

Patientenveranstaltung «Lymphome»

Prof. Dr. med. Thorsten Zenz

Erik Aerts

PD Dr. med. Alexandre Theocharides

Medizinische Onkologie und Hämatologie

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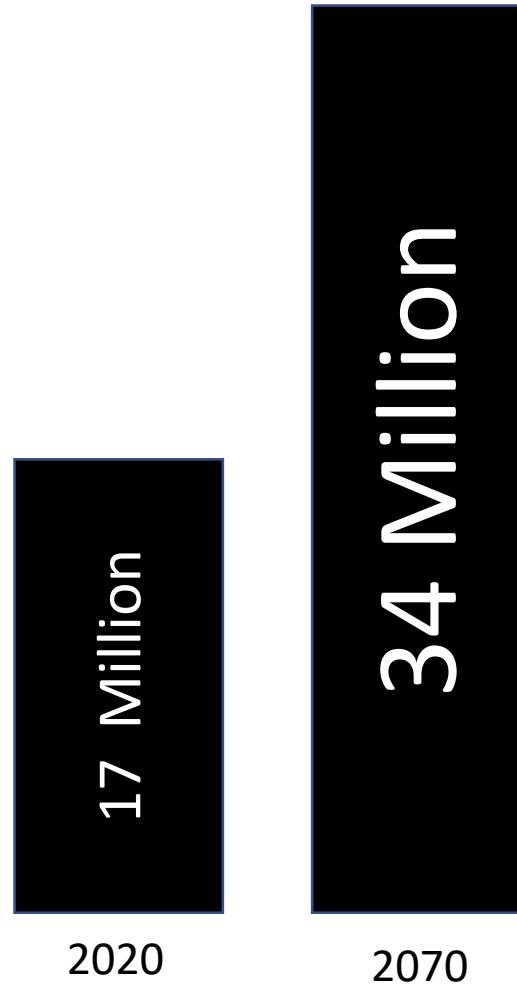
Programm

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|------------------|------------------------------------|
| 1. Einleitung | PD Dr. med. Alexandre Theocharides |
| 2. Pflegeaspekte | Erik Aerts |
| 3. Hauptreferat | Prof. Dr. med. Thorsten Zenz |
| 4. Diskussion | Alle |

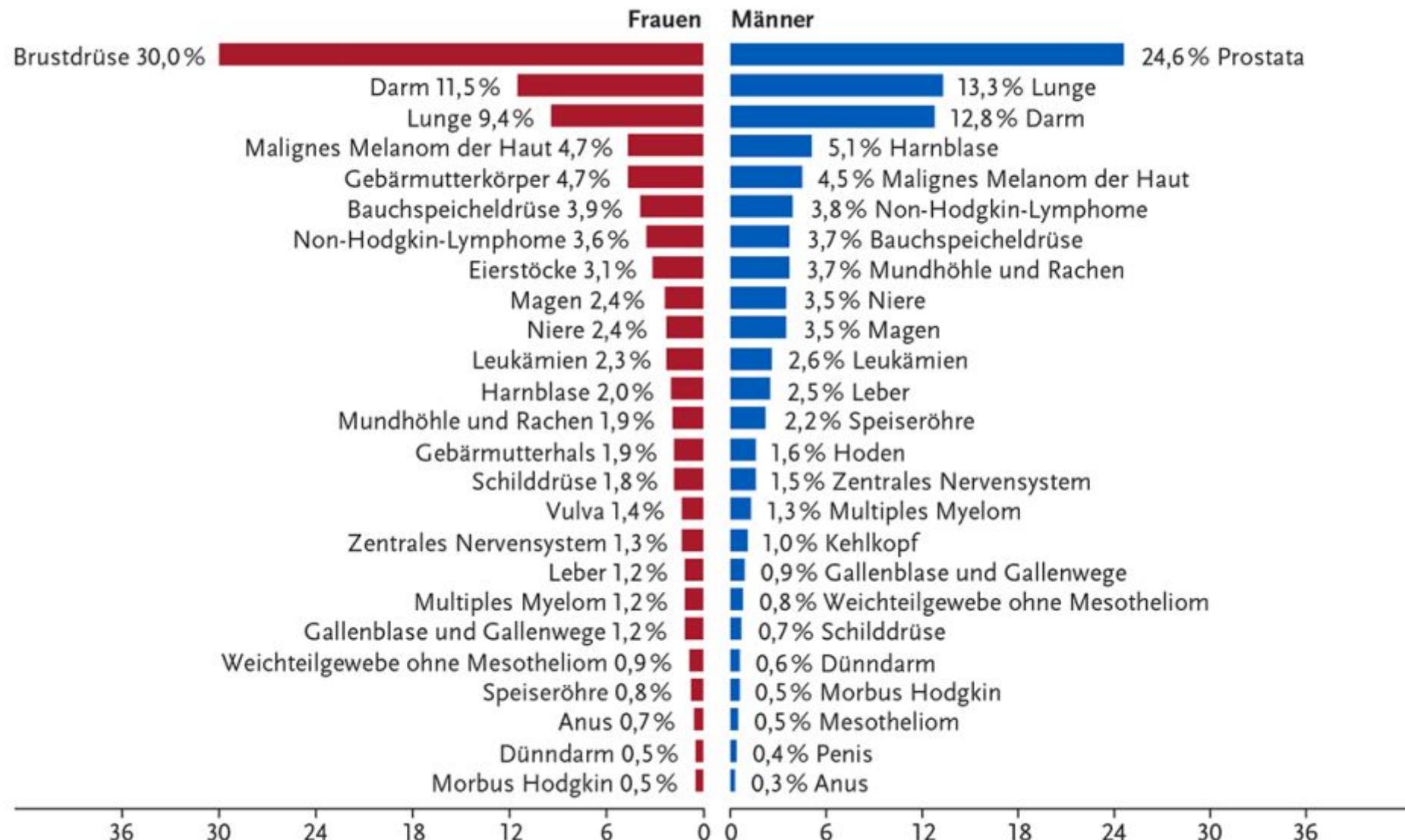
GLOBALE KREBS-INZIDENZ

Verdoppelung der Krebs-Inzidenz bis 2070 vorausgesagt

Entspricht 34 Millionen Krebs-Neudiagnosen in 2070



Nat Rev Clin Oncol . 2021 Oct;18



Lymphome machen ca. 4% aller Krebserkrankungen aus

2. Pflegerische Aspekte

Pflegerische Aufgaben

- Stationäre und ambulante Betreuung und Begleitung
- Verabreichung und Überwachung von Therapien
- Durchführung / Mithilfe bei diagnostischen Massnahmen
- Psychosoziale Begleitung



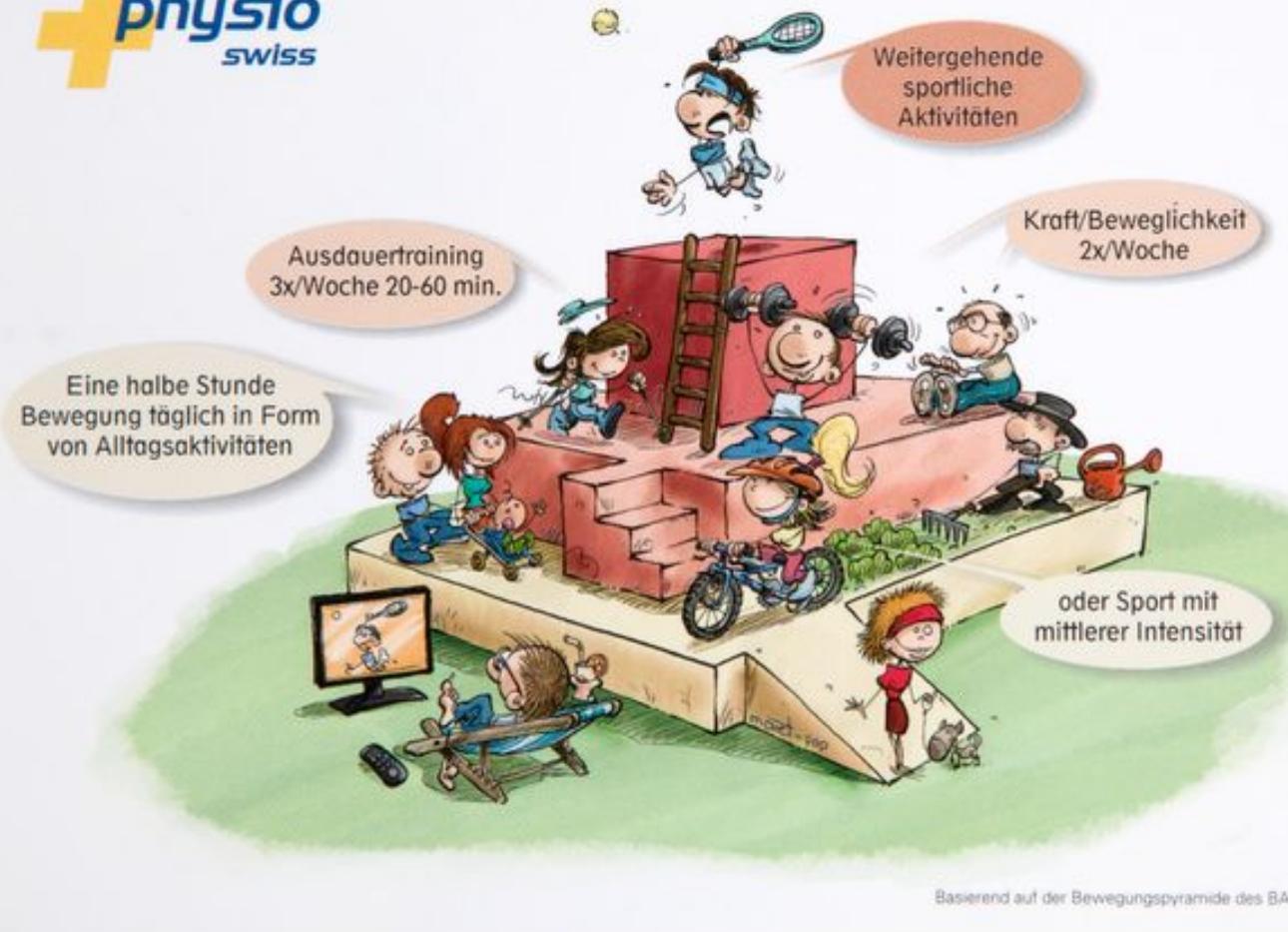
Pflegerische Schwerpunkte

- Durchführung und Begleitung während der Therapie
- Verabreichung und Überwachung der Chemotherapie, Medikamente und Blutprodukte gemäss ärztlicher Verordnung
- Sorgfältige Überwachung und Beobachtung der Patienten, Einsatz systematischer Assessmentinstrumente, z.B. **Belastungsthermometer**
- Überwachung von venösen Zugängen / Blutentnahmen
- Sicherstellung einer kontinuierlichen Betreuung



Pflegerische Beratung

- Umgang mit Symptomen und Nebenwirkungen
- Fatigue (Müdigkeit)
 - Ruhepausen in Alltag einplanen
 - Gute Phasen nutzen
 - Körperliche Aktivität aufrechterhalten
- Appetitlosigkeit
 - regelmässig kleine Mahlzeiten über den Tag verteilt
 - (kalorienreiche) Zwischenmahlzeiten / Getränke
- Ansprechpersonen vermitteln (z.B. Ernährungsberatung, ...)

