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Frail/Older Patients With DLBCL: A Persistent Challenge

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Disclosures

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Challenges/Questions in Care of Older Adults



Functionomics

How to identify and utilize functional age?

Therapeutics

- How to optimize 1L therapy in unfit/frail patients?
- Can novel therapeutics move the needle in 2L+ setting?

Aging Biology

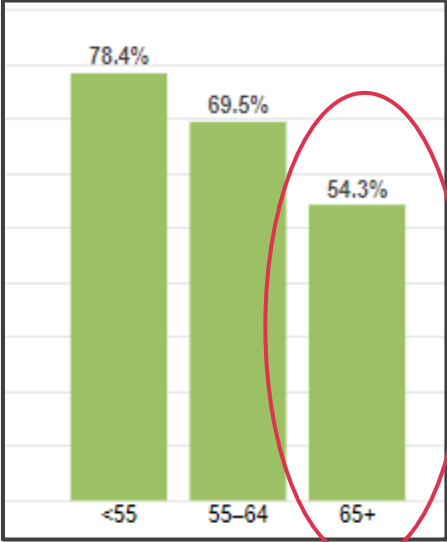
Can aging biology be leveraged to improve outcomes?

Value Based Care

How to study and incorporate:
-Time Toxicity
-Quality of life
-Patient Preferences into decision making?

Importance of *Functionomics*

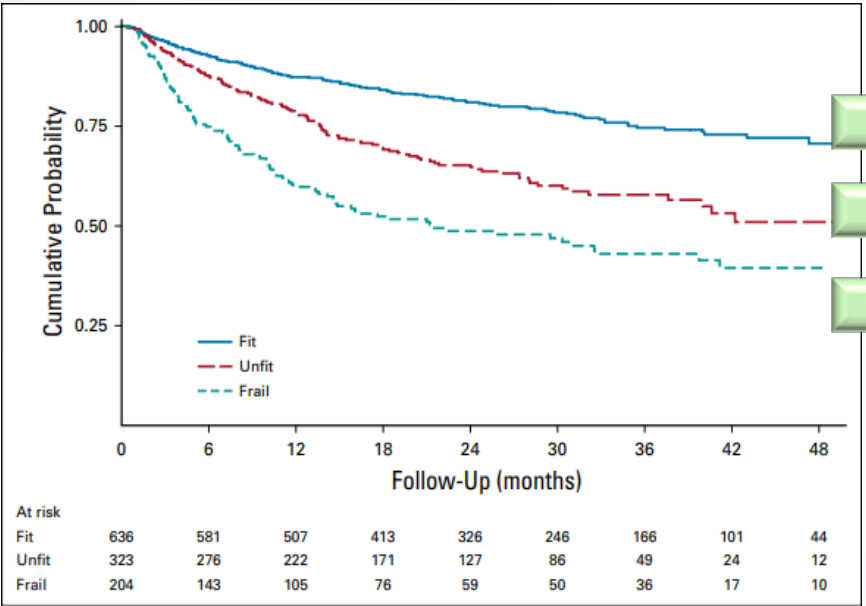
Older adults with DLBCL have worse outcomes



5-year Relative Survival



Simplified Geriatric Assessment (sGA)
The FIL tool allows risk stratification based on biological age



3-year OS:
65% in entire cohort

Free Online Calculator:
www.filinf.it/epi

Simplified Geriatric Assessment				
Criteria	Fit	Unfit (<80)	Unfit (≥80)	Frail
ADL	≥5	<5	6	<6
IADL	≥6	<6	8	<8
CIRS-G	No comorbidities with score 3-4 ≤8 with score 2	≥1 with score 3-4 >8 with score 2	No comorbidities with score 3-4 <5 with score 2	≥1 with score 3-4 ≥5 with score 2
Age -years	<80	<80	≥80	≥80

