

# UNC Lineberger Cancer Network

Presented on Ju  
28, 20

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Lymphoma Management in North Carolina: Updates for 2023 June 28

The program is provided with one digital and one on-site learning

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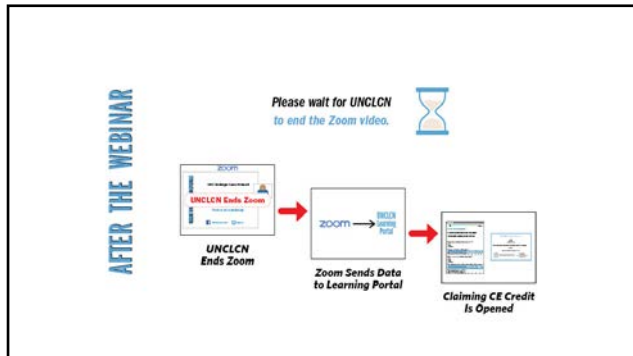
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**OUR PRESENTER**



Natalie Grover, MD, is an assistant professor in the Division of Hematology/Oncology. Her primary clinical interest is management of lymphoma. Her research interests include novel treatment strategies in lymphoma, particularly immunotherapy, and she is currently involved in the clinical trials of chimeric antigen receptor T-cell (CAR-T) therapy for patients with lymphoma.

Natalie Grover, MD

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**OUR PRESENTER**

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4. Natalie Grover, MD, is an assistant professor in the Division of Hematology/Oncology.

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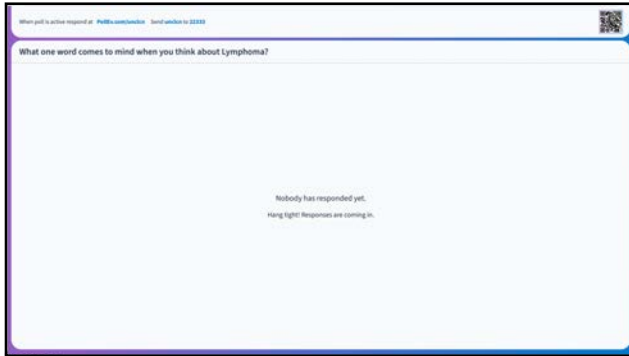
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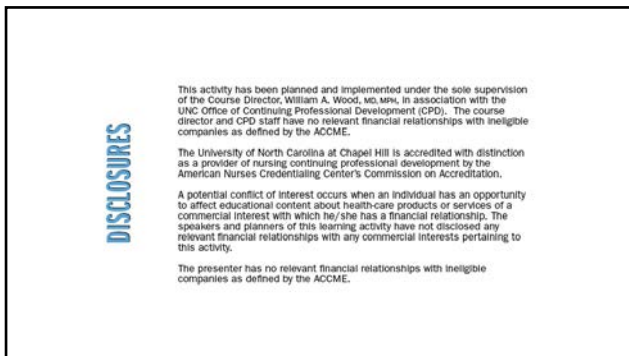
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## Lymphoma Management in North Carolina: Updates for 2023

Natalie Grover, MD  
Assistant Professor of Medicine  
Division of Hematology, Lymphoma Program  
Clinical Director of Cellular Therapy Program

June 28th, 2023



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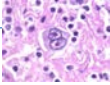
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### Case Example

- 28 yo F presents with enlarged neck nodes
- Excisional biopsy consistent with classical Hodgkin lymphoma
- PET/CT with multistation hypermetabolic lymphadenopathy along neck, chest, and retroperitoneum with FDG uptake significantly greater than liver as well as pulmonary nodules suspicious for lymphomatous involvement



Webpathology.com UNC LINEBERGER COMPREHENSIVE  
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How would you treat this patient?

0%	0	ABVD x 6 cycles
0%	0	ABVD x 2 cycles followed by PEACE for response adapted therapy
0%	0	and BEACOPP x 6 cycles
0%	0	Brentuximab vedotin + ABVD x 6 cycles
0%	0	Rituximab + ABVD x 6 cycles

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Standard of Care for Advanced Stage Hodgkin Lymphoma Rapidly Changing!