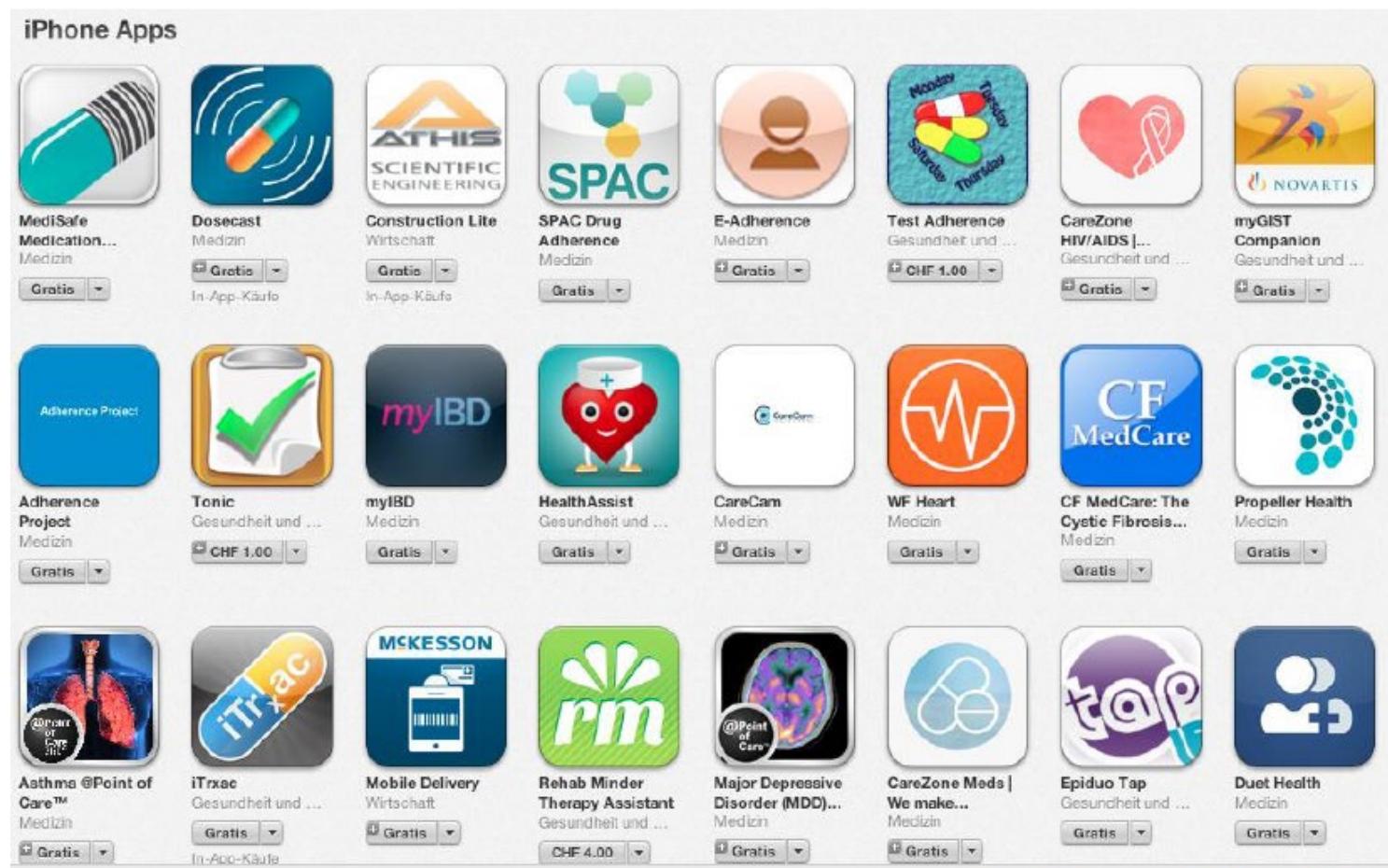


Positive Auswirkungen des körperlichen Trainings

- Muskelkraft +
- Ausdauer +
- Fatigue +
- Angst, Selbstwahrnehmung
- Lebensqualität +



Medikamenteneinnahme

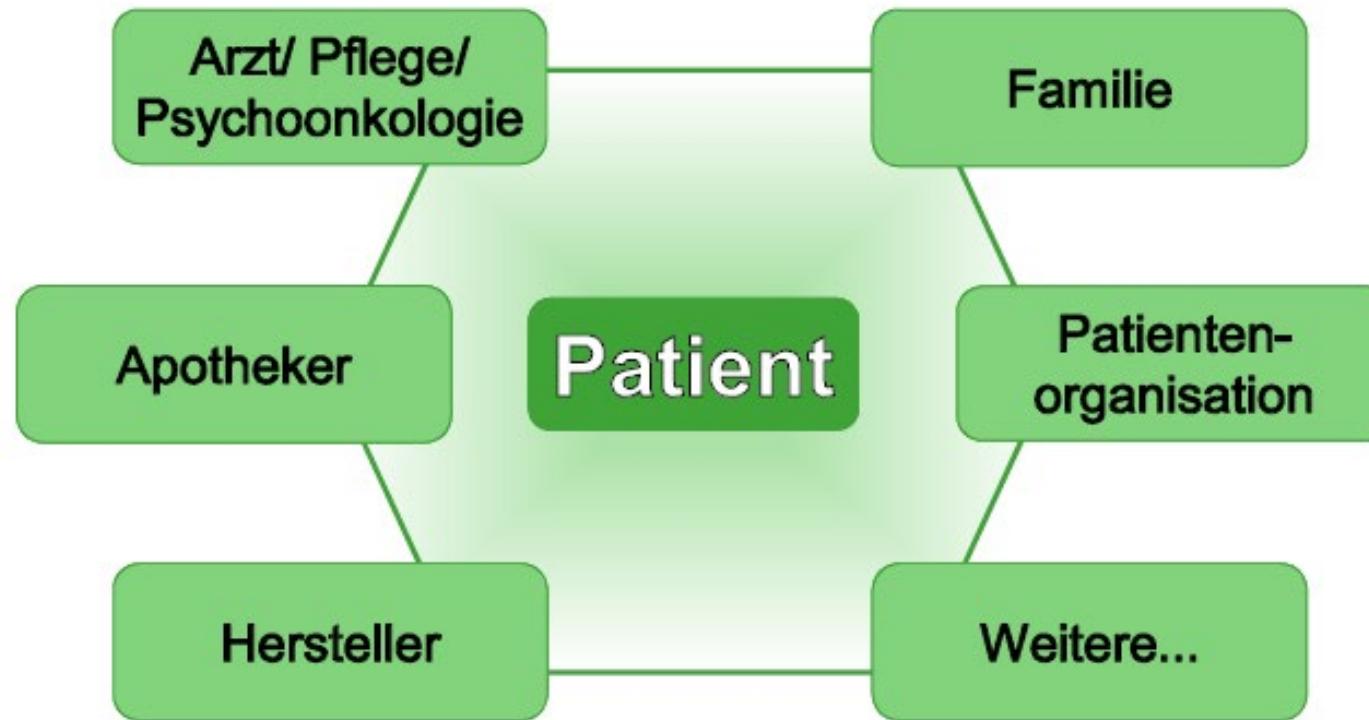


iTunes Auszug vom 11.05.2014

www.lymphome.ch



Zusammenarbeit zwischen...