1163 pts

55%

28%

18%

Patient Characteristics vs Chemotherapy Dosing



R-CHOP vs R-mini-CHOP

Many datasets have now shown **similar outcomes in ≥ 80 yrs**

- UK data
- Danish data
- Flatiron data

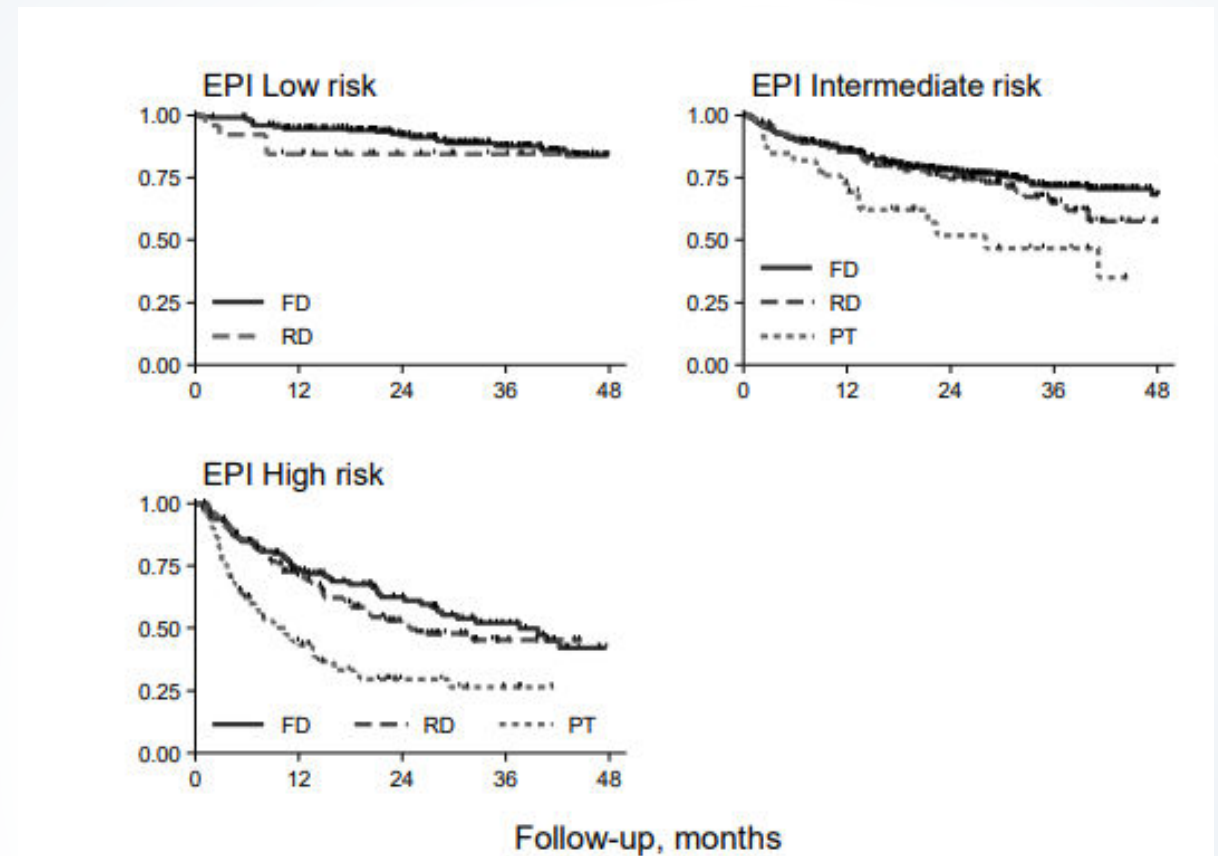
70-79 yrs: Full dose intensity is better than Reduced dose intensity

BUT

This difference is lost when patients are stratified by Elderly Prognostic Index (EPI)

Need more robust data

Overall Survival according to EPI risk groups and type of therapy



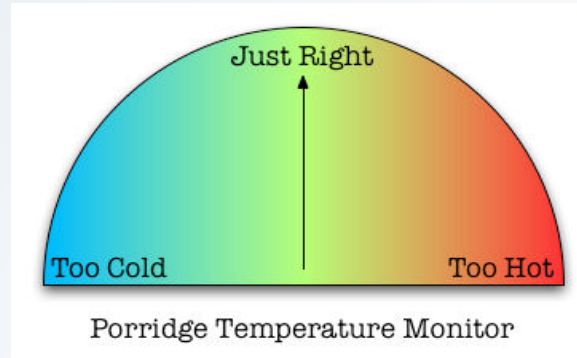
EPI: Elderly Prognostic Index

FD: full dose; RD: reduced dose, PT: palliative treatment

Two low-risk cases with palliative treatment excluded.

The Dilemma of Dosing

Use of reduced intensity treatment regimens can minimize toxicity but might also lead to poorer outcomes due to reduced disease control.



Toxicity is more common in older adults, and those who experience it derive less benefit from treatment.

Prospective identification of pts at greatest risk of toxic events may allow tailored dose reductions in those vulnerable individuals and mark them for closer monitoring during therapy

• Is FIL sGA the best tool?

