



10<sup>th</sup> POSTGRADUATE  
**Lymphoma  
Conference**

**New targeted agents in PTCL: could the light at the  
end of the tunnel be near?**

**Dr.Swami iyer**

UT MD Anderson Cancer Center

Venice,  
March 12-13, 2026

Hotel Monaco & Grand Canal

**President:**  
P.L. Zinzani

## DISCLOSURES

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
CRISPR	☐					☐	
MERCK	☐						
SEAGEN/PFIZER	☐					☐	
YINGLI	☐					☐	
ACROTECH	☐					☐	
INNATE	☐						
TRILLIUM/Pfizer	☐						
ASTRA ZENECA	☐						
ONO	☐						
LEGEND	☐						
SALARIUS			☐				
SECURA BIO						☐	
ELECTRA						☐	
DREN-BIO	☐					☐	
IMPaRT.AI				☐			Co-Founder
Sanofi			☐				



# PTCL: From empirical chemotherapy to biological precision

## THE PROBLEM: THE LIMITATIONS OF 'SHOOT AND ASK' CHEMOTHERAPY



Many PTCL subtypes are inherently resistant to standard CHOP chemotherapy, leading to poor survival.



**32% FIVE-YEAR OVERALL SURVIVAL**

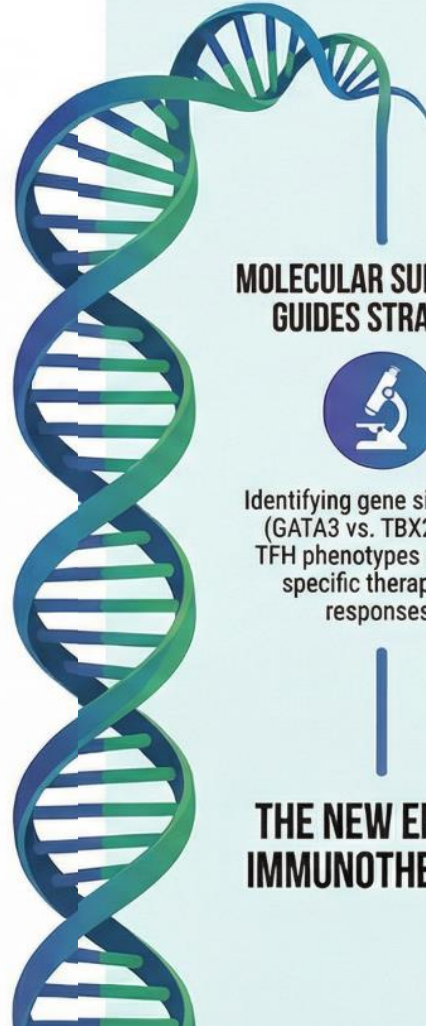
PTCL-NOS and AITL subtypes show significantly lower survival rates compared to B-cell lymphomas.

**CHOP**

**THE FAILURE OF UNIVERSAL 'CHOP'**

Empirical chemotherapy lacks a standard successful therapy for the mature T-cell lymphoma group.

## THE SOLUTION: PRECISION SUBTYPING AND TARGETED IMMUNOTHERAPY



**MOLECULAR SUBTYPING GUIDES STRATEGY**



Identifying gene signatures (GATA3 vs. TBX21) and TFH phenotypes predicts specific therapeutic responses.

**THE NEW ERA OF IMMUNOTHERAPY**



**PTCL-GATA3**

GATA3 / TH2 (IL4, IL5)



**< 1 YEAR**  
MEDIAN OVERALL SURVIVAL



**PTCL-TBX21**

TBX21 / Th1 (IFN $\gamma$ )



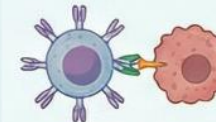
**> 2 YEARS**  
MEDIAN OVERALL SURVIVAL

**EXPLOITING MOLECULAR VULNERABILITIES**



**HDAC INHIBITORS**

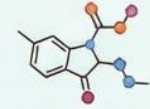
Mutations like DNMT3A, while chemoresistant, show high sensitivity to targeted HDAC inhibitors.



**CAR-T (ANTI-CD5)**



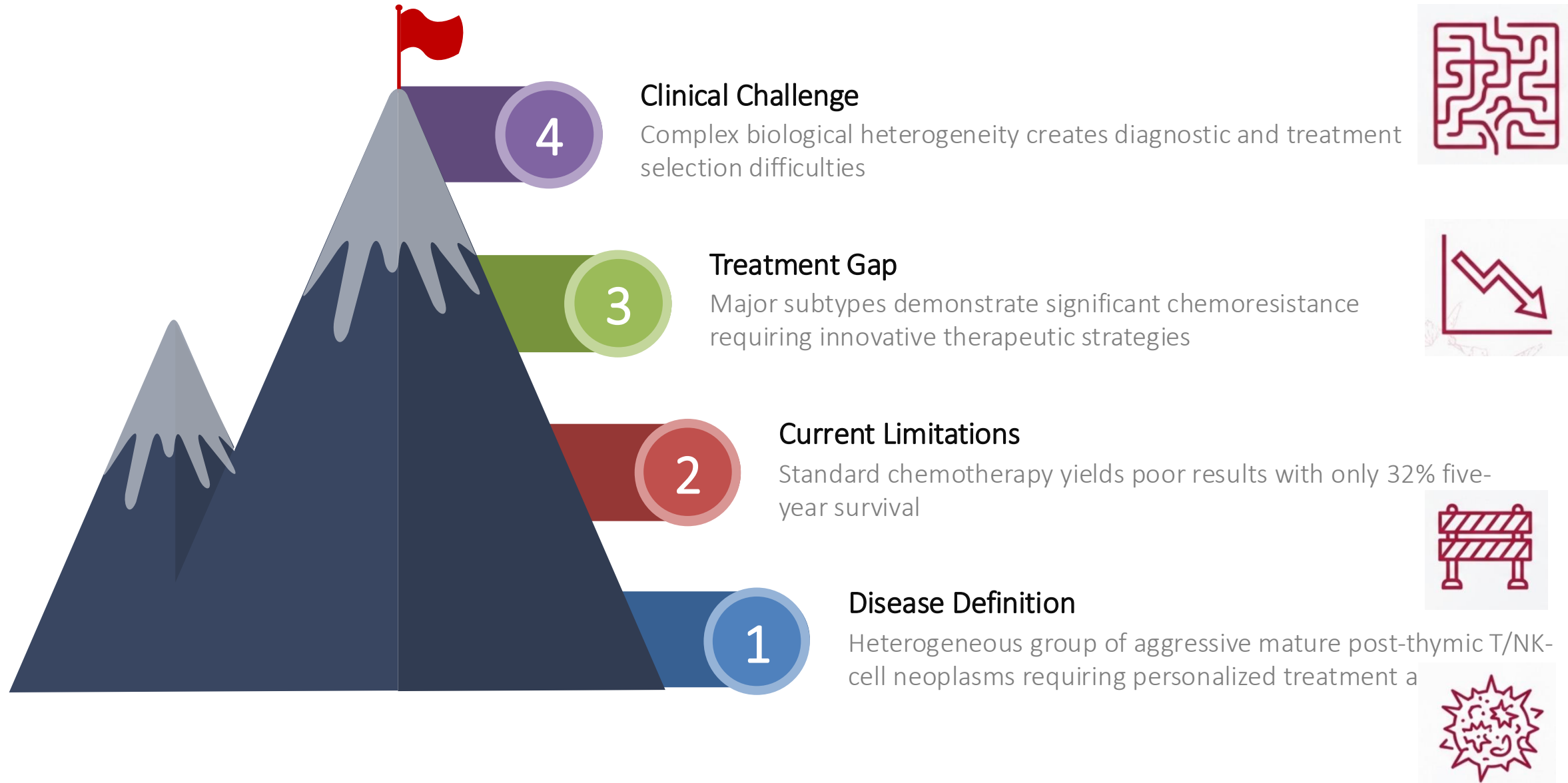
**MONOCLONAL ANTIBODIES**



**PI3K/JAK INHIBITORS**

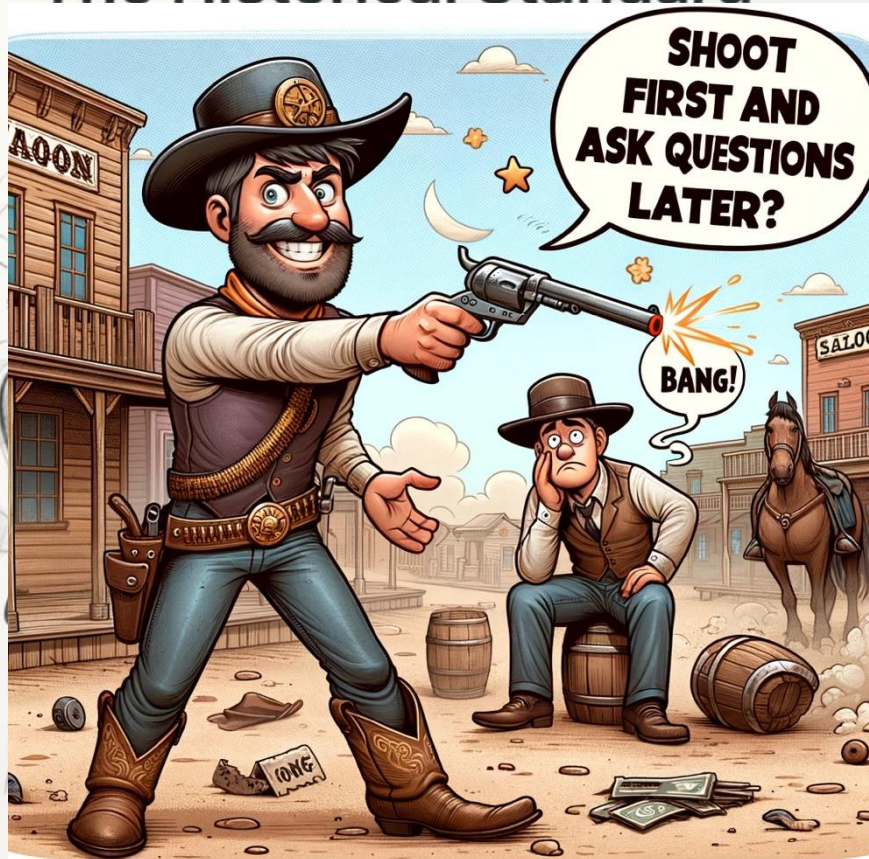
Moving toward CAR-T, monoclonal antibodies, and PI3K/JAK inhibitors for relapsed cases.

# PTCL Treatment Challenge Overview

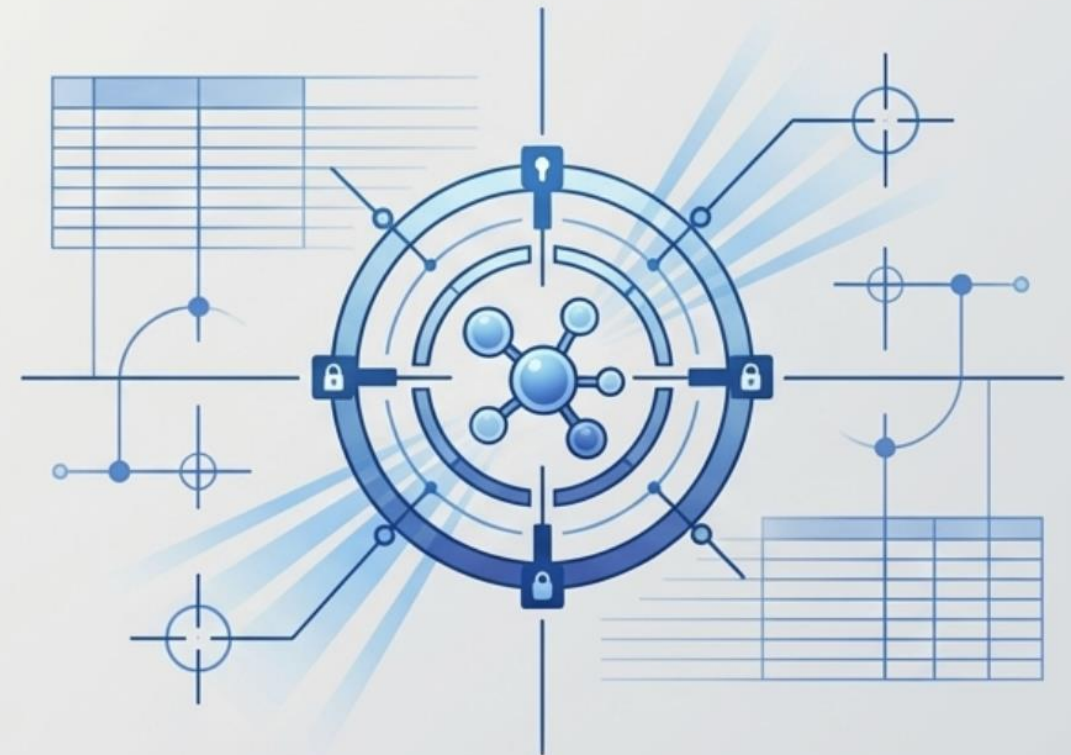


# Advances in T cell Lymphoma: From “shoot first” to Precision targeting

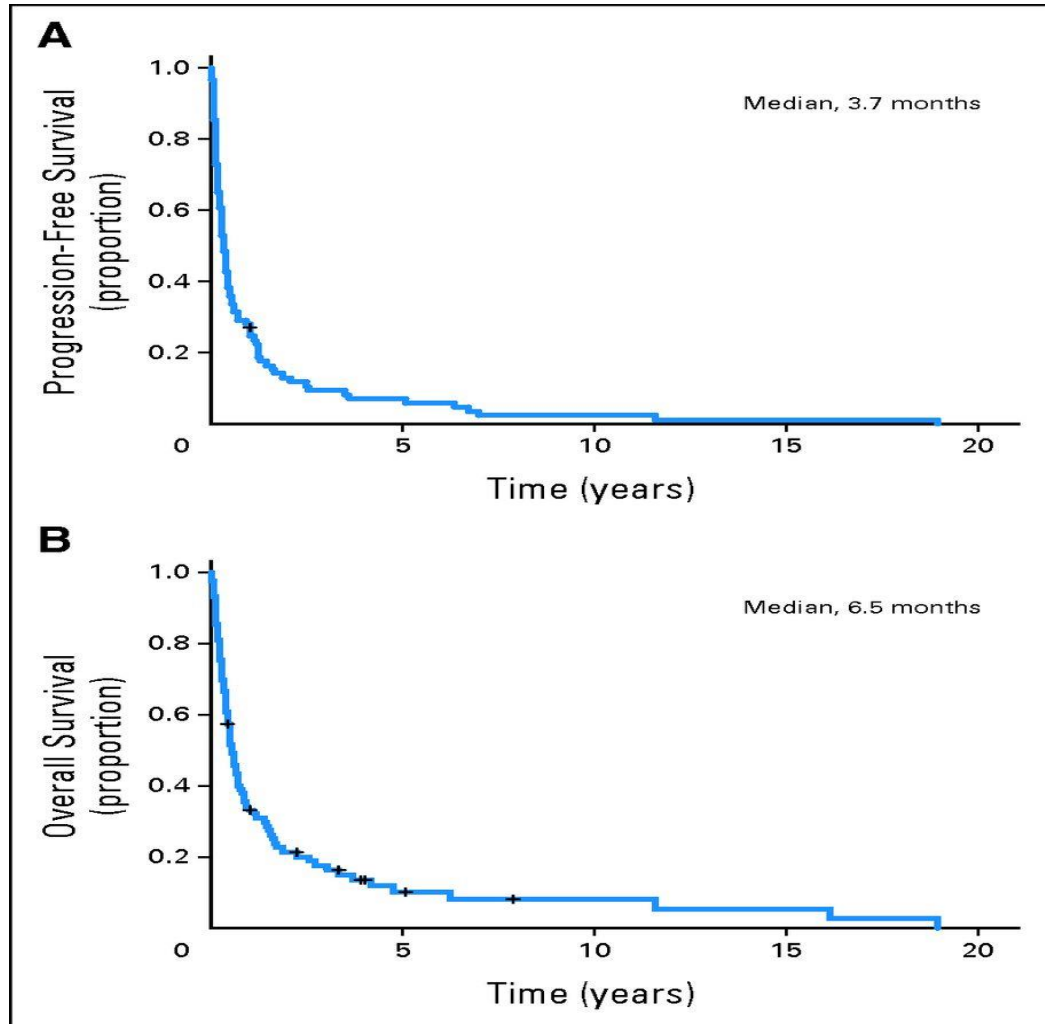
## The Historical Standard



## The Targeted Era



# Patients With Relapsed or Refractory Disease Have an Especially Poor Prognosis



**2<sup>nd</sup> PFS (median, 3.7 months) of patients treated with chemotherapy (n = 89) with R/R PTCL**

**2<sup>nd</sup> PFS = 3.7 months**

**OS (median, 6.5 months) after first relapse or progression of PTCL.**

**Overall Survival from 2<sup>nd</sup> Relapse = 6.5 months**

# MDACC Outcomes for PTCL

PTCL-NOS, AITL: 321 pts (180 PTCL-NOS, 141 AITL)

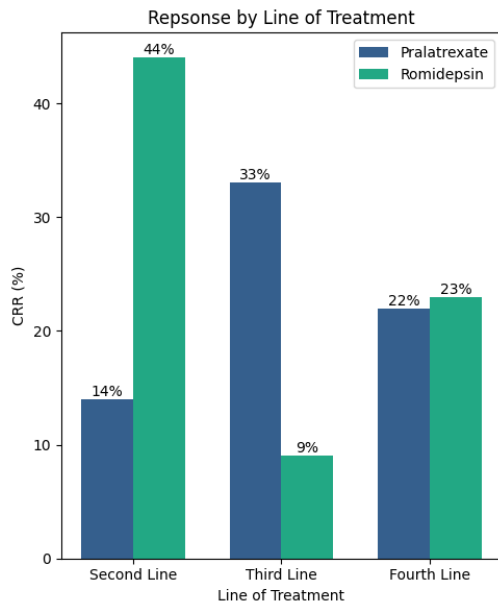
PFS1: PFS to front-line therapy

PFS2: PFS to 1<sup>st</sup> salvage

PFS3: PFS to 2<sup>nd</sup> salvage

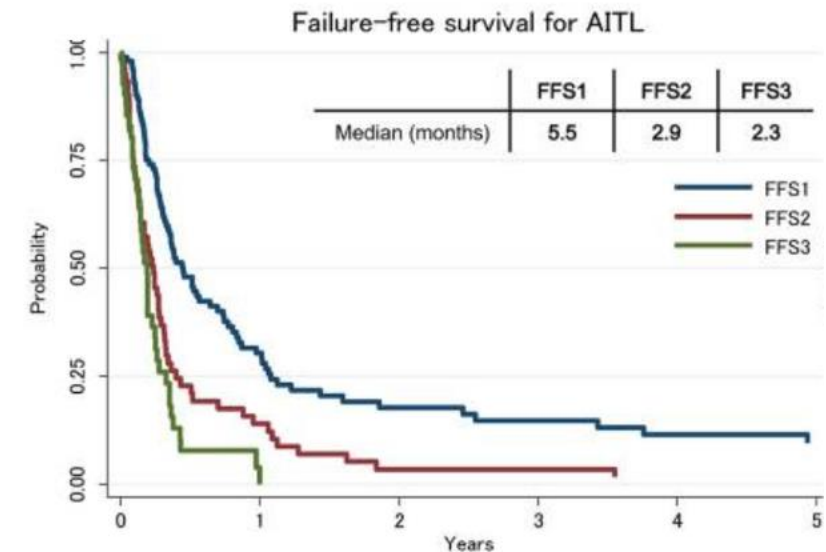
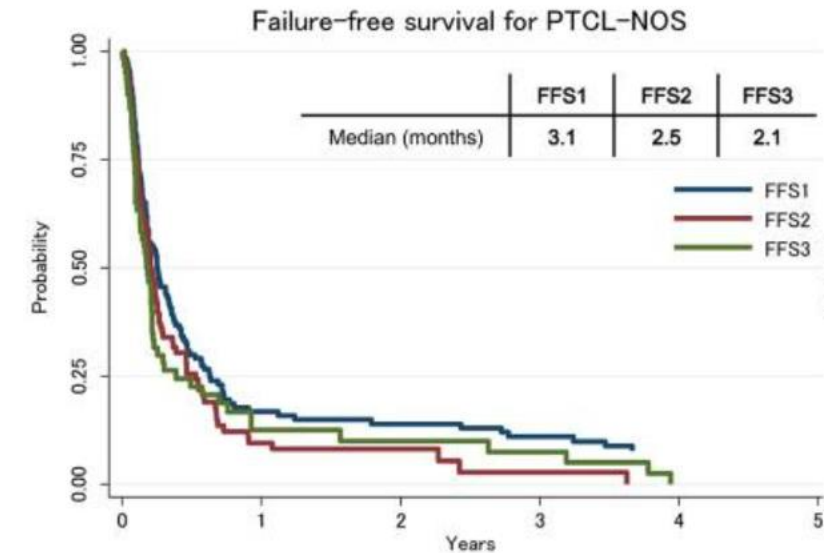
Med OS1, OS2 and OS3 were 47.7, 15.1 and 8.1 mo.

Pralatrexate or Romidepsin at 1st or 2nd salvage TX were not associated with longer PFS2 or PFS3.