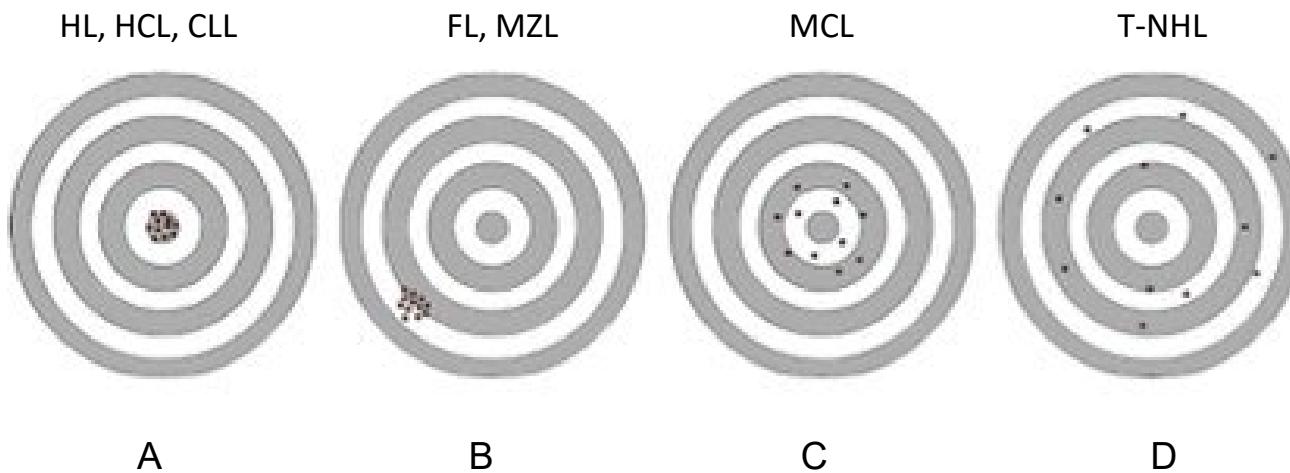
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(Arnet & Hersberger, 2010)

3. Lymphome

Patientenveranstaltung

Lymphome



THE UPDATED WHO CLASSIFICATION OF HEMATOLOGICAL MALIGNANCIES

The 2016 revision of the World Health Organization classification of lymphoid neoplasms

Table 1. 2016 WHO classification of mature lymphoid, histiocytic, and dendritic neoplasms

Mature B-cell neoplasms
Chronic lymphocytic leukemia/small lymphocytic lymphoma
Monodonal B-cell lymphocytes*
B-cell prolymphocytic leukemia
Splenomegaly-associated B-cell lymphoma
Hairy cell leukemia
Splenic B-cell lymphoma/leukemia, unclassifiable
Spicule diffuse red pulp small B-cell lymphoma
Hairy cell leukemia-variant
Lymphoplasmacytic lymphoma
Waldenström macroglobulinemia
Monodonal gammopathy of undetermined significance (MGUS), IgM
μ heavy chain disease
λ heavy chain disease
Intraocular lymphoma
Monodonal gammopathy of undetermined significance (MGUS), IgG*
Plasma cell myeloma
Solitary plasmacytoma of bone
Extraosseous plasmacytoma
Monodonal immunoglobulin deposition diseases*
Extranodal marginal zone lymphoma of mucosa-associated lymphoid tissue (MALT) lymphoma
Nodal marginal zone lymphoma
Pediatric nodal marginal zone lymphoma
Follicular lymphoma
In situ follicular neoplasia*
Ductal type follicular lymphoma*
Pediatric-type follicular lymphoma*
Large B-cell lymphoma with IRF4 rearrangement*
Primary cutaneous follicle center lymphoma
Mantle cell lymphoma
In situ mantle cell neoplasia*
Diffuse large B-cell lymphoma (DLBCL), NOS
Generalized centrocytic B-cell type*
Adult centrocytic B-cell type*
T-cell/histiocyte-rich large B-cell lymphoma
Primary DLBCL of the central nervous system (CNS)
Primary cutaneous DLBCL, leg type
EBV ⁺ DLBCL, NOS*
EBV ⁺ mucocutaneous ulcer*
DLBCL associated with chronic inflammation
Lymphomatoid granulomatosis
Primary mediastinal (thymic) large B-cell lymphoma
Intravascular large B-cell lymphoma
ALK ⁺ large B-cell lymphoma
Plasmablastic lymphoma
Primary effusion lymphoma
HHV8 ⁺ DLBCL, NOS*
Burkitt lymphoma
Burkitt-like lymphoma with t(11q aberration)*
High-grade B-cell lymphoma, with MYC and BCL2 and/or BCL6 rearrangements*
High-grade B-cell lymphoma, NOS*
B-cell lymphoma, unclassifiable, with features intermediate between DLBCL and classical Hodgkin lymphoma
Mature T and NK neoplasms
Cytotoxic T-cell lymphoma
T-cell large granular lymphocytic leukemia
Chronic lymphoproliferative disorder of NK cells
Aggressive NK-cell leukemia
Systemic EBV ⁺ T-cell lymphoma of childhood*
Hydroa vacciniforme-like lymphoproliferative disorder*
Adult T-cell leukemia/lymphoma
Extranodal NK/T-cell lymphoma, nasal type
Enteropathy-associated T-cell lymphoma

Table 1. (continued)

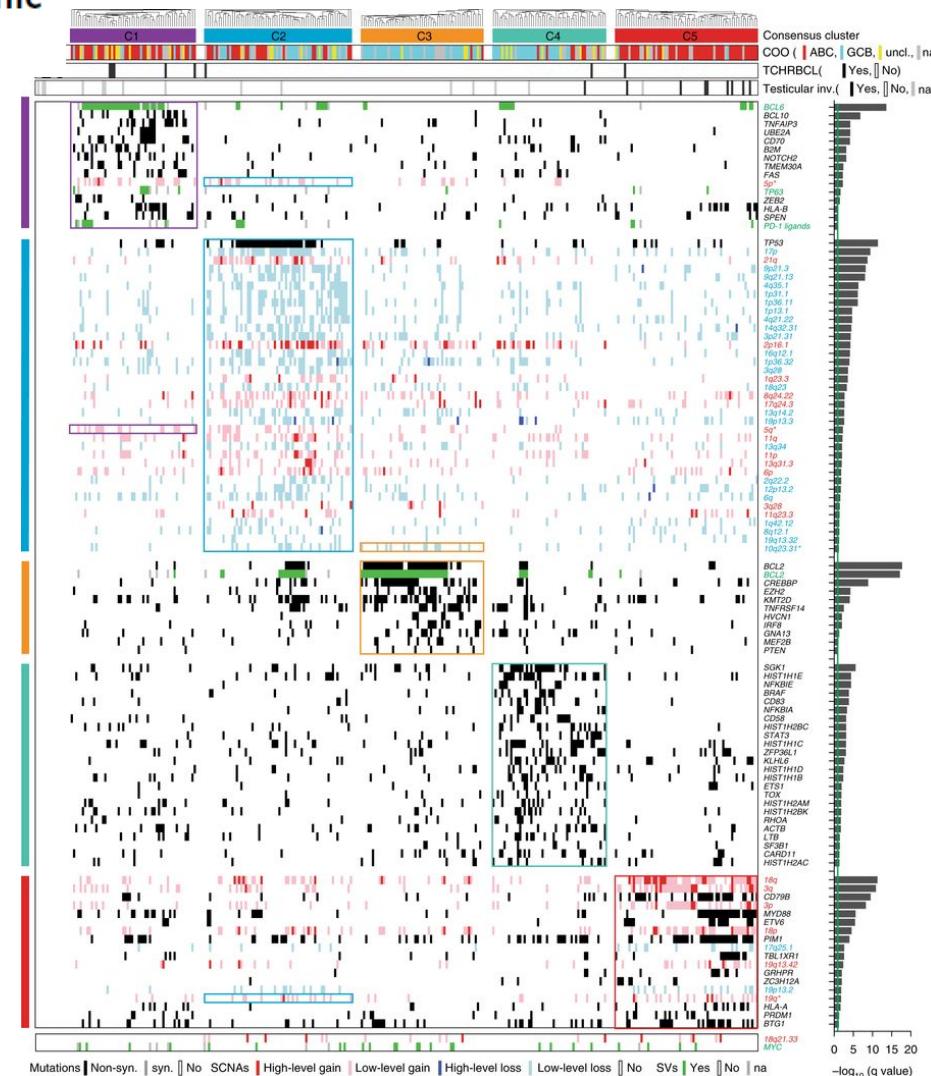
Monomorphic epitheliotopic intestinal T-cell lymphoma*
Indolent T-cell lymphoproliferative disorder of the GI tract*
Hepatosplenic T-cell lymphoma
Subcutaneous panniculitis-like T-cell lymphoma
Mycosis fungoides
Sézary syndrome
Peripherally located CD30 ⁺ T-cell lymphoproliferative disorders
Lymphomatoid papulosis
Primary cutaneous anaplastic large cell lymphoma
Primary cutaneous γδ T-cell lymphoma
Primary cutaneous acral CD3 ⁺ T-cell lymphoma
Primary cutaneous acral CD3 ⁺ T-cell lymphoma*
Primary cutaneous CD4 ⁺ small/medium T-cell lymphoproliferative disorder*
Peripherally located T-cell lymphoma, NOS
Angiocentric/angiomatoid T-cell lymphoma
Follicular T-cell lymphoma*
Nodular lymphocytoid T-cell lymphoma with TFH phenotype*
Anaplastic large-cell lymphoma, ALK ⁺ *
Anaplastic large-cell lymphoma, ALK ⁻ *
Breast implant-associated anaplastic large-cell lymphoma*
Hodgkin lymphoma
Nodular lymphocyte predominant Hodgkin lymphoma
Classical Hodgkin lymphoma
Nodular sclerosing classical Hodgkin lymphoma
Lymphocyte-rich classical Hodgkin lymphoma
Mixed cellularity classical Hodgkin lymphoma
Lymphocyte-predominant classical Hodgkin lymphoma
Posttransplant lymphoproliferative disorders (PTLD)
Plesiomorphic hyperplasia PTLD
Infectious mononucleosis PTLD
Follicular hyperplasia PTLD*
Polytypic PTLD
Monomorphic PTLD (B- and T-/NK-cell types)
Classical Hodgkin lymphoma PTLD
Histiocytic and dendritic cell neoplasms
Histiocytoma
Langerhans cell histiocytosis
Langerhans cell sarcoma
Indolent/dendritic cell tumor
Interdigitating dendritic cell carcinoma
Follicular dendritic cell tumor
Fibrotic/reticular cell tumor
Disseminated juvenile xanthogranuloma
Erdheim-Chester disease*

*Provisional entities are listed in italics.

*Changes from the 2008 classification.

