521. Les nouvelles recommandations européennes dans la prise en charge du poly-traumatisé. At: 13e Journée LFB Soins Intensifs, Pavillon Cambon, Paris, France, 24th November 2015.
522. Bluttransfusionen, Indikationen, Risiken. At: 10. Klosterser Kolloquium - Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Switzerland, 27th November 2015.
523. Perioperativer Umgang mit NOACs – SGAR-Richtlinien“ at: 10. Klosterser Kolloquium - Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Switzerland, 28th November 2015.

524. Evidence base for restrictive transfusion triggers. At: The 3rd International Congress of Transfusion Medicine, Teheran, Iran, 15th December 2015.
525. Key issues in advanced bleeding care in trauma. At: The 3rd International Congress of Transfusion Medicine, Teheran, Iran, 15th December 2015.
526. Patient Blood Management. At: The 2nd Asia-Pacific ROTEM® Coagulation Meeting, Bangkok, Thailand, 22nd January 2016.
527. Clinical use of prothrombin complex concentrates. At: The 2nd Asia-Pacific ROTEM® Coagulation Meeting, Bangkok, Thailand, 23rd January 2016.
528. Patient Blood Management. At: Seminar PBM – Focus on perioperative bleeding management, Danube University Krems (DUK), Hainburg, Austria, 28th January 2016.
529. Einsatz labiler Blutprodukte. At: 3. ROTEM Workshop – Perioperatives Gerinnungsmanagement am IFA, UniversitätsSpital Zürich, Switzerland, 1st February 2016.
530. Bluttransfusionen – Indikation und Risiken. At: training seminar, Unfallkrankenhaus Salzburg, Salzburg, Austria, 23rd February 2016.
531. Patient Blood Management. At: training seminar, Klinik für Anästhesiologie, operative Intensivmedizin und Schmerztherapie, Sozialstiftung Bamberg, Germany, 24rd February 2016.
532. Patient Blood Management. At: Patient Blood Management in der Herzchirurgie, Universitäres Herzzentrum, Klinische Abteilung für Herzchirurgie, Klinische Abteilung für Herz-, Thorax-, Gefässchirurgische Anästhesiologie und Intensivmedizin, Graz, Austria, 9th March 2016.
533. NOAC: Perioperative coagulation management. At: Westdeutsche Anästhesietage (WAT 2016), RuhrCongress Bochum, Germany, 11th March 2016.
534. Anämie und Transfusion: Von den Leitlinien in der klinischen Praxis // Transfusionstrigger oder doch lieber Patienten-spezifische Transfusionsentscheidung im OP und auf der Intensivstation? At: Deutscher Anästhesiecongress, Congress Center Leipzig, Germany, 14th April 2016.
535. Patientensicherheit & Versorgungsqualität – die Rolle des Anämie-Managements als zentraler Baustein des PBM // Patient Blood Management – Neuer Goldstandard? At: Deutscher Anästhesiecongress, Congress Center Leipzig, Germany, 15th April 2016.
536. Therapie von Blutungen – aktuelle Leitlinien und Empfehlungen // NOAC - assoziierte Blutungen. At: Deutscher Anästhesiecongress, Congress Center Leipzig, Germany, 15th April 2016.
537. Substitution therapies: beyond fresh frozen plasman and cryoprecipitate. At: INTERCEPT 2016 – 13th International Course on Extracorporeal Perfusion Technologies, Milan Marriott Hotel, Mailand, Italy, 21st April 2016.
538. Aspects of the management of bleeding trauma patients with/without NOACs. At: 17th European Congress of Trauma and Emergency Surgery, Congress Center Vienna, Austria, 26th April 2016.
539. NOAC: Perioperative coagulation management. At: training seminar, Department of Cranio-Maxillo-Facial and Oral Surgery, University Hospital Zurich, Switzerland, 2nd May 2016.
540. State of the art lecture: Pathophysiology, intraoperative diagnosis and treatment options in trauma settings“ at: 2nd interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, Vienna, Austria, 6th May 2016.
541. Monitoring and treatment of trauma patients pre-treated with novel oral anticoagulants. At: Euroanaesthesia 2016, The European Anaesthesiology Congress, London, United Kingdom, 30th May 2016.

542. Perioperative management of patients treated with NOACs: The Swiss approach. At: 17th EFFORT Annual Congress Geneva, Switzerland, 2nd June 2016.
543. Patient Blood Management: Rationale, Elements, and Success. At: Special Guest Lecture, Department of Anesthesiology, Massachusetts General Hospital, Boston, MA, 10th June 2016.
544. Patient Blood Management. At: DUK Seminar in PBM – Focus on perioperative bleeding management, Danube University Krems, Hainburg/Donau, Austria, 15th June 2016.
545. Bleeding Management in Trauma. At: DUK Seminar in PBM – Focus on perioperative bleeding management, Danube University Krems, Hainburg/Donau, Austria, 15th June 2016.
546. Bleeding Management in Cardiovascular Surgery. At: DUK Seminar in PBM – Focus on perioperative bleeding management, Danube University Krems, Hainburg/Donau, Austria, 15th June 2016.
547. NOAC: Perioperative coagulation management. At: training seminar, Department of Urology, UniversitätsSpital Zurich, Switzerland, 23rd June 2016.
548. Einsatz von labilen Blutprodukten. At: 6. Basiskurs Perioperatives Gerinnungsmanagement, Gemeindezentrum Klosters, Switzerland, 25th June 2016.
549. Perioperative management of NOACs and VKA // Pre and postoperative management, general considerations. At: Danube University Krems meeting on New Oral Anticoagulants / Non-vitamin K oral anticoagulants (NOACs), Vienna, Austria, 2nd July 2016.
550. Current status of Patient Blood Management: A global perspective with a focus on implementation strategies. At: First China Patient Blood Management Meeting, Beijing, China, 13th August 2016.
551. Patient Blood Management – Getting preoperative anemia management right: Definition of data / expert opinion. At: 16th World Congress of Anesthesiologists, Hong-Kong, China, 30th August 2016.
552. Bleeding Management in Trauma. At: DUK Seminar in PBM – Focus on perioperative bleeding management, Danube University Krems, Hainburg/Donau, Austria, 7th September 2016.
553. Patient Blood Management. At: DUK Seminar in PBM – Focus on perioperative bleeding management, Danube University Krems, Hainburg/Donau, Austria, 7th September 2016.
554. Bleeding Management in Cardiovascular Surgery. At: DUK Seminar in PBM – Focus on perioperative bleeding management, Danube University Krems, Hainburg/Donau, Austria, 7th September 2016.
555. IV iron as a transfusion-sparing strategy. At: 3rd European Iron Academy, Berlin, Germany, 12th September 2016.
556. Patient Blood Management. At: 3rd European Iron Academy, Berlin, Germany, 12th September 2016.
557. IV iron as a transfusion-sparing strategy. At: 3rd European Iron Academy, Berlin, Germany, 13th September 2016.
558. Patient Blood Management. At: 3rd European Iron Academy, Berlin, Germany, 13th September 2016.
559. Patient Blood Management means the management of acute anemia during the operative procedure. At: HAI 2016, Estrel Convention Center Berlin, Germany, 15th September 2016.
560. Therapie von Blutungen – aktuelle Leitlinien und Empfehlungen // Europäische Trauma Guidelines – Update 2016. At: HAI 2016, Estrel Convention Center Berlin, Germany, 16th September 2016.
561. Prophylaxis and management of bleeding in patients on oral anticoagulant therapy: A focus on surgery. At: Annual Congress of the All-Russian Non-Governmental Organization Federation of Anesthesiologists and Reanimatologists in Moscow, Russia, 18th September 2016.