- Still not widely used due to logistic barriers
- Lack of validation in other populations
- Does not allow patients less than 80 years of age to be classified as frail irrespective of other parameters
- Cross comparison with other GA tools (e.g. CARG tool) challenging due to heterogeneity of instruments
- Fitness is dynamic

Comprehensive GA and Cancer and Aging Research Group Chemotherapy Toxicity Tool (CARG-TT)

may potentially improve prediction of chemotoxicity, while CGA better identifies patients at risk of poorer survival.

Tang et al, Abs#3660, ASH 2024

Vulnerable Elders Survey- 13 (VES-13)

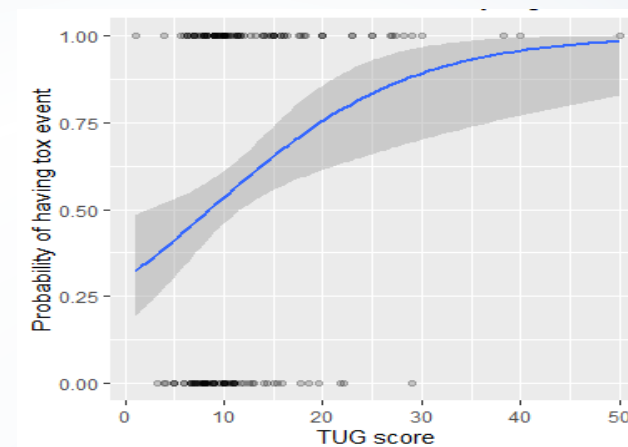
Can identify older adults with high rates of unplanned hospitalization, grade 3+ toxicity, dose reductions, and disease progression/death

Johnson et al, Abs#400, ASH 2024

Outcome	Not Vulnerable (N=57)	Vulnerable Patients (N=48)
Grade 3+ non-hematologic toxicity	23% (13/57)	40% (19/47)
Dose reduction	16% (9/57)	31% (15/48)
Early therapy cessation	7% (4/57)	13% (6/46)
Unplanned hospitalization	30% (17/57)	48% (23/48)
Intensive care unit admission	7% (4/57)	8% (4/48)
Quality of life decline	16% (8/49)	37% (13/35)
PFS, median, mo (95% CI)	Not reached	33.9 (29.6-not reached)
Death within 1 year	0% (0/57)	17% (8/48)

Timed-Up and Go (TUG) Time was Independently Associated with Toxicity

Torka et al, Abs#4474, ASH 2024

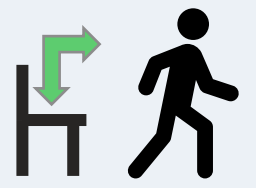


- For each 1-sec increase in TUG score, the odds of an event increased by a factor of 1.1 (10%).
- A 5-second increase would increase odds by a factor of 1.6, and a 10-second increase would increase odds by a factor of 2.6.
- Change in TUG time between cycles was not significant in predicting Stox.
- The actual TUG score itself had the effect at any given cycle.
- Effect was similar to that of the TUG baseline score analysis.

