

ASH 2022 Highlights Lymphoma



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**University of Nebraska
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Outline

- Mantle Cell Lymphoma
 - Triangle: ibr + chemo +/- ASCT
 - glofitamab
- Follicular Lymphoma
 - Watch and wait trial update
 - mosunetuzumab
- Cellular/Immune Therapy
 - Bispecific antibody therapy
 - Updated liso-cel 2L analysis



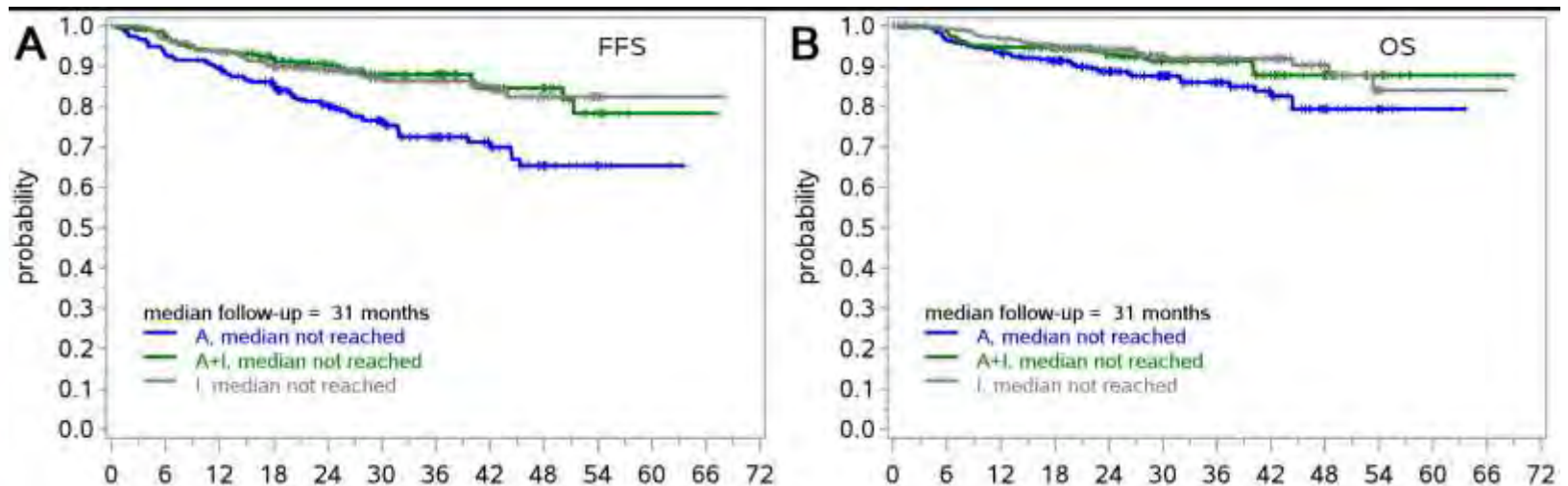
Disclosures

- Advisory: BMS, Abbvie, Ono Pharma, Seagen
- Research: BMS, Beigene, Fate Therapeutics



Mantle Cell Lymphoma

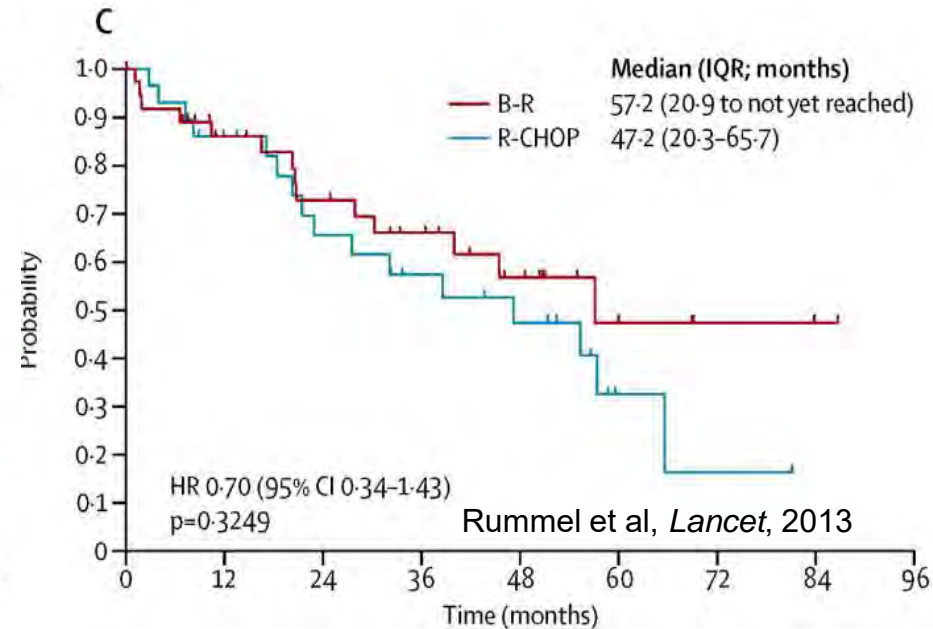
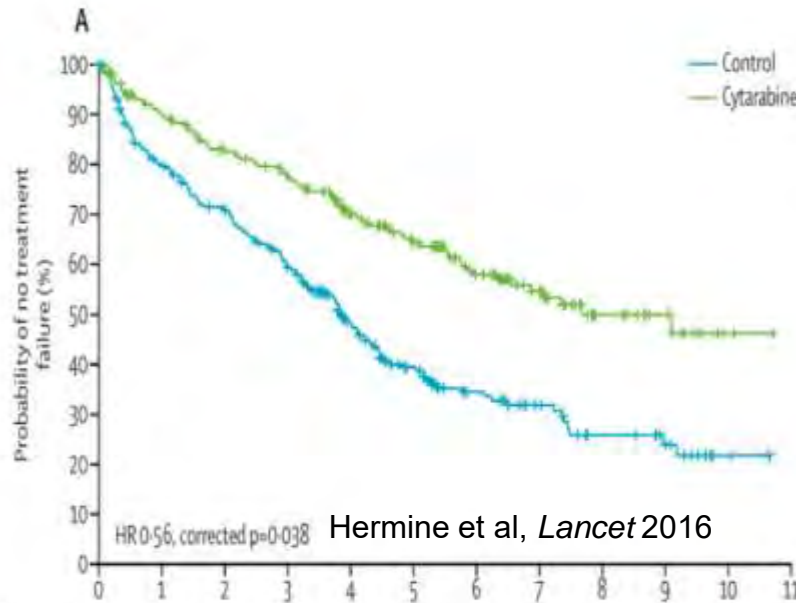
- Triangle study: chemo + ASCT +/- ibrutinib



ASCT in Mantle Cell Lymphoma

R-CHOP/DHAP vs R-CHOP -> ASCT

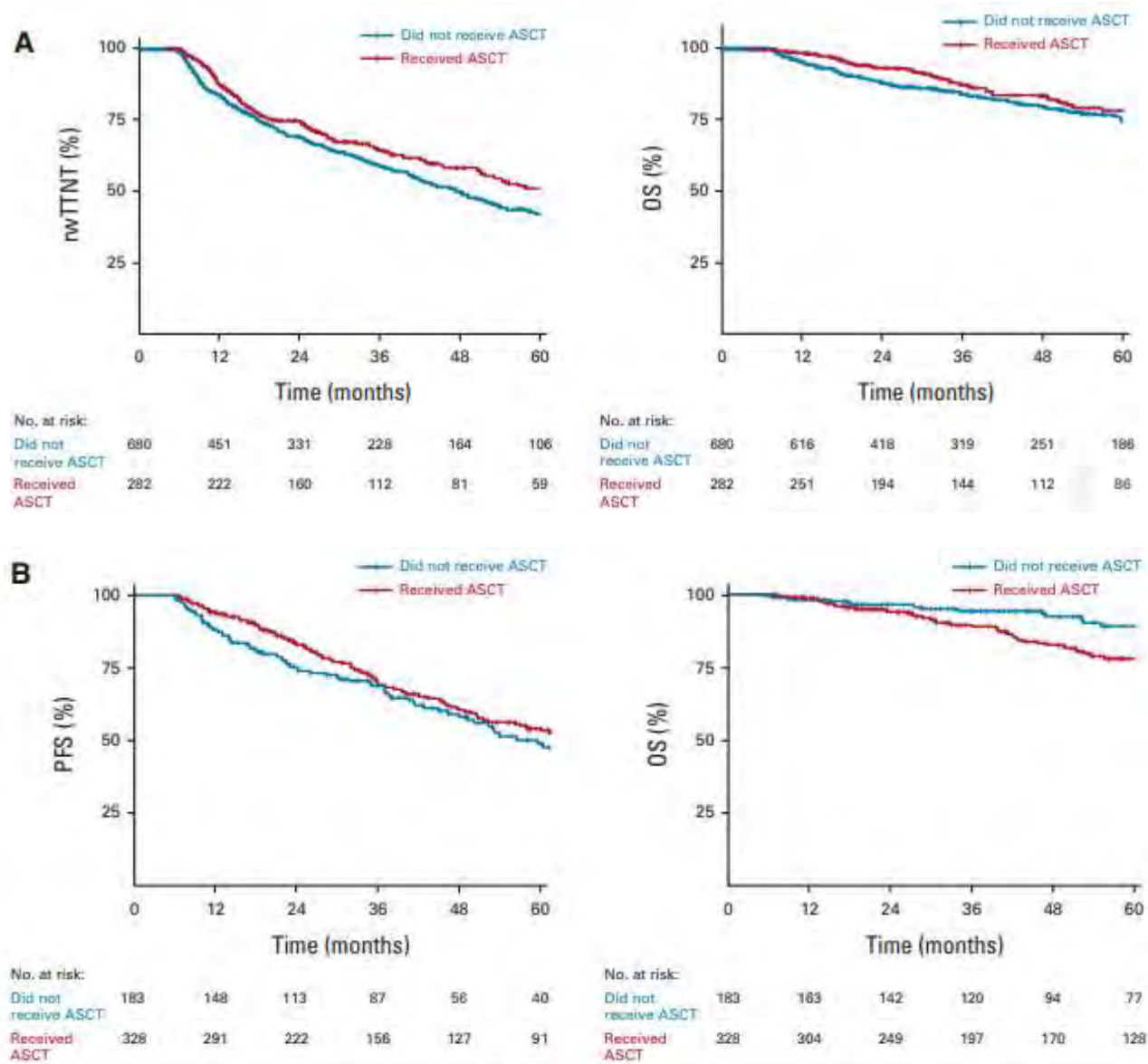
BR vs R-CHOP no ASCT



- Historically, clinical trials have separated into ASCT-eligible and ineligible
- Overall best outcomes observed in transplant-containing groups
 - Reserved for the most fit patients