	PFS1	PFS2	PFS3
<b>All</b>	<b>10.3</b>	<b>4.1</b>	<b>2.5</b>
<b>PTCL</b>	<b>8.4</b>	<b>3.1</b>	<b>2.5</b>
<b>AITL</b>	<b>13.1</b>	<b>10.9</b>	<b>2.4</b>

Results: Med Mo



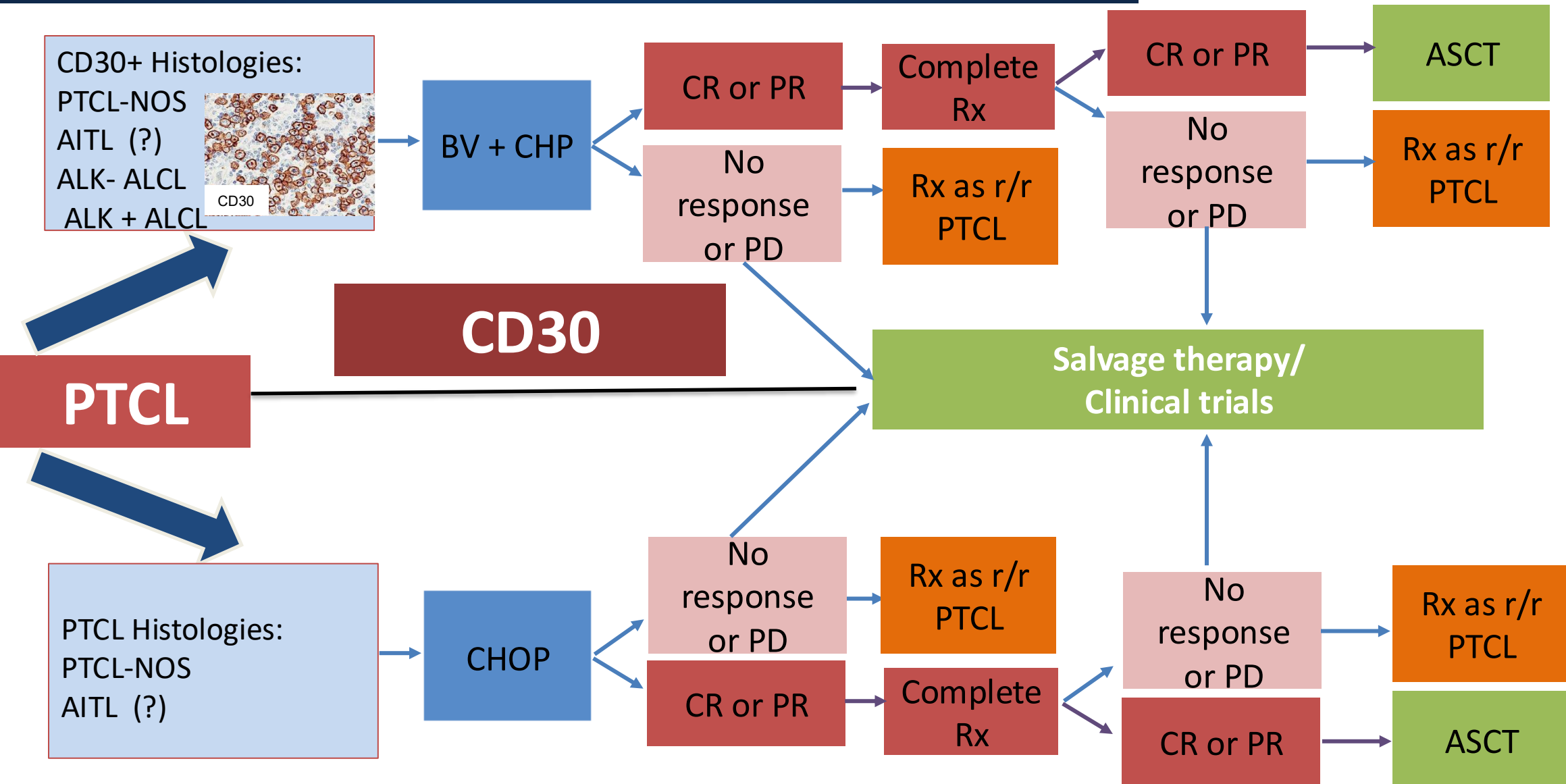
# Pralatrexate and Belinostat: Primary Efficacy Data Supporting Accelerated Approval

	<b>PROPEL Study Pralatrexate<sup>1</sup> N = 109</b>	<b>BELIEF Study Belinostat<sup>2</sup> N = 120</b>
<b>Overall response rate (ORR), n (%)</b>	<b>32 (29%)</b>	<b>31 (26%)</b>
<b>Best overall response</b>		
<b>Complete response (CR)</b>	<b>11 (10%)</b>	<b>13 (11%)</b>
<b>Complete response unconfirmed (CRu)*</b>	<b>1 (1%)</b>	<b>-</b>
<b>Partial response (PR)</b>	<b>20 (18%)</b>	<b>18 (15%)</b>
<b>Duration of response, median (95% CI)</b>	<b>10.1 months (3.4–NE)</b>	<b>13.6 months (4.5–29.4)</b>
<b>Progression-free survival (PFS), median (95% CI)</b>	<b>3.5 months (1.7–4.8)</b>	<b>1.6 (1.4–2.7)</b>
<b>Overall survival (OS), median (95% CI)</b>	<b>14.5 months (10.6–22.5)</b>	<b>7.9 (6.1–13.9)</b>

1. O'Connor, 2011; 2. O'Connor, 2015

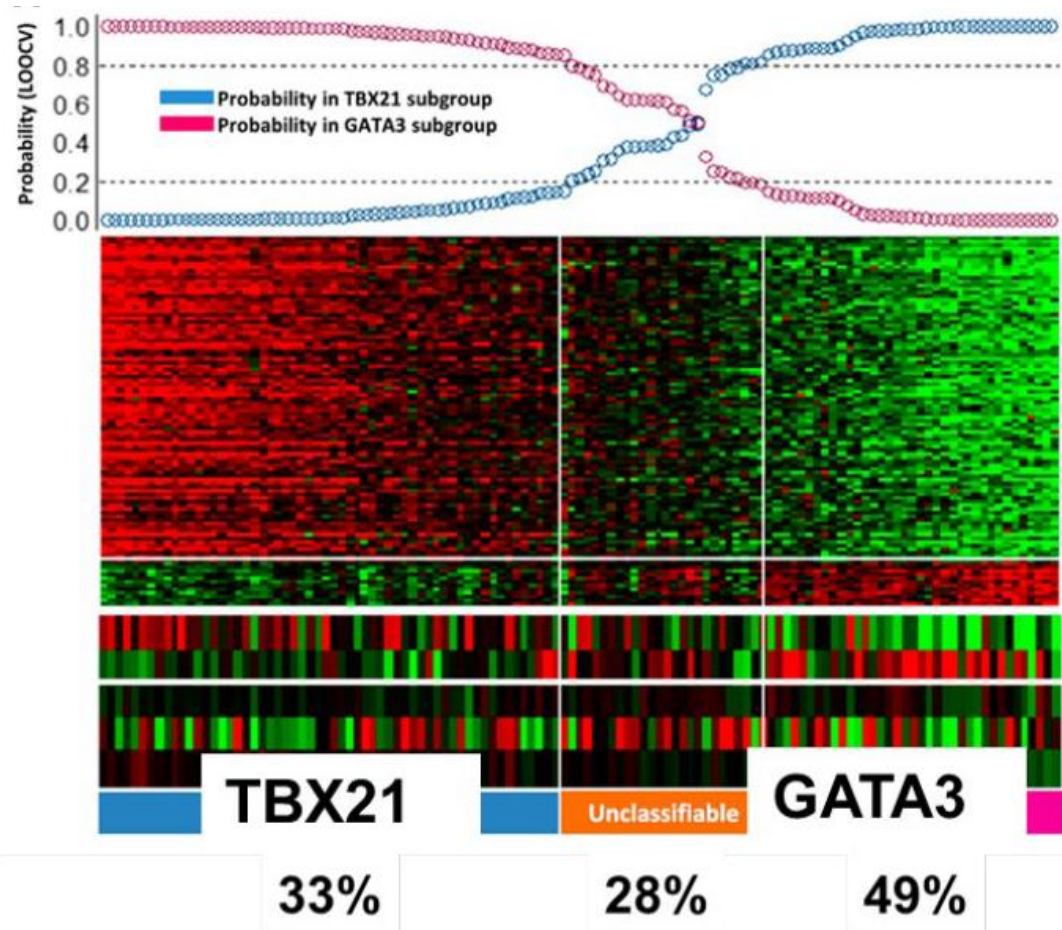
\*CRu is a category between CR and PR (ie, does not strictly match either CR or PR); a CRu does not indicate a short-lasting CR

# CD30 as the predictive marker in TCL

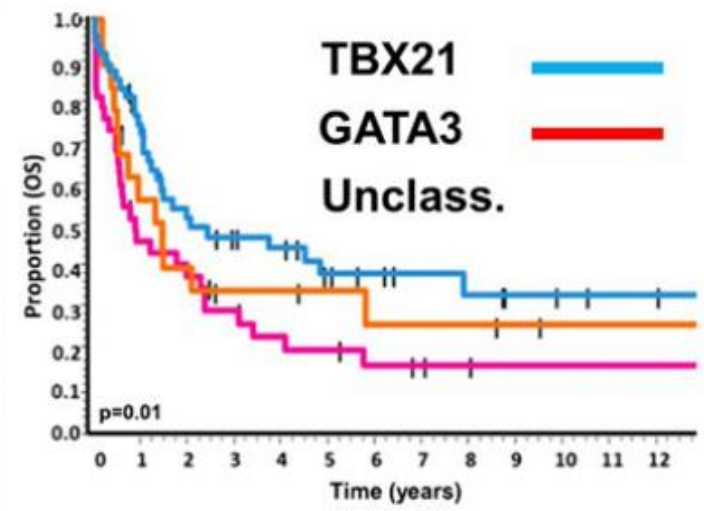


- HOW CAN WE HARNESS THE ADVANCES IN BIOLOGY?

# Gene expression signatures delineate biological and prognostic subgroups in peripheral T-cell lymphoma

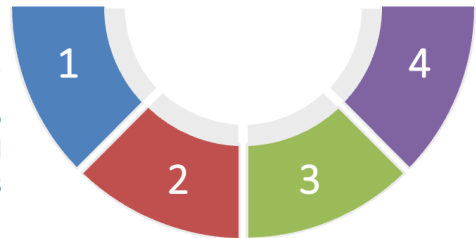


TBX21  
 GATA3  
 Pan B-cell  
 Pan T-cell  
 Plasma cell



**TBX21 Phenotype**  
 Th1 IFN $\gamma$  signaling through NF- $\kappa$ B pathway with median survival exceeding two years

**GATA3 Phenotype**  
 Th2 IL4/IL5 signaling via PI3K-mTOR/MYC pathway with poor one-year survival



**Survival Difference**  
 TBX21 subtype demonstrates significantly better prognosis than GATA3 variant

**Therapeutic Implications**  
 Distinct signaling pathways suggest different targeted therapy approaches for subtypes

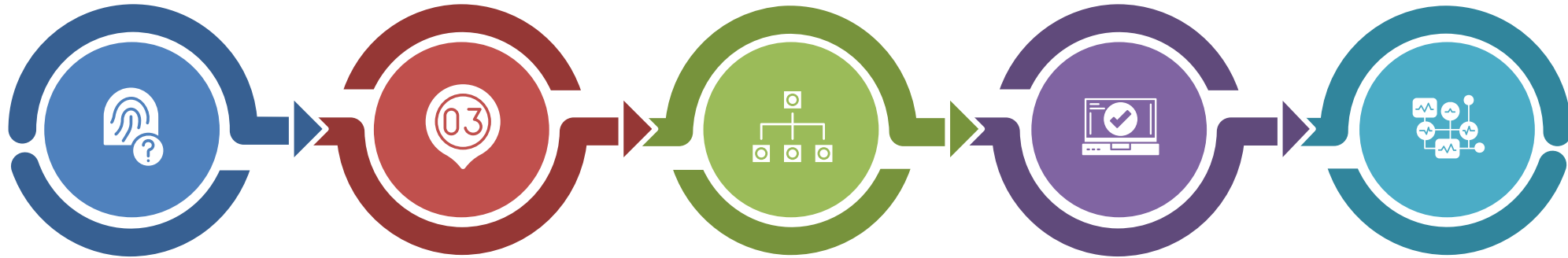
# Clinical Diagnostic Algorithm Development

## CXCR3 Marker

Secondary CXCR3 positivity ( $\geq 20\%$ ) supports TBX21 subtype when TBX21 negative

## CCR4 Confirmation

CCR4 positivity ( $\geq 50\%$ ) provides additional GATA3 subtype confirmation when needed



## TBX21 Identification

Positive TBX21 immunohistochemistry ( $\geq 20\%$ ) confirms TBX21 subtype classification

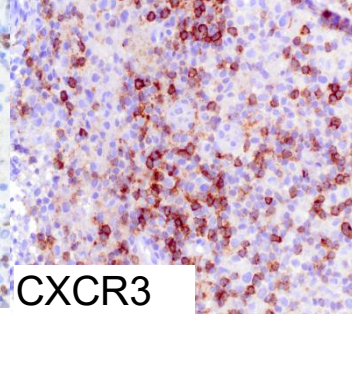
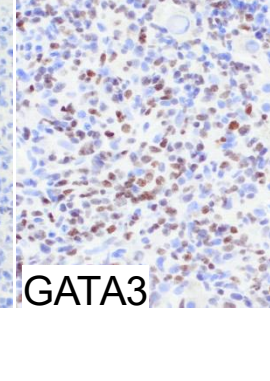
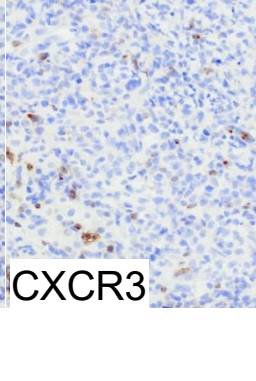
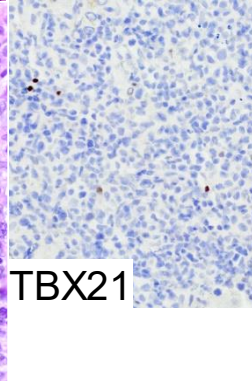
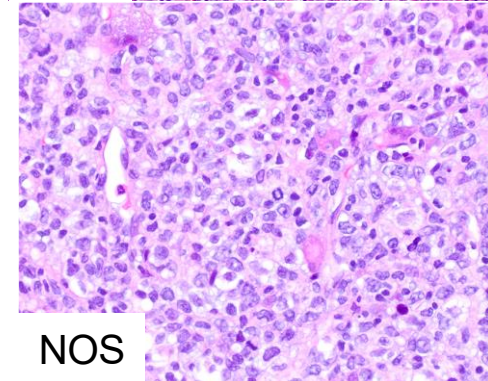
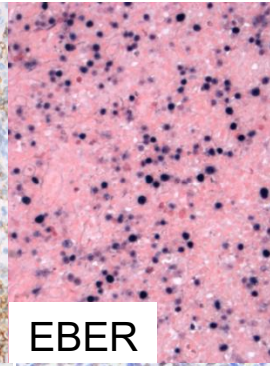
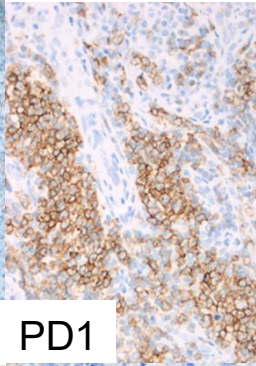
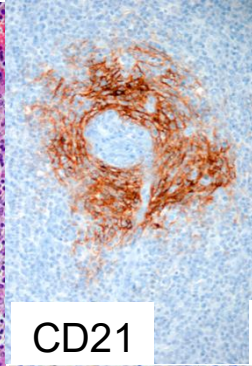
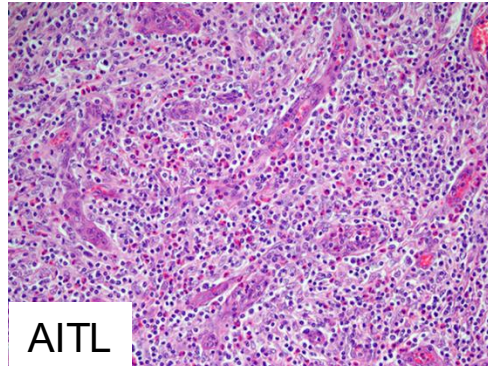
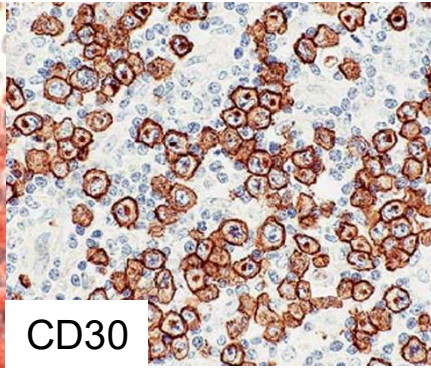
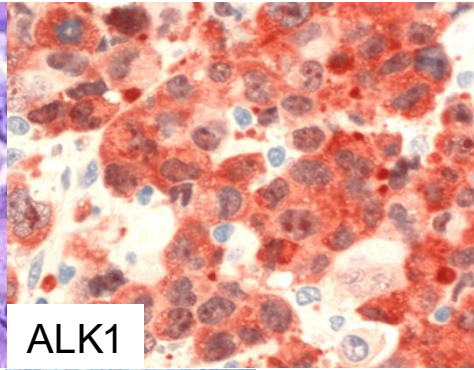
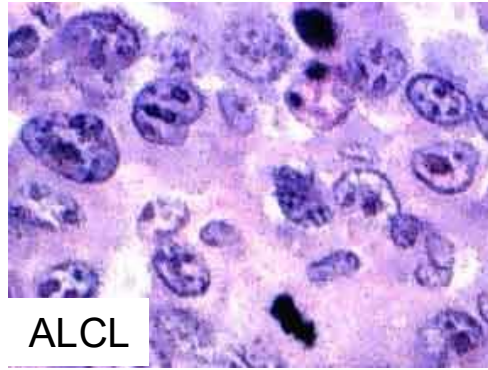
## GATA3 Classification

GATA3 immunohistochemistry ( $\geq 50\%$ ) identifies GATA3 subtype in appropriate cases

## Diagnostic Flow

Sequential algorithm enables systematic subtype classification for treatment selection

# COO based Diagnosis in PTCL



# Therapeutic Options Beyond Chemotherapy: disrupting dysregulated pathways



## Cellular Therapies

Anti-CD5 CAR-T and anti-CD70 & TRBC1

## Monoclonal mAbs/ADCs

Brentuximab vedotin and mogamulizumab provide targeted antibody-drug conjugate therapy.  
Anti-PD1

## Epigenetic modulators

Romidepsin, belinostat, and chidamide and Azacytidine target epigenetic dysregulation mechanisms

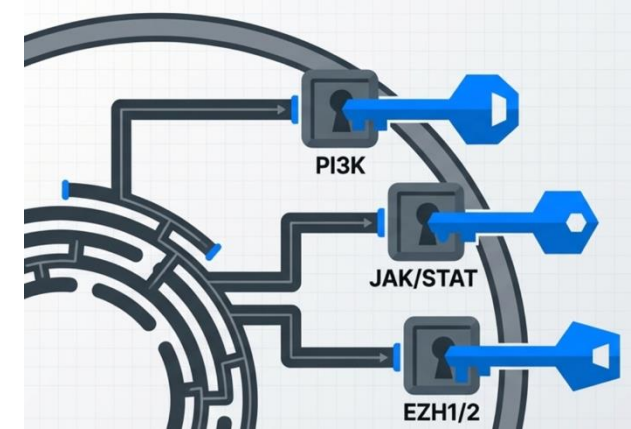


## Kinase Inhibitors

Valemetostat, crizotinib, Alectinib and PI3K inhibitors (Duvelisib, Loperlisib, Tenalisib), JAK inhibitors (Ruxolitinib, Golidocitinib), Soquelitinib

## Immunomodulatory

Lenalidomide, Golcadamide, provide alternative mechanism for immune system activation against tumors



# Single-Agent PTCL Treatments Overview

Single Agent	Therapeutic Class	ORR (%)	CRR (%)	Reference	Year
SGN-30	Monoclonal antibody	17	5	Forero-Torres et al., 2009	2009
Romidepsin	HDAC inhibitor	25	15	Piekarz et al., 2011; Coiffier et al., 2012	2011
Pralatrexate	Anti-metabolite	29	11	O'Connor et al., 2011	2011
Lenalidomide	Immunomodulatory	22	8	Morschhauser et al., 2013; Toumishey et al., 2015	2013
Mogamulizumab	Monoclonal antibody	34	17	Ogura et al., 2014; Ishitsuka et al., 2024	2014
Brentuximab vedotin (BV)	Monoclonal antibody	86	66	Pro et al., 2017; Horwitz et al., 2014	2014
Belinostat	HDAC inhibitor	26	11	O'Connor et al., 2015	2015
Chidamide	HDAC inhibitor	28	14	Shi et al., 2015	2015
Alisertib	Aurora kinase inhibitor	33	18	O'Connor et al., 2019	2019
Cyclosporine	Immunosuppressive agent	86	45	Omoto et al., 2019	2019
Crizotinib	ALK inhibitor	83	58	Bossi et al., 2020	2020
Alectinib	ALK inhibitor	80	60	Fukano et al., 2020	2020
Tenalisib	PI3K $\delta/\gamma$ inhibitor	45	8	Huen..Iyer et al., 2020	2020
Ruxolitinib	JAK 1/2 inhibitor	27	7	Moskowitz et al., 2021	2021
Nivolumab	Immune checkpoint inhibitor	33	17	Bennani et al., 2022	2022
Azacitidine	Hypomethylating agent	33	12	Dupuis et al., 2024	2024
Duvelisib	PI3K $\gamma/\delta$ inhibitor	48	33	Mehta-Shah et al., 2024	2024
Tipifarnib	Farnesyltransferase inhibitor	40	10	Witzig et al., 2024	2024
Cerdulatinib	JAK/SYK inhibitor	36	21	Horwitz et al., 2025	2025
Golidocitinib	JAK1 inhibitor	44	24	Song et al., 2024	2024
Valemetostat	EZH1/2 inhibitor	44	17	Zinzani et al., 2024	2024
Linperlisib	PI3K $\gamma/\delta$ inhibitor	49	33	Iyer et al., 2024	2024
Golcadomide	Immunomodulatory	-	-	Izutsu et al., 2024	2024

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<b>Crizotinib</b>	<b>ALK inhibitor</b>	<b>83</b>	<b>58</b>	<b>Bossi et al., 2020</b>	<b>2020</b>
<b>Alectinib</b>	<b>ALK inhibitor</b>	<b>80</b>	<b>60</b>	<b>Fukano et al., 2020</b>	<b>2020</b>
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# Emerging themes in T cell Lymphomas

- Epigenetic targeting of Tfh
- Targeting dysregulated pathways: JAK/STAT, PI3K, EZH1/2, ITK
- Immunotherapy: checkpoint blockade and cellular
- Targeting cytotoxic, gamma-delta and NK subtypes
- Pan SIRP inhibitor for LA-HLH

# Emerging themes in T cell Lymphomas

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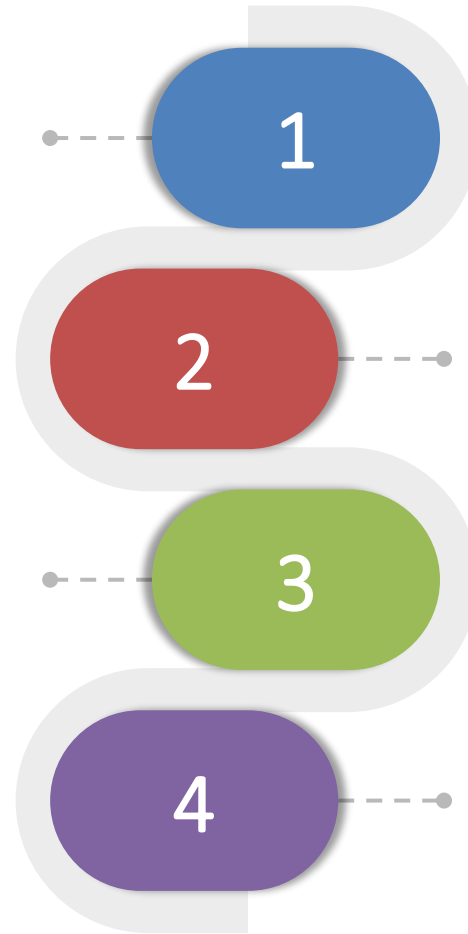
# T-Follicular Helper Phenotype Biology

## TFH Markers

PD1, ICOS, CXCL13, BCL6, and CD10 define follicular helper phenotype

## Common Biology

Identifying cell origin reveals shared biological engine driving distinct classifications

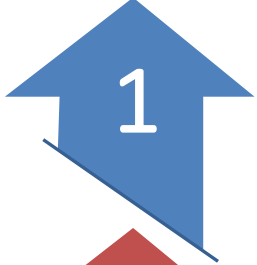






## Lymphoma Origins

Nodal lymphomas of TFH cell origin include AITL and follicular TCL

## Clinical Significance

TFH phenotype provides framework for understanding disease mechanisms and targeting