Practical Implications

Predicted Probability of Primary Toxicity Endpoint by Baseline TUG Score

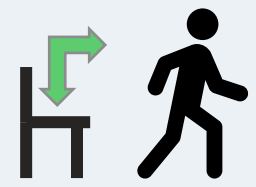
10 sec



Toxicity Risk by TUG Time

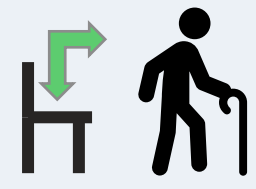
53 %

15 sec

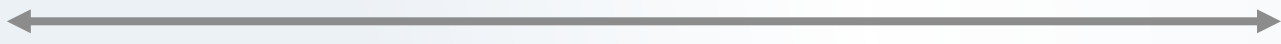


66 %

24 sec



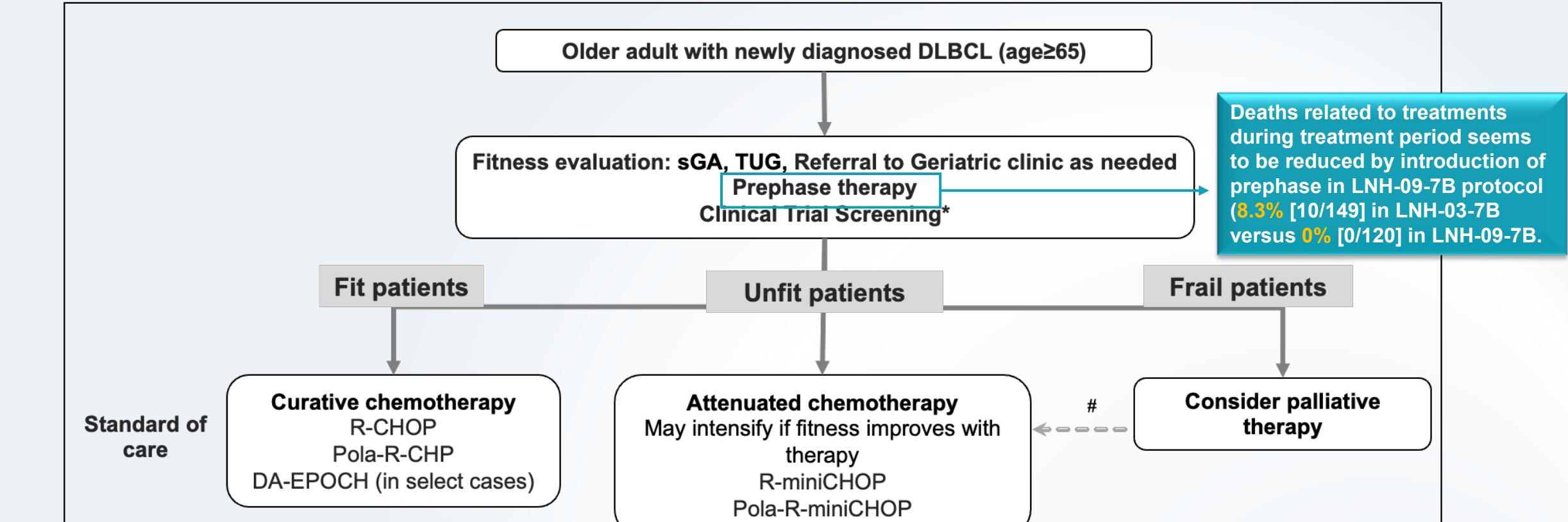
84 %



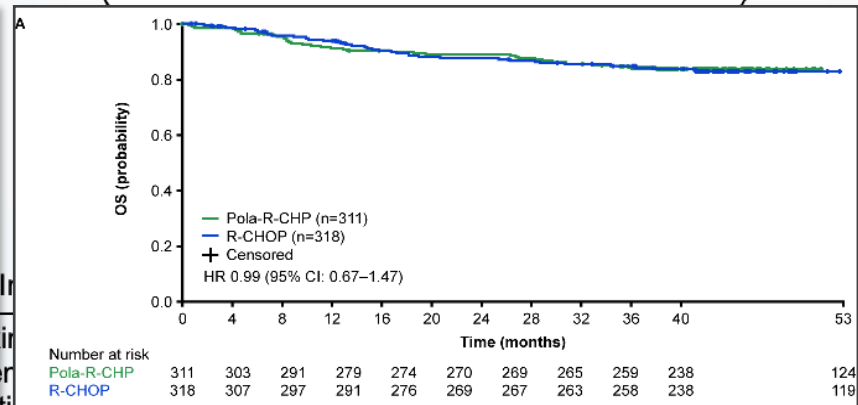
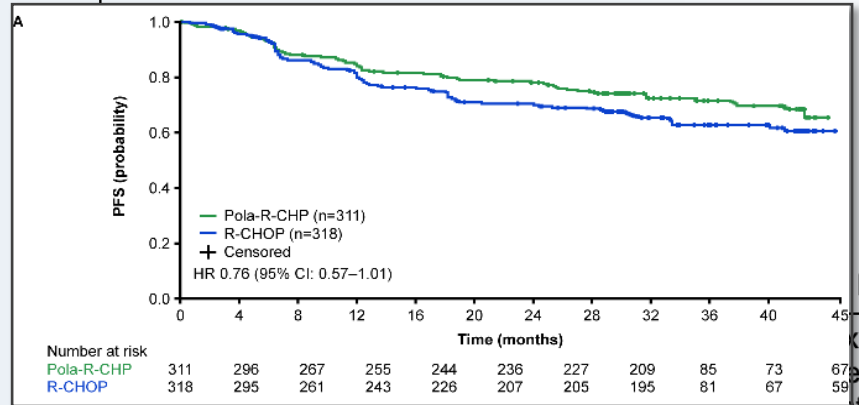
10 feet

TUG score	Predicted risk
2	0.33
3	0.35
4	0.37
5	0.40
6	0.43
7	0.45
8	0.48
9	0.51
10	0.53
11	0.56
12	0.58
13	0.61
14	0.64
15	0.66
16	0.68
17	0.71
18	0.73
19	0.75
20	0.77
21	0.79
22	0.80
23	0.82
24	0.84
25	0.85
26	0.86
27	0.88
28	0.89
29	0.90
30	0.91

Current Approach to 1L Management of Older Adults with DLBCL



Deaths related to treatments during treatment period seems to be reduced by introduction of prephase in LNH-09-7B protocol (8.3% [10/149] in LNH-03-7B versus 0% [0/120] in LNH-09-7B).