562. Anemia Barriers and Management // Is There a Role for PBM in Trauma? At: SABM Society for the Advancement of Blood Management 2016 Annual Meeting, Grand Rapids, Michigan, USA, 1st October 2016.
563. Integration of perioperative bleeding management into Patient Blood Management. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management Moscow, Russland; organized by: DUK Danube University Krems, National Association on Thrombosis and Hemostasis, Russia, Russian Academy for Postgraduate Medical Education. 18th October 2016
564. Bleeding Management in Cardiovascular Surgery. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, Moscow, Russland x; organized by: DUK Danube University Krems, National Association on Thrombosis and Hemostasis, Russia, Russian Academy for Post-graduate Medical Education. 18th October 2016.
565. Coagulation Management in Trauma. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, Moscow, Russland; organized by: DUK Danube University Krems, National Association on Thrombosis and Hemostasis, Russia, Russian Academy for Postgraduate Medical Education. 19th October 2016.
566. Bleeding Management in Peri-partum Hemorrhage. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, Moscow, Russland; organized by: DUK Danube University Krems, National Association on Thrombosis and Hemostasis, Russia, Russian Academy for Post-graduate Medical Education. 19th October 2016.
567. The importance of Pillar One in PBM. At: Asia Pacific PBM Expert Consensus Meeting, Cordis Hotel, Hong Kong, China, 29th October 2016.
568. Handling NOACs and reversal agents in the perioperative setting // Guidelines: What we need to consider when handling NOAC. At: Jahreskongress SGAR & SI-GA/FSIA 2016, Congress Center Basel, 4th November 2016.
569. Patient Blood Management. At: Journée de formation romande du service régional neuchâtelois et jurassien de transfusion sanguine CRS, Hôpital Pourtalès, Neuchâtel, 4th November 2016.
570. Patient Blood Management. At: DUK Seminar in PBM: Focus on perioperative bleeding management, Altes Kloster, Hainburg/Donau, Austria, 9th November 2016.
571. Bleeding Management in Trauma. At: DUK Seminar in PBM: Focus on perioperative bleeding management, Altes Kloster, Hainburg/Donau, Austria, 9th November 2016.
572. Bleeding Management in Cardiovascular Surgery. At: DUK Seminar in PBM: Focus on perioperative bleeding management, Altes Kloster, Hainburg/Donau, Austria, 9th November 2016.
573. Patient Blood Management: Principles. At: Patient Blood Management Conference, High Institution for Education and Research in Transfusion Medicine, Teheran, Iran, 10th November 2016.
574. Bleeding Management in Cardiac Surgery. At: Patient Blood Management Conference, High Institution for Education and Research in Transfusion Medicine, Teheran, Iran, 10th November 2016.
575. Patient Blood Management. At: 4. Kurs Gerinnung in Anästhesie und Intensivmedizin, Best Western, Nürtingen, Germany, 11th November 2016.
576. Patient Blood Management – Focus on peri-operative anemia management. At: 4th Global Conference on Perioperative Care of the Cancer Patient, The Royal Horseguards Hotel, London, United Kingdom, 24th November 2016.
577. Patient Blood Management – Focus on cancer patients. At: 4th Global Conference on Perioperative Care of the Cancer Patient, The Royal Horseguards Hotel, London, United Kingdom, 24th November 2016.

578. Patient Blood Management. At: 11. Klosterser Kolloquium – Perioperatives Gerinnungsmanagement, Hotel Alpina, Klosters, Switzerland, 25th November 2016.
579. Traumamanagement: The new European Trauma Treatment Guidelines 2016. At: 11. Klosterser Kolloquium – Perioperatives Gerinnungsmanagement, Hotel Alpina, Klosters, Switzerland, 25th November 2016.
580. Europäische Trauma Guidelines – Update 2016. At: 16. Kongress der Deutschen Interdisziplinären Vereinigung für Intensiv- und Notfallmedizin (DIVI), CCH Congress Center Hamburg, Hamburg, Germany, 2nd December 2016.
581. Bleeding Management in Trauma. At: DUK Seminar in PBM: Focus on perioperative bleeding management, Altes Kloster, Hainburg/Donau, Austria, 7th December 2016.
582. Patient Blood Management. At: DUK Seminar in PBM: Focus on perioperative bleeding management, Altes Kloster, Hainburg/Donau, Austria, 7th December 2016.
583. Bleeding Management in Cardiovascular Surgery. At: DUK Seminar in PBM: Focus on perioperative bleeding management, Altes Kloster, Hainburg/Donau, Austria, 7th December 2016.
584. Patient Blood Management and actual guidelines // European guideline on management of major bleeding and coagulopathy following trauma: Update 2016. At: 10. Innsbruck Winter Symposium for Coagulation, Villa Blanka Innsbruck, Austria, 15th December 2016.
585. Einsatz labiler Blutprodukte. At: 4. ROTEM Workshop – Perioperatives Gerinnungsmanagement am IFA, UniversitätsSpital Zurich, Switzerland, 9th January 2017.
586. Patient Blood Management (PBM) in Trauma Patients. At: KPBM Annual Meeting 2017, Center for Medical Innovation, Seoul National University Hospital, Seoul, Korea, 14th January 2017.
587. Patient Blood Management in Cardiac Surgery – Herzanämie-Studie USZ. At: Seminar at University Heart Center Zurich, Department for Cardiovascular Surgery, University Hospital Zurich, Switzerland, 18th January 2017.
588. Update: European Trauma Treatment Guidelines (4th Edn. 2016). At: Monatliches Symposium in Anästhesiologie, Intensivmedizin und Reanimatologie, Institute of Anesthesiology, University Hospital Zurich, Switzerland, 18th January 2017.
589. How I Manage Blood Products. At: Critical Care Reviews Meeting 2017, Belfast, Northern Ireland, 27th January 2017.
590. John Hinds' Trauma Lecture European Trauma Guidelines – A Success Story. At: Critical Care Reviews Meeting 2017, Belfast, Northern Ireland, 27th January 2017.
591. Patient Blood Management. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management, Hainburg, Austria, 1st February 2017.
592. Bleeding Management in Trauma. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management, Hainburg, Austria, 1st February 2017.
593. Bleeding Management in Cardiovascular Surgery. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management, Hainburg, Austria, 1st February 2017.
594. Perfluorocarbon in Orthopedic Surgery Trials. At: Join Program Committee 6 (JPC-6), Combat Casualty Care Research Program (CCCRP), Oxygen Carrier State of the Science Meeting, Fort Detrick, Frederick, Maryland, 7th February 2017.
595. Transfusion: What is the evidence? At: 1. Kurs Patient Blood Management, Hotel Hollweger, St. Gilgen am Wolfgangsee, Austria, 25th February 2017.