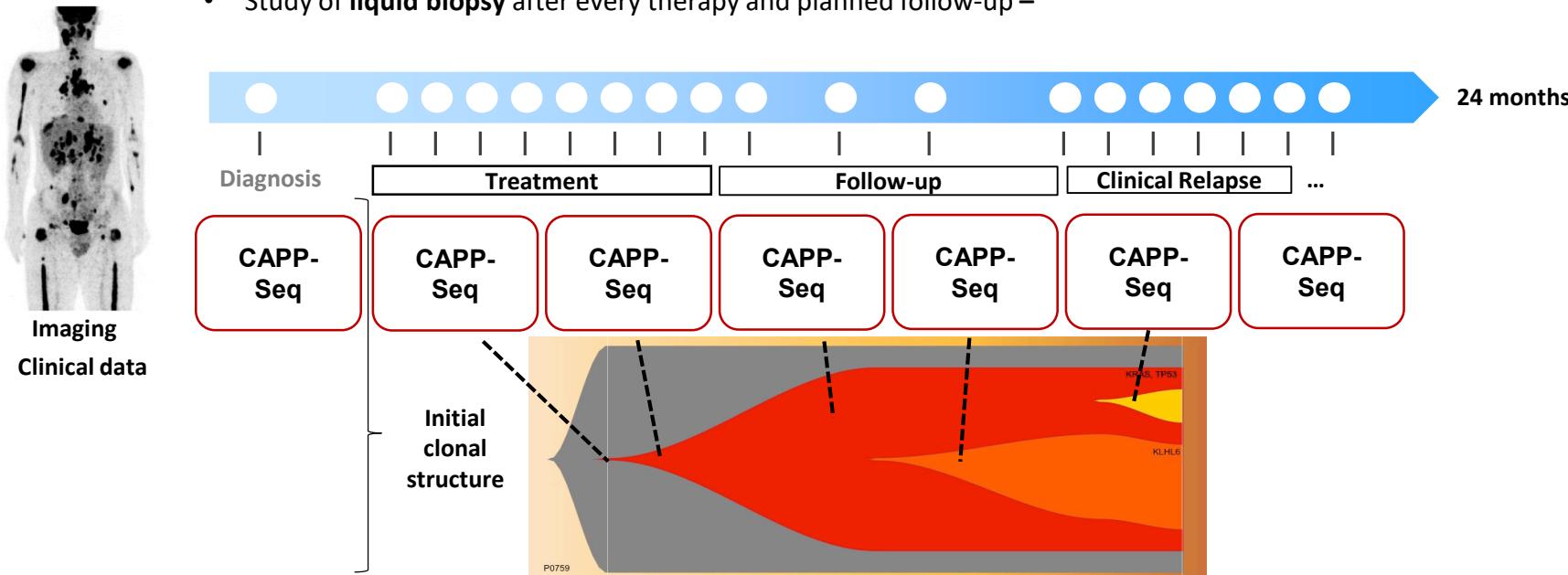
small population, but in others associated with a lymphocytosis.⁴ Whereas in 2008 it was unknown whether MBL was a precursor of CLL, we now know that MBL precedes virtually all cases of CLL/smallymphocytic lymphoma (SLL).⁵ The updated WHO will retain the current criteria for MBL, but will emphasize that "low-count" MBL defined as a PB CLL count of <0.5 × 10⁹/L, must be distinguished from "high-count" MBL, because low count MBL has significant differences from CLL, an extremely limited, if any, chance of progression, and, until new evidence is provided, does not require routine follow-up outside of standard medical care.^{5,6} In contrast, high-count MBL requires routine yearly follow-up, and has very similar phenotypic and genetic/molecular features as Rai stage 0 CLL, although immunoglobulin heavy chain variable region (IGHV)-mutated cases are more frequent in MBL.⁸ Also impacting our diagnostic criteria, the revision will eliminate the option to diagnose CLL with <5 × 10⁹/L PB CLL cells in the absence of extramedullary

Molecular subtypes of diffuse large B cell lymphoma are associated with distinct pathogenic mechanisms and outcomes



Clonal evolution by circulating tumour DANN

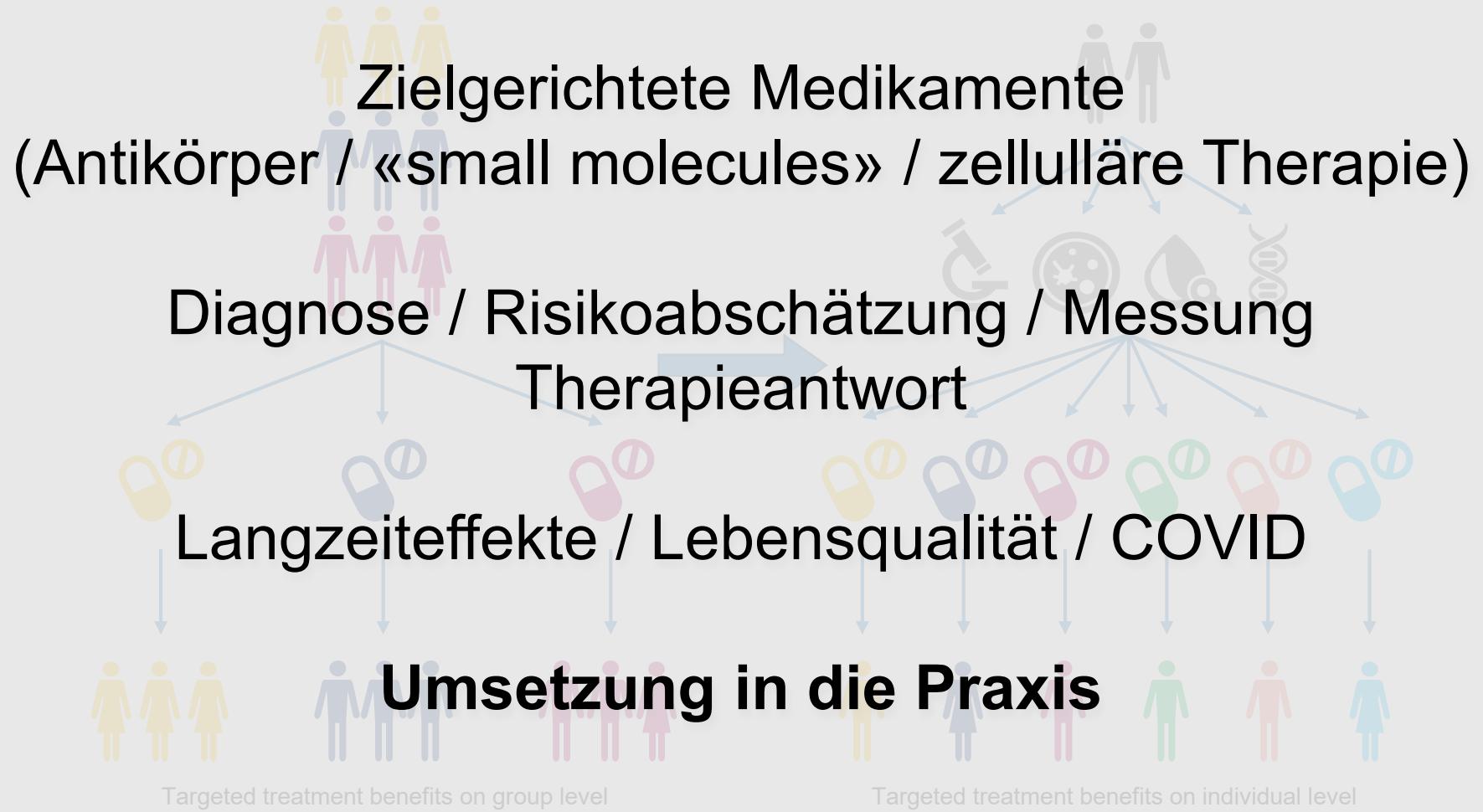
Spuren des Lymphoms im Blut nachweisen



Zusammenfassung

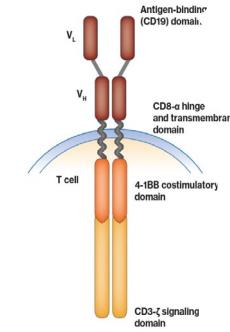
Stratified Medicine
„One size does not fit all“

Personalized Medicine
„Treatment for each size“



Präzisionsmedizin in der Therapie der Lymphome

Gentherapie (CAR-T)



Messbare Resterkrankung/funktionelle Bildgebung

Immuntherapie

Präzise Strahlentherapie

Zielgerichtete Inhibitoren
(essentieller Signalwege des Tumors)

Fallbeispiel: 32-jährige Patientin

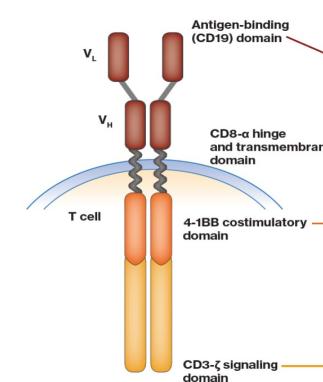
Chemoimmuntherapie und
CAR-T refraktäres DLBCL



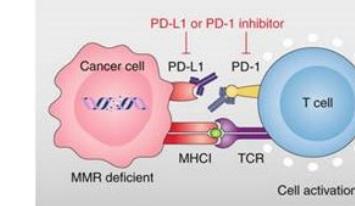
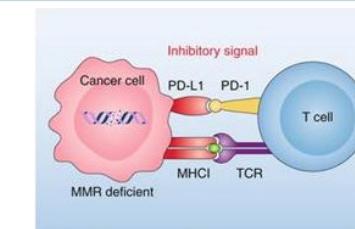
R-CHOP