Major unmet need
-High risk of toxicity
-Risky introduction of novel agents

participate in clinical trials when available
in patient preferences and goals of care

combination with cyclophosphamide, doxorubicin, vincristine, prednisone; R-miniCHOP, rituximab in combination with dose-attenuated cyclophosphamide, doxorubicin, vincristine, prednisone; sGA, simplified geriatric assessment; TUG, timed up and go test

Unfit and frail older adults with DLBCL: Recent and Upcoming studies 'Chemo-based'

Trial	POLAR-BEAR	S1918	ARCHED/ GLA 2022-1	MSKCC GLORY	ZR2-MiniCHOP
Intervention	R-miniCHOP vs Pola-R-miniCHP	R-miniCHOP +/- oral azacitidine (CC-486)	R-miniCHOP +/- acalabrutinib	Glofit+Pola+R-miniCHP PET adapted	ZR2 induction → miniCHOP x 4-6
Pt population	≥75 yrs and frail ≥80 yrs	≥75 yrs	>60 yrs and unfit for full dose R-CHOP >80 yrs	≥65 yrs Unfit Anthracycline eligible	65-80 yrs ECOG ≥2 >80 yrs
sGA based enrollment	Yes	No	Investigator assessment after sGA	Yes	No
Phase	3	3	3	2	2
Status	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
ORR/CR (%)	NA	NA	NA	NA	95/90
Survival	NA	NA	NA	NA	2y PFS 78% 2y OS 83% No CNS relapse
Toxicity	G3/4 heme tox same in both arms More G1-2 GI Aes with pola	NA	Serious infn and bleeding similar. More cardio SAE in acala arm.	NA	Mainly heme

MSKCC GLORY trial: Optimizing Frontline Therapy for DLBCL in Older Adults: A GLOfitamab-Based, Response-Adapted, Window-StYle Trial (GLORY)

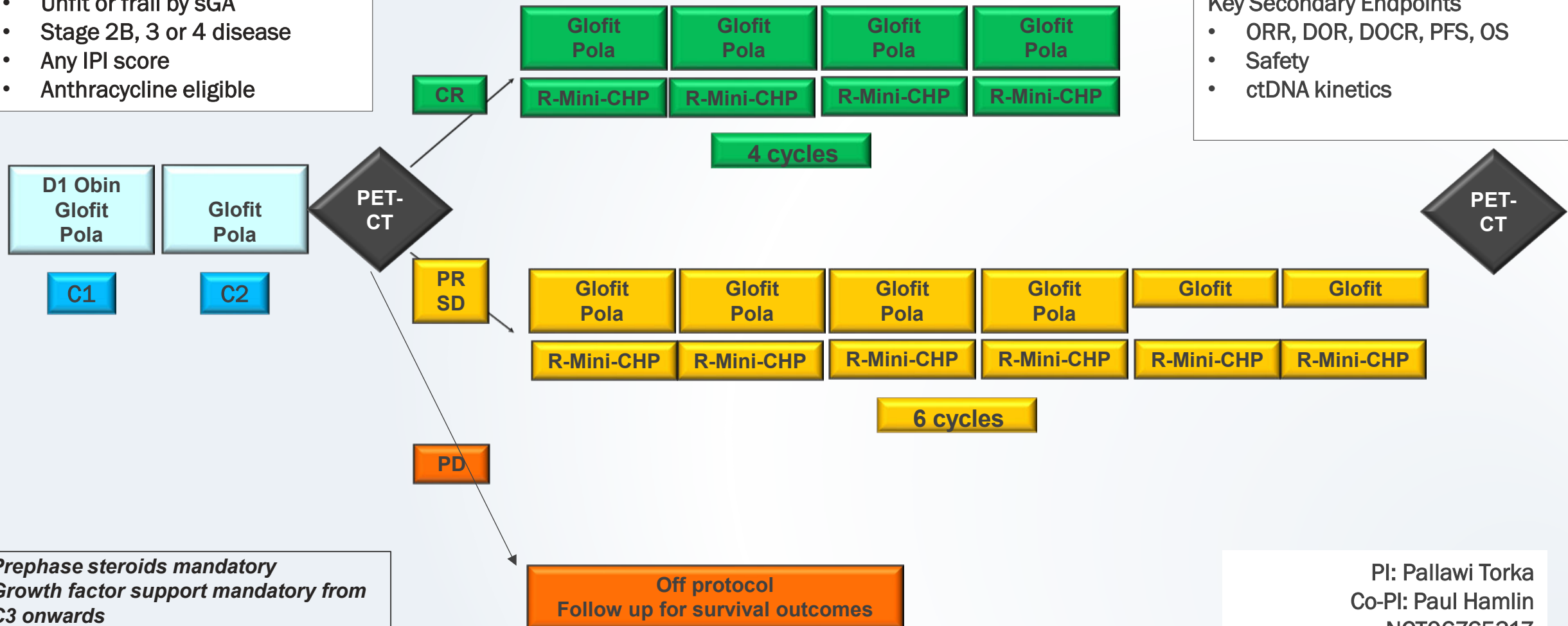
- Patients ≥ 65 years
- Newly diagnosed DLBCL, HGBCL or transformed lymphoma
- Unfit or frail by sGA
- Stage 2B, 3 or 4 disease
- Any IPI score
- Anthracycline eligible