- Standard of Care had been ABVD x 6
- Had been using PET adapted therapy frequently – start with ABVD x 2
  - If interim PET/CT Deauville 1-3 -> drop bleomycin
  - If interim PET/CT Deauville 4-5 (but responding) -> escalated BEACOPP
- Advantages
  - Most patients respond and really nice to be able to drop bleomycin after 2 cycles
- Drawbacks
  - Rely on expertise/assessment of nuclear medicine
  - Don't love escalating to BEACOPP (adds more toxicity!!)

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What about novel agents?

- Brentuximab vedotin (anti-CD30 antibody drug conjugate) and PD-1 inhibitors (nivolumab, pembrolizumab) very effective in relapsed/refractory HL
- Can these agents be incorporated in frontline therapy to improve patient outcomes?

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Brentuximab Vedotin as Frontline Therapy



ORIGINAL ARTICLE

Brentuximab Vedotin with Chemotherapy for Stage III or IV Hodgkin's Lymphoma

J.M. Connors, W. Jurczak, D.J. Straus, S.M. Ansell, W.S. Kim, A. Galloni, A. Younes, S. Akhavan, A. Gils, M. Picardi, E. Luch-Maranda, Y. Gu, T. Feldman, P. Soubrieau, K.J. Savage, N.C. Barnes, J. Witek, K. Chen, R. Ramchandani, P.L. Zinzani, D. Cunningham, A. Rosta, N.C. Josephson, E. Song, J. Sachs, R. Liu, H.A. John, D. Huebner, and J. Radford, for the ECHHO-1 Study Group\*

Connors et al, NEJM 2017

- Phase 3 randomized control trial
- N= 1334 patients
- Advanced stage HL
- Median age 36 (up to age 83)
- BV-AVD vs ABVD for 6 cycles

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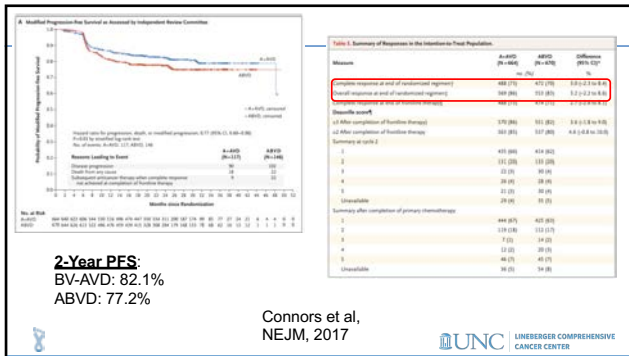
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### BV-AVD Has Higher Rates of Toxicity

- Higher rates of febrile neutropenia – need to use G-CSF
  - 24% in BV-AVD arm compared to 9% in ABVD
- More neuropathy
  - BV-AVD 67% vs ABVD 43%

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### 2022 Update: BV-AVD has Overall Survival Benefit over ABVD