3 Zyklen R-ICE +
Brentuximab

CAR-T



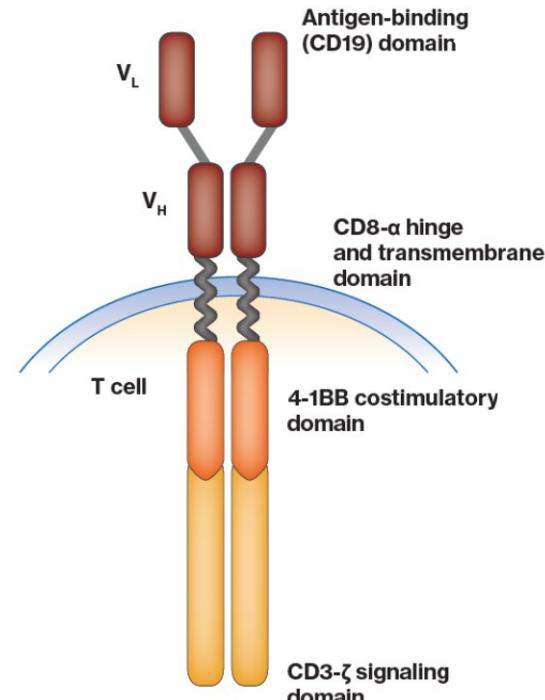
Checkpoint Inhibitor



Chimeric Antigen Receptor T Cell Therapy- Tisagenlecleucel (CTL019)1-3

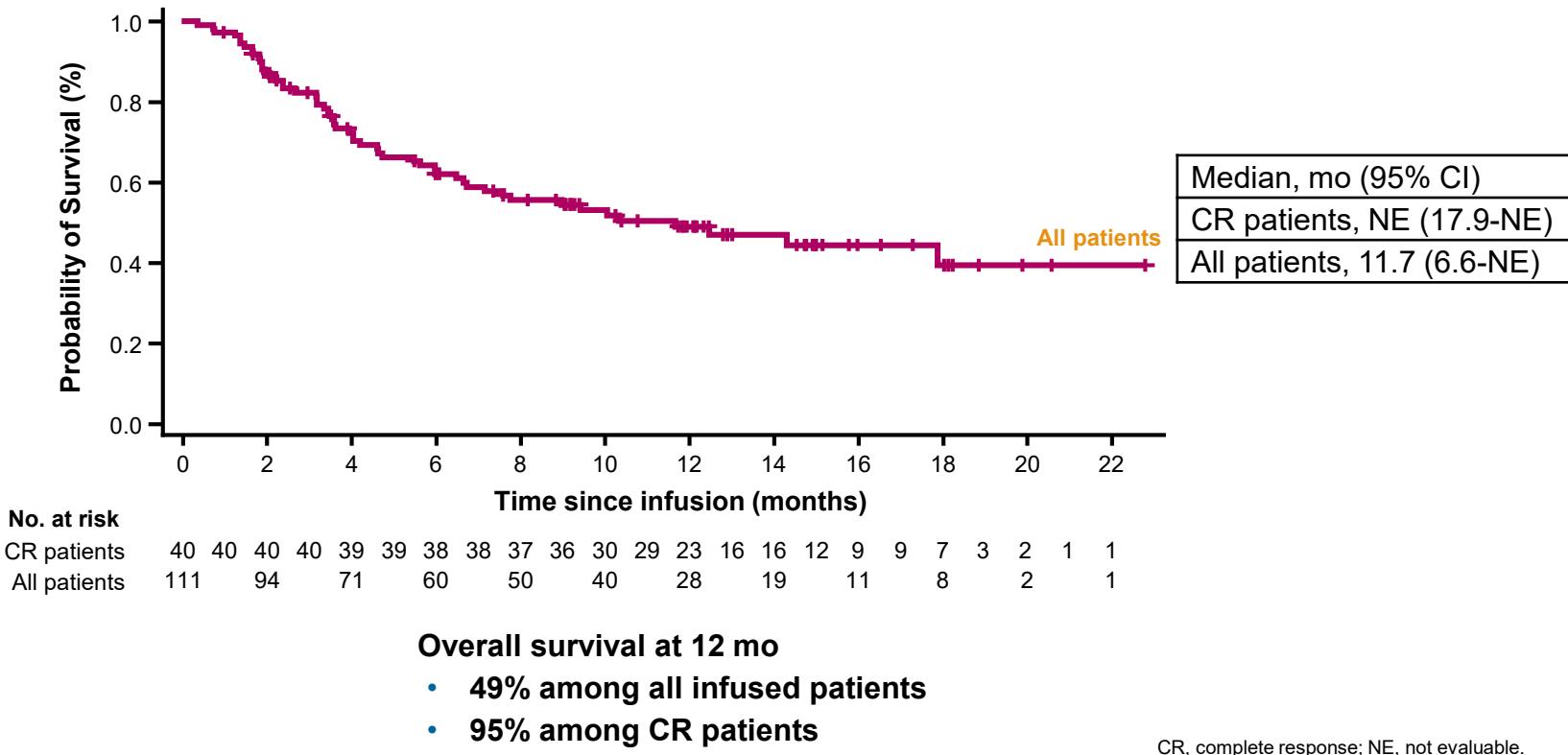
First approved CAR-T cell therapy in the United States

- August 2017: for patients up to 25 years of age with B-cell precursor ALL refractory or in second or later relapse
- May 2018: for adult patients with r/r DLBCL after 2 or more lines of systemic therapy, based on the phase 2 JULIET study



1. Milone MC, et al. *Mol Ther.* 2009;17:1453-1464. 2. Zhang H, et al. *J Immunol.* 2007;179:4910-4918.
3. Kalos M, et al. *Sci Transl Med.* 2011;3:95ra73.

JULIET Studie: CAR-T Zelltherapie



NZZ 7.1.22

«Dann hast du keine Chance»:
Eine Krankenkasse lässt ihren Kunden
sterben, weil das rettende Medikament zu
teuer ist

In der Grundversicherung gelten theoretisch
für alle die gleichen Regeln.

Kritiker sprechen von einer «Lotterie».

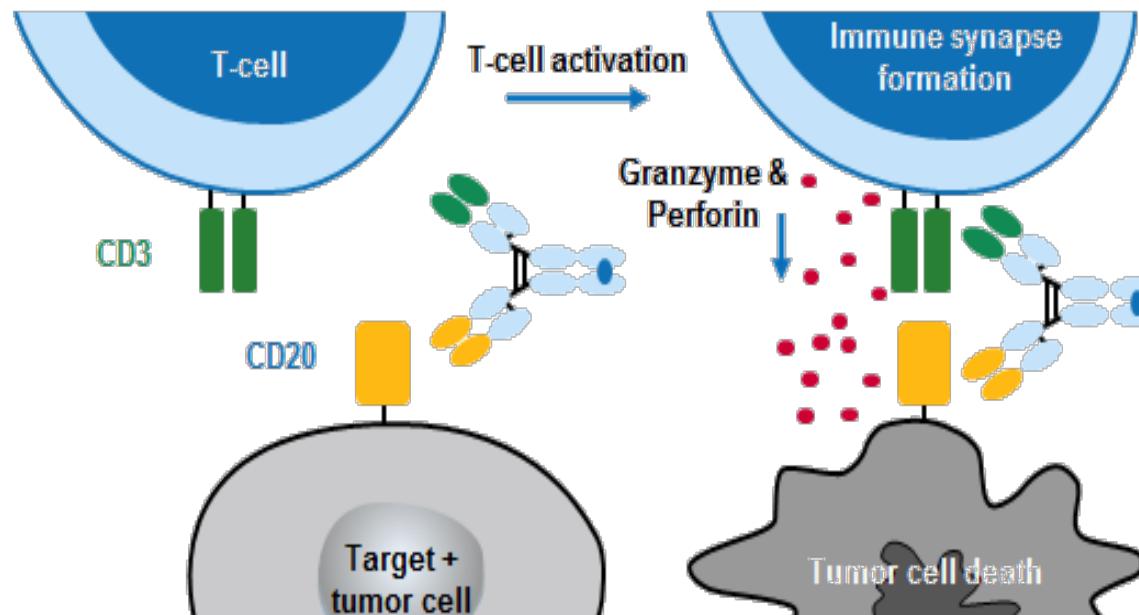
CAR-T vs. Bispezifische Antikörper

Mosunetuzumab Induces Complete Remissions In Poor Prognosis Non-Hodgkin Lymphoma Patients, Including Those Who Are Resistant To Or Relapsing After Chimeric Antigen Receptor T-cell (CAR-T) Therapies, And Is Active In Treatment Through Multiple Lines

Stephen J Schuster et al

Hintergrund bispezifische AK

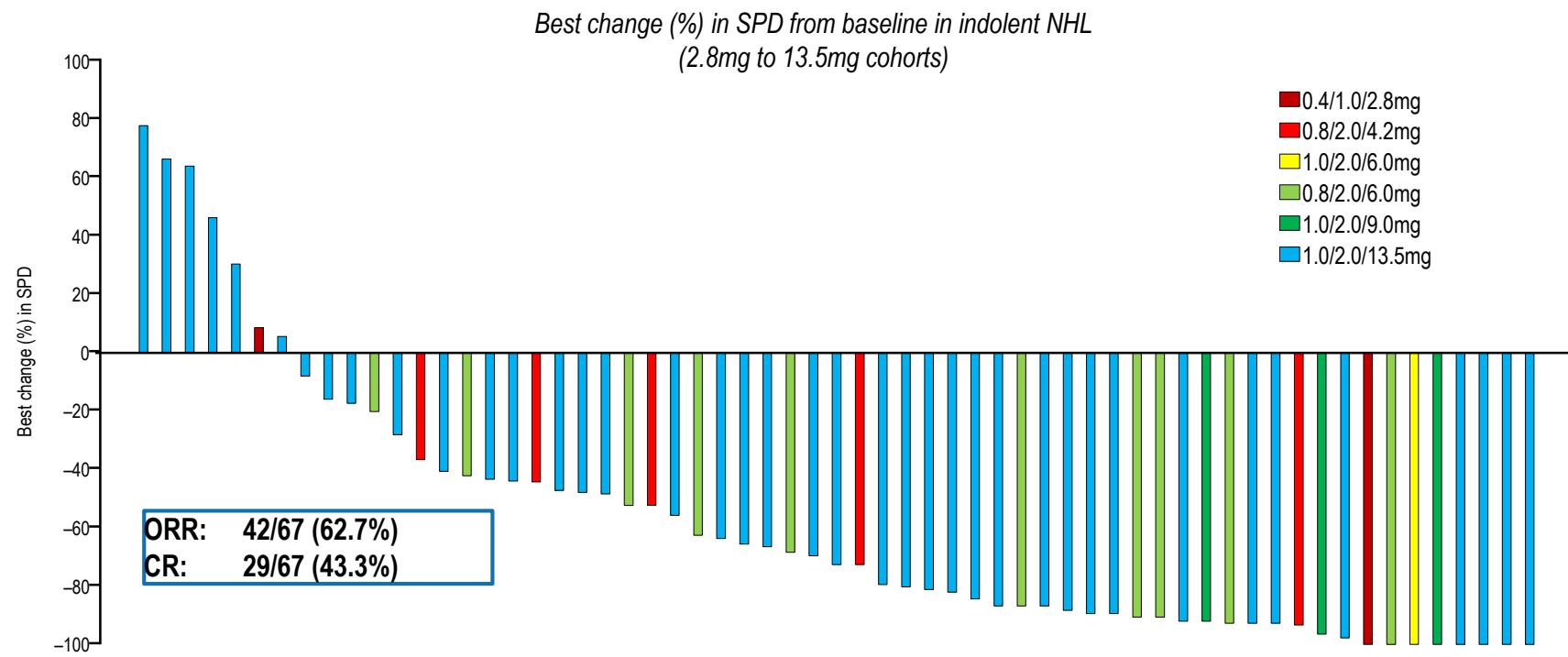
- Mosunetuzumab (RG7828; BTCT4465A)