Primary Endpoints

- CRR at end of therapy
- CRR after 2 cycles of glofit-pola

Key Secondary Endpoints

- ORR, DOR, DOCR, PFS, OS
- Safety
- ctDNA kinetics

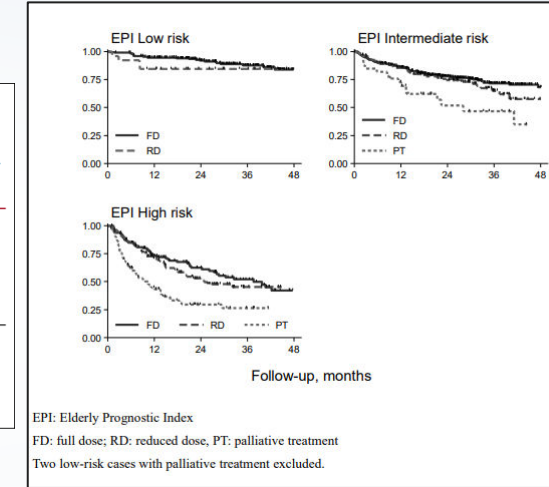
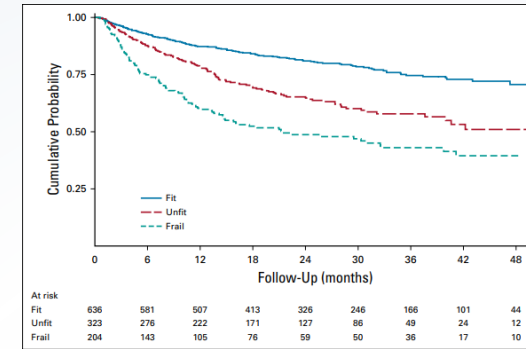


Unfit and frail older adults with DLBCL: ‘Chemo-free’ trials

Trial	Mosun	Mosun+ Pola	LOTIS-9	EPCORE-DLBCL3	sR2	ZR2	Pola-R2	R-Pola-Glo
Intervention	Single agent BiAb- Mosunetuzumab	BiAb + ADC	Loncastuximab + Rituximab	Epcoritamab monotherapy x 1 year	Sintilimab, rituximab, lenalidomide x8 cycles→ Len maintenance x 2y	Zanubrutinib, rituximab, lenalidomide x 8 cycles→ Len maintenance	Polatuzumab, rituximab, lenalidomide x 8 cycles	BiAb+ADC+ R
Pt population	>60 yrs with ECOG PS ≥ 2 or ≥80 yrs Ineligible for full dose CIT	65-79 yrs and unfit or ≥80 yrs Ineligible for full dose CIT	≥80 yrs Unfit or frail	≥75 yrs and comorbidities Or ≥80 yrs	>60 yrs with ECOG PS ≥ 2 or >70 yrs	≥75 yrs unfit or frail by sGA	≥70 years old unfit or frail by sGA	>60 yrs Ineligible for full dose CIT
GA based enrollment	Yes	Yes	Yes	No	No	Yes	Yes	No
Phase	1/2	2	2	2	2	2	2	2
Status	Follow up	Follow up	Stopped	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
Prelim data	54 pts 83 y (65-100)	108 pts 81 y (66-94)	40 pts	44 pts 81 y (77-95)	18 pts 75 y	24 pts 81.5 y	21 pts 79.5 y (73-90)	
ORR/CR (%)	67.7/41.9	64.4/56.4	94.1/58.8	74/64	85.7/78.6	100/87.5	93/93	NA
Survival	NA	PFS: 11.9 months	NA	NA	1y PFS 80.8% 1y OS 92.9%	NA	NA	NA
Toxicity	CRS 22.5% No G3+ CRS	CRS 20% G3 2% 16% deaths, mainly due to COVID pneumonia	Deaths due to fatal respiratory events	CRS 68% G3 5% ICANS 9% G3 2% 4 fatal TEAEs	Mainly heme	Mainly heme Pneumonia 11.5%	Data immature	12