Recent ? For ASCT in MCL

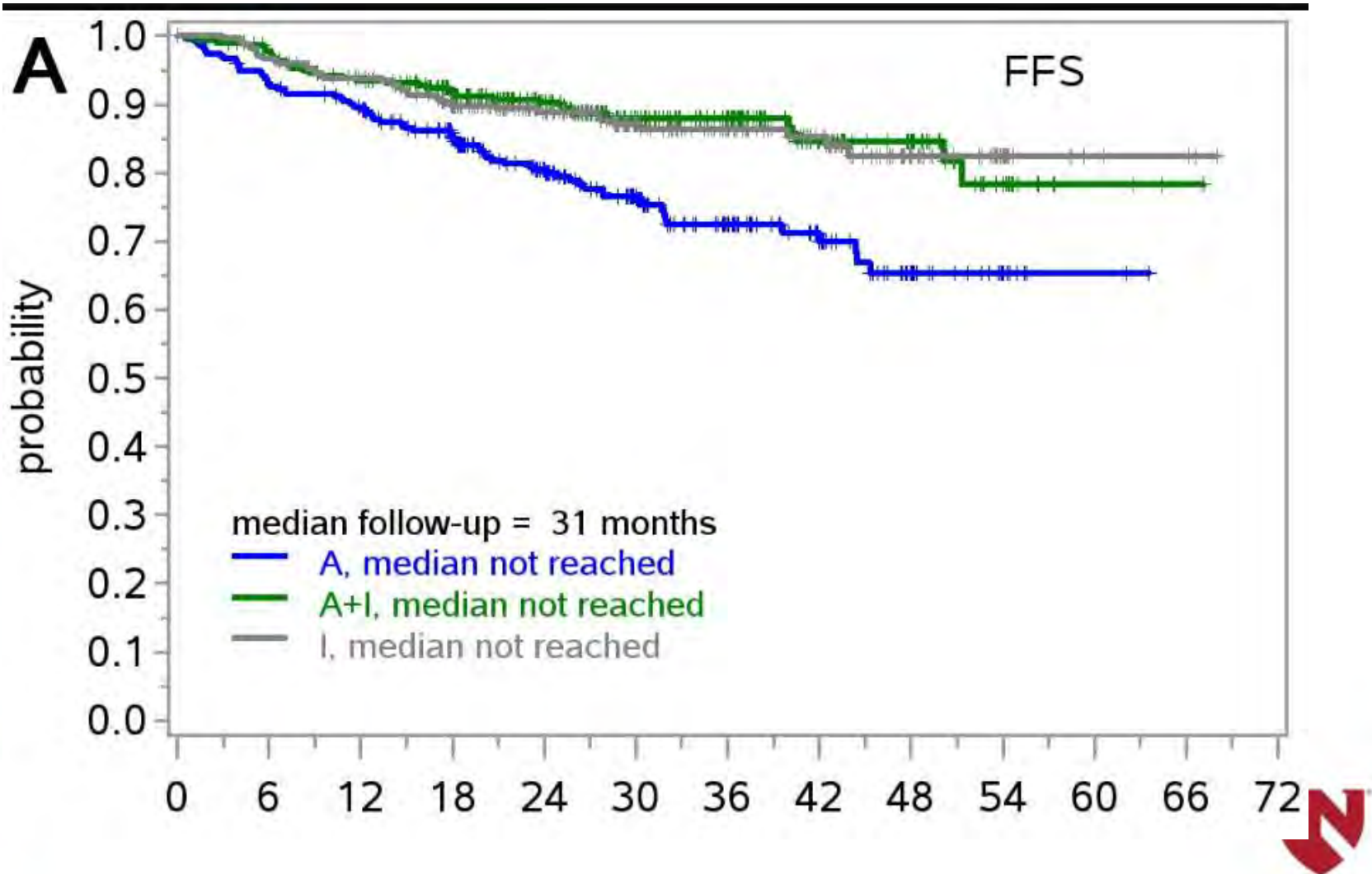


Triangle Study

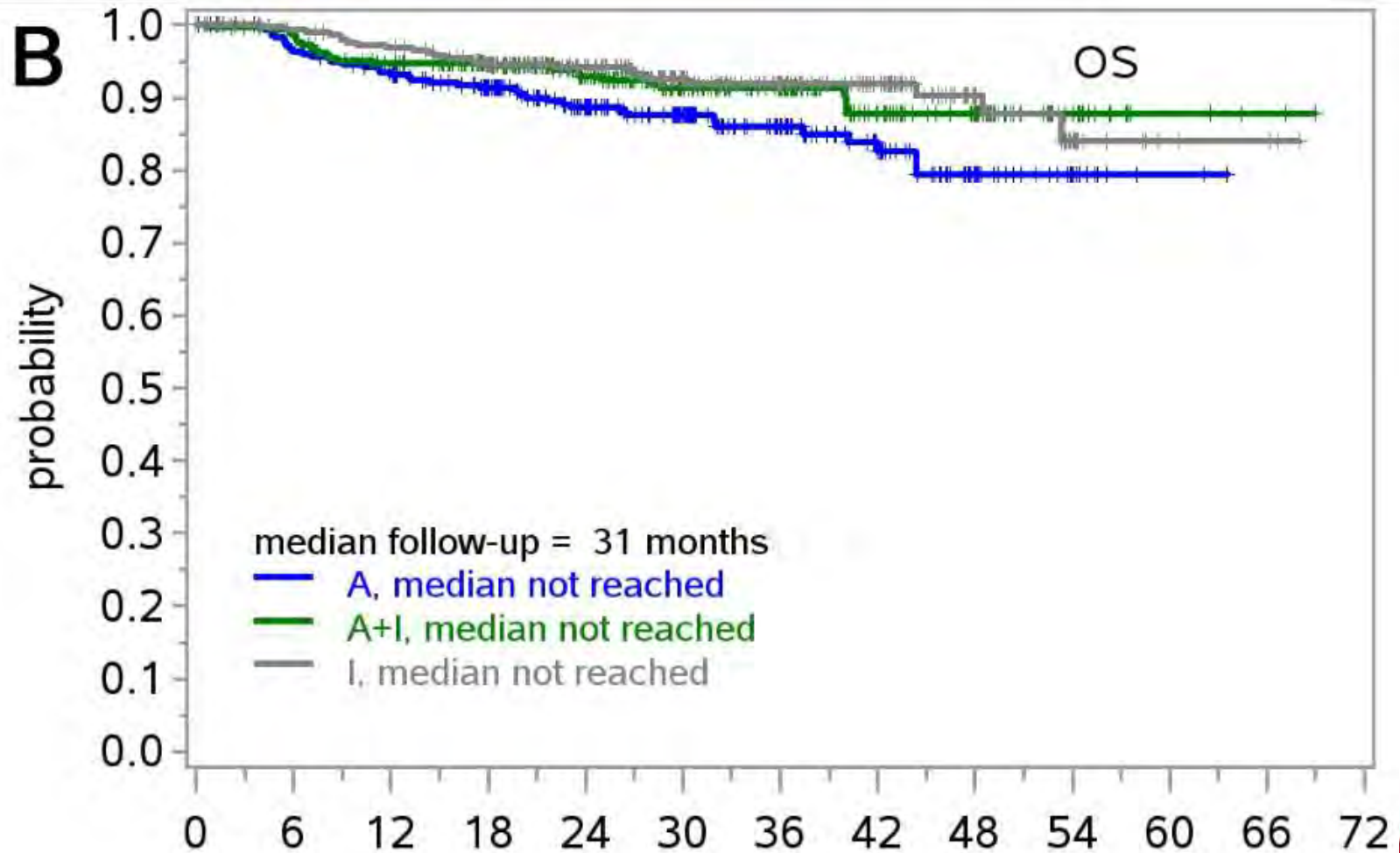
- RCT 1:1:1 3 arms transplant eligible <65
 - R-CHOP-I/DHAP -> Ibrutinib 2yr
 - R-CHOP-I/R-DHAP -> ASCT-> Ibrutinib 2y
 - R-CHOP/R-DHAP -> ASCT
- Powered for Failure-free survival
 - Progression, death, SD post induction events
- Maintenance rituximab per guidelines
- N= 282 in each group