Registry number: NCT02500407

CRS, cytokine release syndrome; NHL, non-Hodgkin lymphoma; pts, patients;
R/R, relapsed or refractory; TILs, tumor-infiltrating lymphocytes

Objective response rate in indolent NHL



Indolent NHL: FL (Grade 1–3A), marginal zone lymphoma and small lymphocytic lymphoma
CCOD: Aug 9, 2019

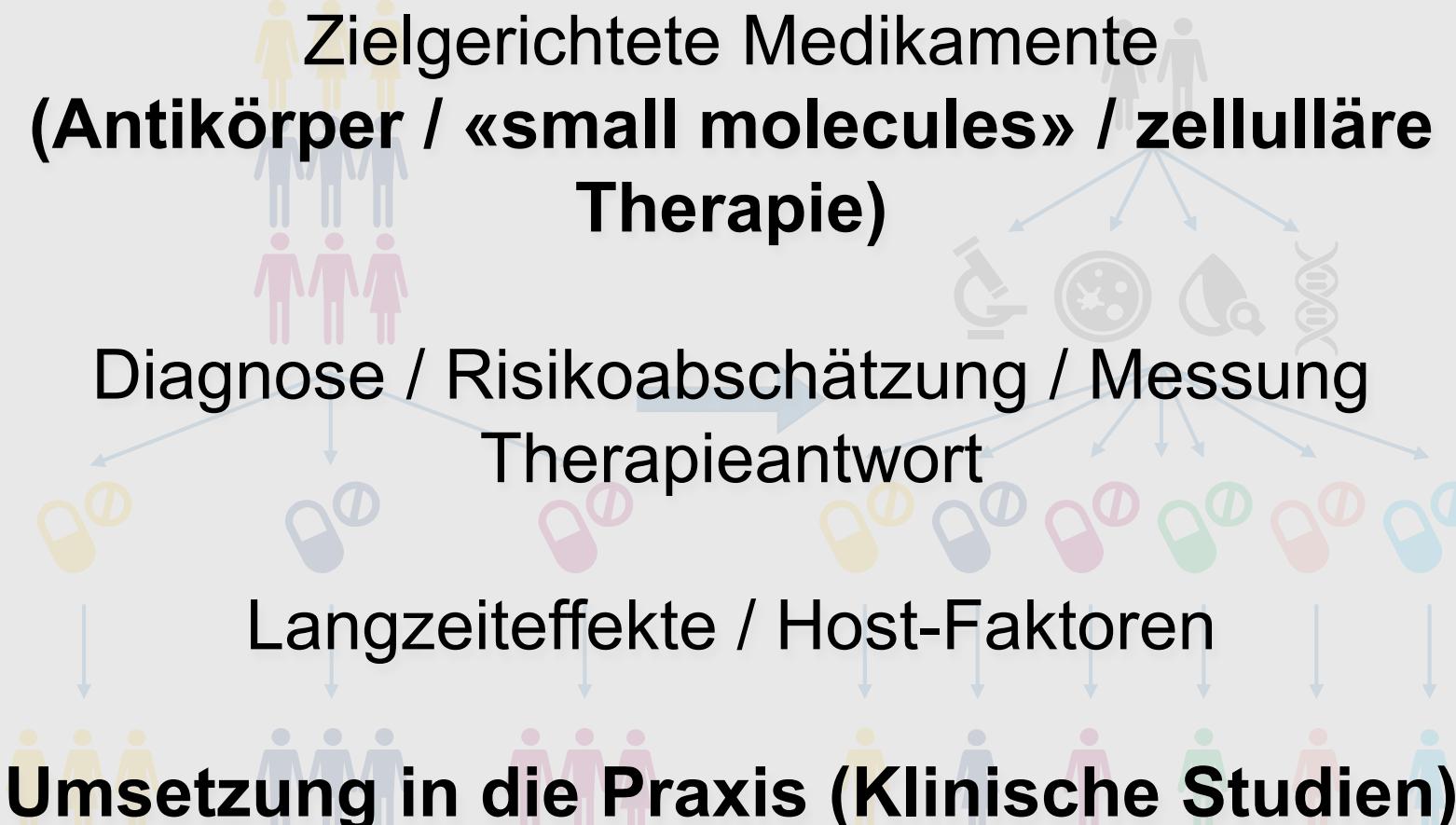
Zusammenfassung

Stratified Medicine

„One size fits many“

Personalized Medicine

„One fit for each size“



Studien am USZ (Lymhome - Auswahl)

A multi-center, open label, uncontrolled, phase II clinical trial evaluating the safety and efficacy of Venetoclax in combination with Atezolizumab and Obinutuzumab in Richter Transformation of CLL

A Phase III, Open-Label, Multicenter, Randomized Study Evaluating the Efficacy and Safety of **Glofitamab in Combination with Gemcitabine plus Oxaliplatin versus Rituximab** in Combination with Gemcitabine and Oxaliplatin in Patients with Relapse/Refractory Diffuse Large B Cell Lymphoma

A Randomized, Double-blind, Placebo-Controlled, Active-Comparator, Multicenter, Phase 3 Study of **Brentuximab Vedotin** or Placebo in Combination With **Lenalidomide and Rituximab** in Subjects with Relapsed or Refractory Diffuse Large B-cell Lymphoma (DLBCL)

Assessing a **ctDNA and PET-oriented therapy** in patients with DLBCL, a multicenter, open-label, phase II trial