596. Pharmakologie und Labordiagnostik der NOACs: Was muss der Intensivmediziner wissen? At: Seminarkongress Interdisziplinäre Intensivmedizin, Kongresshaus, Garmisch-Partenkirchen, Germany, 8th March 2017.
597. Outcome of RBC, platelet and FFP transfusion. At: Perioperative Bleeding Management – Scientific x-change meeting, University Hospital Zurich, Switzerland, 20th March 2017.
598. Die Eisenmangel-Anämie im perioperativen Kontext – vom blinden Flick zum relevanten Risiko. At: Anästhesiologisches Kolloquium, Klinikum Leverkusen, Germany, 21st March 2017.
599. Intravenöses Eisen in der konservativen Medizin – eine Meta-Analyse. At: 16. Ludwigshafener Transfusionsgespräche der IAKH e.V., Berufsgenossenschaftliche Unfallklinik, Ludwigshafen, Germany, 25th March 2017.
600. Patient Blood Management. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management, Hainburg, Austria, 4th April 2017.
601. Bleeding Management in Trauma. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management, Hainburg, Austria, 4th April 2017.
602. Bleeding Management in Cardiovascular Surgery. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management, Hainburg, Austria, 4th April 2017.
603. Bleeding Management in Cardiovascular Surgery. At: EMMS Encontro Multidisciplinar Manejo do Sangramento, Rio Grande do Sul, Brazil, 26th April 2017.
604. Lessons learnt from guidelines and algorithms for cardiac and trauma patient. At: Symposium of Bleeding Management in Critical Patients: Complications and Treatment, São Paulo, Brazil, 27th April 2017.
605. Bleeding Blood Management. At: XXXII Congresso Brasileiro de Cirurgia, São Paulo, Brazil, 28th April 2017.
606. The European guideline on management of major bleeding and coagulopathy following trauma. At: XXXII Congresso Brasileiro de Cirurgia, São Paulo, Brazil, 28th April 2017.
607. Patient Blood Management. At: COPA Congresso Paulista de Anestesiologia 2017, São Paulo, Brazil, 28th April 2017.
608. Europäische Trauma Guidelines. At: Deutscher Anästhesie Congress 2017, Nürnberg, Germany, 4th May 2017.
609. Patient Blood Management: Guidelines und der Erfolg strukturierter Umsetzung. At: Deutscher Anästhesie Congress 2017, Nürnberg, Germany, 4th May 2017.
610. Operative Vorbereitung von Patienten auf elektive Eingriffe. At: 10th Iron Academy, Zürich, Switzerland, 1st June 2017.
611. Patient blood Management in the elderly. At: Euroanaesthesia 2017, Geneva, Switzerland, 4th June 2017.
612. Integration of perioperative bleeding management into Patient Blood Management. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management organized by the National Association on Thrombosis and Hemostasis of Russia and the Association of Anesthesiologists and Resuscitators of Russia, St.-Petersburg, Russia, 7th June 2017.
613. Coagulation Management in Trauma. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management organized by the National Association on Thrombosis and Hemostasis of Russia and the Association of Anesthesiologists and Resuscitators of Russia, St.-Petersburg, Russia, 7th June 2017.

614. Bleeding Management in Peri-partum Hemorrhage. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management organized by the National Association on Thrombosis and Hemostasis of Russia and the Association of Anesthesiologists and Resuscitators of Russia, St.-Petersburg, Russia, 8th June 2017.
615. New bleeds, DOACs and the role of the new reversal agents. At: Gemeinsame Jahrestagung Schweizerische Gesellschaft für Kardiologie (SGK), Schweizerische Gesellschaft für Herz- und thorakale Gefäßchirurgie (SGHC), Trafo Baden, Switzerland, 9th June 2017.
616. Von Transfusionsrichtlinien zu Patient Blood Management. At: 3. Aargauer Schloss-Symposium der Anästhesie, Schloss Liebegg, Gränichen AG, Switzerland, 23rd June 2017.
617. NOACs in perisurgical settings: what we should know. At: swiss orthopaedics, St. Gallen, Switzerland, 29th June 2017.
618. Einsatz von labilen Blutprodukten. At: 7. Basiskurs Perioperatives Gerinnungsmanagement, Zurich, Switzerland, 30th June 2017.
619. Patient Blood Management. At: Seminar in PBM: Focus on Perioperative Bleeding Management organized by Danube University Krems (DUK), Hainburg/Donau, Austria, 8th September 2017.
620. Bleeding Management in Trauma. At: Seminar in PBM: Focus on Perioperative Bleeding Management organized by Danube University Krems (DUK), Hainburg/Donau, Austria, 8th September 2017.
621. Bleeding Management in Cardiovascular Surgery. At: Seminar in PBM: Focus on Perioperative Bleeding Management organized by Danube University Krems (DUK), Hainburg/Donau, Austria, 8th September 2017.
622. Management of severe perioperative bleeding and coagulopathy in Europe. At: 22nd Annual Meeting of Japanese Society of Cardiovascular Anesthesiologists, Jichi Medical University, Tochigi-ken, Japan, 16th September 2017.
623. Point-of-care and factor concentrate based coagulation management: A focus on trauma. At: Faculty of Medicine, Siriraj Hospital, Mahidol University Bangkok, Thailand, 18th September 2017.
624. Management of severe perioperative bleeding and coagulopathy»at: Bangkok, Thailand, 18th September 2017.
625. Indikation zur Erythrozytentransfusion – welche Kriterien sind wann rational? . At: 19. Hauptstadtkongress der DGAI für Anästhesiologie und Intensivtherapie mit Pflegesymposium und Rettungsdienstforum, Berlin, Germany, 21th September 2017.
626. Programme national d'implémentation du Patient Blood Management: Expérience Australienne et Suisse. At: Annual Meeting of Société Française d'Anesthésie et de Réanimation (SFAR), Paris, France, 23rd September 2017.
627. Perioperatives Gerinnungsmanagement bei Blutungen. At: Point of Care Gerinnungsmonitoring in der Anästhesie und Notfallmedizin, Kempten, Germany, 26th September 2017.
628. Bleeding Management in Trauma. At: Seminar on Severe Bleeding Management - Patient Blood Management organized by Danube University Krems (DUK) – Weill Cornell Medicine-Qatar (WCM-Q), Doha, Qatar, 1th October 2017.
629. Bleeding Management in Cardiac Surgery. At: Seminar on Severe Bleeding Management – Patient Blood Management organized by Danube University Krems (DUK) - Weill Cornell Medicine-Qatar (WCM-Q), Doha, Qatar, 1th October 2017
630. Correcting pre-operative anemia and iron deficiency. At: Webinar of the Association of Anaesthetists of Great Britain and Ireland, 26th October 2017.