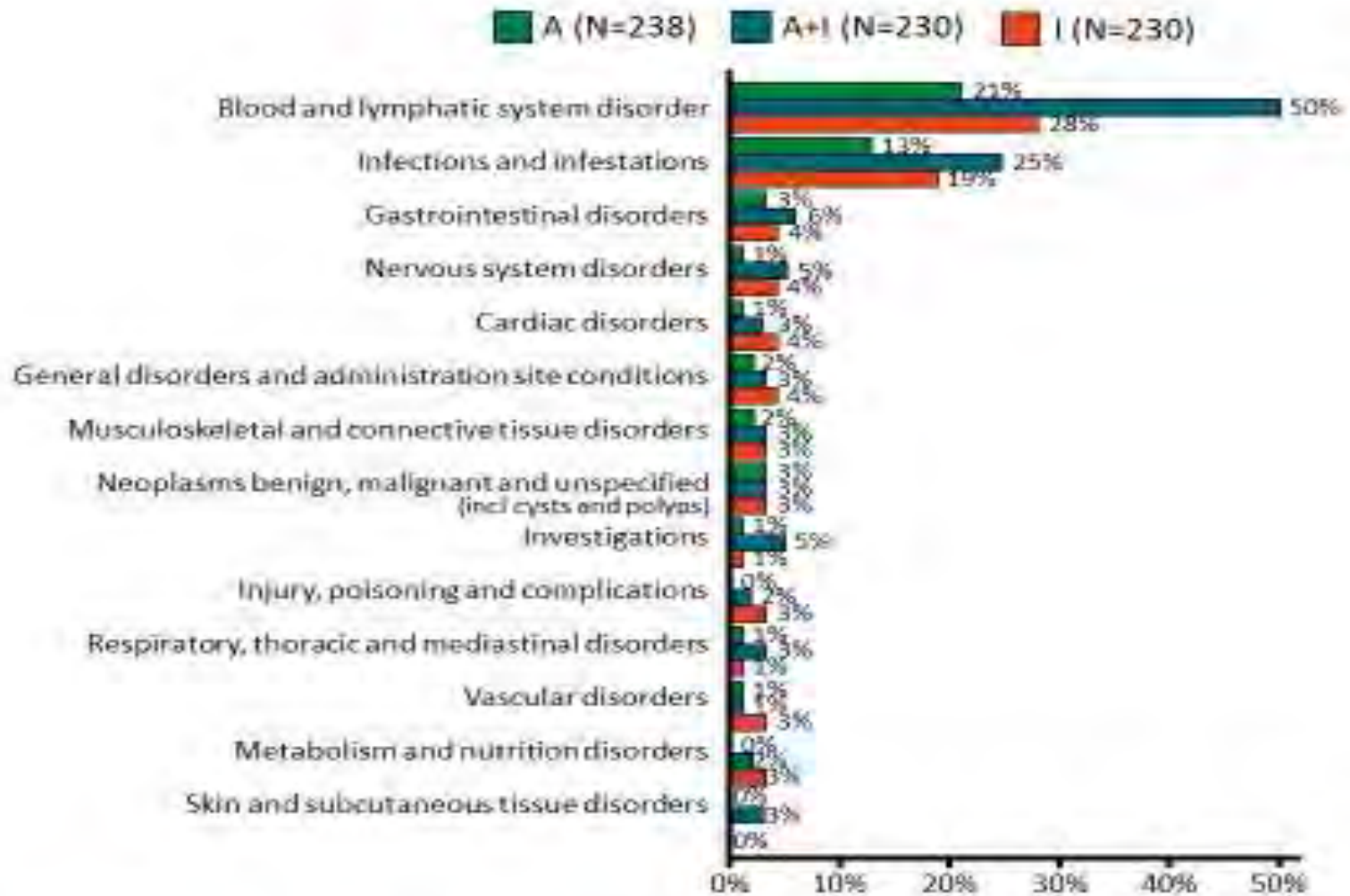
Triangle 1L MCL



Triangle 1L MCL



Triangle Safety

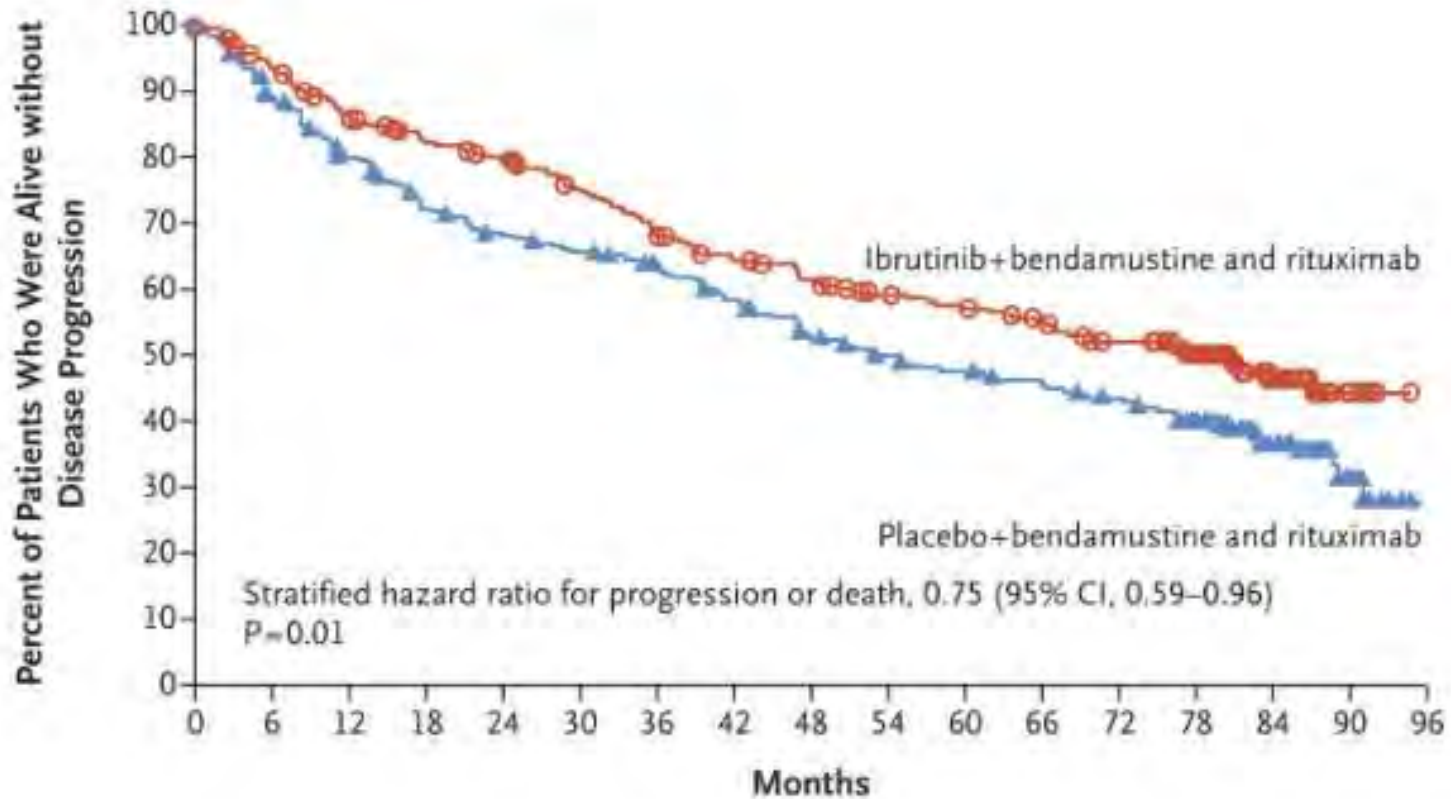


Dreyling, ASH 2022. Abstr 1. Reproduced with permission.

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Comparisons: SHINE



- Transplant ineligible
- BR +/- Ibrutinib (given continuously)
- Median f/u ~80 months
- No OS benefit



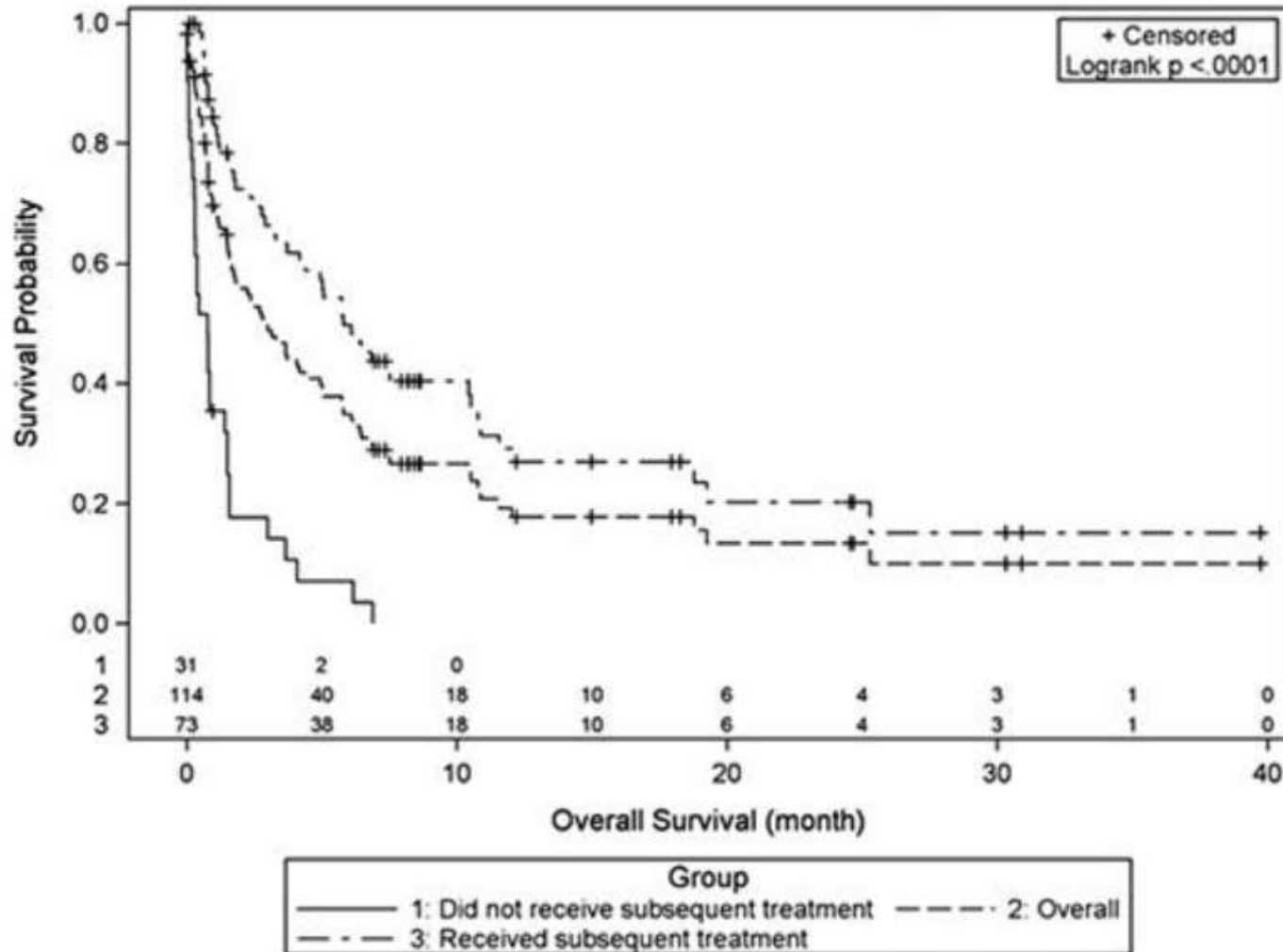
Triangle conclusions/Future

- Data support Ibrutinib-RCHOP/DHAP for 1L in young
 - Over R-CHOP/DHAP + ASCT
 - Kudos for a study in 1L TE patients with a non-ASCT arm
- Accumulating evidence ? Role of ASCT
 - At least not for everyone eligible, esp if BTK-eligible
 - Need to determine who benefits (MRD?)
- 1L acala/len/R excellent PFS, 100% ORR
 - Ruan et al *Blood* (2022) 140 (Supplement 1): 175–177.
- E4151 assessing MR vs ASCT in MRD- MCL
- For now:
 - Considering ibrutinib for 1L
 - Discussing this data with TE patients



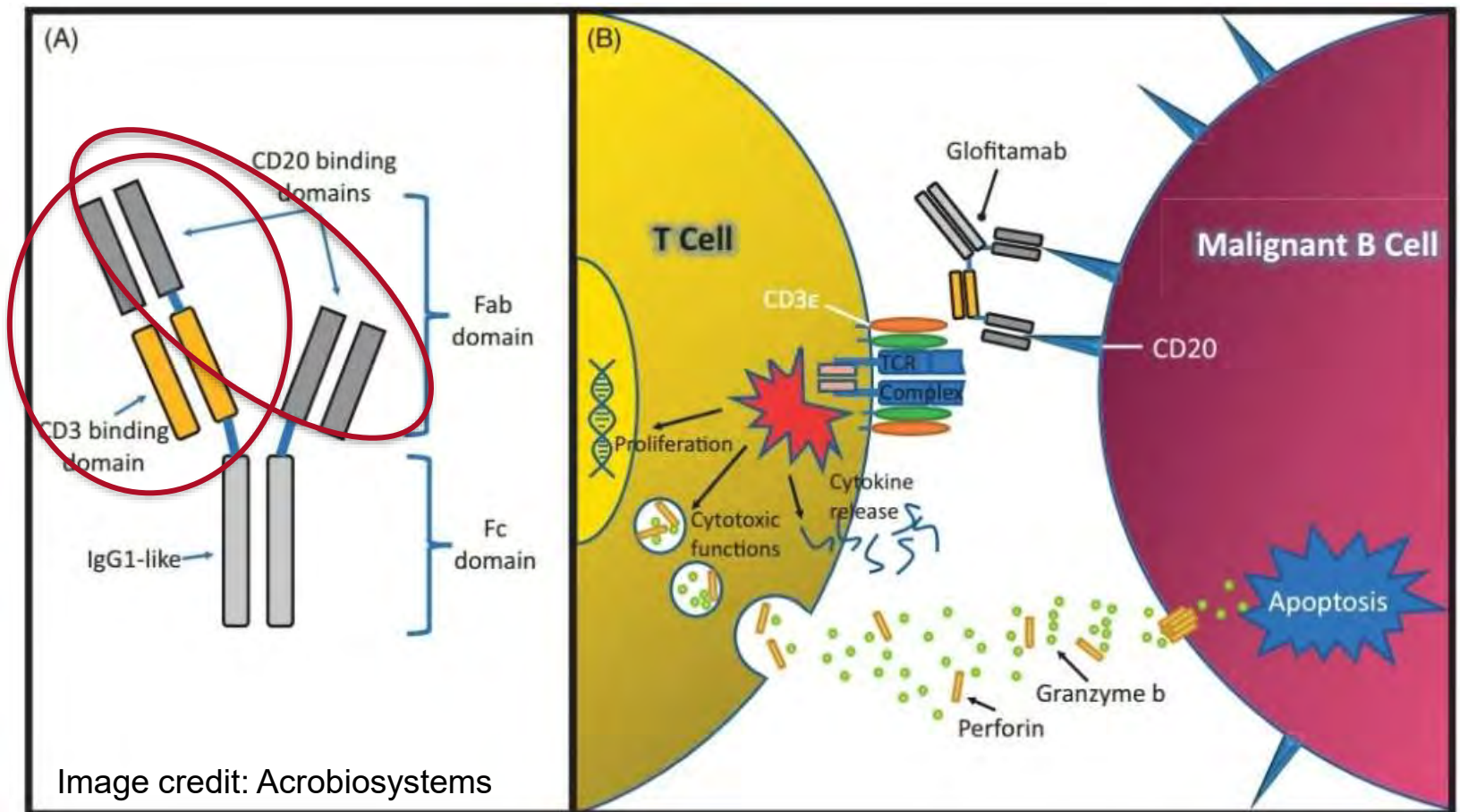
Relapsed Mantle Cell Lymphoma

- Poor survival post BTKi failure



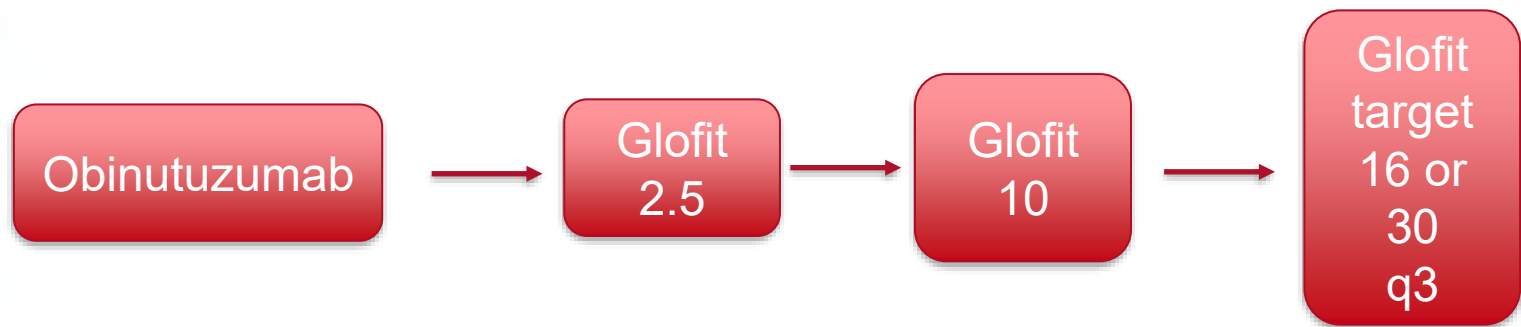
Mantle Cell Lymphoma

- Glofitamab: CD20 xCD3 bispecific, IV
- Obinutuzumab pre-treatment
 - Depletes target CRS source from blood/tissue
 - May reduce dependence on step-up dosing