CLL17



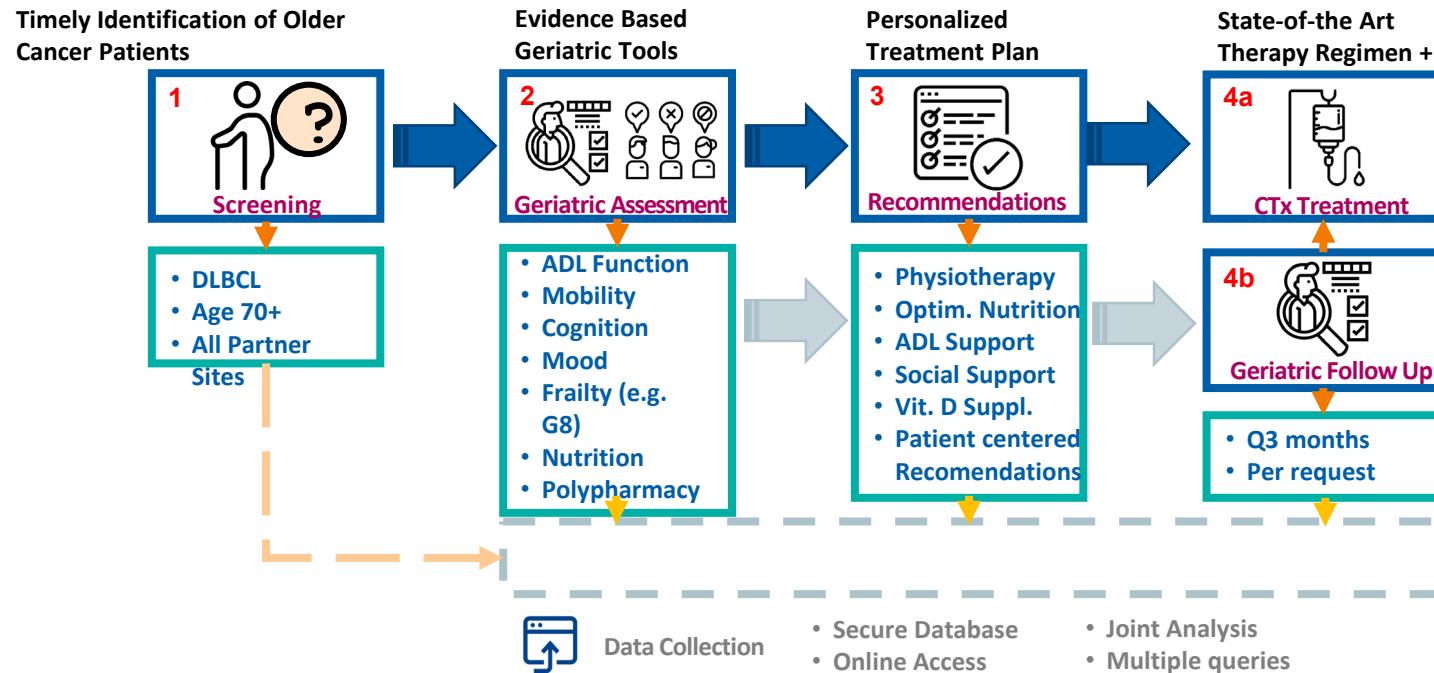
H. Bischoff-Ferrari/ M. Gagesch



W. Rösler

Zusammenarbeit Altersmedizin Lymphome

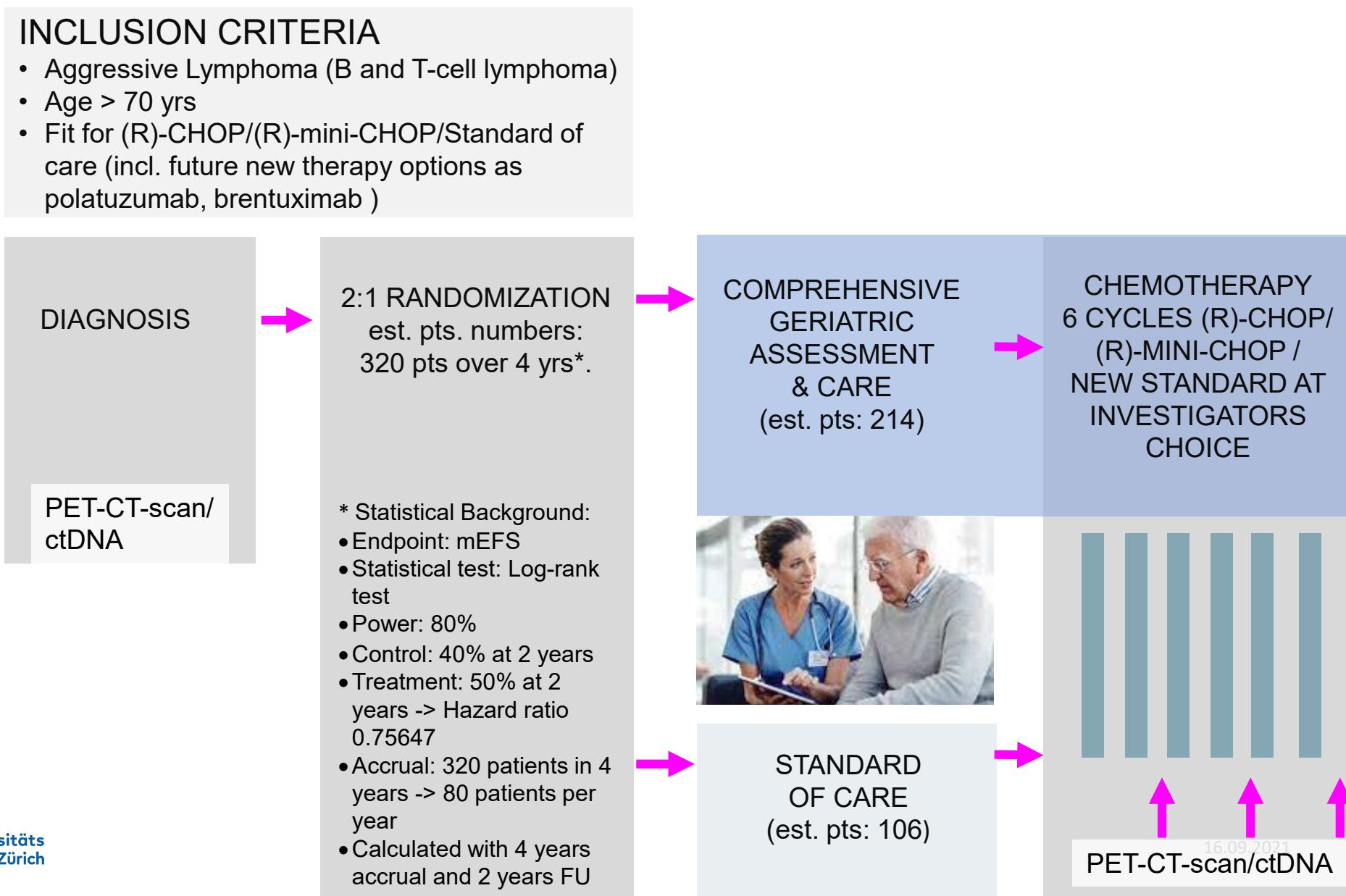
Effect of Geriatric Assessment on Treatment Outcomes in Older Adult Patients with DLBCL



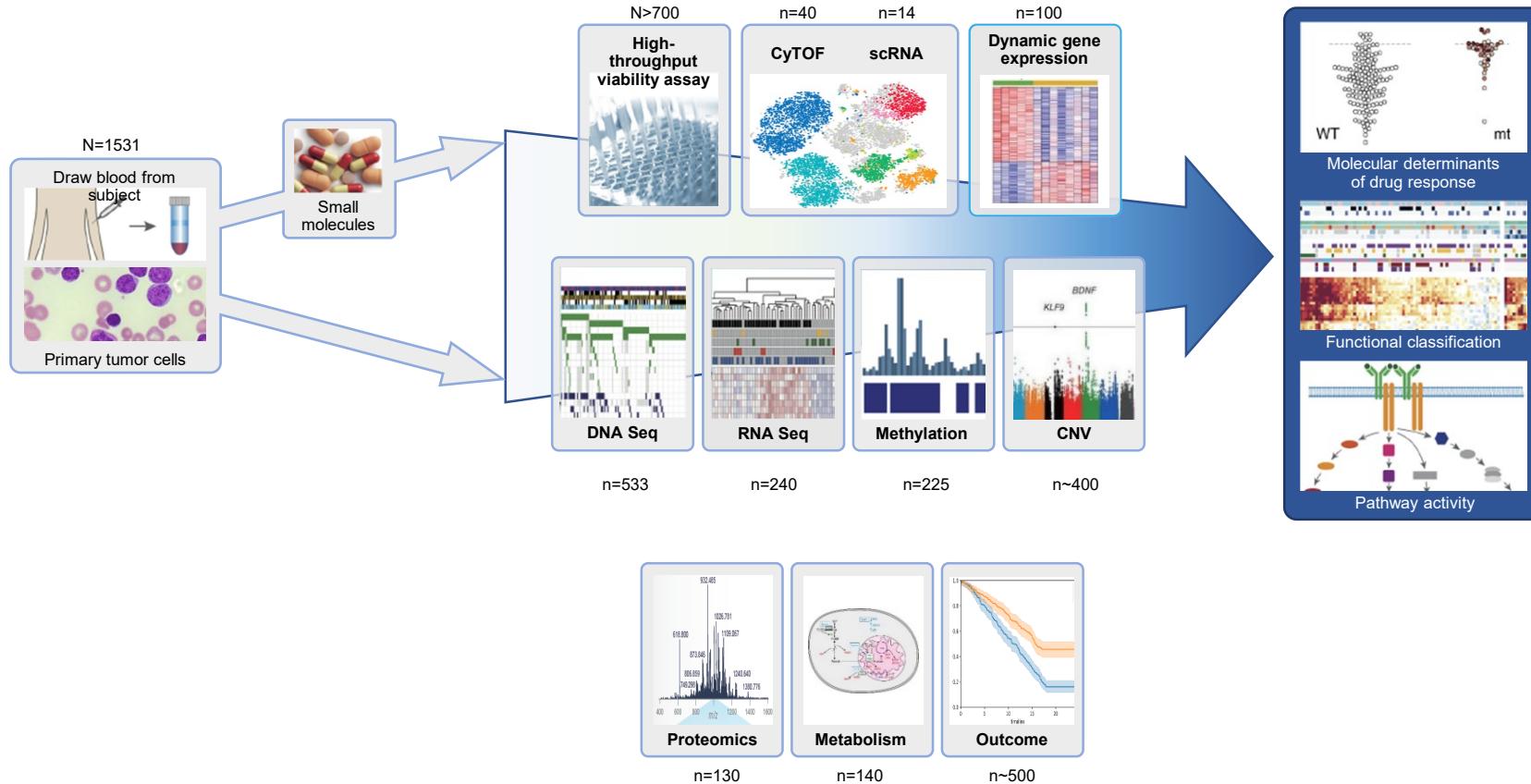
Flow chart Randomization SNF

INCLUSION CRITERIA

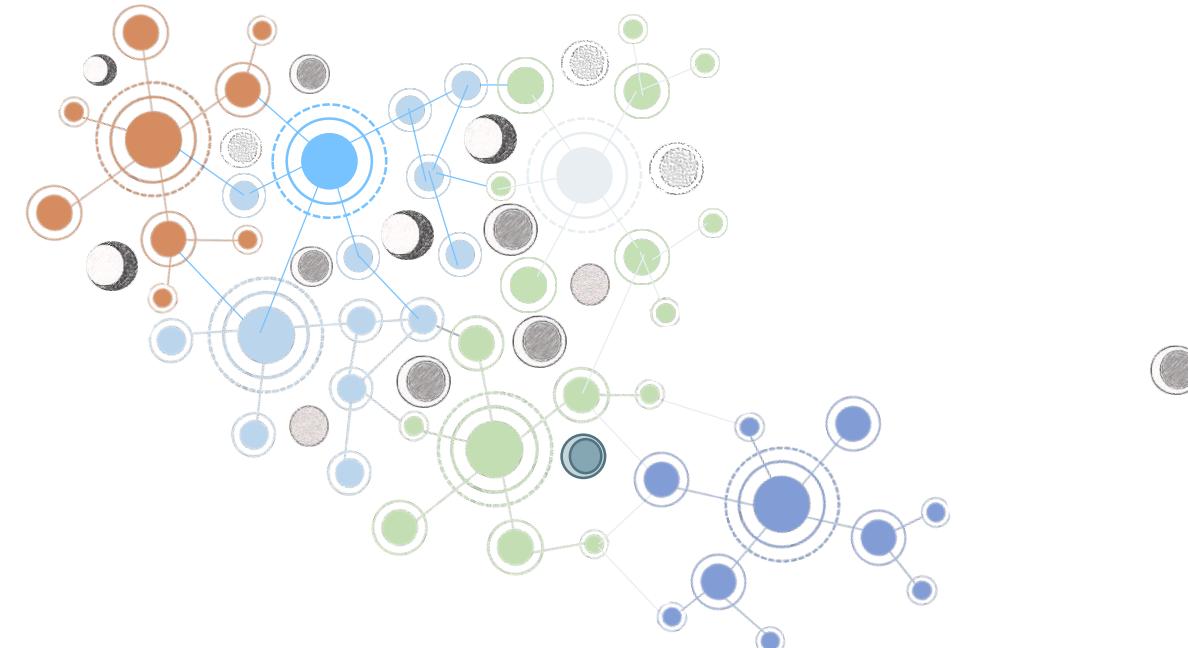
- Aggressive Lymphoma (B and T-cell lymphoma)
- Age > 70 yrs
- Fit for (R)-CHOP/(R)-mini-CHOP/Standard of care (incl. future new therapy options as polatuzumab, brentuximab)