- **1 Cellular Interactions**  
Malignant follicular helper T-cells interact with germinal center B-cells
- **2 Cytokine Signaling**  
IL-21 and IL-6 promote B-cell activation and plasma cell differentiation
- **3 Immune Checkpoints**  
PD-1/PD-L1 and ICOS/ICOSL pathways regulate T-cell and B-cell interactions
- **4 Vascular Development**  
High microvessel density supports AITL tumor growth and progression
- **5 BCL-6 Expression**  
Maintains malignant phenotype through transcriptional regulation of target genes

# Nodal T-cell lymphomas with Tfh phenotype

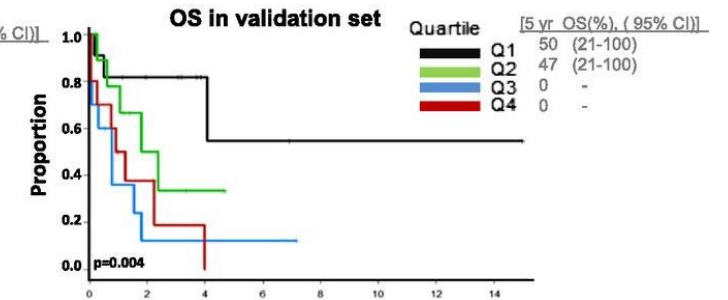
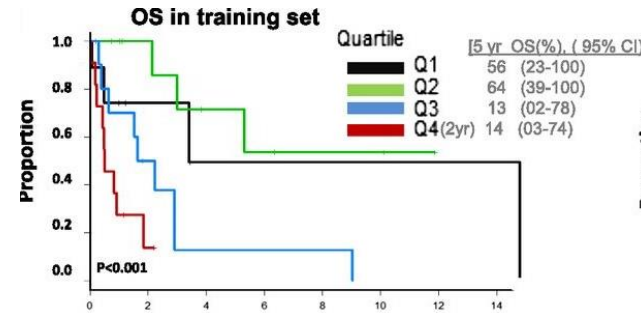
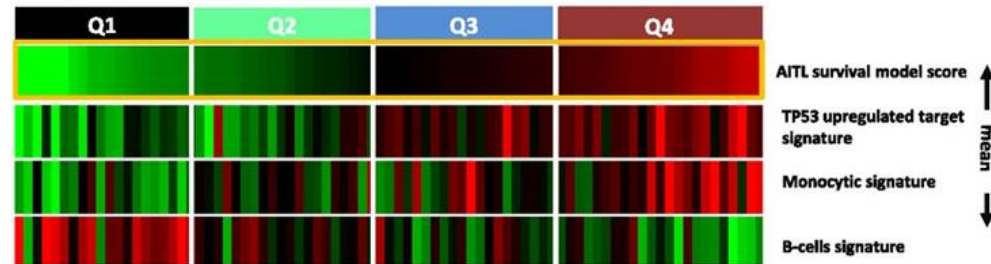
## AITL, PTCL with Tfh & Follicular TCL

- TFH markers: PD1, ICOS, CXCL13, BCL6 & CD10
- Partial overlapping genetic landscapes

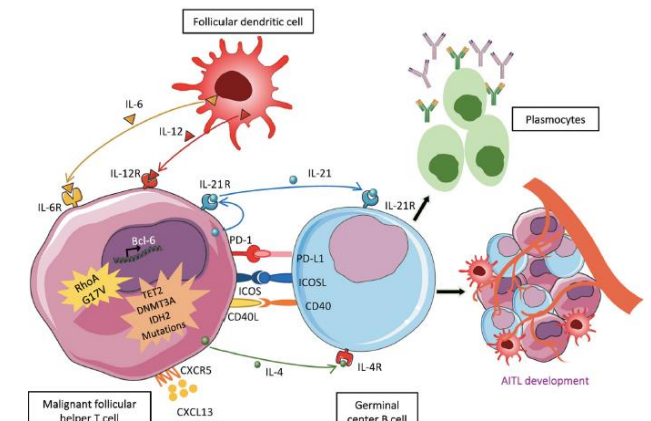
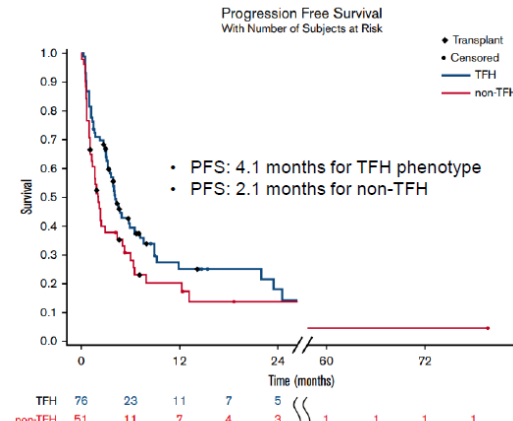
Gene	Freq.
<i>RHOA</i> (G17V)	50-70%
<b>Epigenetic regulators</b>	
<i>TET2</i>	47-83%
<i>DNMT3</i>	20-30%
<i>IDH2</i> (R172)	20-45%

Mutations (%)	Nodal lymphomas of TFH cell origin (TFH-PTCL)			PTCL-NOS	p-value
	AITL	Other TFH-PTCL TFH-like PTCL	F-PTCL*		
<i>TET2</i>	31/64 (48%)	7/11 (64%)	3/4 (75%)	4/24 (17%)	p<0.001
<i>DNMT3A</i>	19/64 (30%)	1/10 (10%)	1/4 (25%)	1/24 (4%)	p<0.05
<i>IDH2</i>	22/66 (33%)	1/11 (10%)	0/5 (0%)	0/23 (0%)	p<0.001
<i>RHOA</i> (G17V)	42/72 (58%)	8/14 (57%)	3/5 (60%)	0/23 (0%)	p<0.001

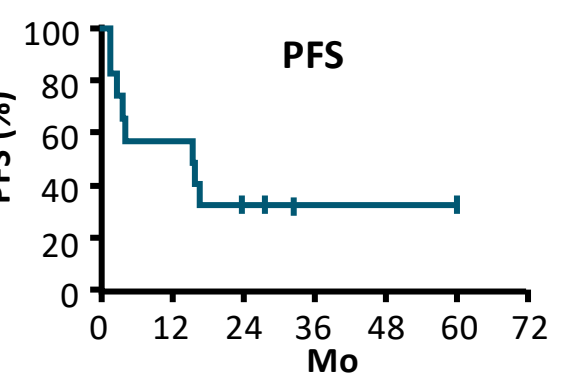
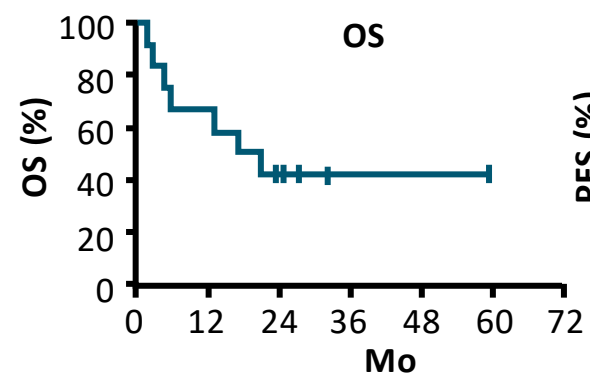
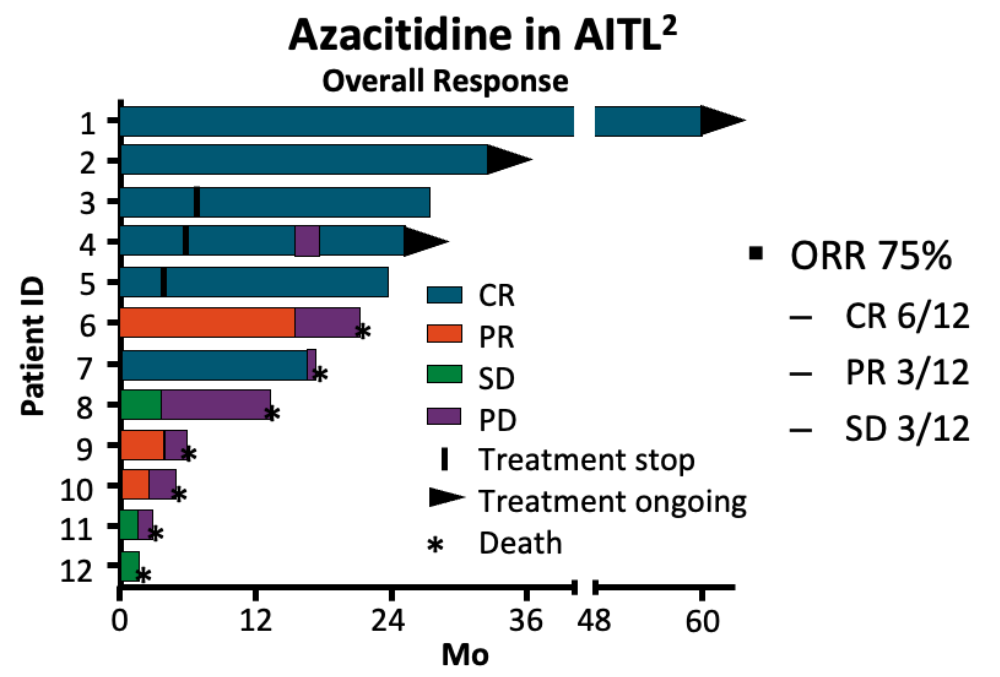
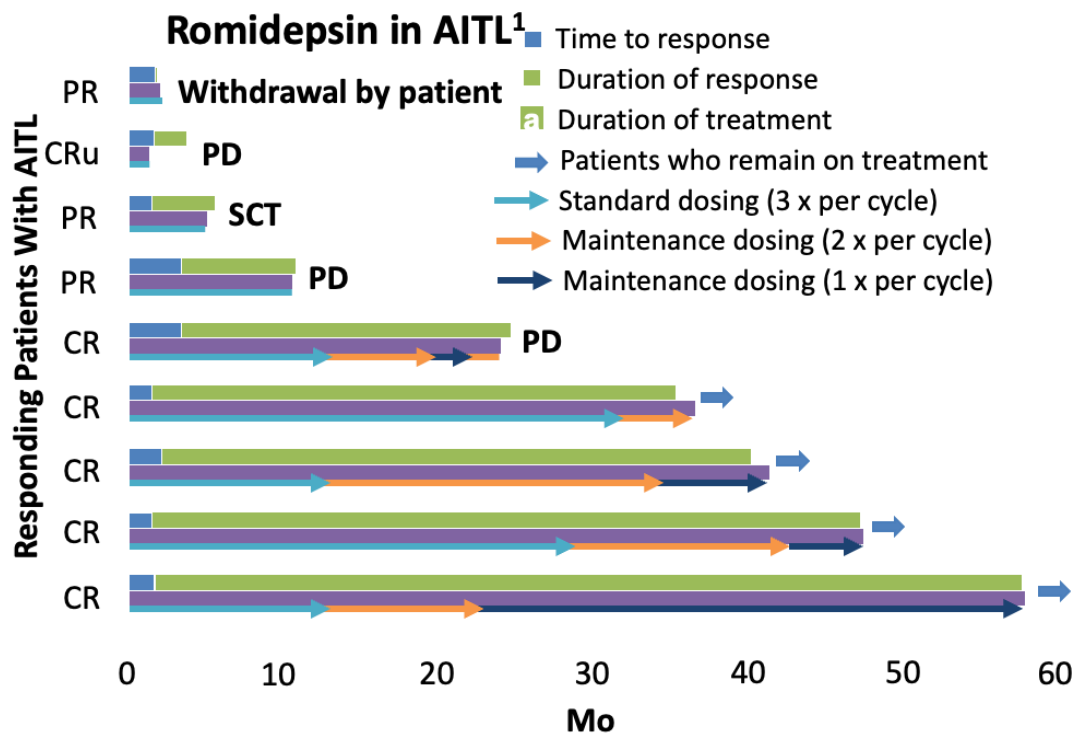
Average expression of prognostic gene signature in AITL



AITL with <i>RHOA</i> mutations	Classical clinicopath features
	Higher microvessels density
	More FDC proliferation
	More pronounced THF phenotype
AITL with <i>IDH2</i> mutations	Medium to large tumor cells with clear cells
	Strong CD10 and CXCL13 expression
	Gains of chromosomes 5 and 21



# Nodal Lymphomas with TFH Phenotype: Role of Epigenetic Modifiers



1. Pro. Hematol Oncol. 2017;35:914. 2. Lemonnier. Blood. 2018;132:2305.

# ORACLE: Phase III study baseline characteristics



## Oral Azacitidine

Administered in a 28-day cycle with specific dosages for EU and Asian patients\*



## Investigator's Choice

Bendamustine  
 Romidepsin  
 Gemcitabine

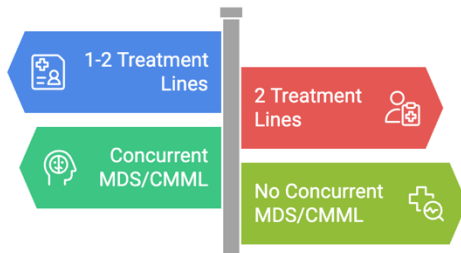
300 mg dosage for EU patients

200 mg dosage for Asian patients

14 Days

14 Days

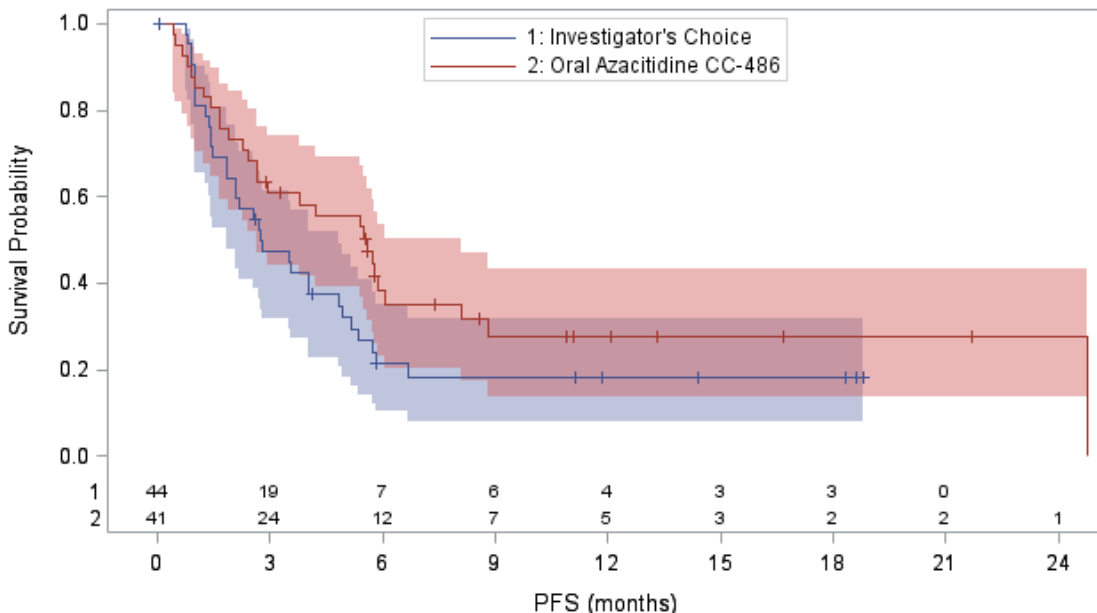
### Stratification



	Azacitidine CC486	Investigator treatment choice	romidepsin	Bendamustine	gemcitabine
<b>N</b>	<b>42</b>	<b>44</b>	<b>4</b>	<b>16</b>	<b>24</b>
<b>median age (IQR)</b>	<b>70.5 (65-77)</b>	<b>68 (58.5-73.5)</b>	68.5 (62.5-71.5)	63.5 (53-68)	72 (64-78)
<b>Sex male</b>	<b>22 (52%)</b>	<b>28 (64%)</b>	3 (75%)	10 (62.5%)	15 (62.5%)
<b>ECOG 2-3</b>	<b>11 (26%)</b>	<b>9 (20%)</b>	0 (0%)	4 (25%)	5 (20%)
<b>Bone marrow involvement</b>	<b>12/37 (32%)</b>	<b>17/40 (42,5%)</b>	1/4 (25%)	8/16 (50%)	8/20 (40%)
<b>Associated MDS/CMML</b>	<b>0</b>	<b>1 (2%)</b>	0	0	1 (4%)
<b>IPI 4-5</b>	<b>13/42 (31%)</b>	<b>14/42 (33%)</b>	0/4	5/15 (33%)	9/23 (39%)
<b>Previous line number</b>					
<b>1-2 vs ≥3</b>	<b>34 (81%) vs 8 (19%)</b>	<b>37 (84%) vs 7(16%)</b>	4 (100%) vs 0 (0%)	14 (88%) vs 2 (12%)	19 (79%) vs 5 (21%)
<b>1</b>	<b>24 (57%)</b>	<b>14 (32%)</b>	4 (100%)	3 (19%)	7 (29%)
<b>2</b>	<b>10 (24%)</b>	<b>23 (52%)</b>	0 (0%)	11 (69%)	12 (50%)
<b>refractory patients</b>	<b>20 (48%)</b>	<b>28 (64%)</b>	1 (25%)	13 (80%)	14 (58%)

# ORACLE – did not meet primary endpoint PFS but OS

**PFS\* from randomization - FDA C2 censoring – ITT Set**  
 With Number of Subjects at Risk and 95% Confidence Limits

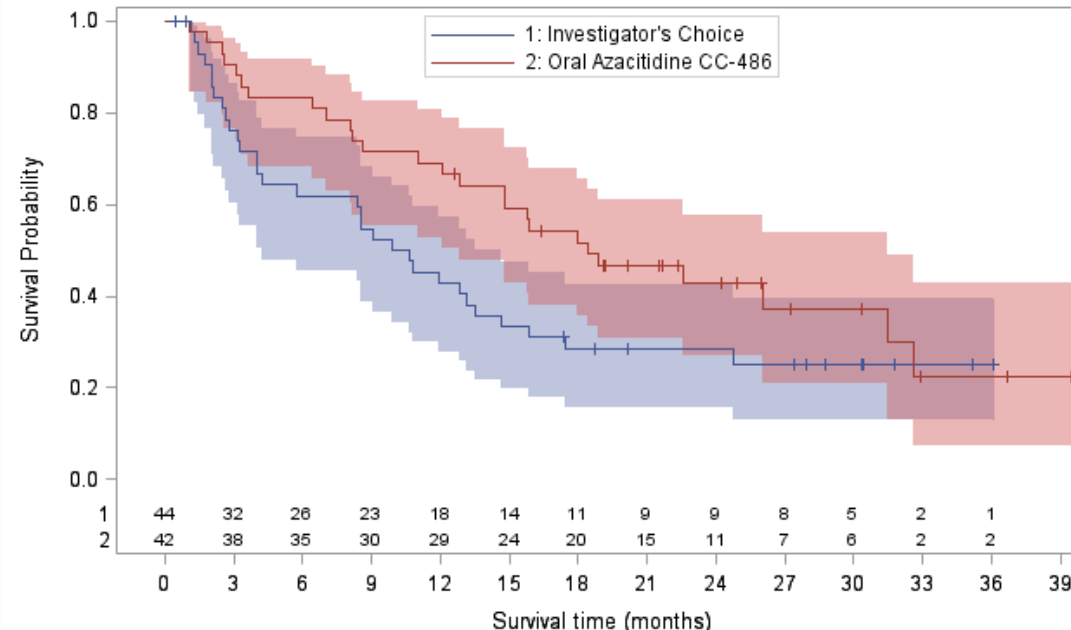


	No. of Subjects	Event	Censored	Median Survival
Investigator's Choice	44	75 % (33)	25 % (11)	2.8
Oral Azacitidine CC-486	41	68.3 % (28)	31.7 % (13)	5.6

\* Progression assessment based on local assessment using the Lugano classification

	<b>CC-486</b>	<b>Investigator's choice</b>
median	5.6 months	2.8 months
95% CI	2.7 - 8.1 months	1.9 - 4.8 months
	<b>P=0.0421</b>	>p=0.025

**Overall Survival from randomization - ITT Set**  
 With Number of Subjects at Risk and 95% Confidence Limits



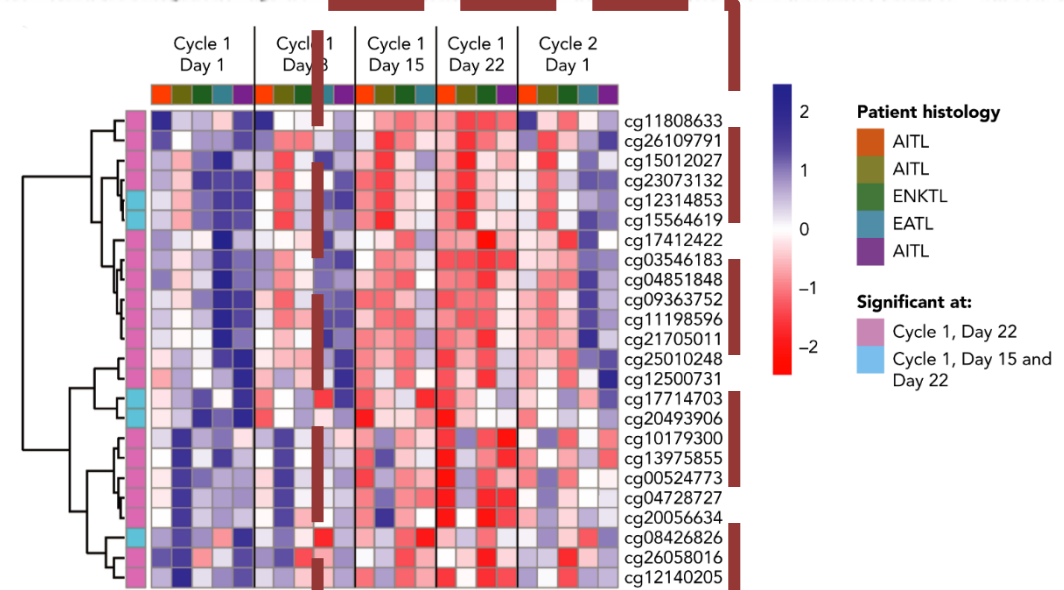
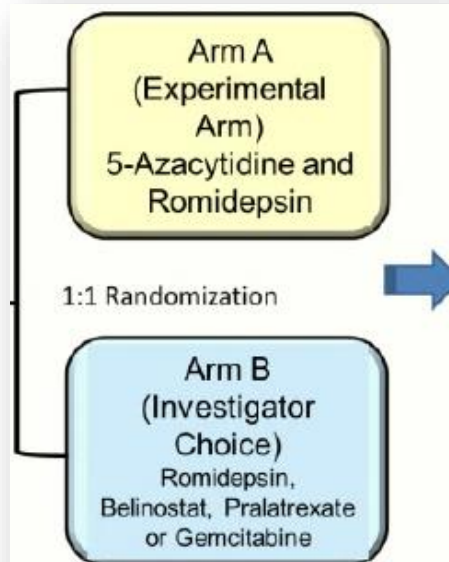
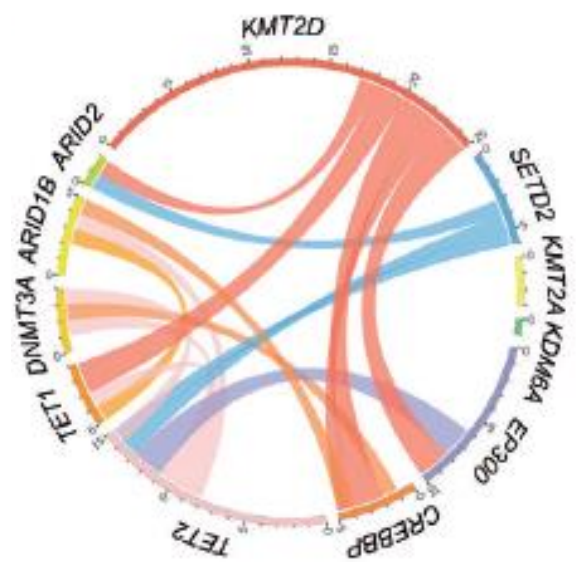
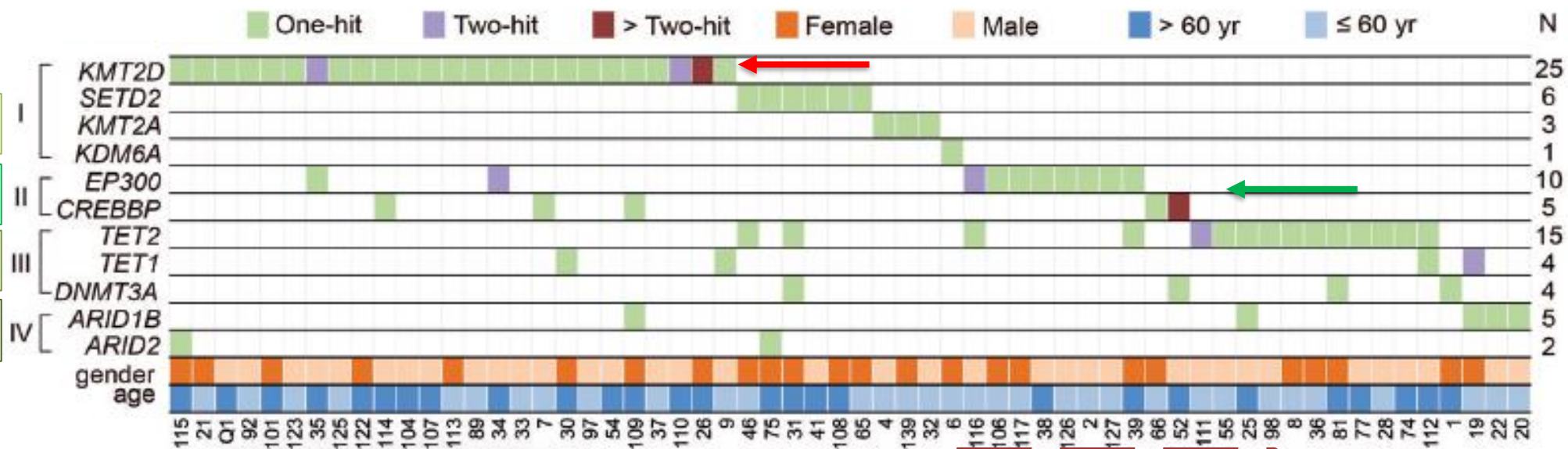
	No. of Subjects	Event	Censored	Median Survival
Investigator's Choice	44	70.5 % (31)	29.5 % (13)	10.3
Oral Azacitidine CC-486	42	61.9 % (26)	38.1 % (16)	18.4