6 year OS for BV-AVD – 93.9%  
6 year OS for ABVD – 89.4%

Overall Survival with Brentuximab Vedotin in Stage III or IV Hodgkin's Lymphoma

Ansell et al, NEJM, 2022

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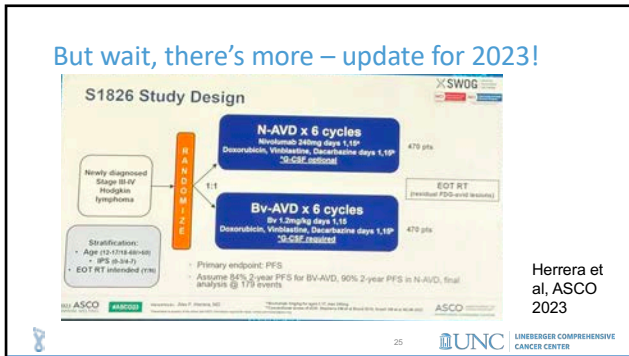
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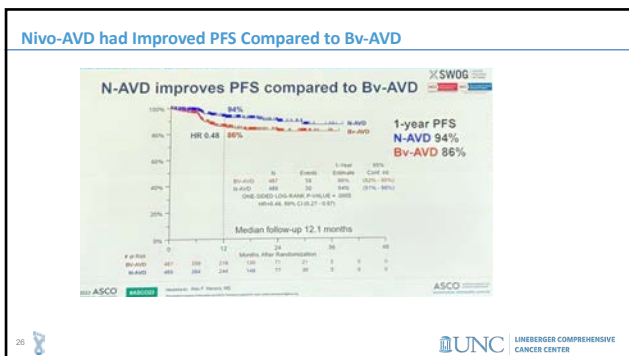
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**Toxicity Comparison**

- Nivo-AVD had less peripheral neuropathy (29% vs 55%) compared to BV-AVD
- Similar rates of febrile neutropenia (5% nivo vs 7% BV) despite only 54% N-AVD arm got G-CSF compared to 95% BV-AVD arm
- Most common immune-related adverse event – thyroid dysfunction – 10% in nivo-AVD arm (compared to 1% for BV-AVD)
- No increased infectious toxicity in Nivo-AVD arm

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How do we treat advanced stage Hodgkin lymphoma in 2023?

- Caveat: Follow up is still short!!
- If trends continue, I expect my preference may soon nivo-AVD for most patients -> improved PFS and favorable toxicity compared to Bv-AVD
- Also included pediatric patients! A more standardized approach for adults and peds?
- In the interim (until NCCN guidelines/FDA approval catch up for insurance authorization), treating most patients with Bv-AVD given overall survival benefit over ABVD



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What's Next?

- Can we incorporate both BV and nivolumab and potentially use imaging techniques and/or biomarkers to de-escalate treatment in advanced stage Hodgkin lymphoma?
- Incorporating novel agents into early stage Hodgkin lymphoma
  - Cooperative group adult and peds clinical trial randomizing patients to BV/Nivo vs standard of care after interim PET scan

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Case Example

- 28 yo F presents with enlarged neck nodes
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- PET/CT with multistation hypermetabolic lymphadenopathy along neck, chest, and retroperitoneum with FDG uptake significantly greater than liver as well as pulmonary nodules suspicious for lymphomatous involvement

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### Case Example

- 65 year old female presented with right upper quadrant pain and weight loss and found to have diffuse mesenteric, retroperitoneal, mediastinal, and hilar lymphadenopathy. Biopsy consistent with diffuse large B cell lymphoma and FISH negative for MYC rearrangement. Labs significant for elevated LDH above upper limit of normal.

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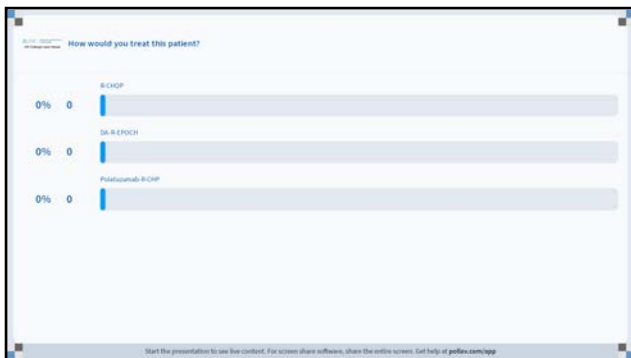
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Polatuzumab Vedotin – FDA Approved in 2019 for relapsed/refractory DLBCL

Anti-CD79b targets to B-cell malignancies  
MMAE Microtubule disruptor  
Variable chain linker cleavable by lysosomal processes

ADC in circulation

ADC binds to receptor  
ADC-receptor complex is internalized  
Cytotoxic agent is released in lysosome  
Microtubule disruption  
Apoptosis (cell death)