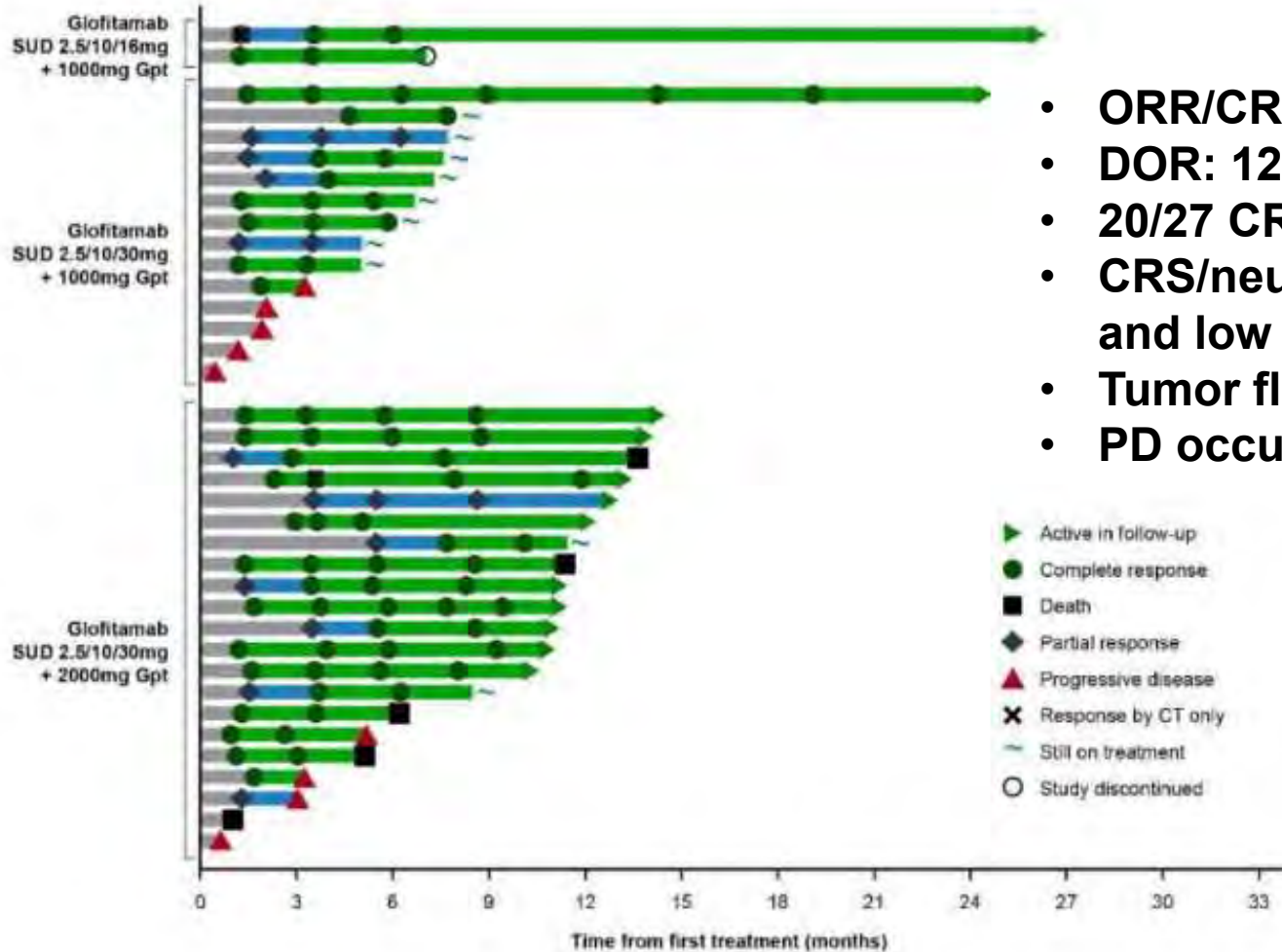


Mantle Cell Lymphoma r/r

- Glofitamab: CD20 xCD3 bispecific, IV
- Obinutuzumab pre-treatment, step-up
- 37 pts, med f/u 8 mo
 - 64% prior BTKi
 - Med prior lines 3
- Fixed duration: q3w Received up to 12 cycles
 - 9 months of therapy



Mantle Cell Lymphoma

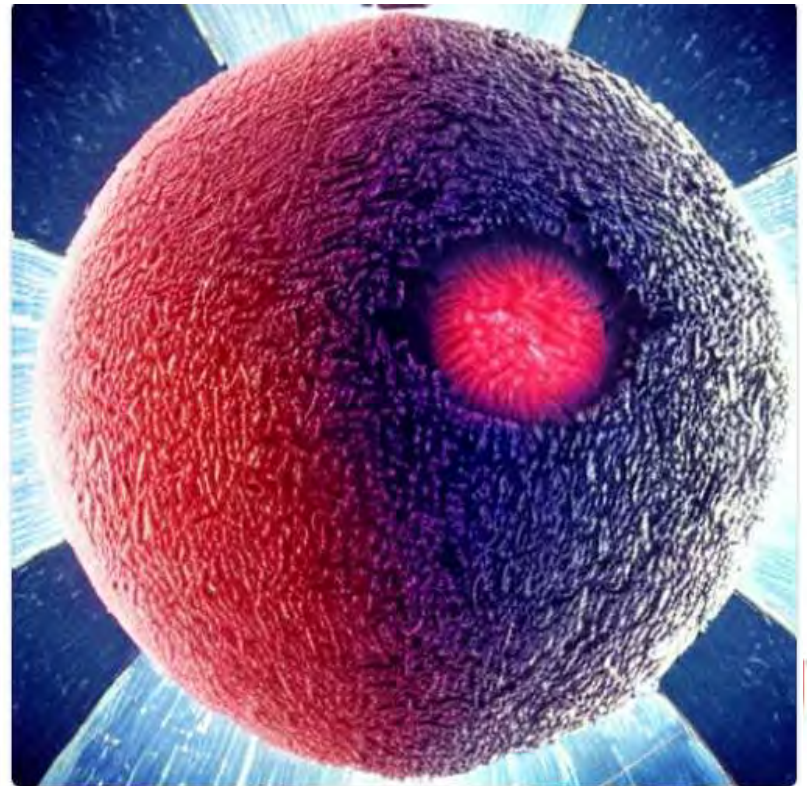
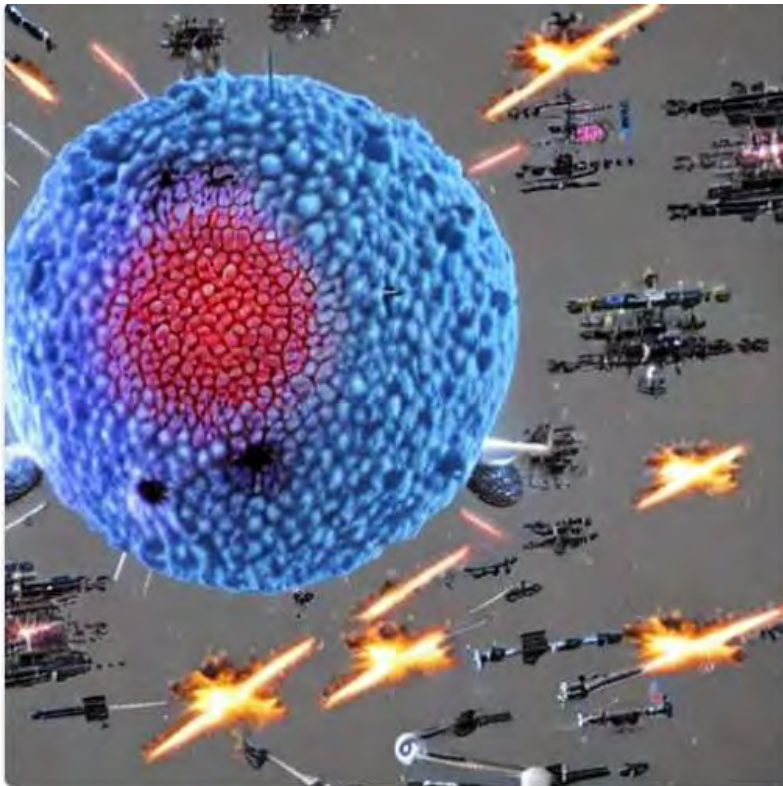


- **ORR/CR: 83/73%**
- **DOR: 12.6mo,**
- **20/27 CR's ongoing**
- **CRS/neuro common and low grade**
- **Tumor flare in 13%**
- **PD occurs <6, often <3**



Follicular Lymphoma

- Mosunetuzumab
- Watch and wait trial

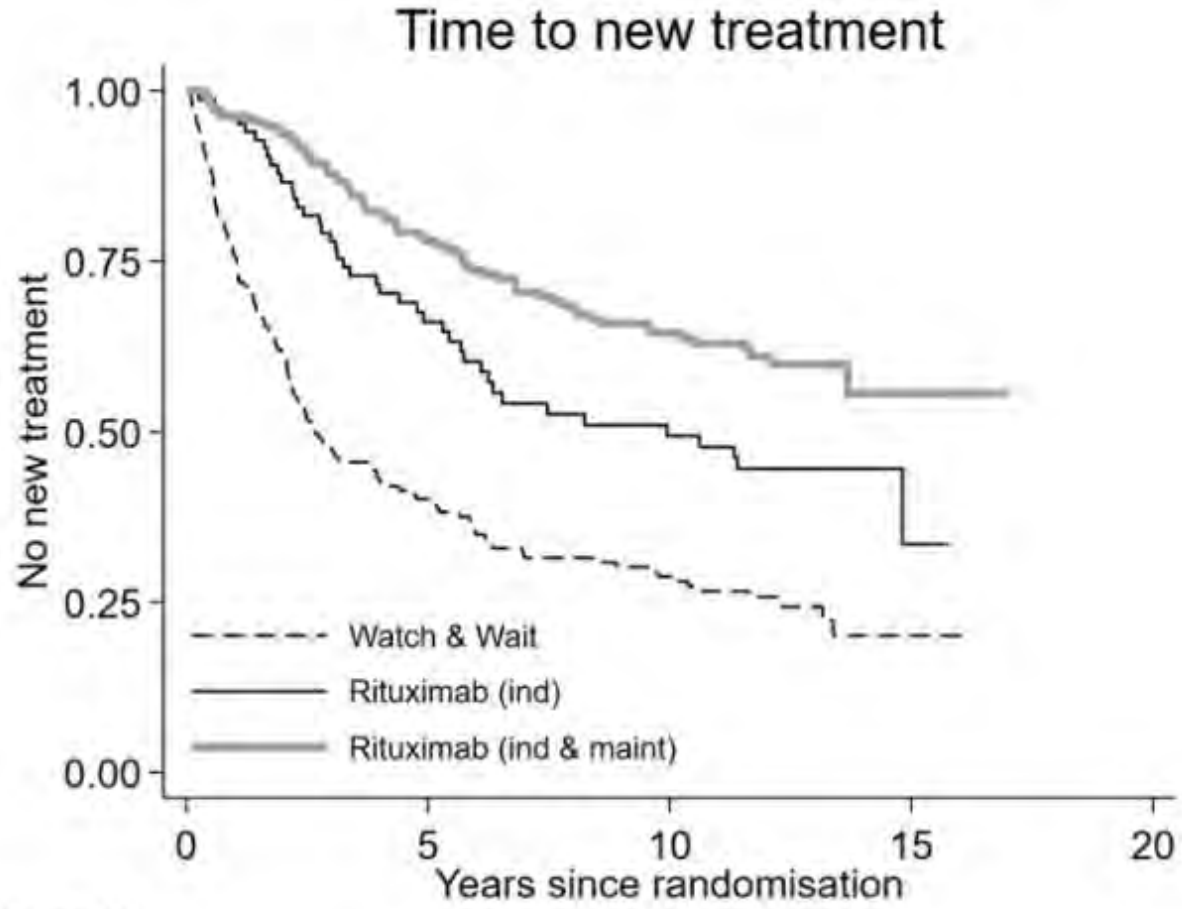


Watch and Wait Update

- Watch/wait: Ph3 1:1:1 obs vs ritux x4 dose, vs R + R maintenance 2y
- Low tumor burden FL
- 463 pts, median followup 12.3 years
- Primary endpoint: time to next treatment