	<b>CC-486</b>	<b>Investigator's choice</b>
median	18.4 months	10.3 months
95% CI	12.9 – 31.5 months	4.2 – 13.5 months
	<b>P=0.0166*</b>	

\* Descriptive p value

# Histone modifier gene mutations in peripheral T-cell lymphoma, not otherwise specified.

- histone methylation
- histone acetylation
- DNA methylation
- chromatin remodeler



# Pembrolizumab and Romidepsin in r/r PTCL: Outcomes

Lead in Phase I

R/R CTCL  
(n=3-6)

R/R PTCL  
(n=12)

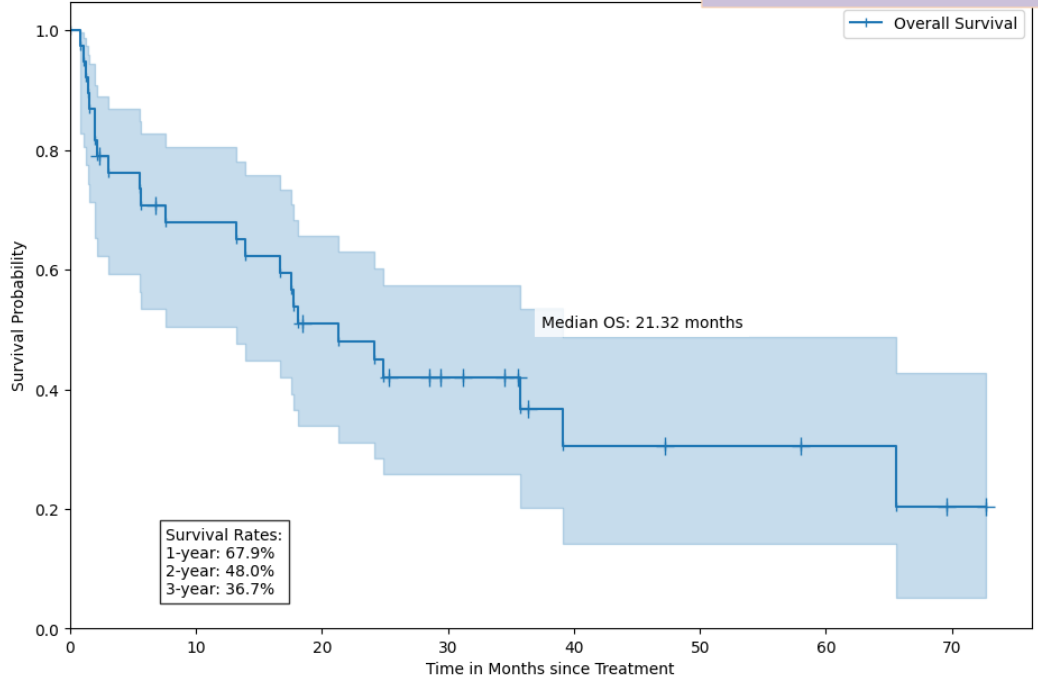
Phase II: Expansion Phase

## OS

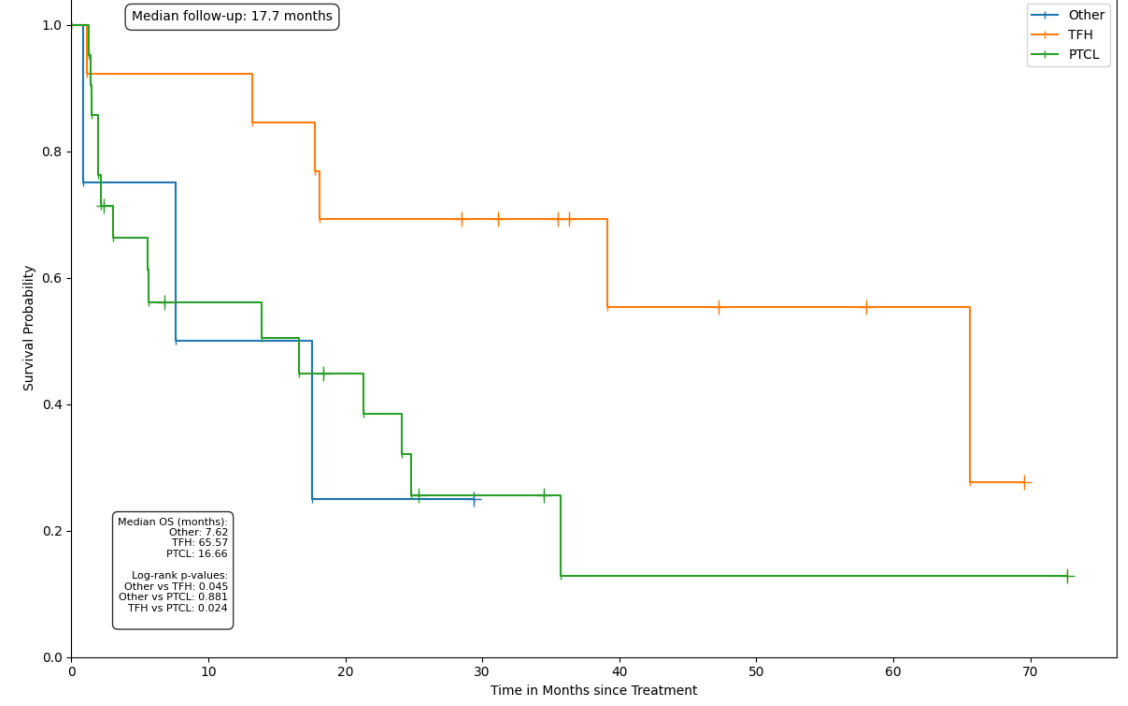
**Primary end points:** Safety, tolerability and ORR  
**Secondary end points:** CRR, PFS, OS and DoR  
 AEs monitored and graded according to the NCI Common Terminology Criteria for Adverse Events version 4.0 guidelines

## OS by subtype

Overall Survival for Pembro-Rom

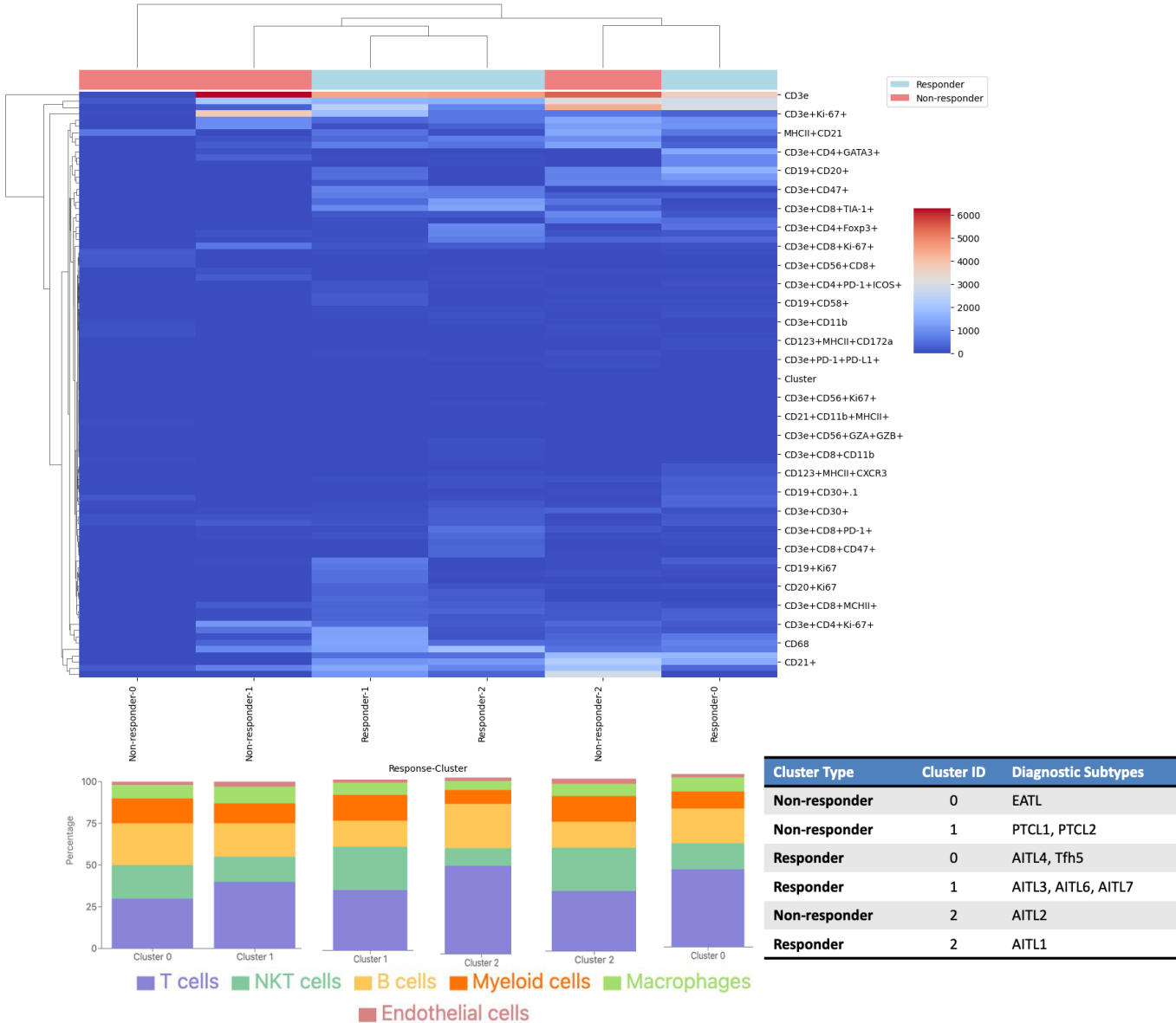


Overall Survival Curve by Dx Subtype



Number at risk: 38, 26, 24, 19, 16, 11, 7, 5, 4, 4, 3, 2, 1

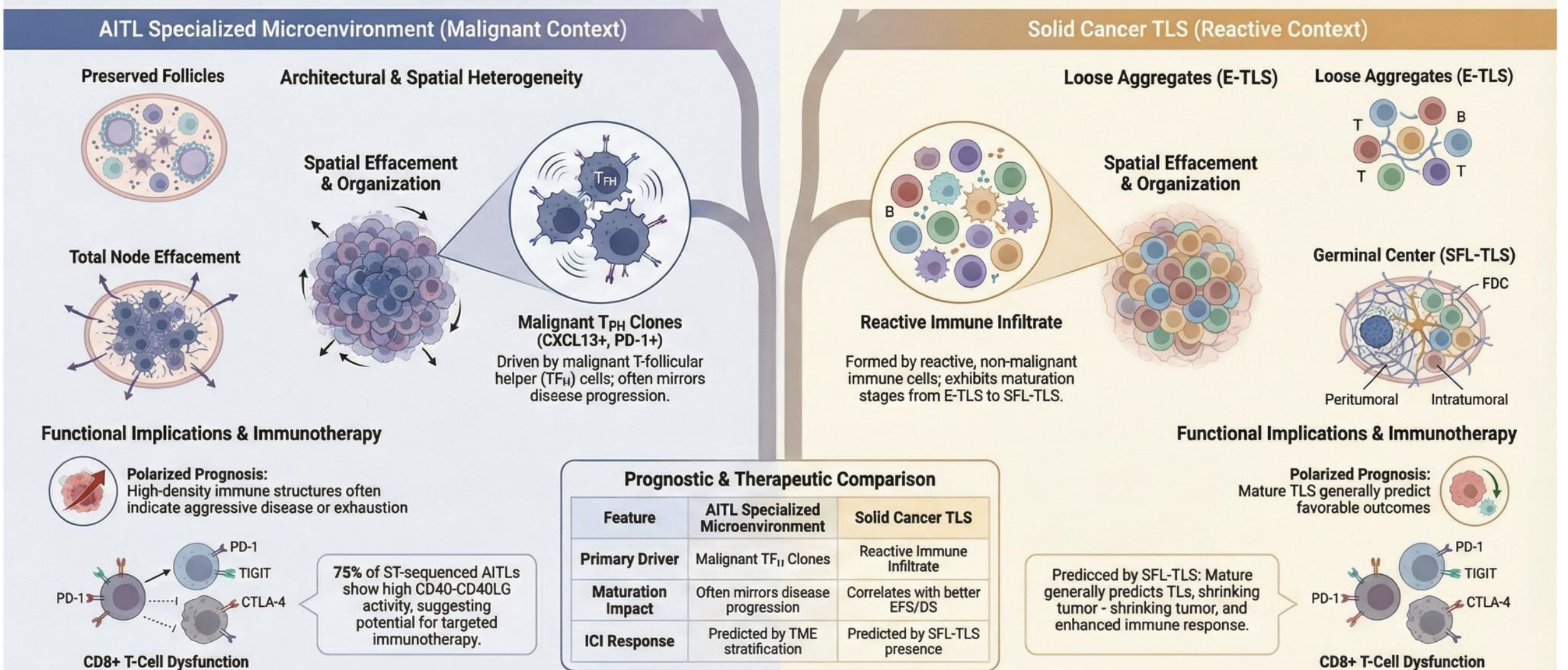
# CODEX analysis of the immune landscape in responders versus non-responders 12/14.



Cell Type	Total Markers	Significant Markers	Trend	Description
T cells	46	15 (32.6%)		Higher in responders
NKT cells	13	6 (46.2%)		Higher in responders
B cells	24	8 (33.3%)		No significant difference
Myeloid cells	9	5 (55.6%)		Higher in non-responders
Macrophages	12	8 (66.7%)		Higher in non-responders
Endothelial cells	3	1 (33.3%)		No significant difference

# Parallel architecture of immune aggregates: AITL TME vs. Cancer Tertiary Lymphoid Structure.

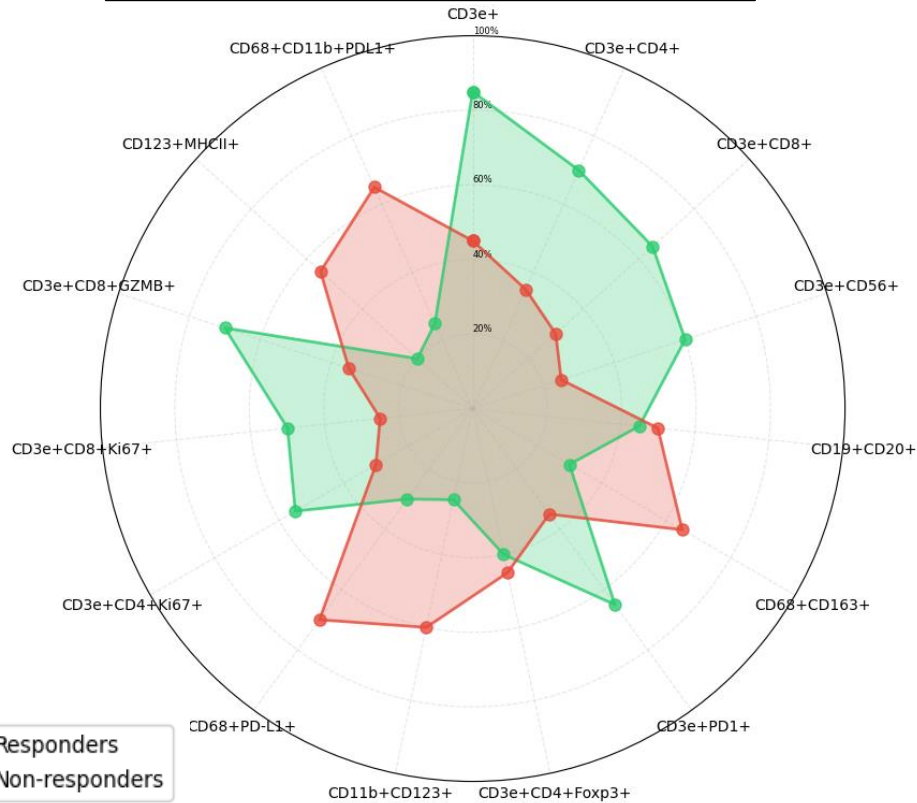
Highlights shared spatial logic but divergent clinical implications



Zhang, X., Sun, Y., Wu, D., et al. (2026). *Cell Death & Disease*. Schumacher, T. N., & Thommen, D. S. (2022). *Science*. Gu-Trantien, C., et al. *Cell*. Pritchett, J. C., Yang, Z. Z., Kim, H. J., et al. (2022). *Leukemia*. Zhu, M., Li, N., Fan, L., et al. (2024). *Blood*.

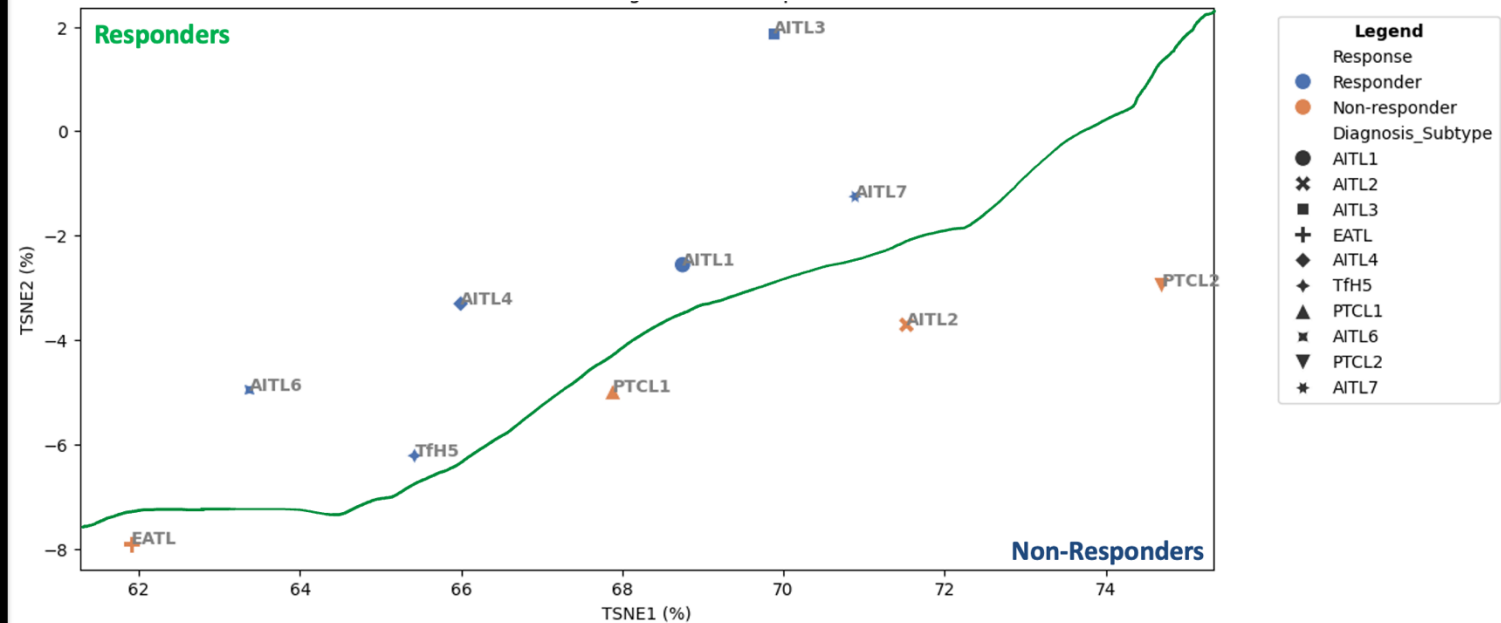
# Global Differentiation Between Responders and Non-responders

**RADAR Plot of responses**



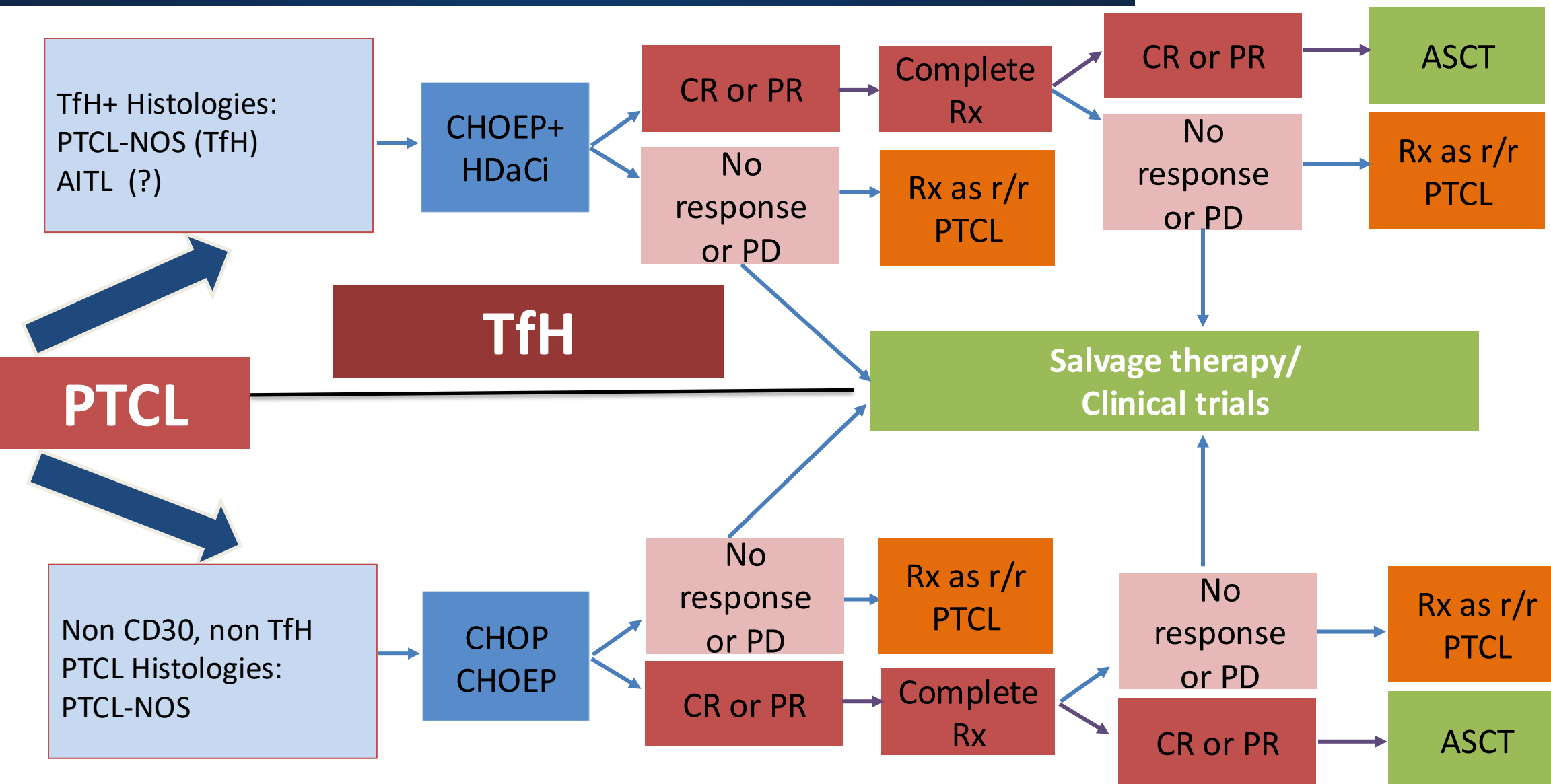
Higher immune cell infiltration or activation of CD3e+ as a marker of response

**t-SNE of cellular subtypes and responses**



Grouping of diagnostic subtypes based on response status, suggests that certain subtypes have a higher likelihood of responding to treatment.