[Polatuzumab-vedotin-MOA\\_Page\\_02.png \(2000 x 1500\) \(noveltargets.com\)](#)

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Polatuzumab with R-CHP vs R-CHOP

- Phase 3 double blind placebo controlled trial
- Inclusion criteria: intermediate and high risk DLBCL by IPI (IPI 2 or higher)
- 879 patients randomized
- 2 year PFS 76.7% vs 70.2%
- No difference in overall survival at 2 years
- Similar toxicity profile
- FDA approved for 1<sup>st</sup> line April, 2023

No. at Risk	0	6	12	18	24	30	36	42
Polatuzumab	440	404	353	327	286	78	NE	NE
R-CHOP	439	389	330	296	220	78	3	NE

Tilly et al, NEJM 2022

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So should we use it?

- Improved PFS (although small)
- Similar toxicity profile
- Higher cost
- Requires growth factor support
- Some subgroups may benefit more?
- I have incorporated this into my standard of care for frontline advanced stage DLBCL

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**Case Example**

- 65 year old female presented with right upper quadrant pain and weight loss and found to have diffuse mesenteric, retroperitoneal, mediastinal, and hilar lymphadenopathy. Biopsy consistent with diffuse large B cell lymphoma and FISH negative for MYC rearrangement. Labs significant for elevated LDH above upper limit of normal.

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How would you treat this patient?

0%	0	R-CHOP
0%	0	DA-R-EPICH
0%	0	Pola-comab-R-CHP

Start the presentation to see live content. For screen share software, share the entire screen. Get help at [pollen.com/help](https://pollen.com/help)

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**Case Example**

- Our patient is treated with Pola-RCHP x 6 cycles. She initially gets into a complete remission but 4 months after completing therapy, she presents with worsening abdominal pain and nausea and is found to have diffuse FDG avid lymphadenopathy consistent with relapsed disease?

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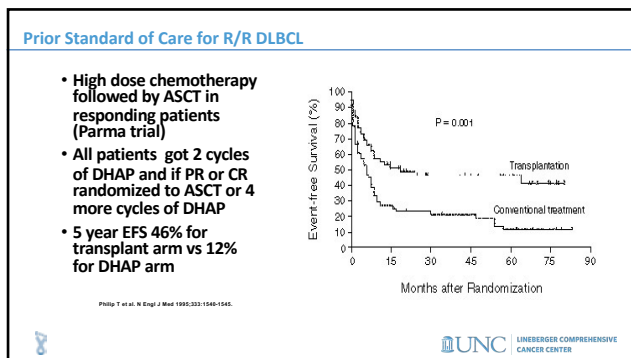
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### Limitations of Autologous Stem Cell Transplant

- Many patients not transplant eligible due to comorbidities or age
- Many patients not transplant eligible because don't respond to salvage therapy (about half)
- In patients who are initially chemorefractory, is more chemotherapy really the right option?

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**Chimeric Antigen Receptor T Cells**

- 1) Leukapheresis
- 2) T cells isolated, activated, and transduced with CAR encoding viral vector
- 3) CAR-T cells can recognize specific antigen on cancer cells
- 4) CAR-T cells expanded with growth factors -> QC process
- 5) Lymphodepletion chemotherapy
- 6) CAR-T cell infusion

The diagram illustrates the CAR-T cell production and infusion process. It starts with a patient undergoing leukapheresis to isolate T cells. These T cells are then transduced with a CAR-encoding viral vector. The resulting CAR-T cells are expanded in a bioreactor. The expanded CAR-T cells are then infused back into the patient after lymphodepletion chemotherapy. The diagram also shows a patient receiving CAR-T cell infusion and the resulting CAR-T cell expansion.

Ganatra et al – JACC 2019  
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**Chimeric Antigen Receptor T Cells**

- 3 CAR-T cell products approved for patients with relapsed/refractory DLBCL
  - Axi-cel
  - Liso-cel
  - Tisa-cel
- Complete response rates 40-60% with durable remissions seen in patients in complete response
- Can these therapies be moved to earlier lines of therapy and potentially replace transplant?