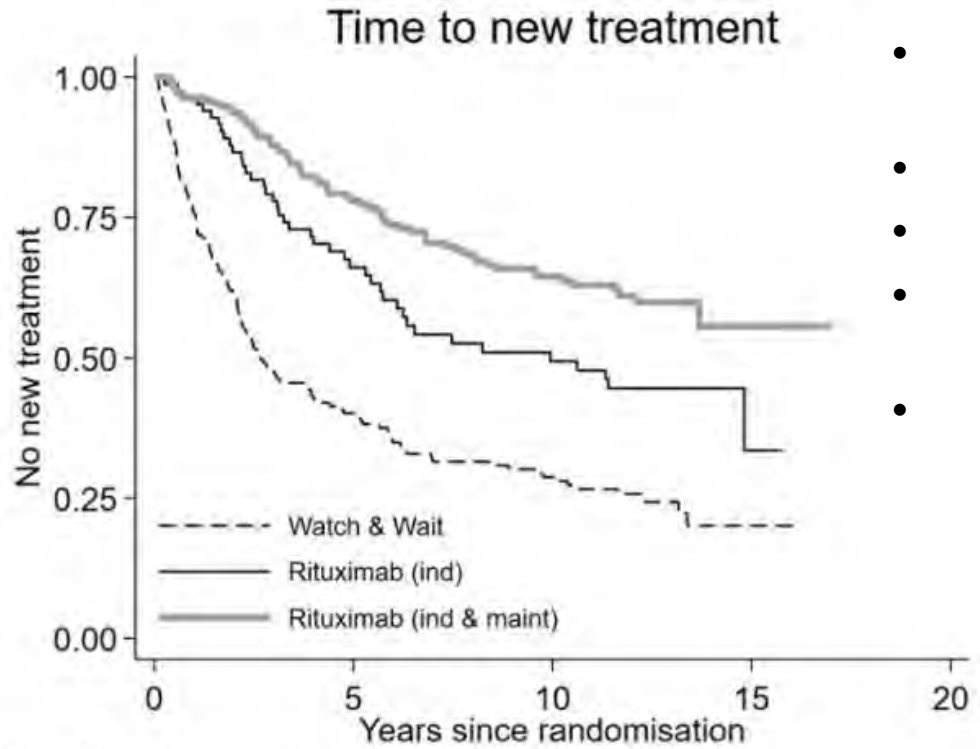
Watch and Wait Update



Number at risk					
	0	5	10	15	20
Watch & Wait	187	63	41	1	0
Rituximab (ind)	84	47	31	2	0
Rituximab (ind & maint)	192	126	88	4	0



Watch and Wait Update



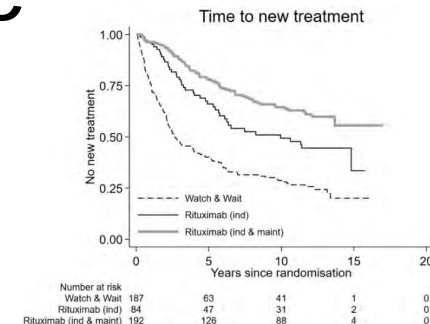
- W/W: most events by 5 years
- W/W: TTNT: 2.7 yrs
- Rituximab: 9.9 yrs
- Rituximab + maintenance: not reached
- W/W:
 - Spontaneous regression 19% - most recur
 - ~25% on W/W still off treatment 10yrs out

	0	5	10	15	20
Number at risk					
Watch & Wait	187	63	41	1	0
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Rituximab (ind & maint)	192	126	88	4	0



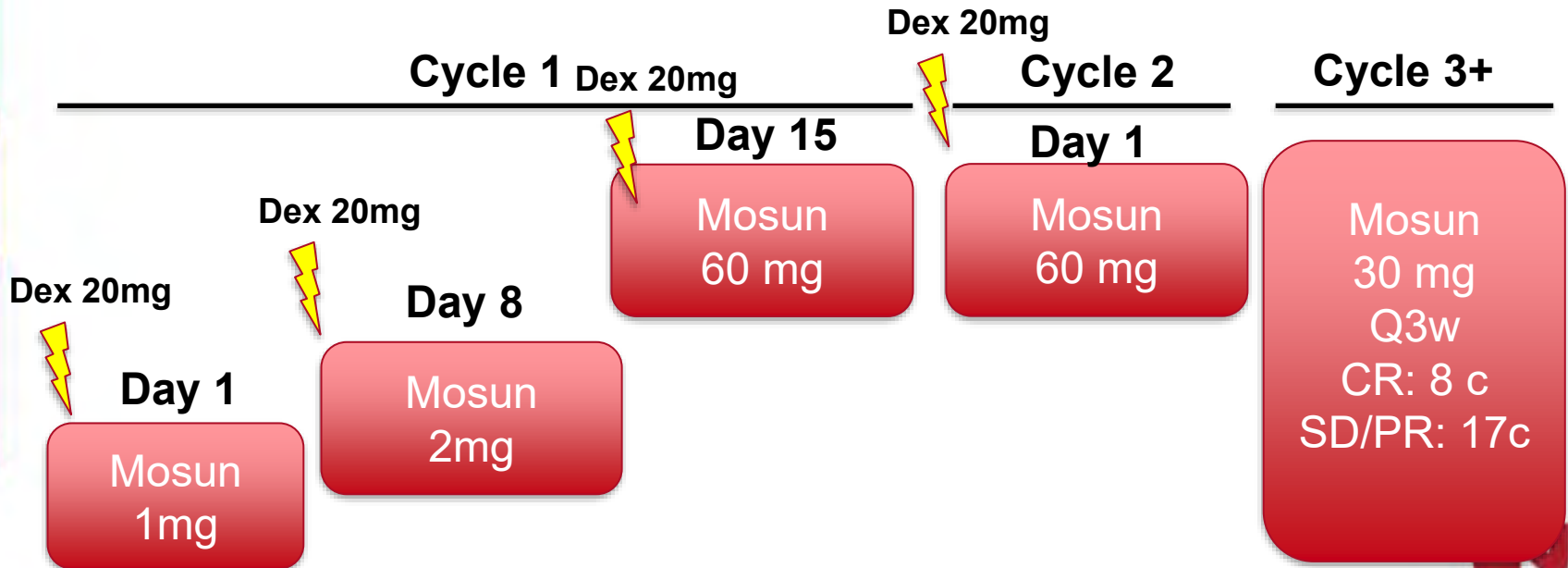
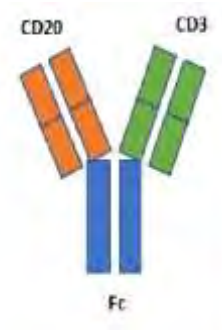
Watch and Wait: interpretation

- Depends on how we interpret risk
- Allows greater choice for patients
 - W/W: 25% treatment free at 10 years!
 - Rituximab: median TTNT **10 years**
- Considerations for
 - Frail
 - Young with low tumor burden
 - On fence with chemoimmunotherapy
- I'm discussing this with pts more



Follicular Lymphoma

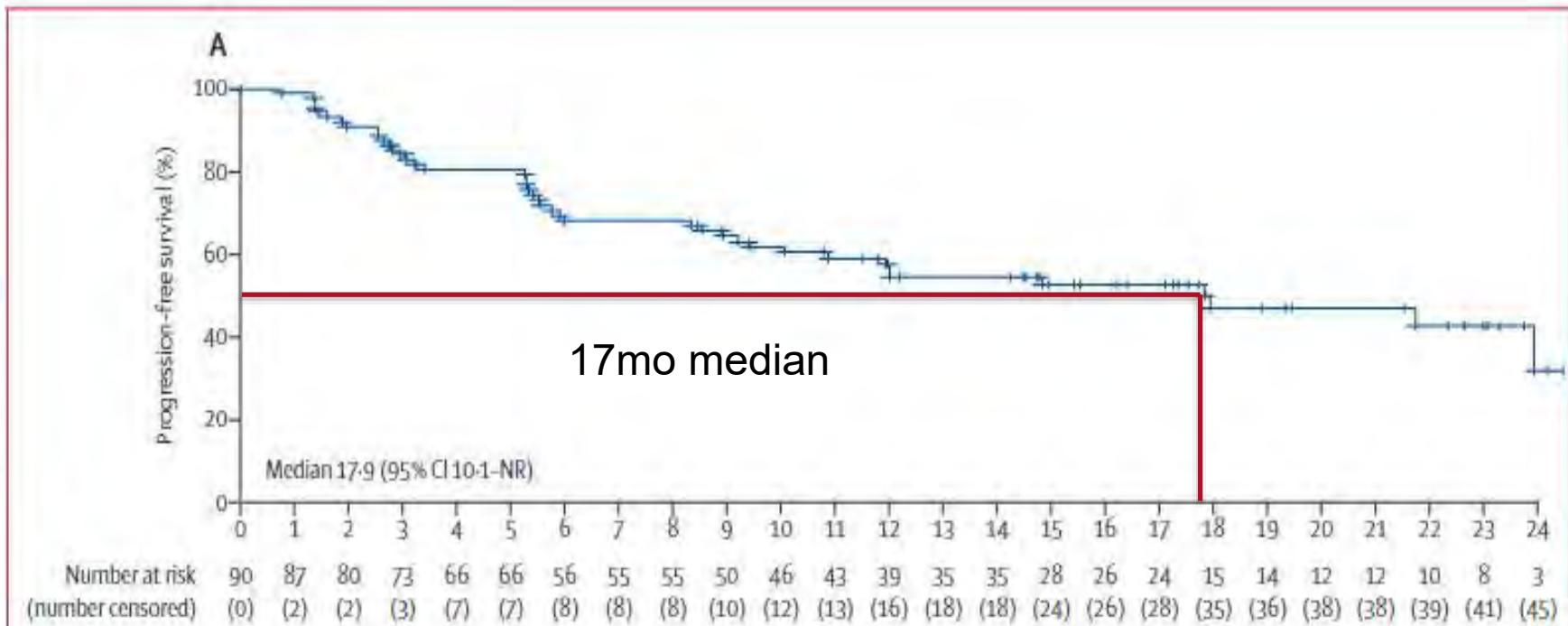
- Mosunetuzumab: CD3-CD20 bispecific Ab
- Ph2 n=90, fixed duration q3w
- FL G1-3a, rr to $\geq 2L$
- 50% POD24



Mosun: efficacy

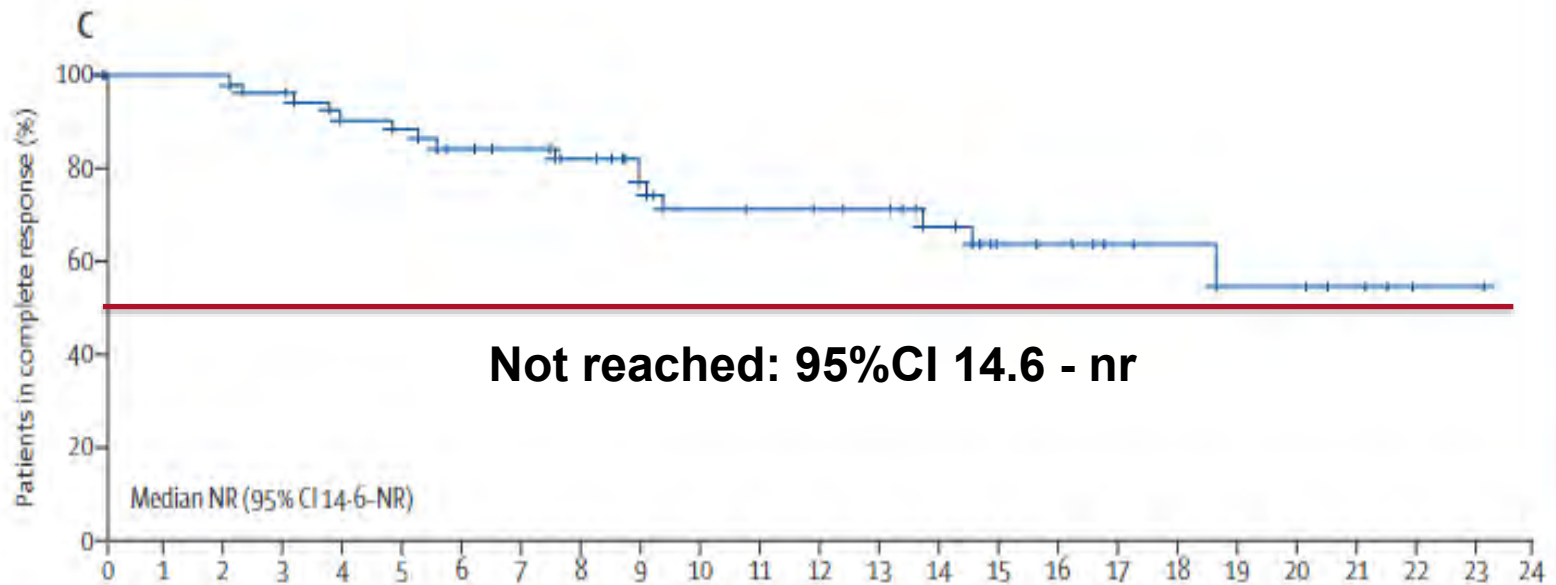
- ORR: 80% CR: 60%
- Med f/u: 18mo
- First response: 1.4 mo