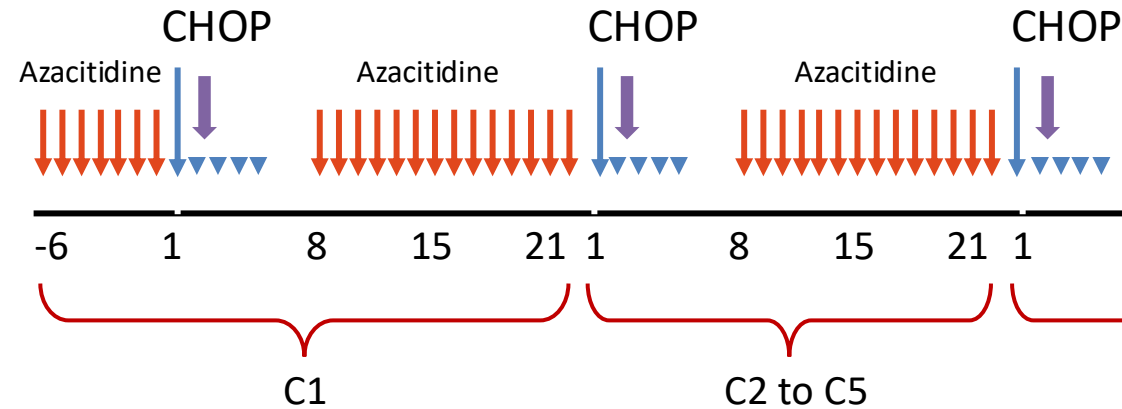
# TfH as the predictive marker in TCL: Lessons from Ro-CHOP Phase III



# Phase II Trial: Azacitidine + CHOP as Initial Therapy for PTCL

## Treatment

- ↓ Azacitidine: cycle 1, days -6 to 0; 1-5 days, days 8-21
- ↓ Cyclophosphamide, doxorubicin, vincristine: day 1
- ▽ Prednisone: days 1-5
- ↓ Growth factor e.g., pegfilgrastim:



- Azacitidine dosing: 300 mg/day, d-6 to 0, then D8-21
- Patients in CR/PR after 6 cycles can receive consolidation

## Patients with untreated PTCL (N = 20)

Nodal TCL w/TFH phenotype (per WHO 2016)

- AITL
- Follicular TCL
- PTCL-NOS, TFH variant

PTCL-NOS

ALCL, ALK neg

ALCL, ALK pos w/IPI >2

Adult T-cell lymphoma/leukemia

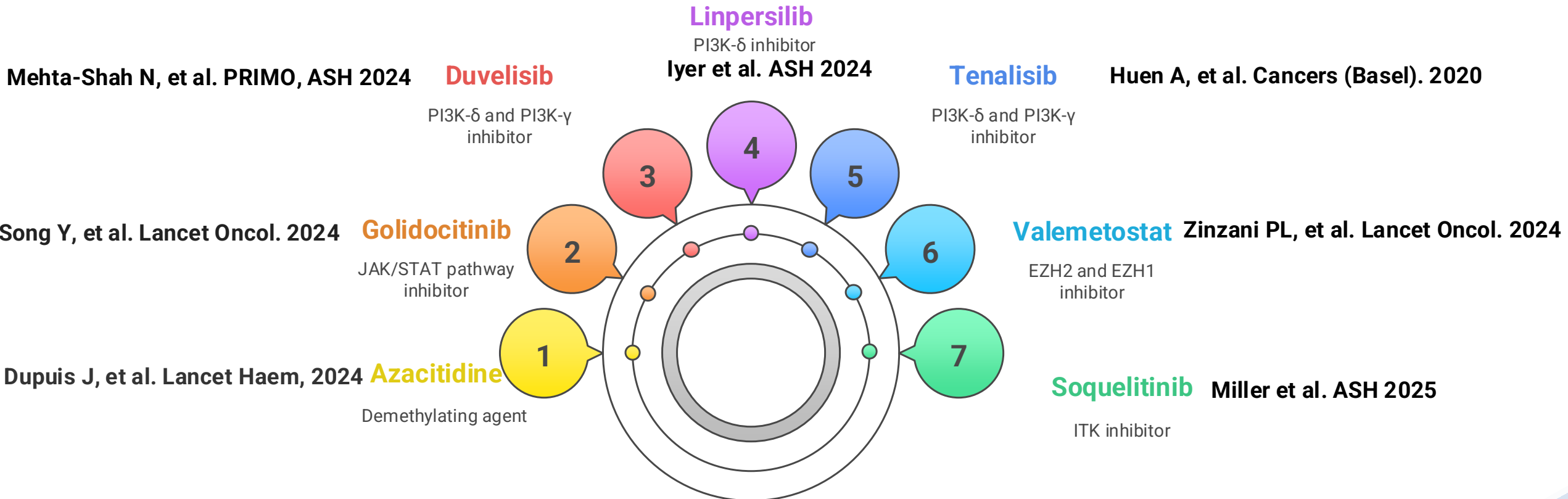
Response	Interim			EOT		
	n	Evaluable, % (n = 20)	PTCL-TFH, % (n = 17)	n	Evaluable, % (n = 20)	PTCL-TFH, % (n = 17)
ORR	17	85	94	15	75	88
CR	11	55	59	15	75	88
PR	6	30	35	0	0	0
SD	2	10	0	1	5	0
PD	1	5	6	2	10	6
Discontinued	0	0	0	2	10	6
Median FU, mo	15 (range: 9-23)					

# Emerging themes in T cell Lymphomas

- Targeting dysregulated pathways: JAK/STAT, PI3K, EZH1/2, ITK

## Targeting dysregulated pathways: JAK/STAT, PI3K, EZH1/2, ITK

### PTCL Treatment Agents and Targets



# Efficacy of Novel agents

Name of Agent	Target / Pathway	N (Patients)	Median Prior Lines (Range)	ORR (Best Overall Response)	CR (Complete Response)	Median F/U	PFS (if available)	Author / Study Reference
<b>Golidocitinib</b>	JAK / STAT pathway (JAK1 selective inhibitor)	104 (Enrolled) / 88 (Efficacy)	2 (1–3)	44.3% (IRC-assessed)	23.9% (IRC-assessed)	NA (Data cut-off Aug 31, 2023)	NA (PFS secondary endpoint)	Song Y, et al. Lancet Oncol. 2024
<b>Duvelisib</b>	Dual PI3K inhibitor (PI3K- $\delta$ / PI3K- $\gamma$ )	123 (All PTCL)	2 (1–9)	48.0% (IRC-assessed)	33.3%	Median PFS: 6.24 months	3.45 months (95% CI: 1.84–3.94)	Mehta-Shah N, et al. PRIMO, ASH 2024
<b>Linperlisib (YY-20394)</b>	PI3K- $\delta$ inhibitor	35 (PTCL FAS)	$\geq 1$ prior therapy	45.7% (Investigator-assessed)	31.4%	$\geq 6$ months follow-up	6-month PFS rate: 40.4% (95% CI: 23.5–56.8)	Iyer et al. ASH 2024
<b>Valemetostat</b>	Dual EZH2 / EZH1 inhibitor	133 (Enrolled) / 119 (Efficacy)	2.0 (1–12)	52.1% (BICR, CT-based)	14.3% (PET-CT based)	NA	NA	Zinzani PL, et al. Lancet Oncol. 2024
<b>Soquelitinib (CPI-818)</b>	ITK inhibitor	19 (Dose-escalation total)	1–18 (range across cohorts)	37%	16%	NA	NA (PFS primary endpoint in Phase 3)	Phase 1 Dose Escalation

# Responses in AITL

Name of Agent	Target / Pathway	N (AITL / Tfh Subtype)	Subtype Context / Cohort	Median Prior Lines (Range)	ORR	CR
<b>Valemetostat</b>	Dual EZH2 / EZH1 inhibitor	53 (AITL: 42; Nodal PTCL-Tfh: 8; FTL: 3)	ORR 52.1% overall in efficacy-evaluable (N=119);	≥1	52.1%	—
<b>Golidocitinib</b>	JAK / STAT pathway (JAK1 selective inhibitor)	16 (AITL)	15.4% of cohort were AITL; overall ORR 44.3%,	≥1	44.3%)	—
<b>Soquelitinib (CPI-818)</b>	ITK inhibitor	7 (AITL)**	AITL & TFH-NOS eligible in Phase 3; enrolled in dose-escalation; no subtype-specific ORR reported	≥1		—
<b>Linperlisib (YY-20394)</b>	PI3K-δ inhibitor	Not specified for AITL subset*	Conducted in PTCL (including AITL); follow-up ≥6 months	≥1	65%	48%
<b>Duvelisib</b>	Dual PI3K inhibitor (PI3K-δ / PI3K-γ)	37			62.2%	51.4%

# Adverse events of Novel agents

Name of Agent	Grade 3/4 Adverse Events (≥10%)	Special AEs / Key Toxicities	Discontinuation Due to AEs	Related Deaths
<b>Golidocitinib</b> (N = 104)	Any TRAE ≥ Grade 3: 59.6%. Most common: ↓ platelets, ↓ WBC, ↓ neutrophils, ↓ lymphocytes.	TRAE 24.0%; primarily hematologic toxicities.	8.7%	1.0% (1 patient)
<b>Duvelisib</b> (Phase 2 PRIMO, N = 123)	ALT ↑ (21.1%), neutrophils ↓ (17.9%), AST ↑ (17.1%).	Transaminase elevation (ALT/AST) most common special AE; Grade ≥ 3 diarrhea 9.8%.	Not explicitly stated (intolerance criteria).	Cryptococcosis (1), EBV-LPD (1), pneumonitis (1), sepsis (1).
<b>Linperlisib</b> (Phase 2 US & EU, N = 98)	Neutropenia (32%), pneumonia (14%), leukopenia (10%).	Pneumonia (11%) most frequent drug-related SAE; immune-related ≥ G3 TRAEs (ALT/AST ↑, diarrhea, colitis, rash) < 5%.	9.2% (9 patients); dose reductions 22.4%.	Not detailed for N = 98 cohort.
<b>Valemetostat</b> (N = 133)	Thrombocytopenia (23.3%).	Cytopenias common; thrombocytopenia most frequent any grade (49.6%) and G3+ TEAE; 2 secondary AML cases.	9.8% (due to any TEAE).	2 patients with secondary AML (discontinued).
<b>Soquelitinib (CPI-818)</b> (Phase 1 Dose Escalation, N = 45 safety pop.)	Any TEAE ≥ G3: 53.3%. Most common TRAE ≥ G3: neutropenia (11.1%).	Serious TRAE 8.9%; non-hematologic G3+ TRAEs included pneumonia (4.4%) and rash (4.4%).	Not stated.	No treatment-related deaths.

# ASH 2026 Oral Presentations

## DR-01 in Large Granular Lymphocytic Leukemia (LGLL)



**60%**

### Overall Response Rate

Observed in patients receiving the secondary induction regimen (DR-01 on CTD1/D8/D15).



### Favorable Safety Profile

Most adverse events were grade 1-2; no deaths or dose-limiting toxicities occurred.



### Durable Responses Observed

Longest ongoing response lasted over 15 months in a heavily pretreated patient.

## Liposomal Mitoxantrone (Lipo-MIT) vs. Chidamide in R/R PTCL



### Lipo-MIT Superior in Progression-Free Survival (PFS)

Lipo-MIT nearly tripled the median PFS compared to chidamide.

### Higher Response Rates with Lipo-MIT

The overall response rate was significantly higher for Lipo-MIT than chidamide.

### Efficacy Endpoint Comparison

Efficacy Endpoint	Lipo-MIT	Chidamide
Median PFS (months)	7.5	2.6
Overall Response Rate (DBR)	36.1%	18.8%
Overall Survival (DS, months)	14.0	8.8

## Ulviprubarit in T-Cell LGLL (T-LGLL)



### Response Rate for Neutropenia

More than half of patients with neutropenia showed improvement with G4W dosing.



### Response Rate for Anemia

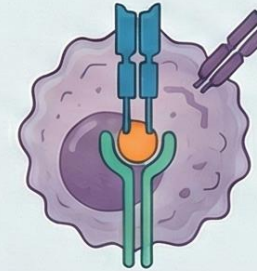
A notable portion of patients with anemia had increased hemoglobin levels.



### Generally Well Tolerated

The treatment was active in depleting cytotoxic T cells with a good safety profile.

## MB-105 (CD5.CAR T) in Relapsed/Refractory TCL



**100%**

### ORR in Early Cohort

All 4 assessed patients in the primary cohort achieved a response (3 CR, 1 PR).



### Acceptable Safety Profile

Adverse events were mainly Grade 1, with no neurotoxicity reported.



### Robust CAR T-Cell Expansion

MB-105 cells expanded significantly and persisted past day 28 in most patients.

## Soquelitinib (SQL) in Relapsed/Refractory TCL



### Response Rate

Observed in patients with 1-3 prior therapies at the 200mg BID dose.



### Median Duration of Response

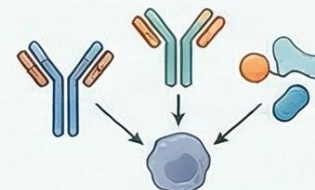
Patients with 1-3 prior therapies showed durable responses.



### Well Tolerated

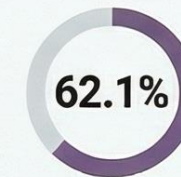
Grade 3+ adverse events were reported in 29% of patients.

## Combination Therapy in Relapsed/Refractory PTCL



### Triple Combination Therapy

Anti-PO1 antibody combined with lenalidomide and azacitidine.



### Overall Response Rate

Included a complete remission rate of 37.9% in evaluable patients.



### Estimated 2-Year Overall Survival

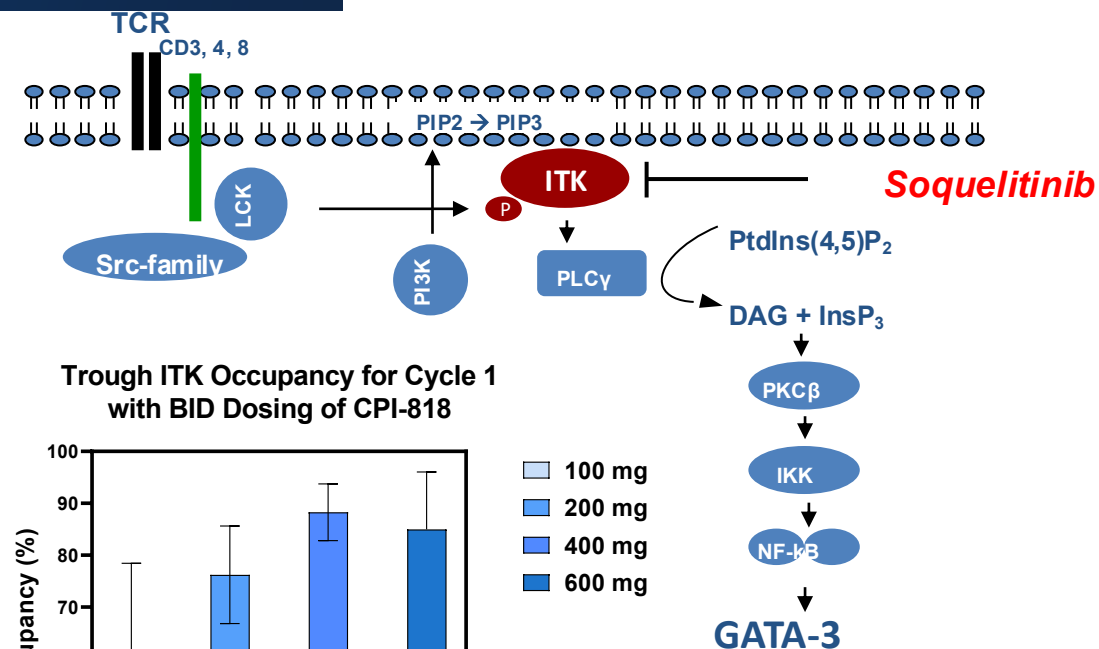
The regimen shows potential for long-term survival benefits.

# SOQUELITINIB: Phase 1 Subject Enrollment and Patient Characteristics

Enrollment in US, AUS, KOR and China (n=60)

31 patients enrolled at 200 mg BID

Patient Characteristics	100 mg (N=4)	200 mg (N=31)	400 mg (N=9)	600 mg (N=16)
Age (yrs.), median (range)	51 (29, 75)	60 (29, 81)	69.0 (41, 80)	63.5 (34, 84)
Gender, male N (%)	3 (75)	14 (45.2)	6 (66.7)	8 (50)
No. of prior therapies, median (range)	3.5 (2, 4)	3 (1, 18)	5 (2, 15)	5 (1, 9)
Histologies				
PTCL-NOS	1	13	2	9
AITL	1	4	2	0
ALCL	1	3	0	0
CTCL Sezary	0	2	4	1
CTCL Mycoses	0	5	1	5
Other	1	4	0	1



- Good occupancy achieved at 200 mg BID and beyond
- Excellent correlation between PBMC and tissue occupancy in both LN core and skin punch samples
- Conclusion: Occupancy in PBMCs = Occupancy in Lymph nodes = Occupancy in Skin

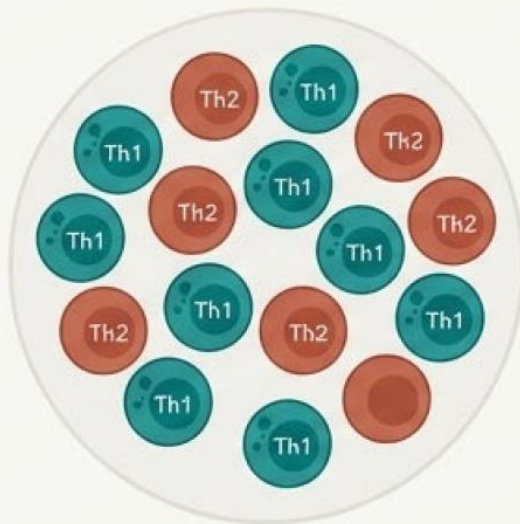
# SOQUELITINIB: a selective ITK inhibitor skews the immune response to enhance anti-tumor activity

## Agent & Mechanism of Action

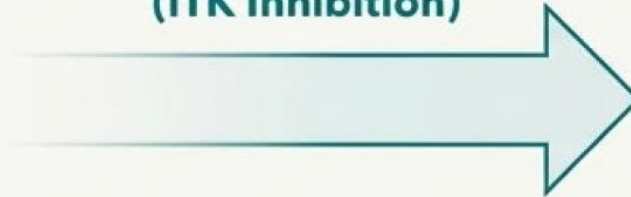
- **Agent:** Soquelitinib (SQL), an oral, covalent inhibitor of Interleukin-2-inducible T cell kinase (ITK).
- **Mechanism:** ITK is involved in TCR signaling. SQL suppresses the Th2 response while sparing Th1 function. This 'Th1 skewing' is hypothesized to have both direct effects on tumor cells and an indirect effect by inducing a host anti-tumor immune response.
- **Biomarker Rationale:** ITK inhibition reduces GATA3 expression, a master regulator of Th2 cells. The GATA3+ subtype of PTCL is associated with poor prognosis.