631. Goal-directed management of bleeding: Cardiovascular anesthesia. At: Korea Anesthesia 2017, Seoul, Korea, 3rd November 2017.
632. Perioperative managements of anti-coagulant: Cardiovascular anesthesia. At: Korea Anesthesia 2017, Seoul, Korea, 4th November 2017.
633. Introduction – News and views on antithrombotic therapy. At: SGAR Schweizerische Gesellschaft für Anästhesiologie und Reanimation, Congress Centre Kursaal Interlaken, Interlaken, Switzerland, 10th November 2017.
634. Perioperative Anämie & Stellenwert des patient blood management (PBM). At: SGAR Schweizerische Gesellschaft für Anästhesiologie und Reanimation, Congress Centre Kursaal Interlaken, Interlaken, Switzerland, 10th November 2017.
635. Patient Blood Management. At: DUK Seminar on the ESA guidelines in the Management of Severe Perioperative Bleeding, Altes Kloster, Hainburg/Donau, Austria, 14th November 2017.
636. Neues und ultra-neues im Patient Blood Management. At: Monatliches Symposium in Anästhesiologie, Intensivmedizin und Reanimatologie, Institute of Anesthesiology, University Hospital Zurich, Switzerland, 15th November 2017.
637. Patient Blood Management. At: 12. Klosterser Kolloquium Perioperatives Gerinnungsmanagement, Klosters, Switzerland, 24th November 2017.
638. Coagulopathy in post-partum & trauma bleeding. At: International Symposium of Patient Blood Management, Seoul, Korea, 1–2 December 2017.
639. Preoperative detection and treatment of anemia. At: International Symposium of Patient Blood Management, Seoul, Korea, 1-2 December 2017.
640. Europäische Trauma Guidelines. At: 17. Kongress der Deutschen Interdisziplinären Vereinigung für Intensiv- und Notfallmedizin, Congress Center Leipzig, Leipzig, Germany, 7th December 2017.
641. Gerinnungsmanagement von Traumapatienten. At: 13. Kurs Gerinnung in Anästhesie und Intensivmedizin, KTC Königstein, Germany, 20th January 2018.
642. Kann der Anästhesist das Patienten-Outcome verbessern.... Durch differenziertes Temperaturmanagement? At: 39. Internationales Symposium für Anästhesie, Intensivtherapie, Notfallmedizin und Schmerztherapie, St. Anton am Arlberg, Austria, 21th January 2018.
643. Patient Blood Management: Neue Entwicklungen. At: Blutspende SRK Zurich, Schlieren, Switzerland, 6th February 2018.
644. Anticipating loss: iron in the perioperative period/critical care» at: The European Iron Club, ETH Zurich, Switzerland, 8th February 2018.
645. Evidence-Based Patient Blood Management. At: Networks in Anaesthesiology and Surgery, Rome, Italy, 8th March 2018.
646. Management des Blutungsnotfalls - FFP: Risiken, Effizienz und Alternativen. At: Westdeutsche Anästhesietage, Ruhr Congress Bochum, Germany, 16th March 2018.
647. Treatment options in major trauma patients – change in transfusion paradigm. At: 38th ISICEM International Symposium on Intensive Care and Emergency Medicine, Brussels Meeting Center, Belgium, March 21–22, 2018.
648. Reversing anticoagulant effects: what are the options. At: 38th ISICEM International Symposium on Intensive Care and Emergency Medicine, Brussels Meeting Center, Belgium, March 21-22, 2018.

649. The bleeding trauma patient. At: 38th ISICEM International Symposium on Intensive Care and Emergency Medicine, Brussels Meeting Center, Belgium, March 21–22, 2018.
650. We should first reduce the need in bleeding patients. At: 38th ISICEM International Symposium on Intensive Care and Emergency Medicine, Brussels Meeting Center, Belgium, March 21-22, 2018.
651. Patient Blood Management: A Paradigm Shift in Quality of Care. At: 14th International Congress of update in Cardiology and Cardiovascular Surgery, Antalya, Turkey, 6th April 2018.
652. Patient Blood Management Überblick. At: Silamed 2018, Horgen, Switzerland, 24th April 2018.
653. Moderne Gerinnungsalgorithmen. At: Silamed 2018, Horgen, Switzerland, 24th April 2018.
654. Treatment options in major trauma patients – change in transfusion paradigms. At: 19th European Congress of Trauma and Emergency Surgery, Valencia, Spain, 7th May 2018.
655. Patient Blood Management. At: Asia Iron Academy, Singapore, 12th May 2018.
656. Iron deficiency is the disease - anaemia is just a consequence: NO. At: Asia Iron Academy, Singapore, 12th May 2018.
657. Patient Blood Management. At: USZ Seminar in PBM: Focus on Perioperative Bleeding Management, Altes Kloster, Hainburg/Donau, Austria, 14th June 2018.
658. Bleeding Management in Trauma. At: USZ Seminar in PBM: Focus on Perioperative Bleeding Management, Altes Kloster, Hainburg/Donau, Austria, 14th June 2018.
659. Bleeding Management in Cardiovascular Surgery. At: USZ Seminar in PBM: Focus on Perioperative Bleeding Management, Altes Kloster, Hainburg/Donau, Austria, 14th June 2018.
660. Einsatz von labilen Blutprodukten. At: 8. Basiskurs Perioperatives Gerinnungsmanagement, Uetliberg, Zurich, Switzerland, 23rd June 2018.
661. Patient Blood Management – der Standard heute. At: Klinik für Anästhesie und operative Intensivmedizin, Kantonsspital Aarau, Aarau, Switzerland, 27th June 2018.
662. The European way: Management bei massiver Hämorrhagie und Koagulopathie. At: Klinik für Anästhesiologie, Universitätsklinikum Heidelberg, Heidelberg, Germany, 3rd July 2018.
663. Perioperative management of anti-coagulated patients. At: Klinik für Thoraxchirurgie, UniversitätsSpital Zurich, Zurich, Switzerland, 6th July 2018.
664. Patient Blood Management: The Full Story. At: I International Symposium on the High-Risk Surgical Patient, São Paulo, Brazil, 3rd August 2018.
665. Patient Blood Management. At: I International Symposium on the High-Risk Surgical Patient, São Paulo, Brazil, 4th August 2018.
666. Goal directed therapy with thromboelastometry is better. At: I International Symposium on the High-Risk Surgical Patient, São Paulo, Brazil, 4th August 2018.
667. Management of Hemorrhagic shock. At: I International Symposium on the High-Risk Surgical Patient, São Paulo, Brazil, 4th August 2018.
668. Patient Blood Management. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management Altes Kloster, Hainburg/Donau, Austria, 7th September 2018.
669. Bleeding Management in Trauma. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management Altes Kloster, Hainburg/Donau, Austria, 7th September 2018
670. Europäische Traumabehandlungsrichtlinien. At: Klinische Umsetzung Patient Blood Management, Frankfurt, Germany, 15th September 2018.