A cartoon illustration of a blue CAR-T cell with a yellow face and a blue flag that says "CAR-T CELL".

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**Second Line CAR-T Cell Trials**

- Randomized trials comparing 2<sup>nd</sup> line CAR-T to ASCT
- DLBCL or high grade B cell lymphoma
- Primary refractory or relapse within 12 months of finishing 1L therapy
- Candidates for ASCT

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**Zuma-7 (Axi-cel)**

- Randomized trial comparing CD19 CAR-T to standard of care salvage to transplant
- DLBCL refractory or relapsed within 12 months of initial therapy
- Reported improved PFS in 2021 and led to FDA approval of axi-cel in 2<sup>nd</sup> line for DLBCL



Locke et al, NEJM 2021



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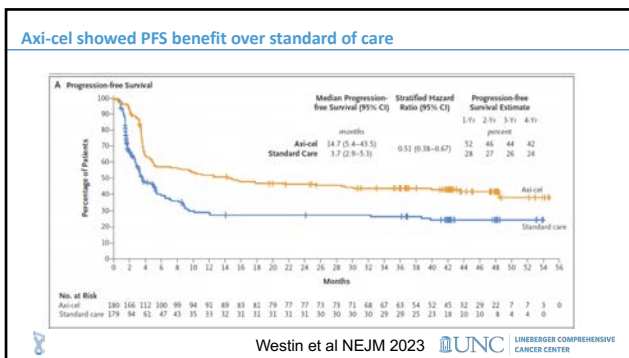
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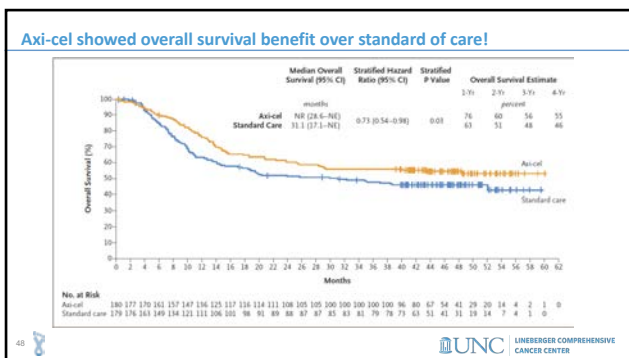
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**Other 2<sup>nd</sup> Line CAR-T Cell Products**

- Liso-cel (Transform trial) – similar results – also improvement over salvage/transplant although data hasn't matured enough so overall survival difference not reported – also FDA approved in 2022 for 2<sup>nd</sup> line CAR-T
- Tisa-cel (Belinda) – negative study – no difference between CAR-T and standard of care

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**Should we change management based on results?**

- Yes, for primary refractory or early relapsed patients
- Benefit seen even with high cross-over/standard of care CAR-T cell use, suggesting benefit of treating earlier with CAR-T
- Low number of patients received ASCT (even in SOC arm – more received CAR-T than ASCT)



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**Patient Case**

- 82 year old male with a history of high grade B cell lymphoma with MYC and BCL2 rearrangement (double hit lymphoma) treated with R-mini-CHOP 18 months ago presents to clinic.
- Initially in a complete response post chemotherapy but presented with new axillary and inguinal lymphadenopathy with biopsy concerning for relapsed disease.
- Tolerated chemotherapy fairly well
- Lives with his wife and can generally do his daily activities on his own although has had more fatigue with recent diagnosis and daughter has been coming daily to check on him and help.
- Generally walks at home but uses wheelchair to get to clinic due to longer distance to travel.