\***Study:** Phase 1 dose escalation and expansion cohort trial (NCT03952078). **Population:** 75 patients with R/R TCL. **Median** 3 prior therapies. **Dose Focus:** 200mg BID selected as it achieved complete target occupancy.\*

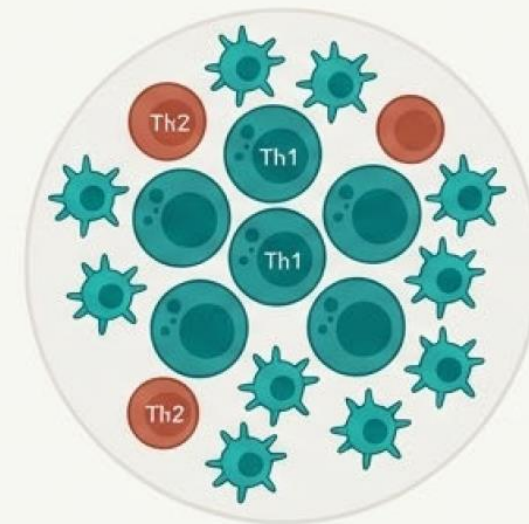
Tumor Microenvironment



Soquelitinib  
(ITK Inhibition)



Skewed Anti-Tumor Environment

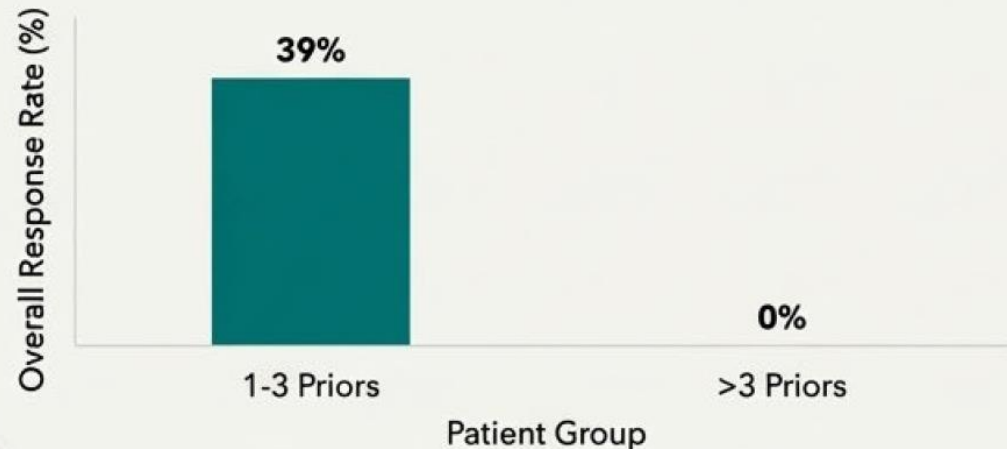


# SOQUELITINIB shows durable responses in less heavily pre-treated patients

## Efficacy is Dependent on Prior Lines of Therapy (200mg BID dose)

1-3 Prior Lines (n=23)  
**39% ORR**

>3 Prior Lines (n=14)  
**0% ORR**



**Key Implication:** The mechanism requires a baseline level of immunocompetence that may be lost after extensive prior therapy.

## Durability and Survival in Patients with 1-3 Prior Lines

- Median Duration of Response: **18.5 months**
- Median Progression-Free Survival: **6.2 months**
- Median Overall Survival: **28.1 months**

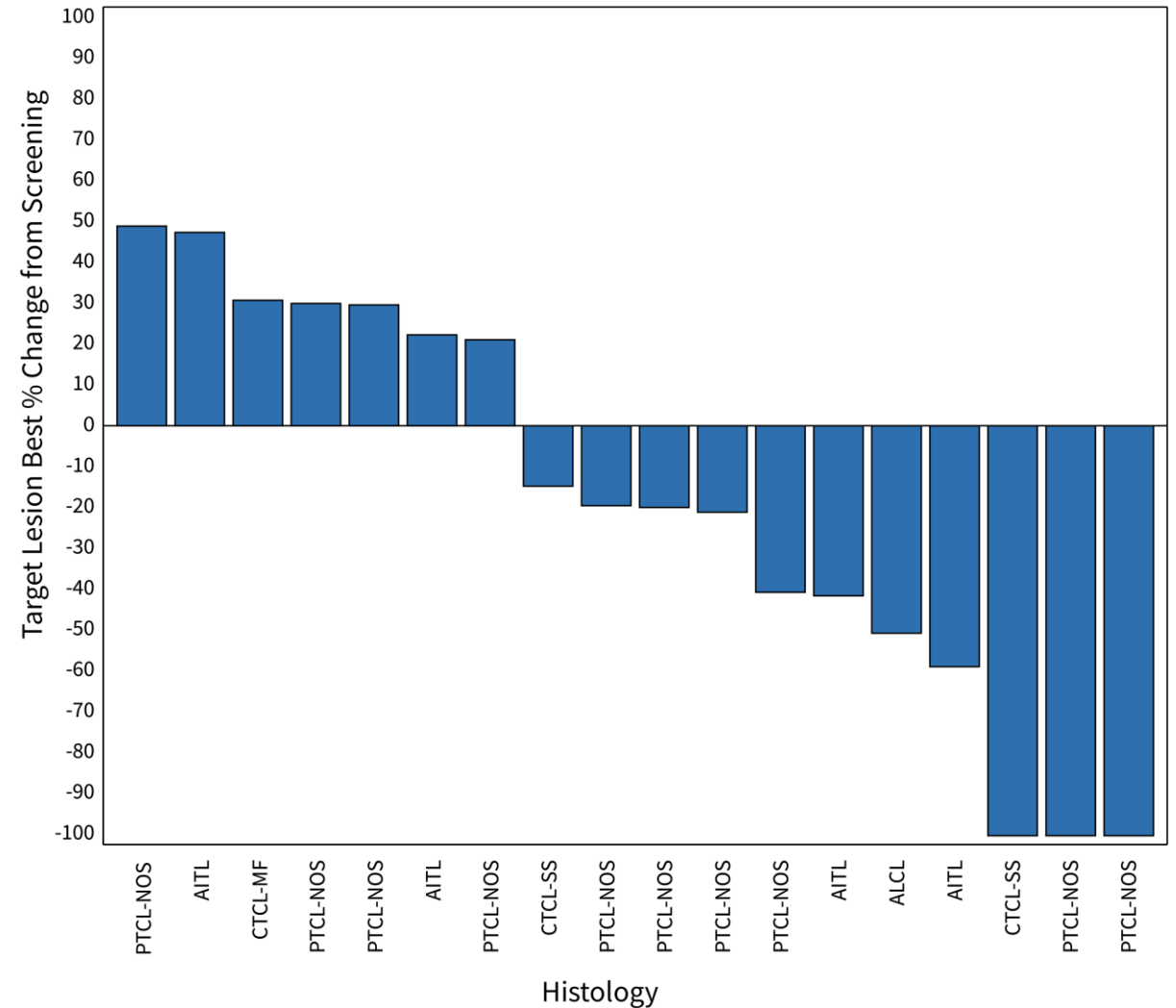
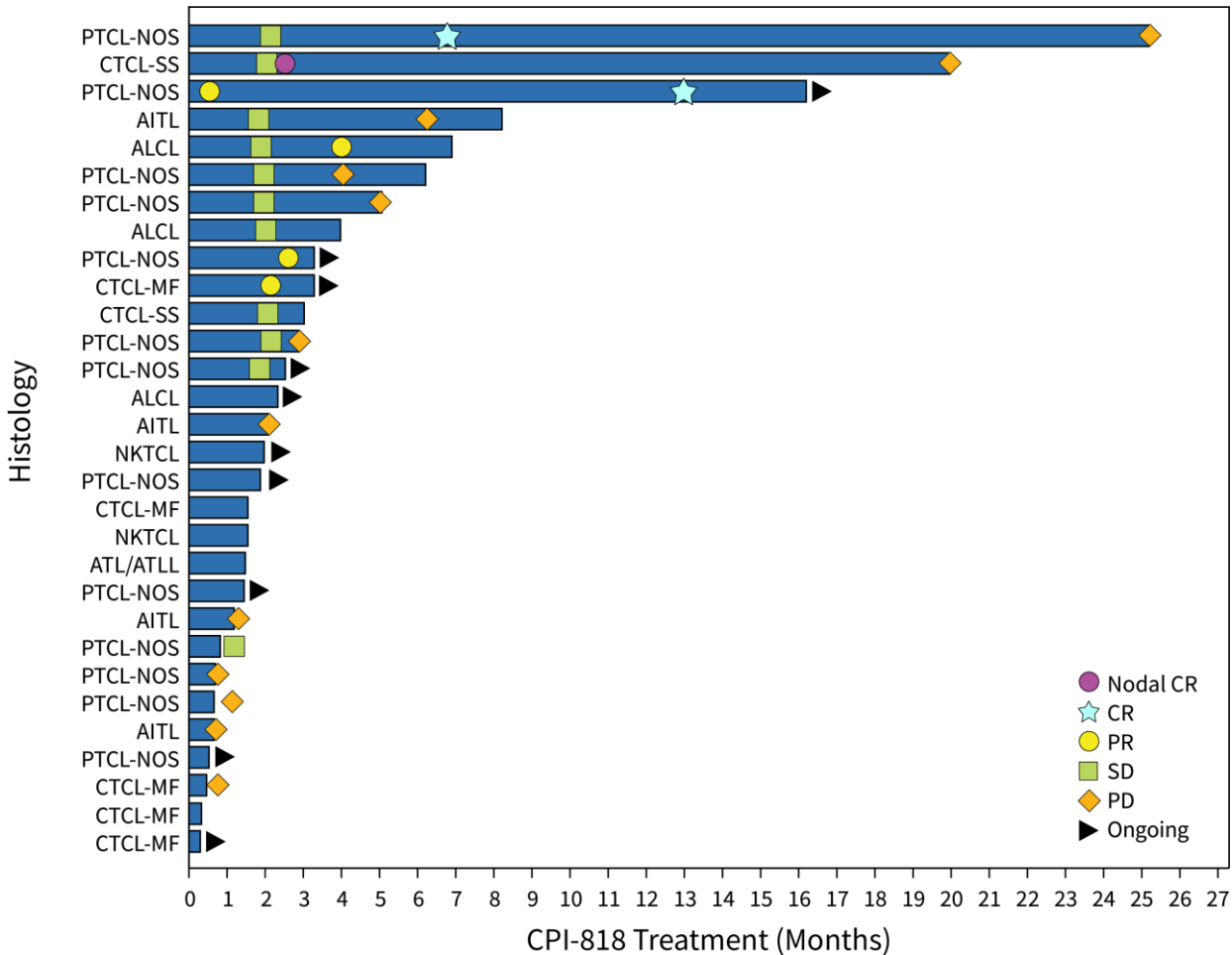
## Safety and Biomarkers

- **Safety:** Well tolerated; Grade 3+ AEs reported in 29% of patients.
- **Biomarkers:** All 11 patients with available tissue were GATA3+ by IHC. Treatment increased Th1/TEMRA cells and reduced T-cell exhaustion markers (LAG3, TIM3).

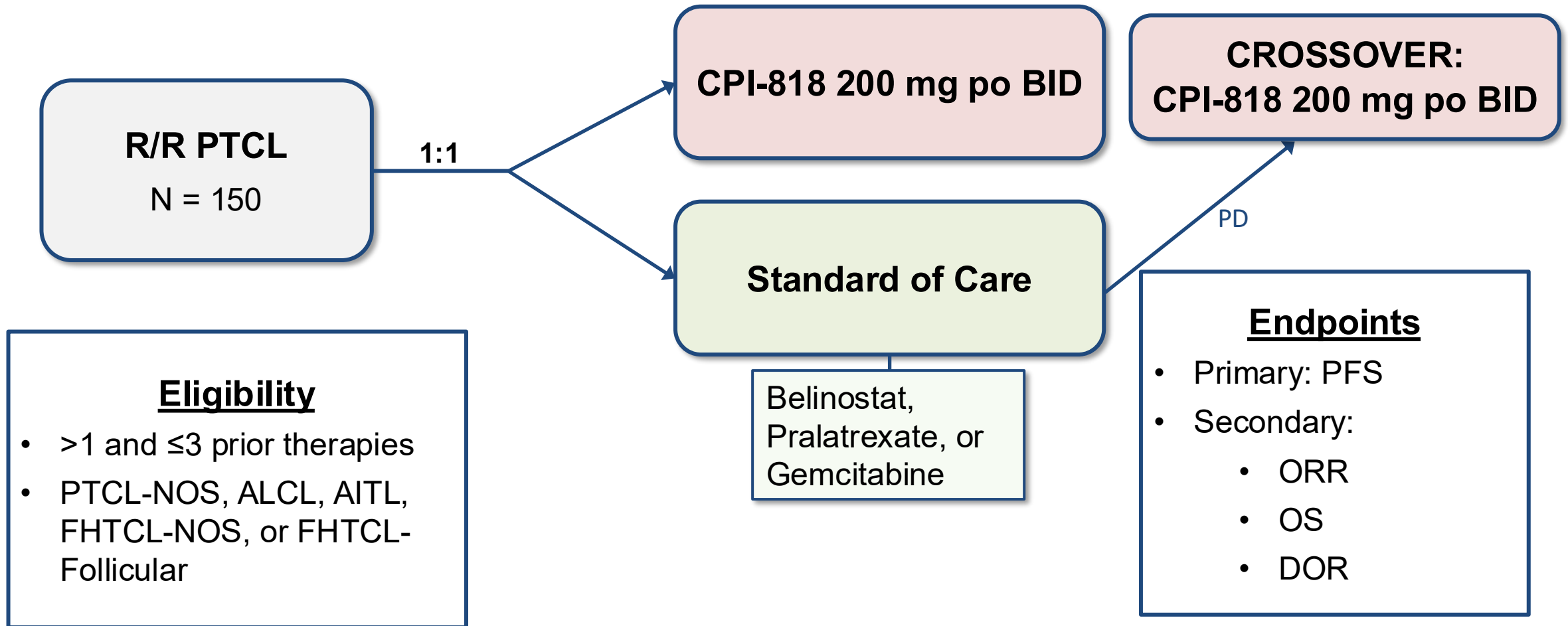
## Next Steps

Now being evaluated vs. standard therapy in a randomized Phase 3 trial (NCT06561048) in PTCL patients with 1-3 prior therapies.

# Clinical Results in Optimum Dose Cohort



# Randomized Phase 3 Trial



# Emerging themes in T cell Lymphomas

- Epigenetic targeting of Tfh
- Targeting dysregulated pathways: JAK/STAT, PI3K, EZH1/2
- Targeting cytotoxic, gamma-delta and NK subtypes
- Immunotherapy: checkpoint blockade and cellular

# DR-01 Targets Cytotoxic Lymphomas (CTLs): Rare with High Unmet Need

## CTLs

- Group of rare lymphoma subtypes (3%–6% of non-Hodgkin lymphoma)<sup>1</sup>
- Characterized by cytotoxic cells expressing CD94
- Few CTL patients are represented in randomized studies

## Outcomes are poor

- Median overall survival (mOS) < 1 year in newly diagnosed HSTCL, EATL, and ENKTL patients<sup>2</sup>
- mOS of only ~3 months in R/R ENKTL<sup>3</sup>

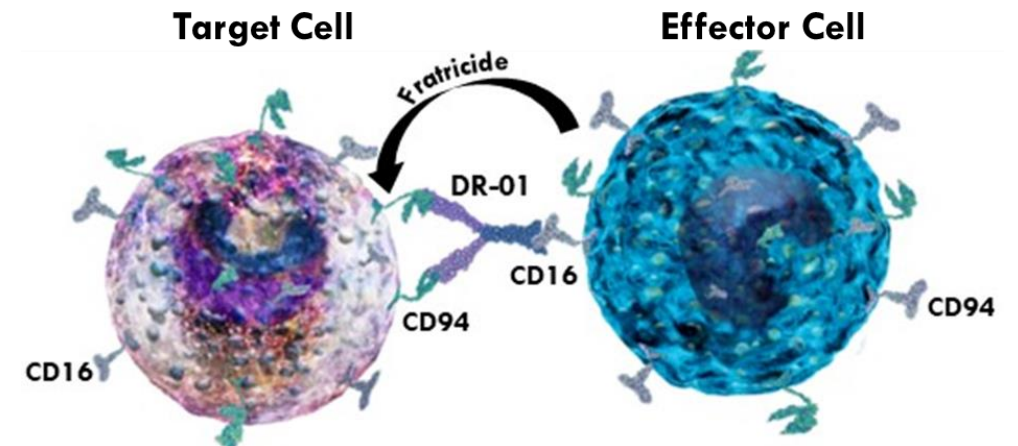
## DR-01 (non-fucosylated antibody)

- Engages Fc- $\gamma$  receptors, such as CD16a
- Triggers antibody-dependent cellular cytotoxicity (ADCC) by effector cells or fratricide, resulting in target cell depletion

## Cytotoxic Lymphoma Histologies

ENKTL, nasal type	ET-CTCL
EATL	ANKL
MEITL	HVLPD
HSTCL	PTCL-NOS*
SPTCL	Cutaneous PTCL-NOS*
PC $\gamma\delta$ TCL	

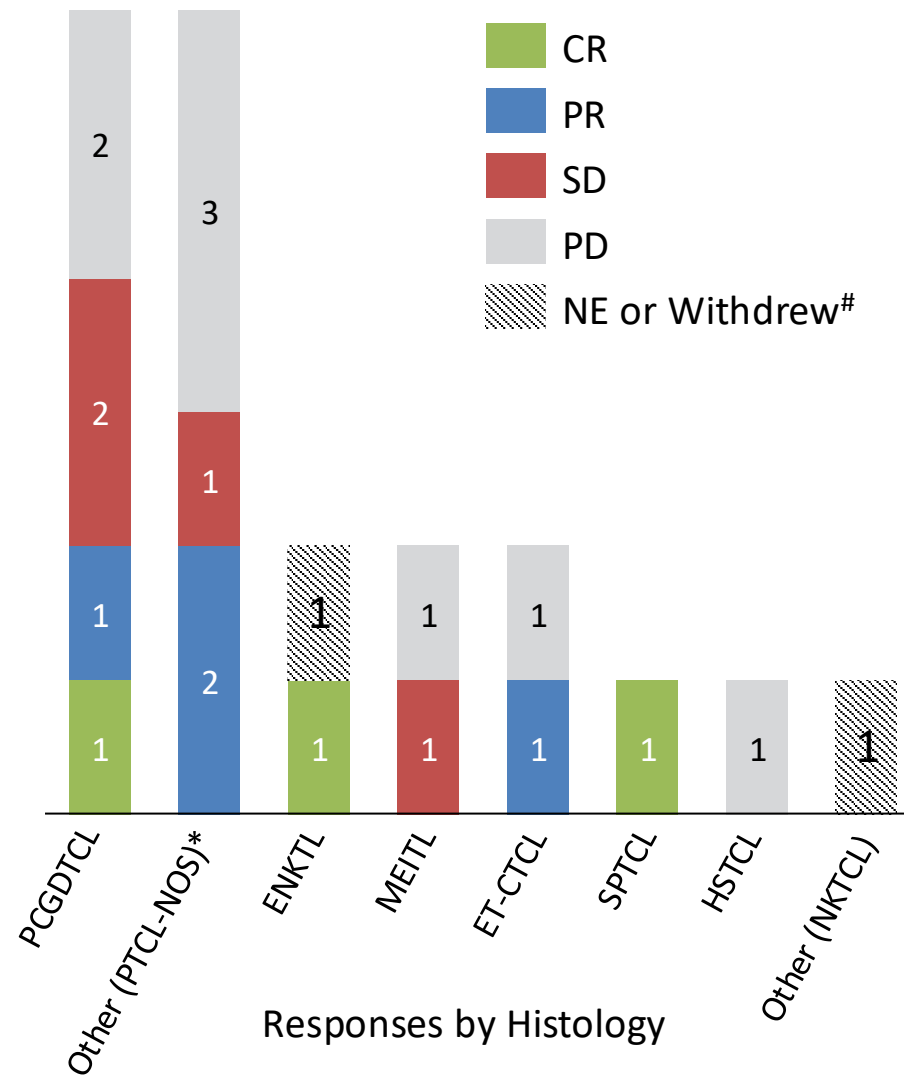
\*Selected patients with a cytotoxic phenotype



<sup>1</sup>Leukemia and Lymphoma Society 2024; <sup>2</sup>Vose et al. JCO 2008 ; <sup>3</sup>Bellei M et al. Haematologica 2018

# Promising Response Rate, including CRs, in CTL Patients During Dose Escalation in Majority of Histologies

	Dose Level (mg/kg)					Total (N=19) <sup>#</sup>
	0.3 (N=1)	1 (N=6)	3 (N=4)	6 (N=5)	10 (N=3)	
<b>ORR, n (%)</b>	0	4 (67)	1 (25)	2 (40)	9	7 (37)
<b>CR</b>	0	3 (50)	0	0	0	3 (16)
<b>PR</b>	0	1 (17)	1 (25)	2 (40)	0	4 (21)
<b>SD</b>	0	0	1 (25)	2 (40)	1 (33)	4 (21)
<b>PD</b>	1 (100)	2 (33)	2 (50)	1 (20)	2 (67)	8 (42)