Progression-Free Survival



Mosun: efficacy

**Duration of Complete response: 60% population
* 24weeks (8cycles) of treatment**



Duration of complete response

Patients with event	16/54 (30%)
Median, months (95% CI)	NR (14.6-NR)
12-month event-free rate	71.4% (57.9-84.9)
18-month event-free rate	63.7% (48.0-79.4)

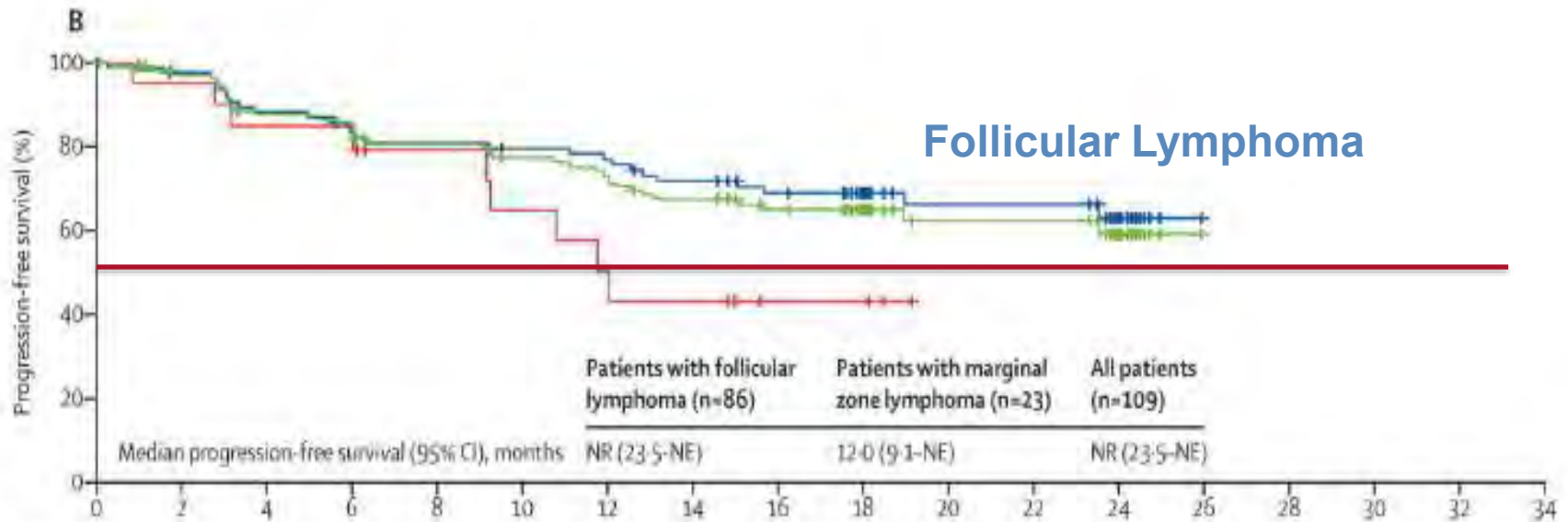


Mosun: toxicity

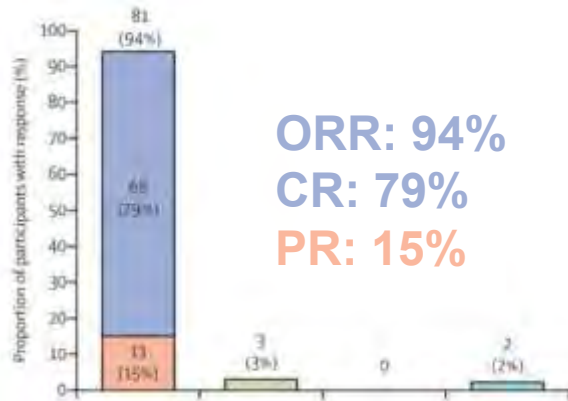
- CRS: ~42% G1/2, 2% G3/4
 - 8% required tocilizumab
 - 15% steroids
 - 10% both
 - ~1/2 admitted with G1/2 CRS
- Neurotoxicity: 5/90, all G1 all resolved
- Tumor flare in 3/90 patients



Comparison: CAR-T for FL



at risk



Axi-cel: zuma-5: similar trial population to mosun
Axi-cel: med PFS not reached
Mosun: med PFS 17.9mo
More toxicity with axi-cel



Conclusions

- Mosunetuzumab exciting option for FL
- FDA approved 12/2022
- Excellent durability in response
 - Re-treatment?
- Advantages over CAR-T
 - Access
 - Minimal toxicity
- Disadvantages
 - May be less efficacious/durable
 - Multiple-dosing



DLBCL

- CD19 directed therapies
- Cellular Therapies
- Bispecific antibody Trials



DLBCL: Tafasitamab + lenalidomide

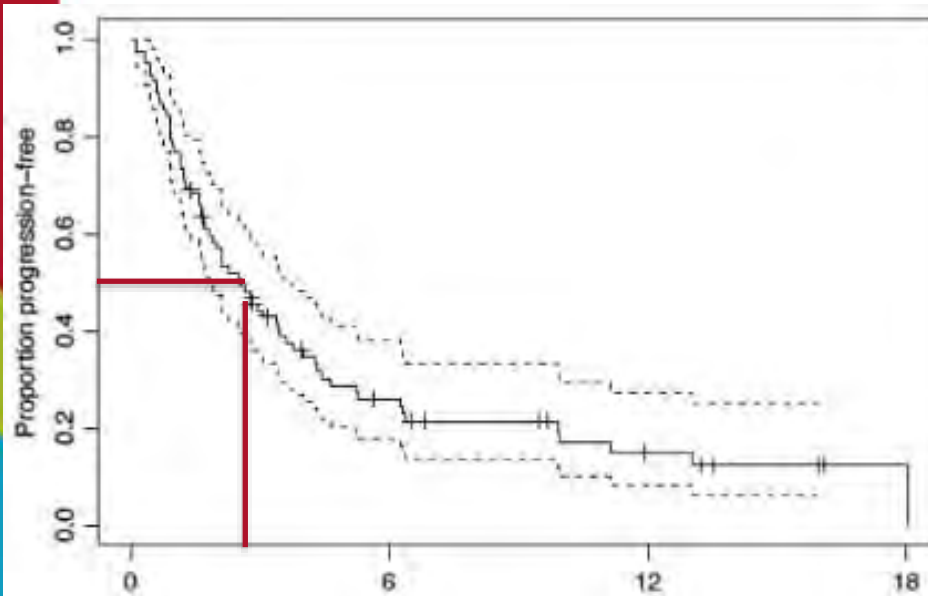
- Real world outcomes with tafa/len
 - Tafasitamab CD19 mAb
 - Busy cycle 1 dosing
- 9 centers
- N=82, 91% ineligible for L-MIND
- L-mind
 - 1-3 prior lines
 - ECOG 0-2
 - Ineligible for ASCT (ie >70)
 - Not primary refractory
 - Med time from Dx: 27mo
- Real world cohort
 - 0-11 lines (median 2)
 - 46% primary refractory
 - 70% refractory to last line (~40% in L-mind)
 - 21% prior CAR_T