671. Präoperative Anämie/Patient Blood Management. At: Klinisches Seminar für Haus- und Spitalärzte, See-Spital Horgen, Switzerland, 25th September 2018.
672. Novel anti-coagulants – DOAC what the anaesthetist should know. At: National Scientific Congress of the Australian Society of Anaesthetists, Adelaide, Australia, 6–7 October 2018.
673. How low can we go? Perioperative anaemia management in the context of Patient Blood Management. At: National Scientific Congress of the Australian Society of Anaesthetists, Adelaide, Australia, 6–7 October 2018.
674. ROTEM®: Introduction and overview. At: National Scientific Congress of the Australian Society of Anaesthetists, Adelaide, Australia, October 6–7 October 2018.
675. The role of bleeding management in the context of patient blood management. At: 34th World Congress of Internal Medicine, Cape Town, South Africa, 18th October 2018.
676. Point of care coagulation testing in Patient Blood Management. At: Department of Haematology, Groote Schuur Hospital, Cape Town, South Africa, 19th October 2018.
677. The role of bleeding management in the context of patient blood management. At: Department of Anaesthesiology, Groote Schuur Hospital, Cape Town, South Africa, 19th October 2018.
678. Whats all about – Patient Blood Management (PBM) Perioperative Bleeding Management (POB). At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, São Roque, Brazil, 29th October 2018.
679. Anemia Management: Iron & ESA's/ Hb triggers/ RBC. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, São Roque, Brazil, 29th October 2018.
680. Pharmacoeconomic Aspects of PBM/ POB/ True Costs of Allorgeneics. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, São Roque, Brazil, 30th October 2018.
681. Bleeding Management in Trauma. At: Interdisciplinary Meeting on Perioperative Bleeding Management and Patient Blood Management, São Roque, Brazil, 31th October 2018.
682. Outlook on SGAR Guidelines 2019 & NOAC in European Trauma Guidelines – What changes? At: Jahreskongress SGAR & SIGA, Interlaken, Switzerland, 8th November 2018.
683. Perioperative management of anti-coagulated patients and patients on platelet inhibitors. At: ORL-Fortbildung, Universitätsspital Zurich, Zurich, Switzerland, 29th November 2018.
684. Patient Blood Management. At: 13. Klosterser Kolloquium Perioperatives Gerinnungsmanagement, Klosters, Switzerland, 30th November 2018.
685. Perioperatives Management bei antikoagulierten Patienten. At: 13. Klosterser Kolloquium Perioperatives Gerinnungsmanagement, Klosters, Switzerland, 1st December 2018
686. Patient Blood Management. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management Altes Kloster, Hainburg/Donau, Austria, 5th December 2018.
687. Bleeding Management in Trauma. At: DUK Seminar in PBM: Focus on Perioperative Bleeding Management Altes Kloster, Hainburg/Donau, Austria, 5th December 2018.
688. Gerinnungsmanagement von Traumapatienten. At: 14. Kurs Gerinnung in Anästhesie und Intensivmedizin, KTC Königstein, Germany, 19th January 2019.
689. Hot Topics aus der SGAR / SSAR. At: 40. Internationales Symposium für Anästhesie, Intensivtherapie, Notfallmedizin und Schmerztherapie, St. Anton am Arlberg, Austria, 24th January 2019.

690. Patient Blood Management: Einführung in das Thema. At: 40. Internationales Symposium für Anästhesie, Intensivtherapie, Notfallmedizin und Schmerztherapie, St. Anton am Arlberg, Austria, 24th January 2019.
691. Managing pre-operative anaemia – the “Swiss” way. At: Anaemia and transfusion in anaesthesia and surgery, Associations of Anaesthetists of Great Britain and Ireland, London, 14th February 2019.
692. Management von schweren Blutungen beim Traumatpatienten: Bei stattgehabter Therapie mit gerinnungshemmenden Substanzen. At: Seminarkongress, Interdisziplinäre Intensivmedizin, Garmisch-Partenkirchen, Germany, 11th March 2019.
693. New Guidelines - Polytrauma. At: 39th ISICEM, International Symposium on Intensive Care and Emergency Medicine, Brussels Meeting Center, Belgium, 20th March 2019.
694. Pathophysiology of trauma and revised European trauma treatment guidelines. At: 39th ISICEM, International Symposium on Intensive Care and Emergency Medicine, Brussels Meeting Center, Belgium, 20th March 2019.
695. Perioperative coagulation. At: 39th ISICEM, International Symposium on Intensive Care and Emergency Medicine, Brussels Meeting Center, Belgium, 20th March 2019.
696. Anaemia: A major risk for cardiac complications of surgery. At: Cardiac Disease and Anaesthesia Symposium, Royal College of Anaesthetists, London, 4th April 2019.
697. Treatment of preoperative anaemia in cardiac surgery. At: 20th Annual Nata Symposium, Berlin, Germany, 5th April 2019.
698. Patient Blood Management: Anesthesiologist's view: Anemia management. At: Interdisciplinary Meeting on Bleeding Management in (Cardiac) Surgery and Obstetrics, Cesme, Izmir Region, Turkey, 17th April 2019.
699. Patient Blood Management: Anesthesiologist's view: Coagulation and transfusion management. At: Interdisciplinary Meeting on Bleeding Management in (Cardiac) Surgery and Obstetrics, Cesme, Izmir Region, Turkey, 17th April 2019.
700. Aktuelle Leitlinien zum Management von Blutungen und deren Umsetzung in die klinische Praxis. At: Update Gerinnungsmanagement, Hannover, Germany, 27th April 2019.
701. Perioperative anemia and iron deficiency in oncological surgery. At: EMBL Conference: 8th Congress of the international Biolron Society, EMBL Heidelberg Campus, Germany, 6th May 2019.
702. Is ignoring PBM medical negligence? At: Asia Iron Academy 2019, Hong Kong, China, 18th May 2019.
703. Patient Blood Management Treatment of preoperative anemia and iron deficiency. At: Klinik für Herzchirurgie, Universitätsspital Zurich, Zurich, Switzerland, 22nd May 2019.
704. Management of traumatic bleeding patient. At: Bleeding Management Course, Ljubljana, Slovenia, 24th May 2019.
705. Pathophysiology of trauma and revised European trauma guidelines. At: Euroanaesthesia 2019, Factor concentrates in the perioperative management of coagulopathy, satellite symposium, Messe Wien Congress Centre, Vienna, Austria, 2nd June 2019.
706. European trauma treatment guidelines: Red blood cell (RBC) transfusions: What is evidence based? At: Euroanaesthesia 2019, Messe Wien Congress Centre, Vienna, Austria, 3rd June 2019.
707. Einsatz von labilen Blutprodukten. At: 9. Basiskurs Perioperatives Gerinnungsmanagement, Klosters, Zurich, Switzerland, 22nd June 2019.