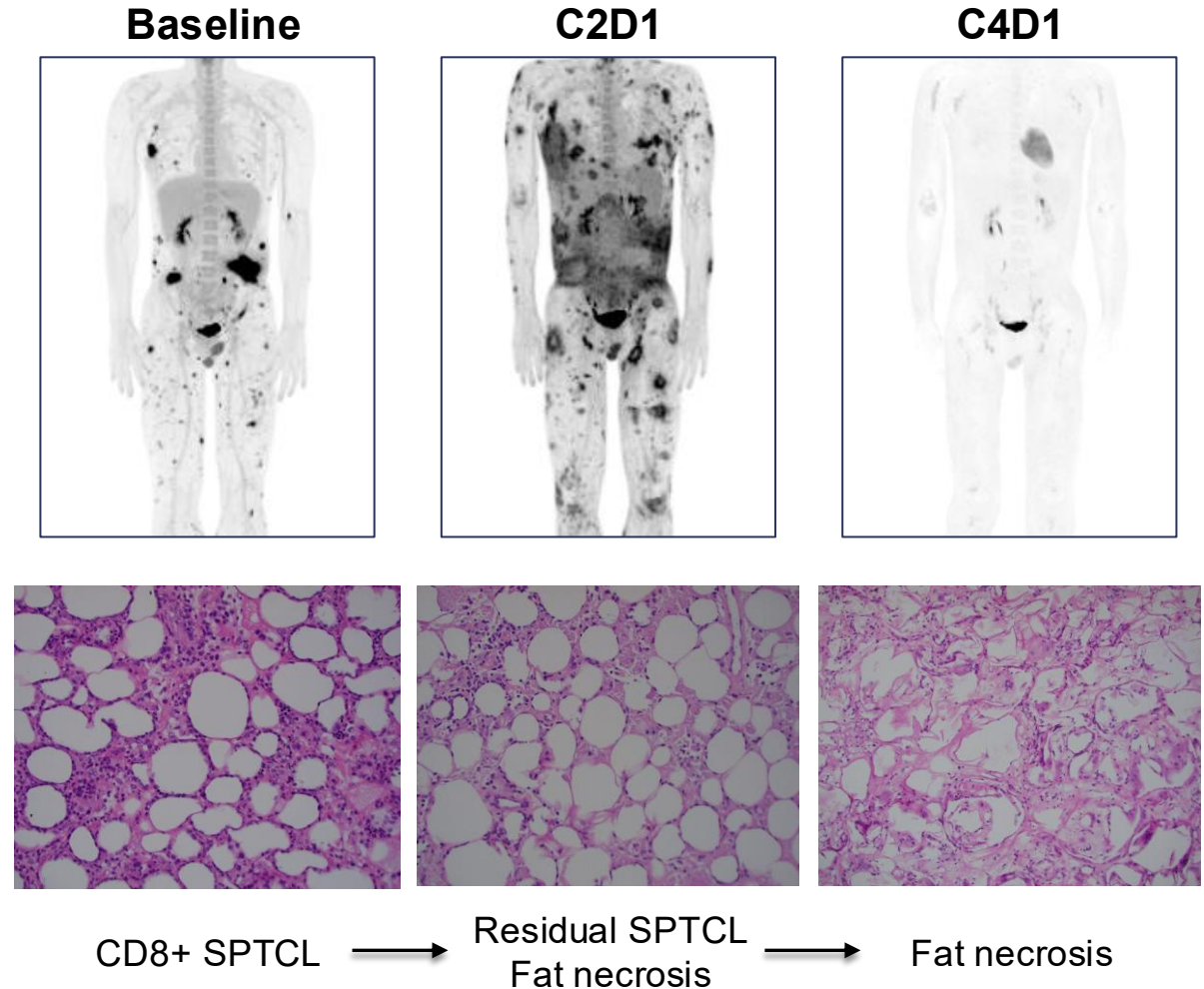


# One unrelated AE withdrawal and one PI withdrawal without assessment

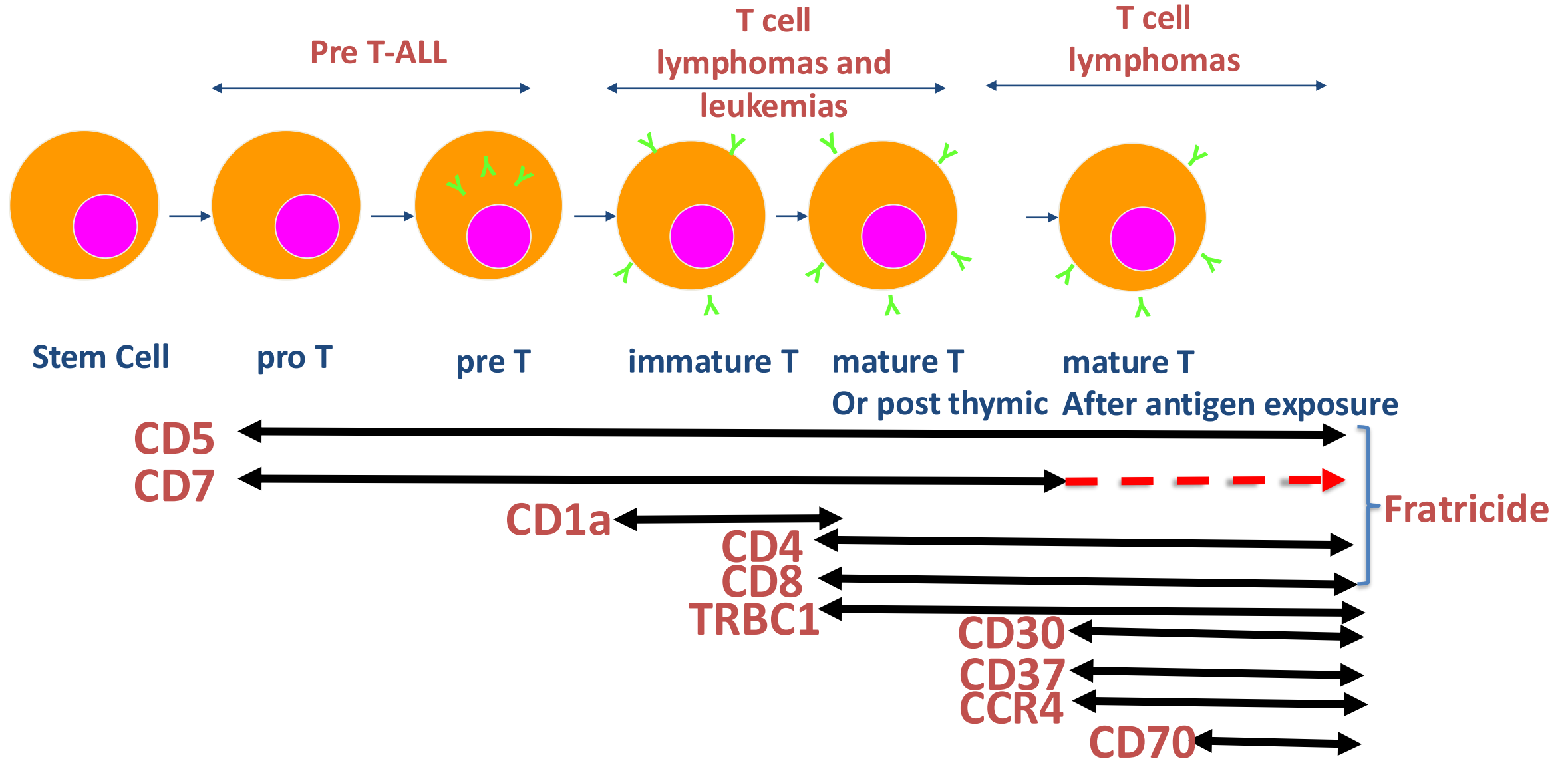
\*Includes cutaneous subtypes

# Case Study: R/R Subcutaneous Panniculitis-like TCL

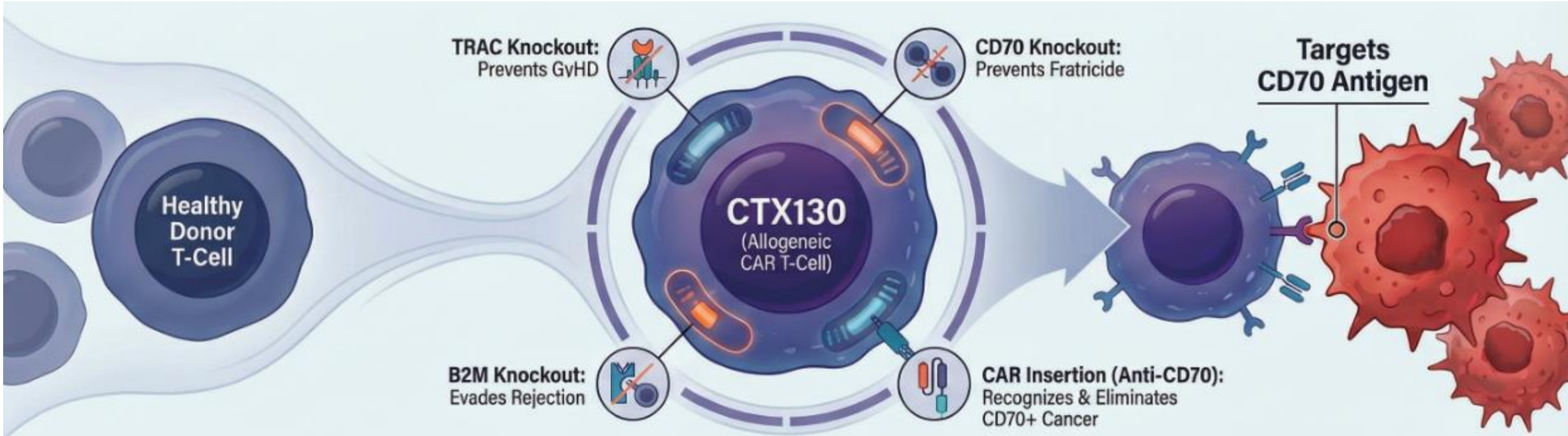
- 24-year-old M with stage IV SPTCL who received 3 prior lines of therapy (corticosteroids, romidepsin, and cyclosporine)
- At C2D1 response assessment:
  - PET scan showed increased FDG-avid lesions which was possibly related to inflammatory response
  - Biopsy of nodule showed residual SPTCL, some fat necrosis and decreased Ki-67
- At C4D1 response assessment:
  - Resolution of FDG-avid lesions
  - Achievement of CR



# Choosing the right targets: expression of CD markers on T lineage and mature T $\alpha\beta$ cells

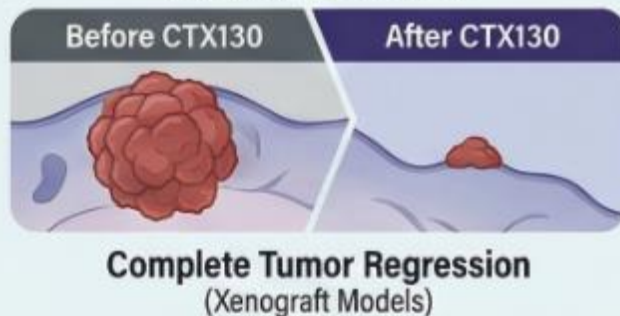


# CTX130: An "off the shelf" CAR-T Cell therapy for TCL

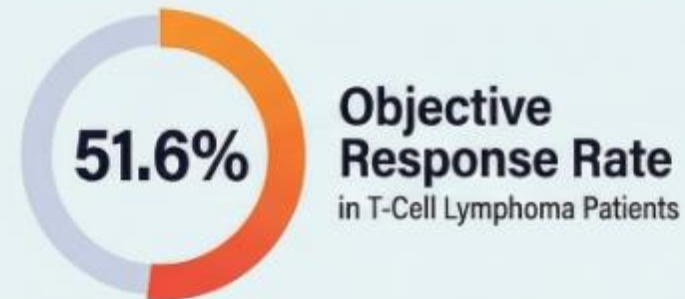


## THE EVIDENCE: Preclinical & Clinical Results

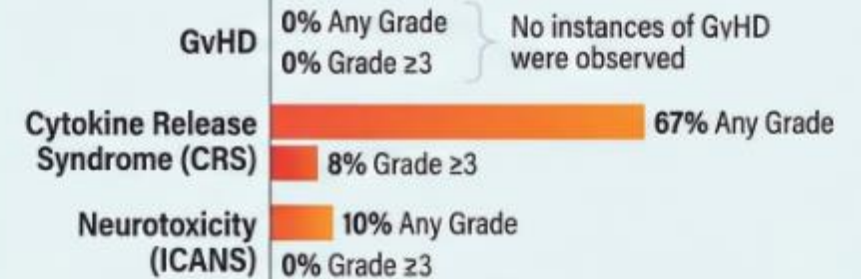
### Preclinical Models



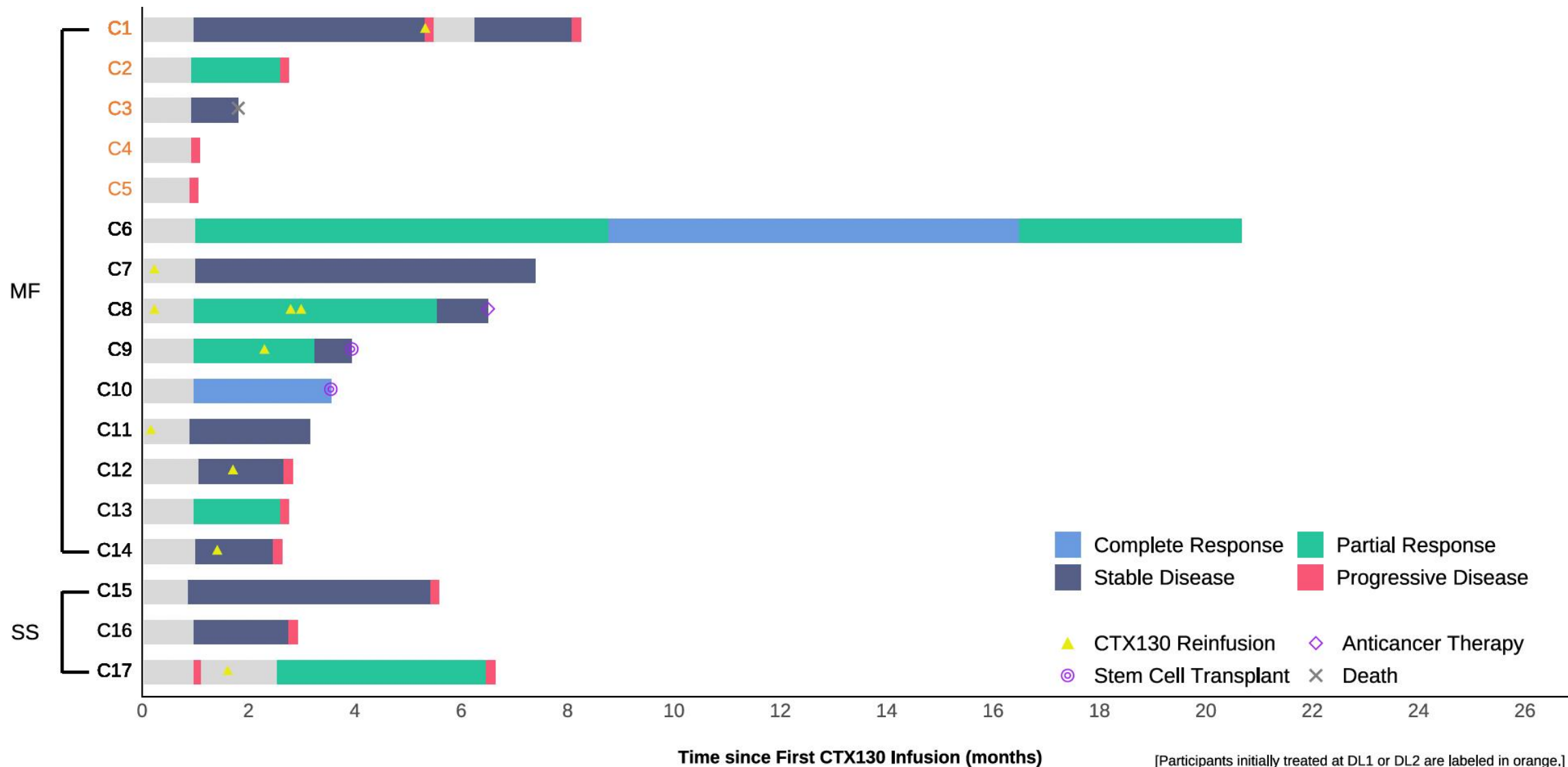
### Phase 1 COBALT-LYM Clinical Trial (N=39)



### Favorable and Manageable Safety Profile



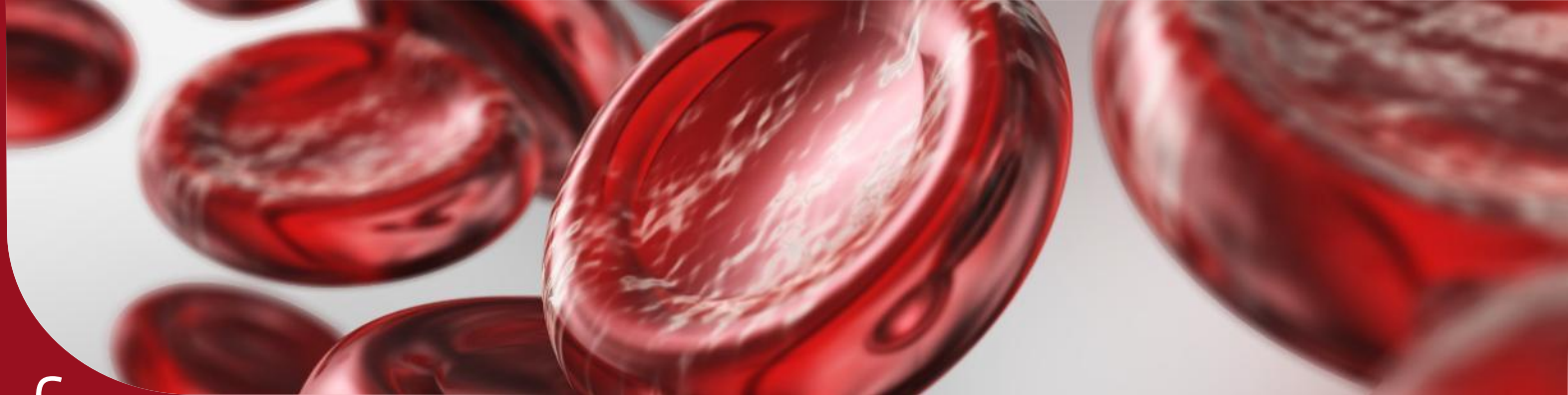
# MF/SS: Response trends





American Society of Hematology

Helping hematologists conquer blood diseases worldwide



# Interim analysis of safety and efficacy in a Phase 2 study of MB-105, a CD5.CAR-T therapy for patients with relapsed/refractory T cell lymphoma

8 December 2025 | **Swaminathan Iyer**

Salvia Jain, Aaron Goodman, Julie Vose, Eric Mou, LaQuisa Hill, Steven Horwitz, Natalie Grover, Anne Beaven, Aleksandr Lazaryan, Malcolm Brenner, Sarah Hein, Federica Giordano, Eric Smith, Robert Michel, Ah-Reum Jeong, Michael Tees, Andy Chen, Shashank Cingam, Maksim Mamonkin, Alice Bexon

# MB-105 evades fratricide without additional engineering

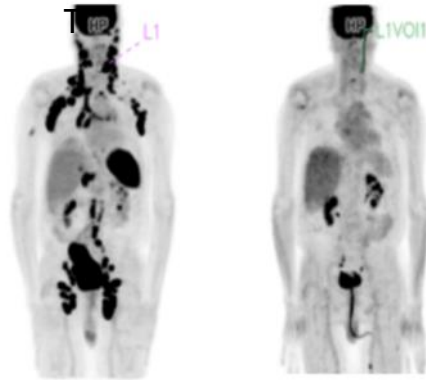
CD5 protein is internalized and degraded in optimized CD5.CAR-T cells

## CD5 expression in T cell lymphoma

- CD5 is a surface receptor expressed in T cells
- Expressed in ~70% of peripheral and cutaneous TCL
- Highly expressed in PTCL-NOS and TFH-like lymphomas
- Expression retained in relapsed/refractory disease

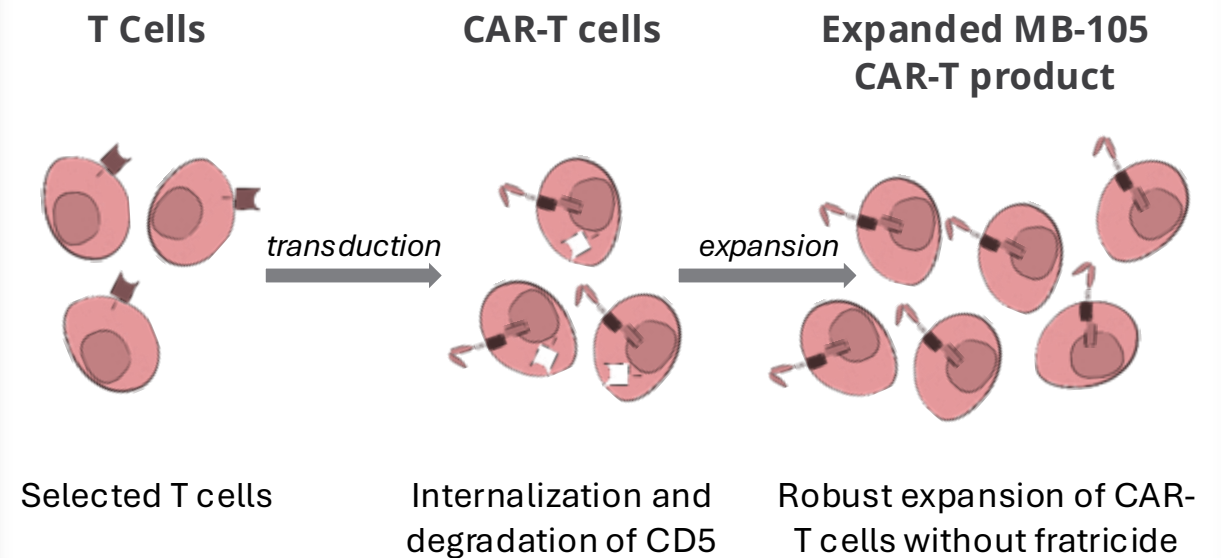
## Phase 1 trial Responses in TCL

Pre-CD5 CAR → CR at 4 weeks



**CR in 4/11 patients**  
**2/4 CR patients alive >6 years**

## Self degradation of CD5 reduces cost and complexity of MB-105 CAR-T production



# Demographics and baseline characteristics

Characteristic, n (%)	Treated patients (n=7)
Age (years)	
Median (range)	70 (60-76)
Sex female	3 (43)
Race	
White	5 (71)
Black	1 (14)
Other	1 (14)
Karnofsky 90-100	5 (71)
Karnofsky 70-80	2 (29)
Type of lymphoma	
PTCL	5 (71)
PTCL-NOS	3 (43)
AITL	2 (29)
CTCL (all MF)	2 (29)

# Lymphoma history, CD5 expression and prior treatments

Characteristic: median (range)*	Treated patients (n=7)
Baseline CD5 expression	
Percent CD5	98 (15-100)
H-score	286 (43-300)
CD5 <sub>low</sub> n (%)	1 (14)
Months since diagnosis	43 (13-109)
NCCN-IPI at initial diagnosis (PTCL)	2 (1-4)
TNMB at initial diagnosis (CTCL)	T2N0M0B0-1
Months since last relapse	4 (1-19)
Prior lines of systemic therapy	3 (2-7)
Prior transplants, n (%)	5 (71)
Autologous	4 (45)
Allogeneic	1 (18)
Baseline LDH	243 (172-267)

\* Unless otherwise stated

# Treatment-emergent adverse events in >1 patient

Hematologic TEAEs (n=7)		
Preferred Term n (%)	Grade 3-4	All
Anaemia	3 (43)	5 (71)
Neutropenia	2 (29)	4 (57)
Neutrophil count decreased	3 (43)	3 (43)
Thrombocytopenia	3 (43)	3 (43)
Platelet count decreased	1 (14)	2 (29)
Blood creatinine increased	0	2 (29)
Hypokalaemia	0	3 (43)

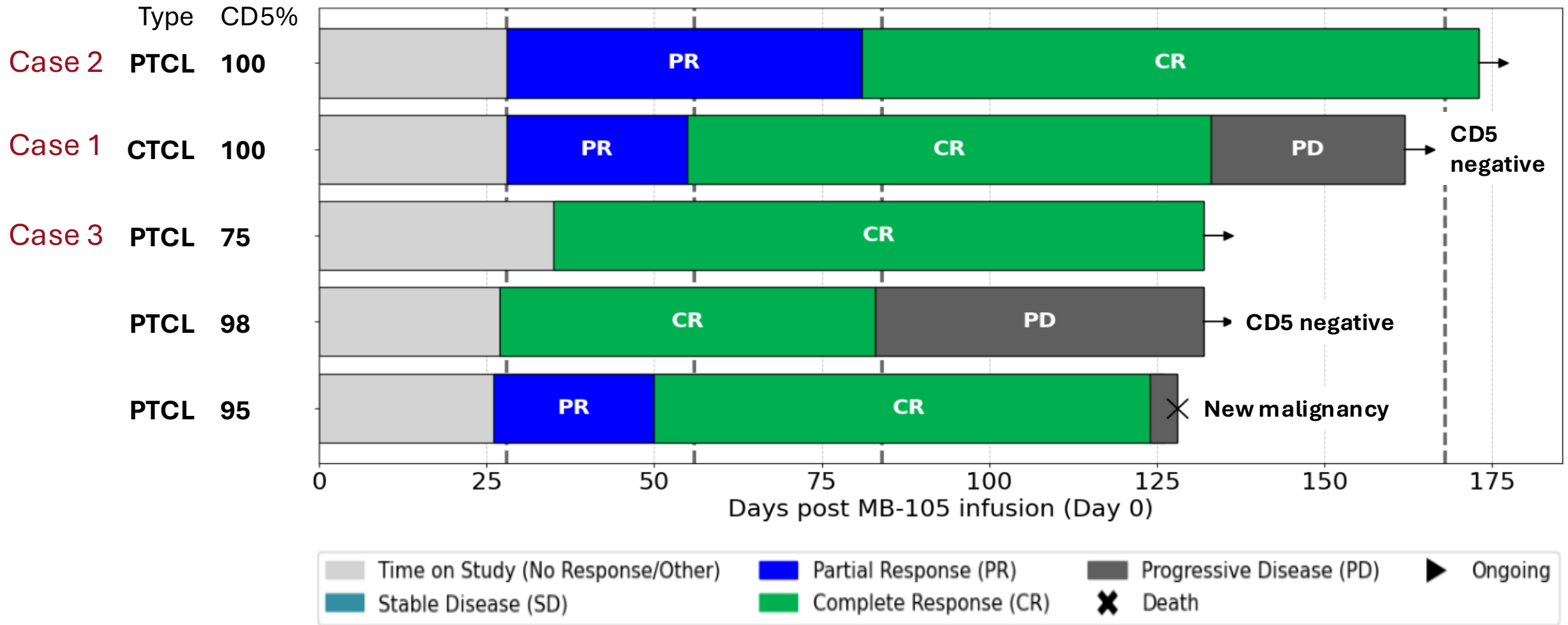
Non-hematologic TEAEs (n=7)		
Preferred Term n (%)	Grade 3-4	All
<b>Cytokine release syndrome</b>	<b>0</b>	<b>4 (57)</b>
Fatigue	0	4 (57)
Dizziness	0	3 (43)
Hypotension	2 (29)	3 (43)
Pyrexia	0	3 (43)
Deep vein thrombosis	2 (29)	3 (43)
Oedema peripheral	0	2 (29)
Constipation	0	2 (29)
Dehydration	0	2 (29)
Dry mouth	0	2 (29)
Febrile neutropenia	2 (29)	2 (29)
Polyomavirus viraemia	0	2 (29)
Pruritus	0	2 (29)