Tafa-len

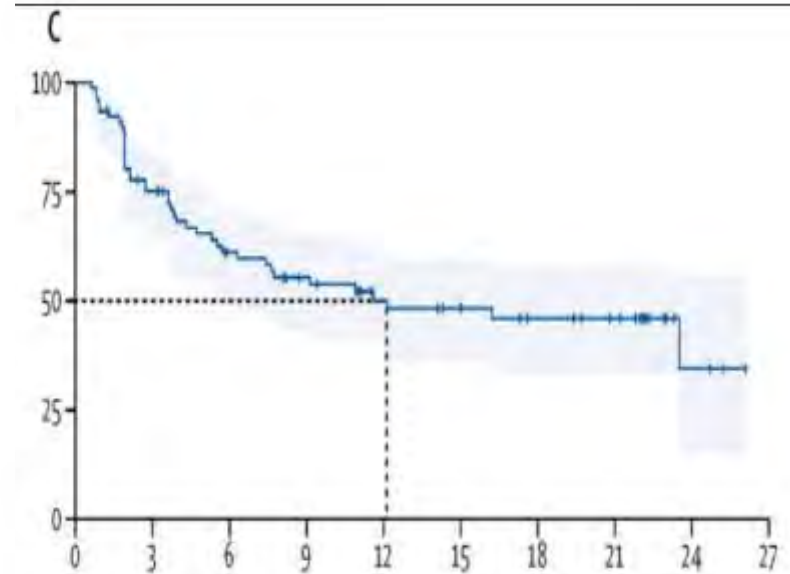
Progression-Free Survival

RW Retrospective cohort



Median PFS: 2.8mo
ORR/CR: 27/17%

L-Mind Trial



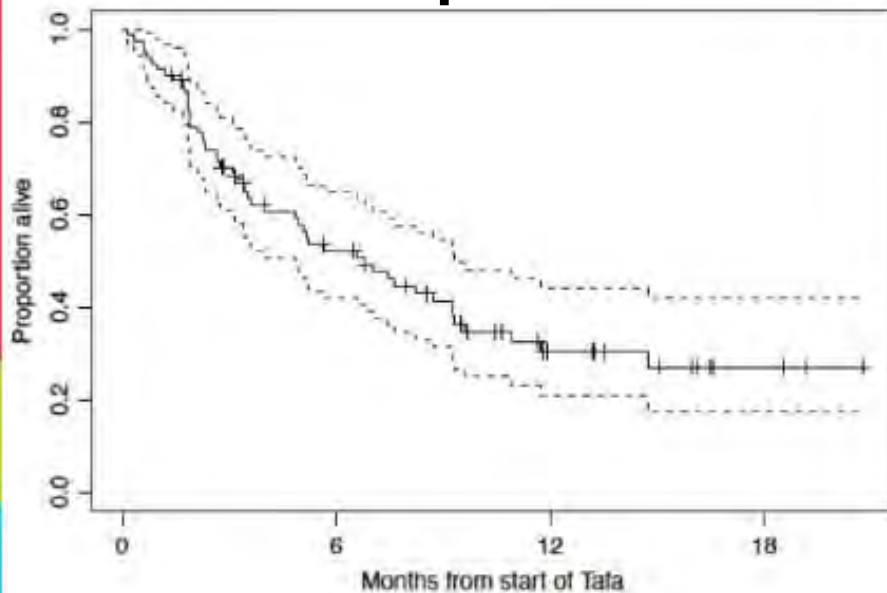
Median PFS: ~12mo
ORR: 60/43%



Tafa-Len

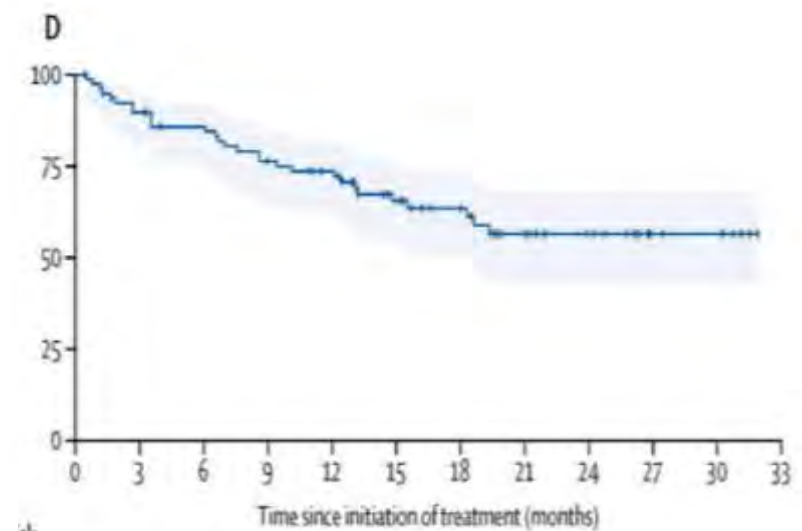
Overall Survival

RW Retrospective cohort



Median OS: 6.8 mo

L-Mind Trial

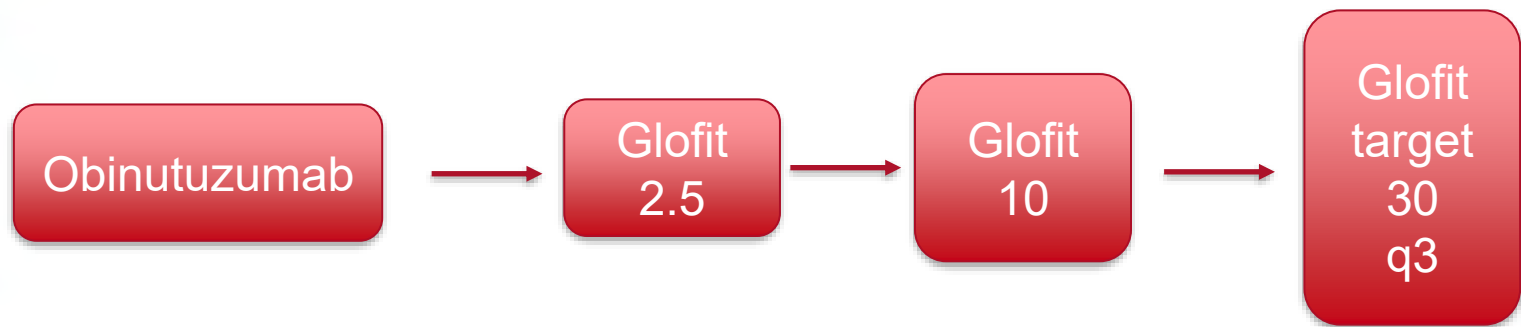


Median OS: not reached

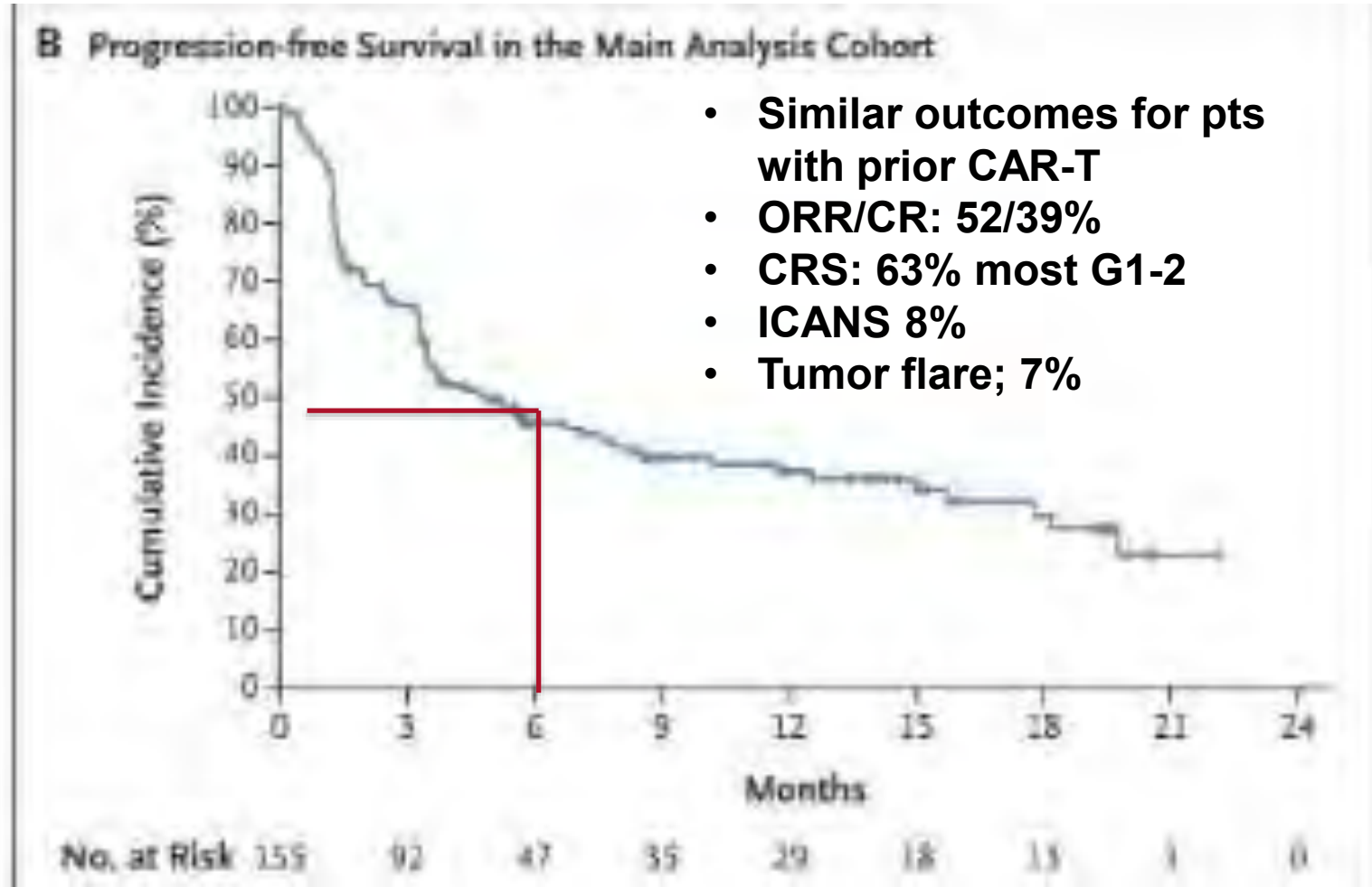


Glofitamab for DLBCL

- Step-up dosing
- Obinutuzumab pre-treatment x1
- Steroid pre-treatment gradually added
- 12 cycles q3w or ~9 months



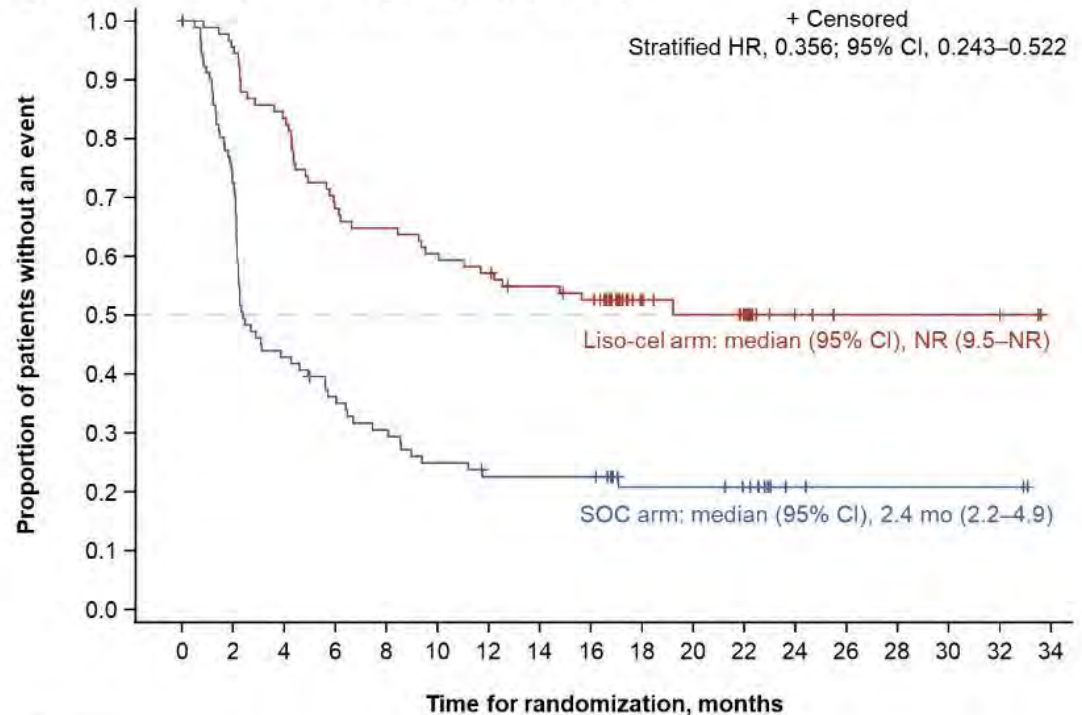
Glofitamab for DLBCL



Liso-cel 2L Updated Analysis

- ORR 87%, CR 74%
- Duration of CR
 - 12mo – 73%
 - 18 mo- 65%

Figure. Kaplan-Meier plot of EFS by IRC (ITT population)



No. at risk

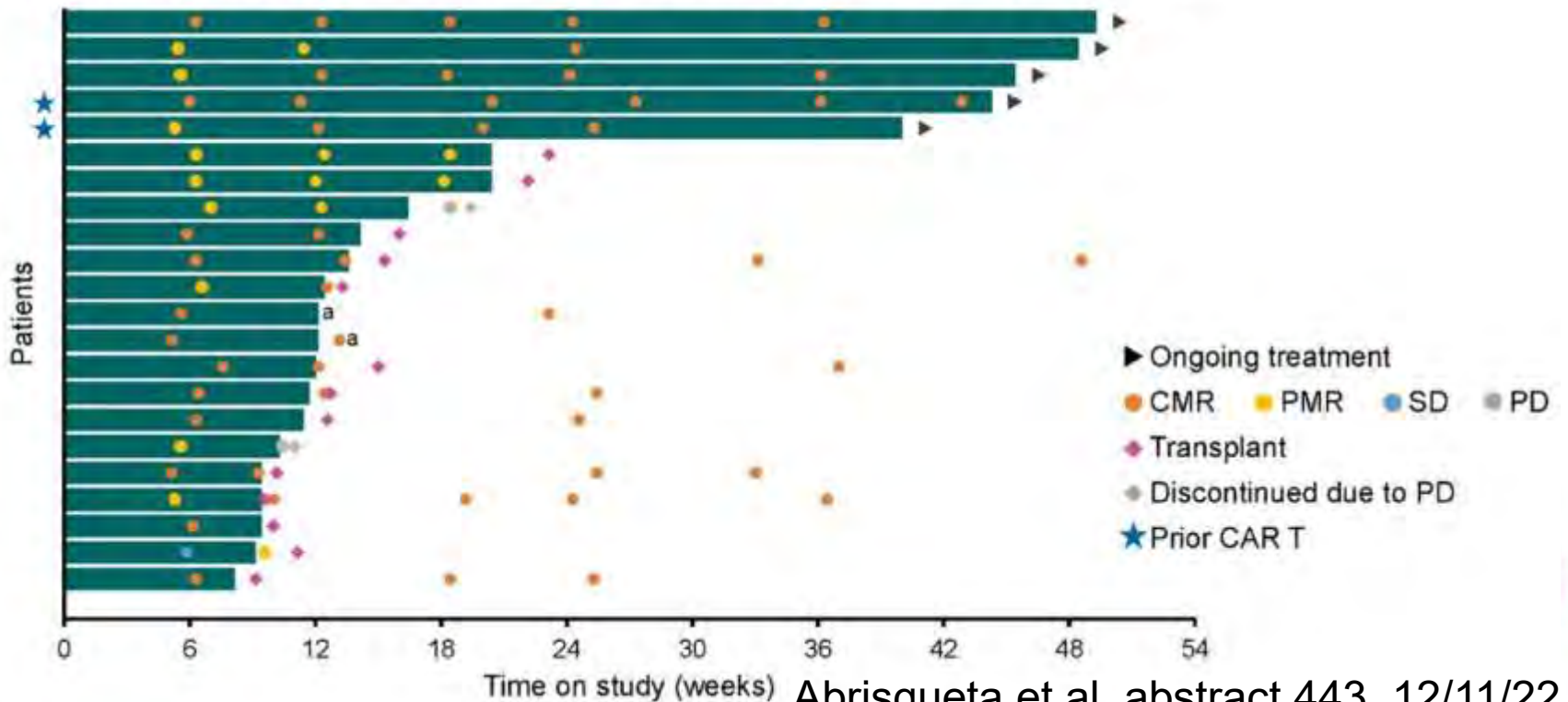
Abramson et al, abstract
655, 12/11/22



Epcoritamab + R-DHAX(C)

- Epcor + R-DHAX for 3 cycles for transplant eligible patients
- N=29 Included prior CAR-T n=3
- Med f/u 9 months, 1/2 proceeded to ASCT and all remain in CR

Figure. Response profile with epcoritamab + R-DHAX/C in EPCORE NHL-2 arm 4.