708. The European Trauma Treatment Guidelines, 5th Edn. At: Fortbildungsveranstaltung des Instiuts für Anästhesiologie, Universitätsspital Zürich, Zurich, Switzerland, 21th August 2019.
709. Patient Blood Management Treatment of preoperative anemia and iron deficeiny. At: Fortbildungsveranstaltung der Klinik für Gefässchirurgie, Universitätsspital Zurich, Zurich, Switzerland, 4th September 2019.
710. Patient Blood Management Treatment of preoperative anemia and iron deficiency in cardiac surgery. At: Fortbildungsveranstaltung, Klinik für Kardiologie, Kantonsspital St. Gallten, St. Gallen, Switzerland, 6th September 2019.
711. Patient Blood Management: A focus on (preoperative) anemia treatement. At: Woman's Health & Overall Wellness (WOW) Asia Tour, Philippines College of Hemetology, Manila Philippines, 8th September 2019.
712. Patient Blood Management: A focus on (preoperative) anemia treatement. At: Woman's Health & Overall Wellness (WOW) Asia Tour, Asian Hospital and Medical Center, Manila Philippines, 9th September 2019.
713. Patient Blood Management: A focus on (preoperative) anemia treatement. At: Woman's Health & Overall Wellness (WOW) Asia Tour, Captial Medical Center, Manila Philippines, 9th September 2019.
714. Patient Blood Management: A focus on (preoperative) anemia treatement. At: Woman's Health & Overall Wellness (WOW) Asia Tour, Marco Polo Ortigas, Manila Philippines, 9th September 2019.
715. Patient Blood Management: A focus on (preoperative) anemia treatement. At: Woman's Health & Overall Wellness (WOW) Asia Tour, De Los Santos medical Center, Manila Philippines, 10th September 2019.
716. PBM implementation and its benefit to the patients and institution. At: Woman's Health & Overall Wellness (WOW) Asia Tour, De los Santos Medical Center, Manila Philippines, 10th September 2019.
717. Patient Blood Management: A focus on (preoperative) anemia treatement. At: Woman's Health & Overall Wellness (WOW) Asia Tour, Makati Medical Center, Manila Philippines, 10th September 2019.
718. PBM implementation and its benefit to the patients and institution. At: Woman's Health & Overall Wellness (WOW) Asia Tour, Makati Medical Center, Manila Philippines, 10th September 2019.
719. Patient Blood Management: A focus on (preoperative) anemia treatement. At: Woman's Health & Overall Wellness (WOW) Asia Tour, St. Luke's Medical Center Quezon City, Manila Philippines, 11th September 2019.
720. PBM implementation and its benefit to the patients and institution. At: Woman's Health & Overall Wellness (WOW) Asia Tour, St. Luke's Medical Center Quezon City, Manila Philippines, 11th September 2019.
721. Patient Blood Management: A focus on (preoperative) anemia treatement. At: Woman's Health & Overall Wellness (WOW) Asia Tour, University Santo Tomas Hospital, Manila Philippines, 11th September 2019.
722. PBM implementation and its benefit to the patients and institution. At: Woman's Health & Overall Wellness (WOW) Asia Tour, University Santo Tomas Hospital, Manila Philippines, 11th September 2019.
723. Antikoagulation und Gerinnungsmanagement. At: Masterkurs Alterstraumatologie, University Hospital Zurich, Zurich, Switzerland, 19th September 2019.
724. Patient Blood Management - auch auf der Intensivstation? / Idealversion. At: Hauptstadt kongress der DGAI, Estrel Congress Center, Berlin, Germany, 20th September 2019.

725. Patient Blood Management. A Focus on Anemia management. At: Turkey PBM Consensus Working Group, Ministry of Health, Bilkent City Hospital Campus, Ankara, Turkey, 25th September 2019.
726. Patient Blood Management. Implementation and Success. At: Turkey PBM Consensus Working Group, Ministry of Health, Bilkent City Hospital Campus, Ankara, Turkey, 25th September 2019.
727. Facts about blood availability and use in clinical practice, impact of blood transfusions for the healthcare system and at hospital level. At: Blood Transfusion Multi-Stakeholder Round Table, Brussels, Belgium, 26th September 2019.
728. Massive bleeding in Trauma. At: Octopharma Academy, Bleeding Management Course, Jakarta, Indonesia, 4th October 2019.
729. Bleeding management in specialised indications: in Perioperative cardiac surgery. At: Octopharma Academy, Bleeding Management Course, Jakarta, Indonesia, 5th October 2019.
730. Practical approach to management of traumatic bleeding patient. At: Bleeding Management Course, Prague, Czech Republic, 18th October 2019.
731. PBM – a myth becoming a reality? At: National Croatian Patient Blood Management Meeting, Zagreb, Croatia, 26th October 2019.
732. Implementation of PBM concept: USZ practice. At: National Croatian Patient Blood Management Meeting, Zagreb, Croatia, 26th October 2019.
733. A focus on preoperative anemia & iron deficiency treatment. At: Korea Anesthesia 2019, Paradise City, Incheon, Korea, 1st November 2019.
734. Einsatz labiler Blutprodukte. At: 5th ROTEM Workshop, University Hospital Zurich, Zurich, Switzerland, 4th November 2019.
735. Patient Blood Management Concept: the standard of care! At: Patient Blood Management (PBM), Ljubljana, Slovenia, 22nd November 2019.
736. Practical aspects of preoperative anemia and iron deficiency treatment. At: Patient Blood Management (PBM), Ljubljana, Slovenia, 22nd November 2019.
737. Physical Consequences of Anaemia & Iron Deficiency. At: DUK Seminar in Patient Blood Management: focus on Anemia and Iron, Hainburg/Donau, Austria, 26th November 2019.
738. Anaemia Management: Implementation Strategies. At: DUK Seminar in Patient Blood Management: focus on Anemia and Iron, Hainburg/Donau, Austria, 26th November 2019.
739. Anaemia Management: Cost implications. At: DUK Seminar in Patient Blood Management: focus on Anemia and Iron, Hainburg/Donau, Austria, 26th November 2019.
740. Patient Blood Management. At: 14. Klosterser Kolloquium, Perioperatives Gerinnungsmanagement, Klosters, Switzerland, 29th November 2019.
741. European Trauma Treatment Guideline: Update 2019. At: 14. Klosterser Kolloquium, Perioperatives Gerinnungsmanagement, Klosters, Switzerland, 29th November 2019.
742. Preoperative anemia prevention and the effect on PBM protocols. At: Interdisciplinary Seminar on Perioperative Bleeding and Patient Blood Management in Cardiac Surgery, City Hospital Campus, Ankara, Turkey, 6th December 2019.
743. PBM in Cardiac Surgery-Anesthesiologist Perspective. At: Interdisciplinary Seminar on Perioperative Bleeding and Patient Blood Management in Cardiac Surgery, City Hospital Campus, Ankara, Turkey, 6th December 2019.