Unfit/frail Older Adult Clinical Trials: Some Observations

- Encouraging to see high response rates
- No formal criteria for fitness in some studies
- Investigator discretion to decide that patient is ineligible for full dose R-CHOP introduces bias
- Unfit and frail categories considered together
- Is it fair to deprive 'unfit' pts of proven 'curative' therapy?
- sGA is an 'imperfect' tool



Fit



Can be included in standard
age-agnostic trials

Unfit

(anthracycline eligible)



Goal is to **preserve/increase cure rates with less toxicity**

Dose-attenuated chemo-based backbone

Frail

(anthracycline ineligible)

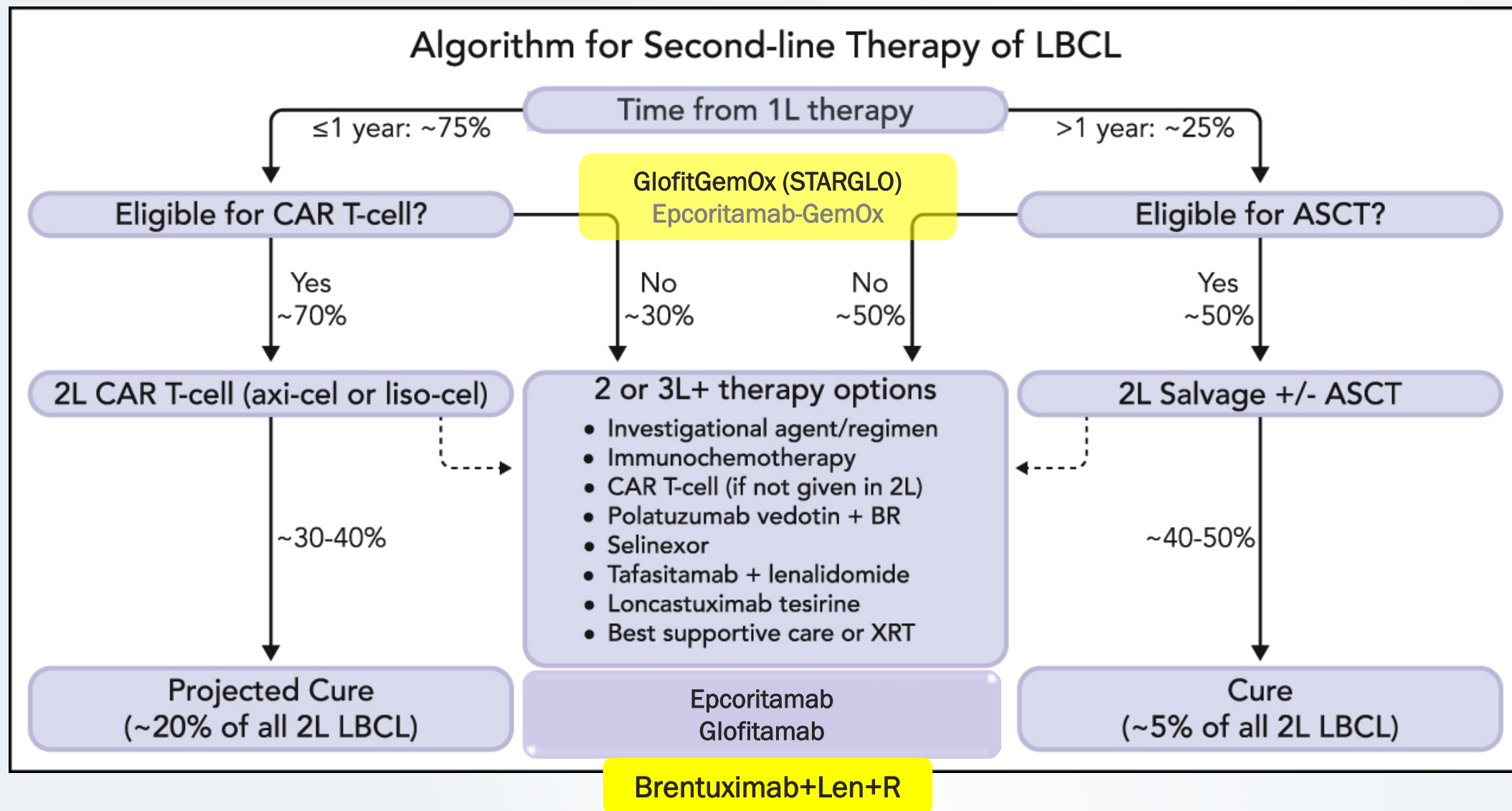


Major unmet need

Chemo-free combinations

Biology based; response adapted therapies

Treatment options for Relapsed/Refractory DLBCL



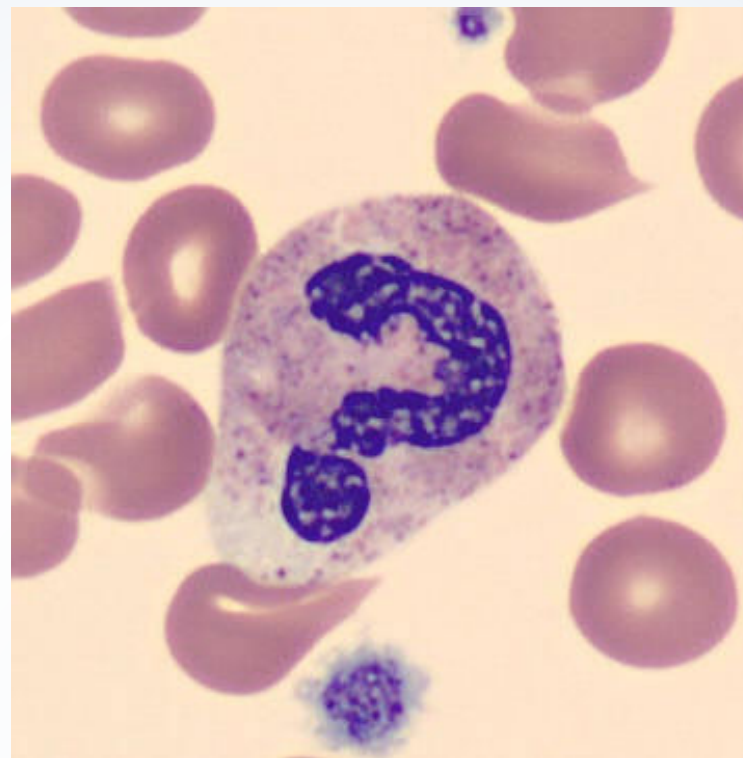
Options for Tx-ineligible, CAR-T ineligible or post CAR-T progression

	Pola-BR vs BR	Tafasitamab-Lenalidomide	LoncaT	Epcoritamab	Glofitamab	Glofit-Gem-Ox vs R-Gem-Ox	Brentuximab-Len-R vs Len-R
Population	2L+	2-4L	3L+	3L+	3L+	2L+	3L+
N	40 vs 40	81	145	157	155	183 vs 91	112 vs 118
Age≥65	65% vs 58%	56% (>70y)	45%	49%	55%	63% vs 62%	71% vs 64%
Oldest patient	84 vs 86	76	-	83	90	NA	87 vs 89