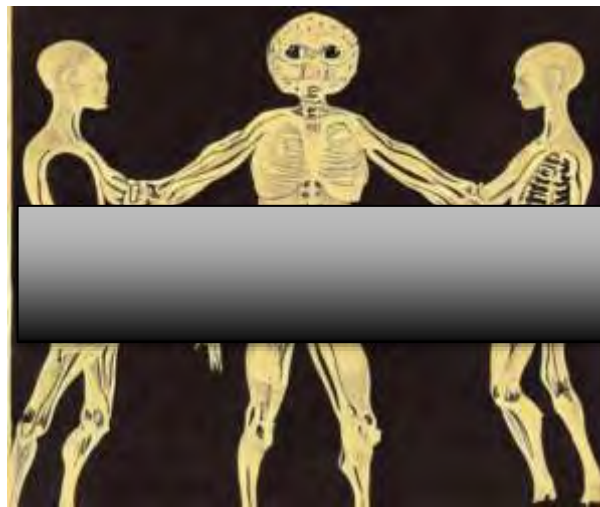
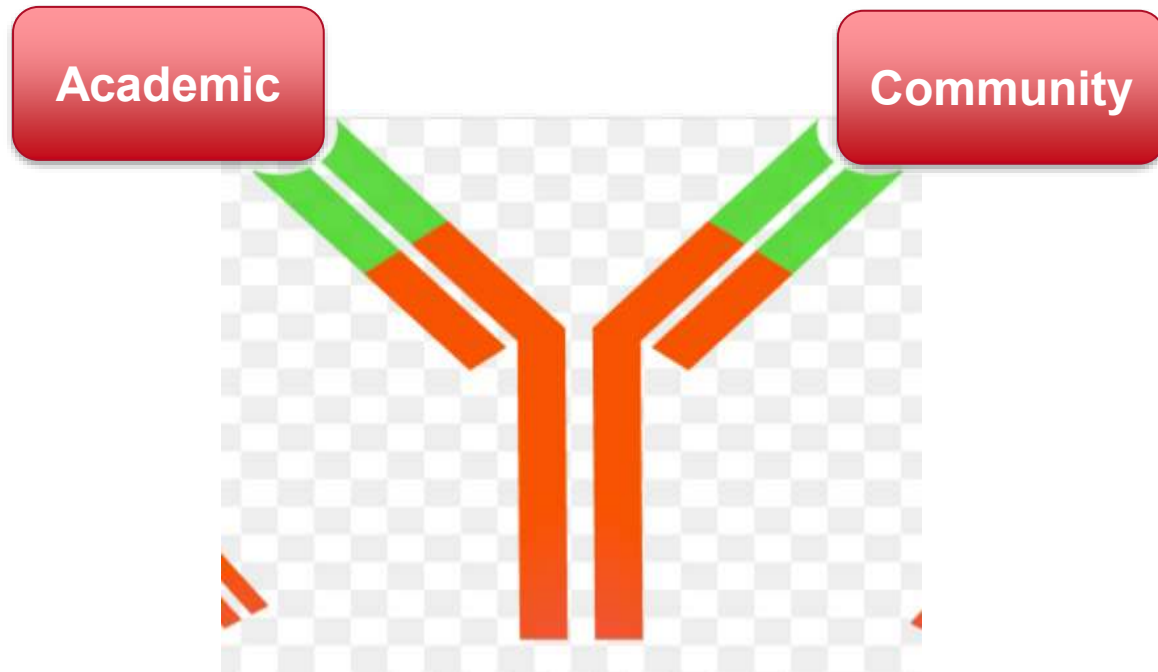


Bispecific? CAR-T?

- Both!
- Sequencing is the next question
 - T-cell performance
 - Practical considerations
- More data for bi-specific post CAR
 - DESCAR-T cohort (Crochet et al Abstract #2026) suggest CAR-T efficacy post
- Up-front/bridging approaches rational
 - Improved disease control -> better CAR product?
 - CRS/ICANS mitigating?
- Communication and coordination will be key



Bi-specific Metaphor





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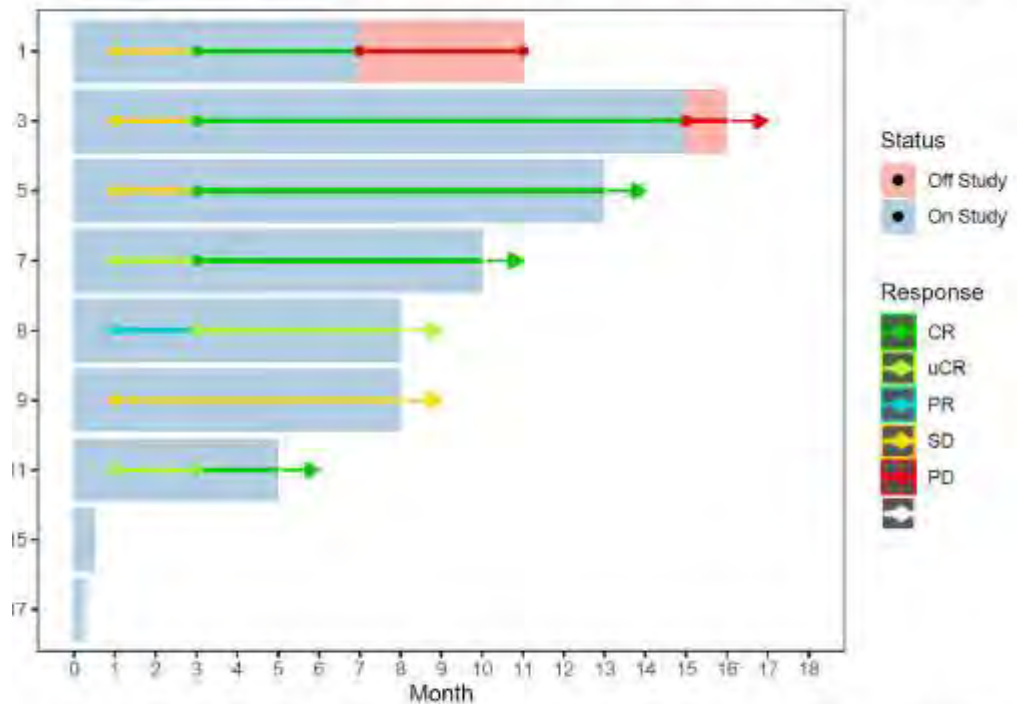


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CAR-T CNS Lymphoma

- Proof of concept n=9
- CR 86%
- No increased signal for ICANS/CRS

Figure 1. Swimmer Plot of Response to Axi-cel Over Time

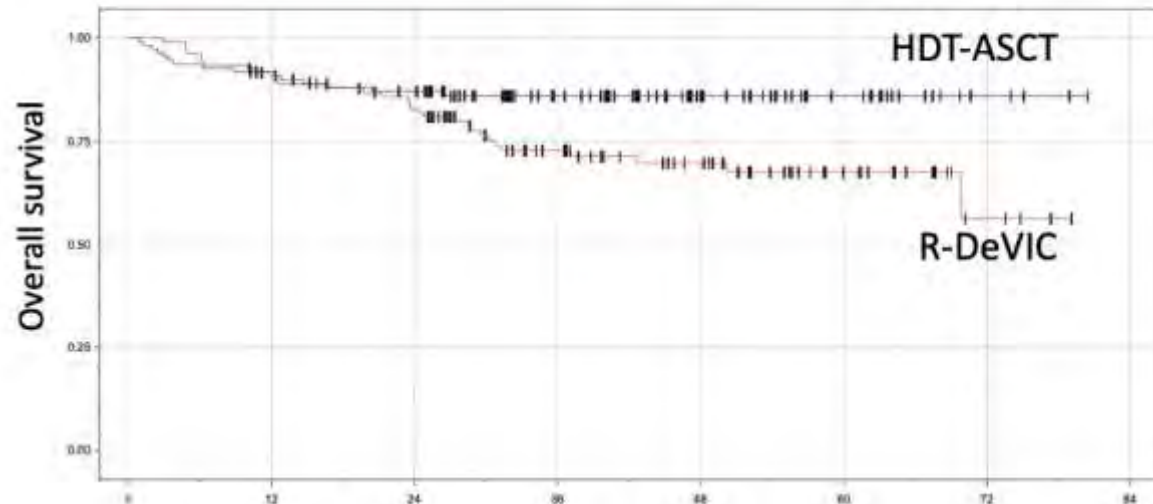
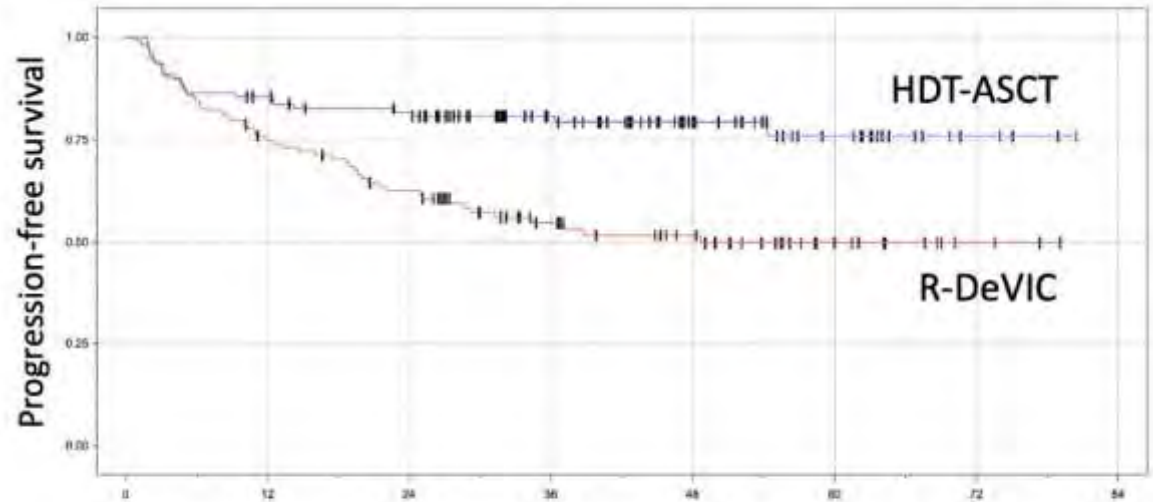


CR: complete response; uCR: unconfirmed complete response; PR: partial response; SD: stable disease (SD); PD: progressive disease

Jacobsen et al,
abstract
440,12/11/22

Consolidation CNS Lymphoma

- Ph3 RCT
- MATRix induction
 - 25% did not proceed due to toxicity
 - 10% disease progression
- Response to MATRix
 - 69% ORR
 - 27% CR



Hodgkin Lymphoma

- Early stage, bulky cHL
- 117 pts randomized to 4 arms:
 - All contained Bv-AVD x 4 cycles
 - 3 arms with XRT, 1 without