744. Patient Blood Management. At: Interdisciplinary Seminar on Perioperative Bleeding and Patient Blood Management in Mother and Child, Gazi University Hospital, Ankara, Turkey, 7th December 2019.
745. Patient Blood Management Sharing experience from Switzerland. At: FGBU "National Medical Research Center for Obstetrics, Gynecology and Perinatology named after acad. V. I. Kulakov" at Ministry of Health of The Russian Federation, Moscow, Russia, 11th December 2019.
746. Patient Blood Management Implementation experience from Zurich Clinical and economic outcome. At: National Medical Research Center of Cardiovascular Surgery named after A. N. Bakulev of the Health Ministry of the Russian Federation, Moscow, Russia, 12th December 2019.
747. Use of blood products – USZ Patient Blood Management. At: Mittwochs-Lunch-Fortbildung, Klinik für Kardiologie, Universitätsspital Zurich, Zurich, Switzerland, 15th January 2020.
748. Timing of preoperative anemia and iron deficiency treatment. At: Mittwochs-Fortbildung, Institut für Anästhesiologie, Universitätsspital Zurich, Zurich, Switzerland, 22nd January 2020.
749. Patient Blood Management – Anemia management + Pharmaeconomics. At: Focus on Patient Blood Management in Cardiac Surgery, Thessaloniki, Greece, 8th February 2020.
750. Patient Blood Management Cardiac-Anesthesiologist Perspective. At: Focus on Patient Blood Management in Cardiac Surgery, Thessaloniki, Greece, 9th February 2020.
751. Patient Blood Management – Whats about and Pharmaeconomics. At: PBM Spin Off Seminar, Interdisciplinary Approach in POB/PBM in Cardiac Surgery, Vienna, Austria, 16th February 2020.
752. Perioperative Optimierung der Erythropoese. At: Morgenvorlesung der Universitätsklinik für Anästhesie, Medical University of Vienna, Vienna, Austria, 19th February 2020.
753. Patient Blood Management, The 3 pillar success story. At: IV Russian National Congress on Emergency Condition in Obstetrics, Online format, 20th April 2020.
754. IV Iron Management of Anaemia: A Cornerstone of Patient Blood Management. At: Empowering Women's Health, Hong Kong Clinical Blood Management Society, Webinar, 27th April 2020.
755. Guidance for patient blood management in the evolving coronavirus (covid 19) pandemic. At: Empowering Women's Health, Philippines, Webinar, 28th April 2020.
756. IV Iron Management of Anemia: A Cornerstone of Patient Blood Management. At: Empowering Women's Health, Thailand HCPs #1, Webinar, 29th April 2020.
757. Tips on driving advocacy on high dose IV iron management of pre-operative ID/IDA and why this is important for patient blood management. At: Empowering Women's Health, Zuellig Pharma Educational, Webinar, 30th April 2020.
758. IV Iron Management of Anaemia: A Cornerstone of Patient Blood Management. At: Empowering Women's Health, Thailand HCPs #2, Webinar, 1st May 2020.
759. Guidance for anaemia and Patient Blood Management in the evolving coronavirus (Covid 19) pandemic. At: Call for Action: The Essential Role of Patient Blood Management in and beyond the COVID 19 Pandemic, Webinar, 29th May 2020.
760. European current approaches to PBM in COVID19 crisis and the challenges (patient cases). At Patient Blood Management during covid-19: focus on perioperative cares, Iranian Society of Cardiac Anesthesia, Webinar, 7th June 2020.
761. Lessons learnt in the COVID-19 pandemic. At: Patient Blood Management after the COVID-19 surge, Association of Anaesthetists of Great Britain and Ireland, Webinar, 23rd Juni, 2020.

762. Bluttransfusionen – Zeugen Jehovas. At: interner Fortbildung, Klinik für Gynäkologie, Universitätsspital Zurich, Zurich, Switzerland, 7th July 2020.
763. Patient Blood Management: Die zentrale Rolle des Hausarztes. At: Allgemeine Innere Medizin Update Refresher, Kameha Grand Zürich, livestream, 21th August 2020.
764. International experiences in patient blood management during COVID19 pandemic from Switzerland. At: Patient Blood Management during covid-19, Tehran, Online Webinar, 2nd September 2020.
765. Bleeding Management in Cardiovascular Surgery. At: interner Fortbildung, Klinik für Herzchirurgie, Universitätsspital Zurich, Switzerland, 23rd September 2020.
766. Management of iron deficiency anaemia in the perioperative period – why and when? At: Network for the Advancement of Patient Blood Management, Haemostasis and Thrombosis, CME Webinar, 28th September 2020.
767. Patient Blood Management: Anemia Prevention. At: Interdisciplinary Team Approach in Bleeding Situations, Patient Blood Management (PBM), Webinar, 19th October 2020.
768. Iron Deficiency/Iron Deficiency Anemia in Cardiac Surgery – International perspectives. At: 1st Russian Virtual Iron Academy, Webinar, 22nd October 2020.
769. Patient Blood Management Implementation: Switzerland – a 7 point plan. At: Interdisciplinary Team Approach in Bleeding Situations, Patient Blood Management (PBM), Webinar, 23rd October 2020.
770. Perioperative management of patients with rivaroxaban. At: Swiss Anaesthesia 2020 Joint annual congress SGAR - SIGA, Webinar, 29th October 2020.
771. Implementation of Patient Blood Management – a 7-point plan. At: KoreaAnesthesia2020, Grand Hyatt Incheon, Korea, Webinar, 6th November 2020.
772. Individualized goal-directed coagulation management in trauma. At: Euroanaesthesia2020, the Annual Congress of the ESAIC, Webinar, 29th November 2020.
773. Patient Blood Management at 15. Klosterser Kolloquium, Perioperatives Gerinnungsmanagement, Webinar, 4th December 2020.
774. Blutgerinnung bei COVID-19 at 15. Klosterser Kolloquium, Perioperatives Gerinnungsmanagement, Webinar, 5th December 2020.
775. Patient Blood Management in Cardiac Surgery: International Experience at XXVI Russian congress of Cardiosurgery, Scientific Symposia PBM in Cardiosurgery», Webinar, 8th December 2020.
776. Should you use IV iron with EPO to treat pre-operative IDA? At: Winter Scientific Meeting 2021, Webinar, 13th January 2021.
777. Patient Blood Management: A focus on preoperative anemia and iron deficiency treatment. At: Patient Blood Management: Optimizing perioperative anemia management with high dose iv iron, Webinar, 24th February 2021.
778. Management of iron deficiency and anaemia in the surgical patient – a case based discussion. At: CME Satellite Symposium and Case Training Session during the 21th Annual Nata Symposium, Webinar, 12th April 2021.
779. Anaemia management in surgery – does one size fit all? At: CME Satellite Symposium and Case Training Session during the 21th Annual Nata Symposium, Webinar, 12th April 2021.
780. Anaemia management in surgery – does one size fit all? At: CME Satellite Symposium and Case Training Session during the 21th Annual Nata Symposium, Webinar, 13th April 2021.