ORR (CR)%	45 (40) vs 17.5 (17.5)	57.5 (40)	48.3 (24.1)	63 (40)	52 (39)	68.3 (58.5) vs 40.7 (25.3)	64 (40) vs 42 (19)
mPFS (m)	9.5 vs 3.7	11.6	4.9	4.4	4.9	13.8 vs 3.6	4.2 vs 2.6
mOS (m)	12.4 vs 4.7	33.5	9.9	18.5	12 mo 50%	25.5 vs 12.9	13.8 vs 8.5
Grade 3/4 AEs (>10%)	Cytopenias Infections	Cytopenias Febrile Neutropenia	Cytopenias	CRS 50% G3 3% ICANS 6%	CRS 64% G3 4%	CRS 44%	Cytopenias Diarrhea

Useful in rare circumstances: BTK inhibitors, Lenalidomide, Rituximab alone, Selinexor

Conclusions

- Unfit/frail older adults with DLBCL should be considered for curative anthracycline-based chemotherapy regardless of age.
- sGA, VES-13 and TUG time can assist with identifying vulnerable patients at highest risk of toxicities for pre-emptive interventions. TUG time is a dynamic tool that can be implemented prior to each cycle for risk assessment.
- Encouraging response rates seen in 1L with chemo-free combinations, data on durability eagerly awaited.
- CAR-T cell therapy remains the best option for older adults with R/R DLBCL.
- Outcomes remain suboptimal in 2L+ setting in CAR-T ineligible pts with current therapies, several ongoing trials are evaluating novel combinations (e.g. MSKCC ECLAT study with epco-tafa-len).



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