“Multiomics Profiling” Leukämia & Lymphome

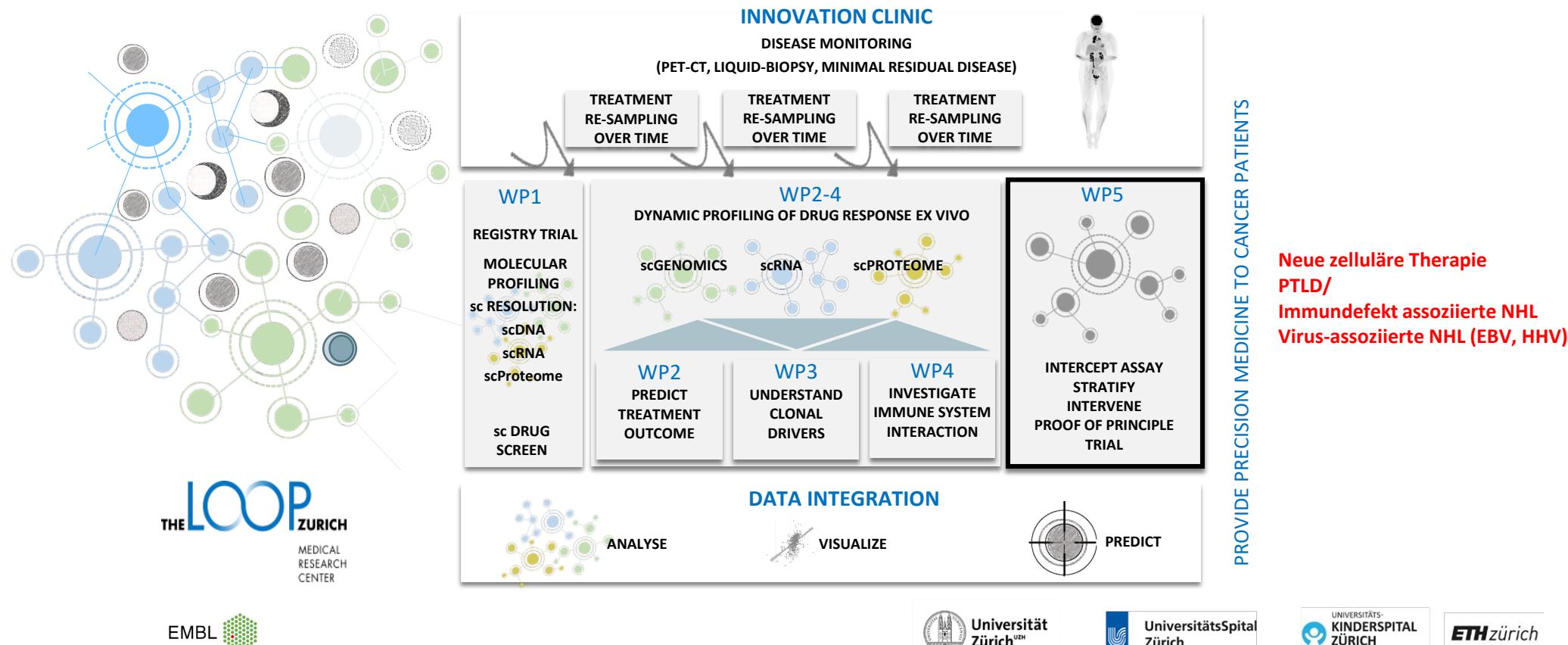


„INTeRCePT“ Einzelzellperspektive ausnutzen – Behandlungsversagen überwinden: Blutkrebs bei Kindern und Erwachsenen.

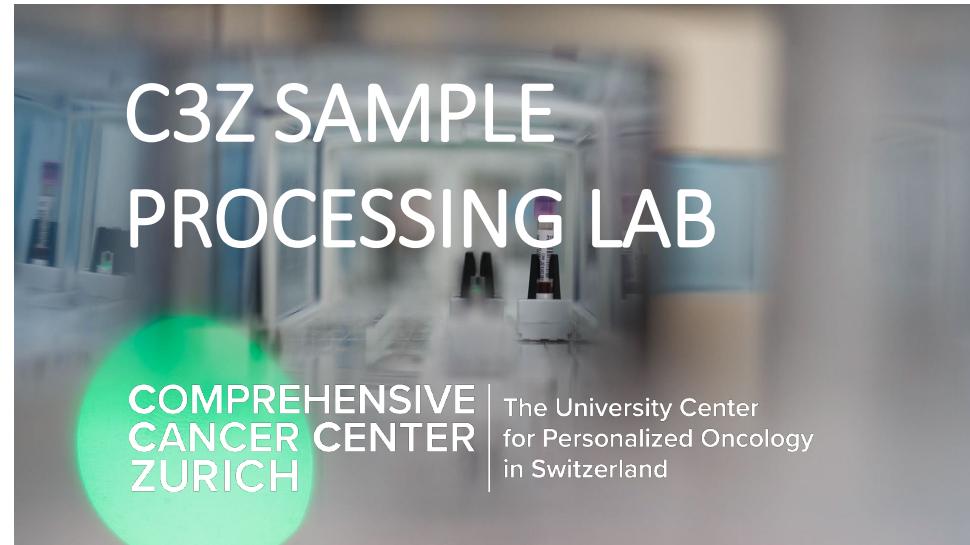


„INTeRCePT“ Einzelzellperspektive ausnutzen – Behandlungsversagen überwinden: Blutkrebs bei Kindern / Erwachsenen

Zenz, Becher, Beerewinkel, Bourquin, Moor, Huber, Snijder



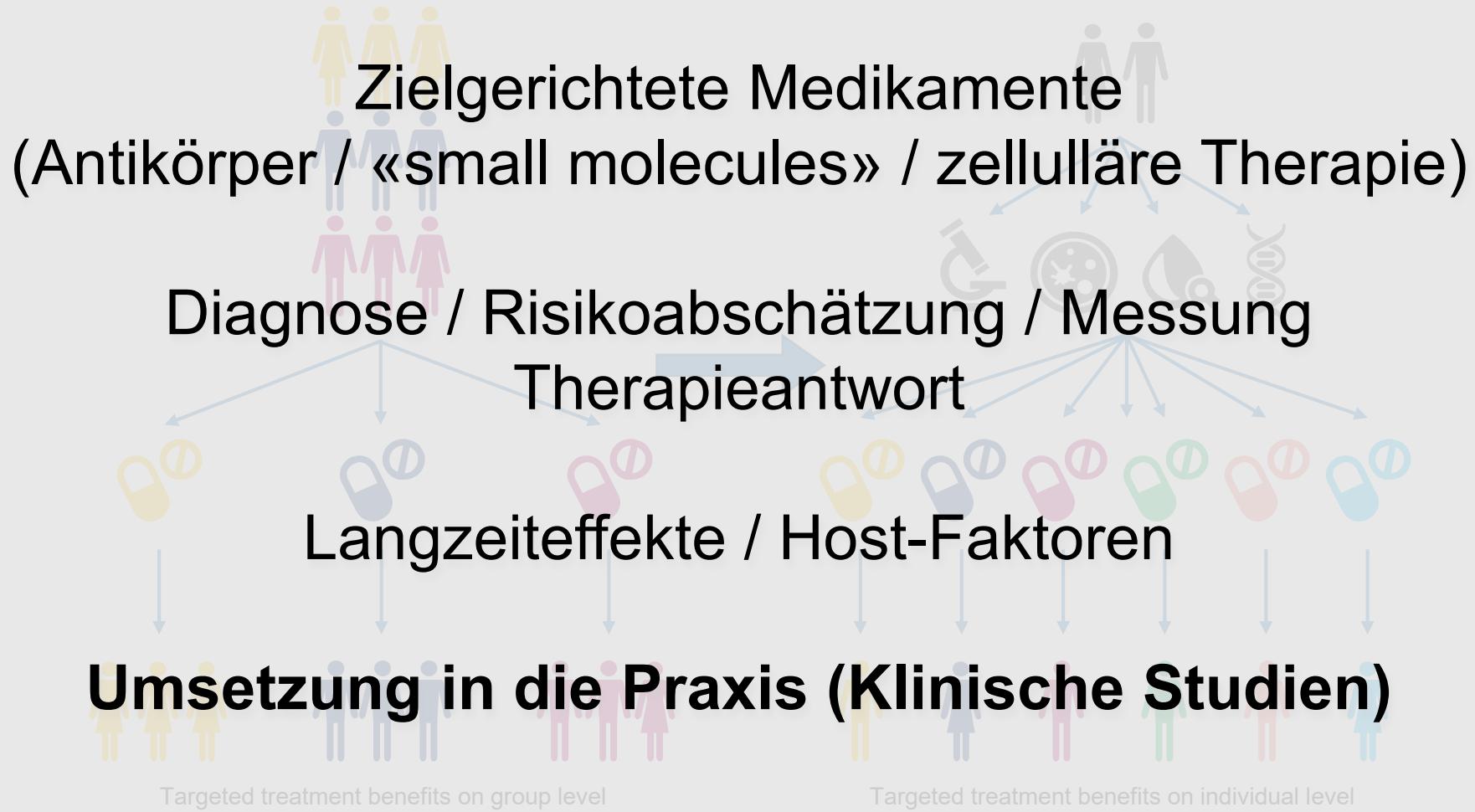
Effiziente klinische Abläufe, Leitlinien & strukturierte Datenerfassung Klinische Studien & Forschung



Stratified Medicine
„One size does not fit all“

Zusammenfassung

Personalized Medicine
„Treatment each size“



4. Diskussion