781. Management of iron deficiency and anaemia in the surgical patient – a case based discussion. At CME Satellite Symposium and Case Training Session during the 21th Annual Nata Symposium, Webinar, 13th April 2021.
782. Perioperative management of iron deficiency / anemia in cardiac surgery. At: Monatliches Symposium in Anästhesiologie, Intensivmedizin und Reanimatologie, Institute of Anesthesiology, University Hospital Zurich, Webinar, 21th April 2021.
783. Perioperative management of ID/IDA in cardiac-surgery patients. At: Iranian Annual Congress on Cardiac Anesthesiology, Webinar, 22nd April 2021.
784. Transfusion Strategy: When (RBC) transfusions are needed and when not. At: Second Russian Congress of Transfusion Medicine Specialists in Moscow and ONLINE, Webinar, 14th May 2021.
785. Time matters: Why there is an urgent need for point-of-care coagulation management. At: The 1st International Interdisciplinary Congress, Patient Blood Management in Clinical Medicine, in Moscow / Webinar, 1st June 2021.
786. Perioperative anemia in cardiac surgery. Experience of the University Hospital of Zurich. Patient routing. Controlling. Screening. Protocols. At: The 1st International Interdisciplinary Congress, Patient Blood Management in Clinical Medicine, in Moscow / Webinar, 2nd June 2021.
787. Patient Blood Management and the role of intravenous iron. At: Pharmacosmos ANAEMIA TALKS webinars, 10th June 2021.
788. Preoperative anemia and ERAS. At: 2nd ERAS Congress, in Turkey, Webinar, 11th June 2021.
789. PBM and the role of intravenous iron. At: Chinese ANAEMIA TALKS, Webinar, 18th June 2021.
790. Transfusion Strategy: When (RBC) transfusions are needed and when not. At: Annual Convention of the Philippines Society of Anaesthesiology, Webinar, 19th June 2021.
791. How to implement Patient Blood Management: The central role of the general practitioner. At: Iron Academy 2021, Lausanne, Webinar, 1st July 2021.
792. Overview on current treatment options for FXa-inhibitor-associated bleeds - the anesthesiologist's view. At: Therapeutic gap in the treatment of FXa-inhibitor associated bleeds, Webinar, 4th August 2021.
793. Einsatz labiler Blutprodukte at 6. ROTEM Workshop – Perioperatives Gerinnungsmanagement am IFA, UniversitätsSpital Zurich, Webinar, 23rd August 2021.
794. Patient Safety in Acute Care setting – the role of POC coagulation testing: Implication for clinical practice. At: Patient Safety Webinar Werfen, “World Patient Safety Day” 17th September 2021.
795. Success of Patient Blood Management: The role of iv iron. At: Symposium at the Romanian National Congress of Anaesthesia and Intensive Care - v-SRATI 2021, Webinar, 19th September 2021.
796. Patient Blood Management: current success and future potential. At: Education Anaesthesiology, Balgrist University Hospital in Zürich, Webinar, 29th September 2021.
797. Success of Patient Blood Management: The role of iv iron. At: 10th International Baltic Congress of Anaesthesiology, Intensive Care and Pain Management, Latvia, Virtual Event, 07th October 2021.
798. Supporting judicious blood usage with Patient Blood Management. At: LIVE LiFe Summit virtual meeting, 16th October 2021.
799. European Trauma Treatment Guidelines: Coagulation management of the anticoagulated trauma patient. At: 3rd Swiss Orthogeriatrics Day 2021, UniversitätsSpital Zurich, Switzerland, 27th October 2021.

800. Let's put the updates Guidelines for Rivaroxaban and Anesthesiology into perspective. At: SwissAnesthesia 2021, Geneva, Switzerland, 27th October 2021.
801. Implementation of patient blood management: success factors and pitfalls. At: KoreaAnesthesia 2021, Busan, Korea, Webinar, 5th November 2021.
802. Cell salvage in cancer surgery. At: KoreaAnesthesia 2021, Busan, Korea, Webinar, 5th November 2021.
803. Hot Topics in PBM: Not all anemia is iron deficiency anemia, advanced individualized and goal-directed coagulation management, and cell salvage in cancer surgery. At: PBM Congress Australia, Perth, Australia, Webinar, 6th November 2021.
804. Patient Blood Management: Stepwise Implementation, Difficulties, Conflicts and the Power of Data. At: Postgraduate Education Department of Cardiovascular Surgery, City Hospital Campus, Ankara, Turkey, Webinar, 10th November 2021.
805. Patient Blood Management. At: 16. Kolloquium für Perioperative Gerinnung, Arosa, Switzerland, 19th November 2021.
806. Perioperatives Gerinnungsmanagement im klinischen Alltag: Andexanet Alfa Grundlagen. At: 16. Kolloquium für Perioperative Gerinnung, Arosa, Switzerland, 20th November 2021.
807. Patient Blood Management: The Zurich way. At: Jornada sobre "Patient Blood Management" y cirugía sin sangre, Son Llàtzer University Hospital, Palma, Mallorca, Webinar, 18th February 2022.
808. Patient Blood Management: Treating preoperative anemia. At: 41st ISICEM International Symposium on Intensive Care and Emergency Medicine, Brussels Convention Center, Belgium, 23rd March 2022.
809. Coagulation management in the anticoagulated trauma patient. At: 41st ISICEM International Symposium on Intensive Care and Emergency Medicine, Brussels Convention Center, Belgium, 23rd March 2022.