# All MB-105-related treatment emergent AEs

Preferred Term n (%)	Treated patients (n=7)				
	G1	G2	G3	G4	All
Cytokine release syndrome	4 (57)	-	-	-	4 (57)
Diffuse large B-cell lymphoma	-	-	-	-	1 (14)*
Neutrophil count decreased	-	-	1 (14)	-	1 (14)
Epstein-Barr virus	-	1 (14)	-	-	1 (14)
Fatigue	-	1 (14)	-	-	1 (14)
Headache	-	1 (14)	-	-	1 (14)
Rash	-	1 (14)	-	-	1 (14)
Arthritis (hand)	1 (14)	-	-	-	1 (14)

\*Death due to DLBCL on study day 128

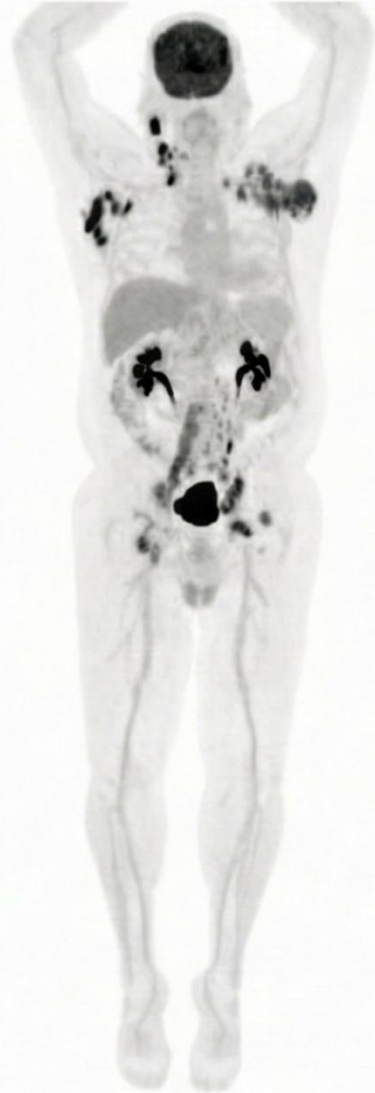
# Efficacy: swimmer plot



# Case 2 – 60 y.o. male, PTCL - NOS

- NCCN IPI score 1
- B-symptoms (fever)
- 26 months since diagnosis
- 5 prior regimens, including allo-SCT

**Baseline**



**Month 1: PR**



**Month 3: CR**



**Month 6: CR**



# Case 2 – 60 y.o. male, PTCL - NOS

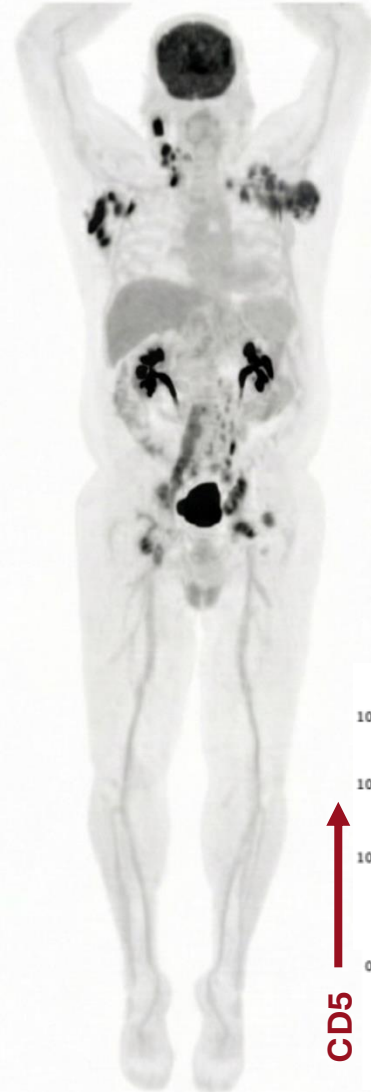
- NCCN IPI score 1
- B-symptoms (fever)
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- 5 prior regimens, including allo-SCT

Baseline

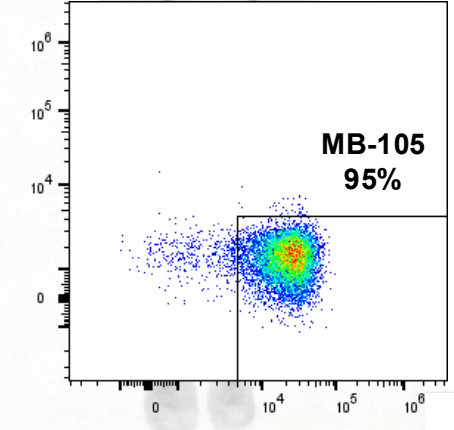
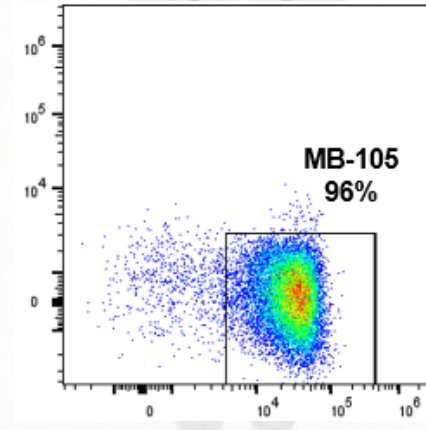
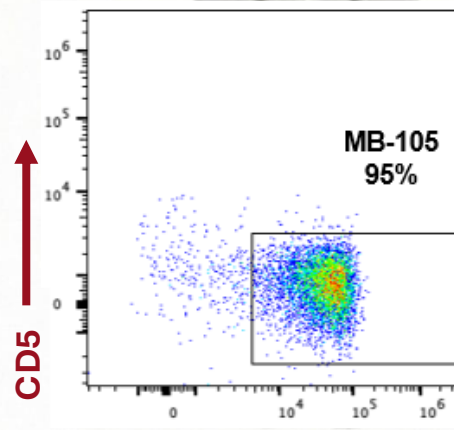
Month 1: PR

Month 3: CR

Month 6: CR



## MB-105 Flow

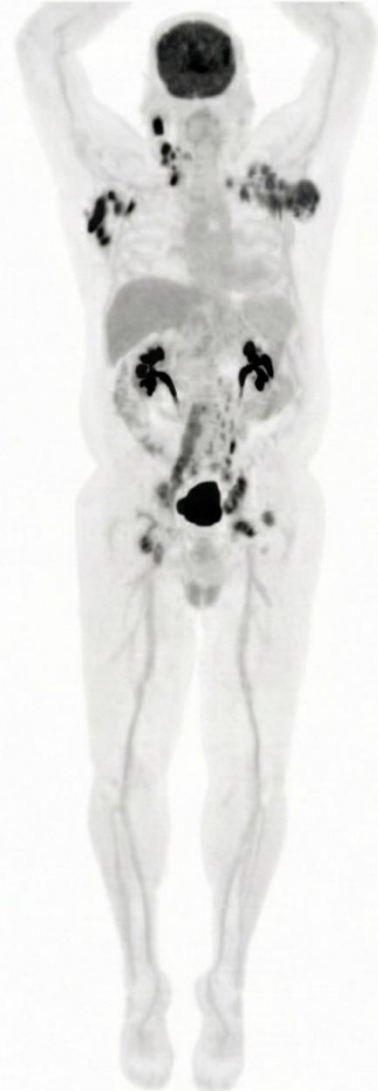


MB-105 →

# Case 2 – 60 y.o. male, PTCL - NOS

- NCCN IPI score 1
- B-symptoms (fever)
- 26 months since diagnosis
- 5 prior regimens, including allo-SCT

**Baseline**



**Month 1: PR**



**Month 3: CR**



**Biopsy R axillary LN**

- No lymphoma
- MB-105 present

**Month 6: CR**



**G1 arthritis in PIP joints of the hand**

# Cytokine Storm

ORAL  
ASH 2024

## ELA026 TARGETING OF SIRP(+) IMMUNE CELLS RESULTS IN A HIGH RESPONSE RATE AND IMPROVED 2-MONTH SURVIVAL OF TREATMENT-NAÏVE MALIGNANCY-ASSOCIATED HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS IN A PHASE 1 STUDY

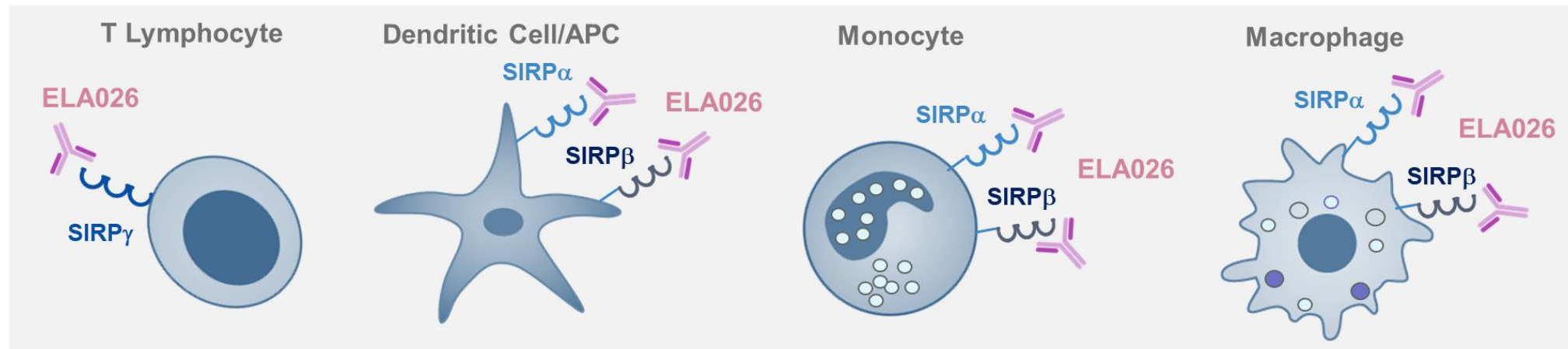
Abhishek Maiti, Naval Daver, William Johnson, Gaurav Goyal, Catherine M Broome, Satyen Gohil, JAM van Laar, Francisco Javier Lopez Jimenez, David McCall, Hayley Lane, Benjamin Kim, Sandip Panicker, Gary Patou, Stephen Moore, Brian Mangal, Kelly Covert, Graham Parry, Kathy Dong, Kim-Hien Dao, Carl Allen, Swaminathan Iyer  
(LB3442)

**June 16, 2024**  
**EHA2024 Hybrid Congress**  
**Late-Breaking Oral Session**  
**Abstract LB3442**

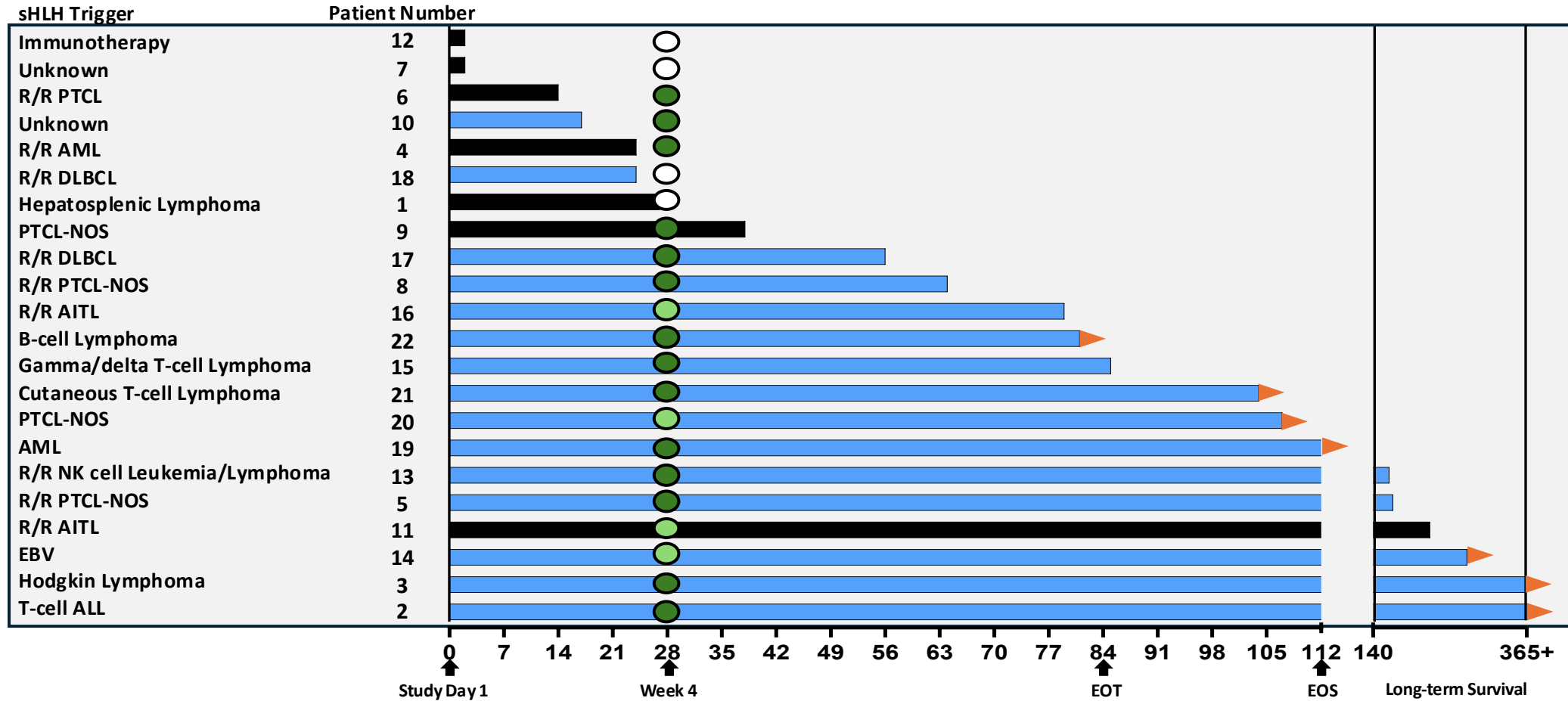
# ELA026 Is a First-In-Class, Clinical Stage mAb Targeting SIRPa/b/g

**Hypothesis: Targeting depletion of multiple pathogenic immune cells may rapidly control the cytokine storm in sHLH**

- ELA026 is a fully human IgG1 monoclonal antibody targeting SIRP $\alpha$ / $\beta$  on myeloid cells and SIRP $\gamma$  on T lymphocytes
- Mediates ADCC and ADCP *in vitro*, with potent depletion of myeloid cells and T lymphocytes demonstrated in non-human primates

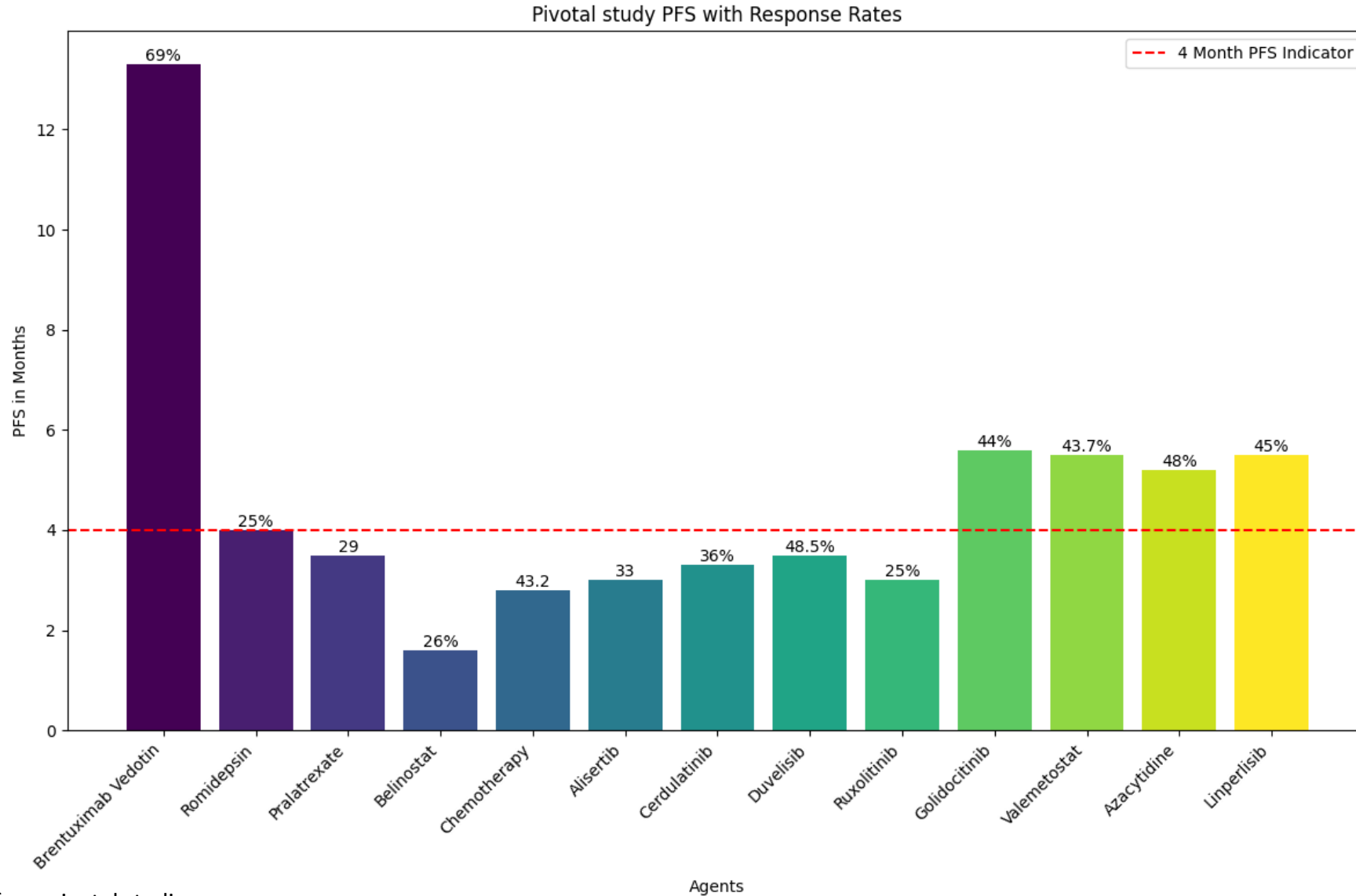


# Overall Study Response and Survival



sHLH Status: Treatment Naïve or Early Refractory (< 1 week of treatment) ■ Relapse/Refractory ■ Alive  
 Best Response by Week 4: CR ● mCR ● PR ● Not evaluable ○ Status: Alive ▶

# Beware of PFS threshold in r/r PTCL



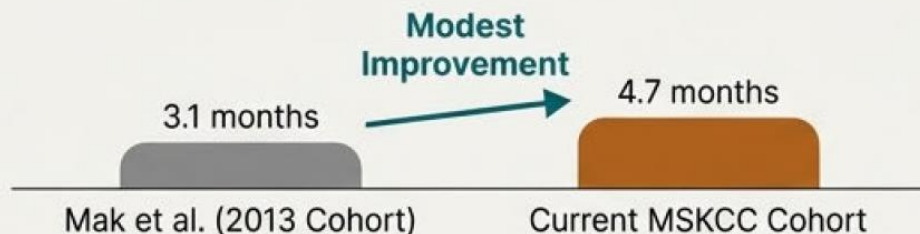
# A modern paradox in R/R PTCL: short PFS, improving OS

A large analysis of 2L therapy for R/R PTCL reveals a striking disconnect: while the PFS remains short, OS has improved dramatically

**Study:** Epstein-Peterson et al. | **N=212** R/R PTCL patients initiating 2L therapy (2012-2025) | 57% received novel agents.

## Survival Metric Comparison

Median PFS after Relapse



Median OS after Relapse



## Interpretation of the Disconnect



- The modest PFS improvement suggests no single 2L therapy is a panacea.
- The dramatic OS improvement suggests the **availability of multiple, mechanistically diverse options** allows for effective sequencing.
- Increased use of consolidative allogeneic transplant also contributes.

# Conclusions: Yes, we see the light



- **Synthesis:** Recent therapeutic breakthroughs conclusively signify a turning point in TCL
- **Core takeaway:**
  - We cannot fully abandon the generic chemo but must leverage precise epigenetic and pathway inhibitors.
  - Demand rigorous baseline diagnostic algorithms for the major subtypes
- Impact size of treatment: higher response rate (RR) generally has higher impact- intensification is reasonable
- Current paradigm of single agent approval followed by combination approaches
- For rare disease and promising drug- potential benefit is assumed to exist until proven otherwise
  - Preclinical and early phase studies are promising
  - However, aim for realistic PFS in front line and relapsed/refractory settings
  - Humbling lessons point to an incremental approach that can get drugs approved (eg in Lung Cancer)
  - Targeting disease subtypes
  - Naysayers and data pundits who don't treat patients
  - They analyze data and perform a watchdog function
  - We should be given the benefit of the doubt to get drugs approved
- ODAC meeting was reality check on FDA views
  - An exceptional case was made for PTCL approval
  - This is unlikely to happen again in PTCL or other diseases

# T Cell Lymphoma Group

## Lymphoma:

- Dr.Christopher Flowers
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- Dr.Loretta Nastoupil
- Dr.Jason Westin
- Dr.Felipe Samaniego
- Dr.Nathan Fowler
- Dr.Luis Malpica
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- Dr.Luis Fayad
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- Dr.Sairah Ahmed
- Dr.Hun Ju Lee
- Dr.Preetesh Jain
- Dr.Raphael Steiner



## Collaborators:

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- LOD
- Section Rare Lymphoma
- Dept. Lymphoma/Myeloma
- Div. Medicine

## Collaborators:

- Statisticians

## Preclinical

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- Dr. Deepa Sampath
- Dr.Eric Davis
- Dr.Simrit Parmar
- Dr.Kumar Pappa
- Dr.Pavan Bachireddy

Thank you very much!