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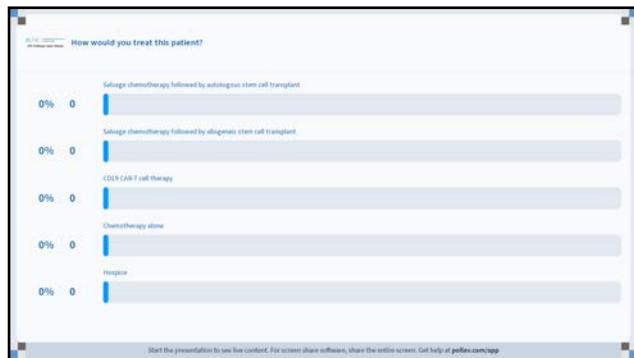
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### PILOT Study

- Phase 2 study of 2<sup>nd</sup> line CAR-T (liso-cel) for patients with first relapse DLBCL who were not candidates for transplant based on the following criteria:
- Age  $\geq$  70
- ECOG PS 2
- DLCO  $\leq$  60%
- LVEF  $<$  50%
- Cr Cl  $<$  60 mL/min
- AST/ALT  $>$  2 ULN
- Could have relapsed  $>$  1 year post initial therapy

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### PILOT Study

- 61 patients treated
- Median age 74 years old
- 26% had ECOG PS 2
- Overall response rate 80%, complete response – 54%
- Patients in CR -> median duration of response – 21.7 months
- Cytokine release syndrome – 38% (grade 3 in 1 patient)
- Neurologic events – 31% (grade 3 in 3 patients)
- Led to FDA approval of liso-cel in 2<sup>nd</sup> line for patients who are not transplant candidates (even for later relapses)

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**Case Example**

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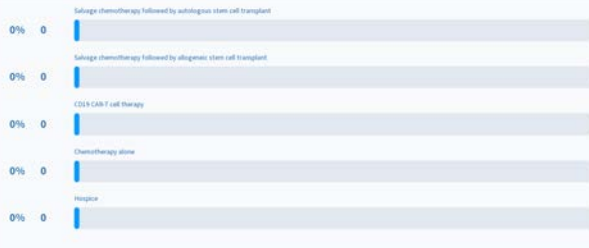
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**How would you treat this patient?**



Treatment Option	Percentage
Salvage chemotherapy followed by autologous stem cell transplant	0%
Salvage chemotherapy followed by allogeneic stem cell transplant	0%
CD19 CAR-T cell therapy	0%
Chemotherapy alone	0%
Hospice	0%

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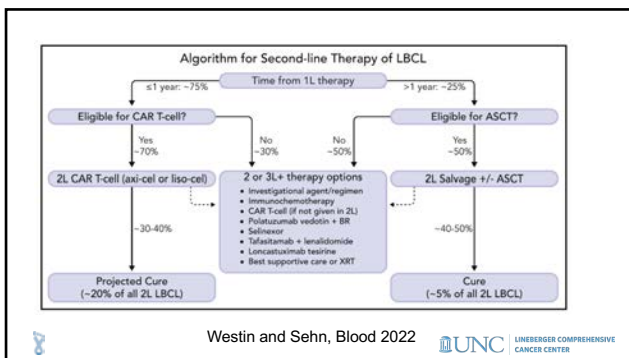
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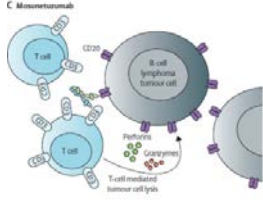
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**Mosunetuzumab – Bispecific Antibody**



- Approved for relapsed/refractory follicular lymphoma after 2 or more lines of therapy
- 90 patients treated - ORR 80%, CR rate 60%
- 18 month EFS 70.2% in complete responders
- CRS in 44% - mostly grade 1/2 and during dose 1 or 3 (step up dose)
- Fixed duration therapy

Van de Donk and Zweegman, Lancet 2023

61  LINEBERGER COMPREHENSIVE CANCER CENTER

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**Epcoritamab**

- Another CD3xCD20 T-cell engaging bi-specific antibody
- FDA approved for DLBCL – 3<sup>rd</sup> line - 2023
- Subcutaneous administration
- 157 patients - ORR 63%, CR rate 39%
- Median DOR – 12 months; not reached for CR patients
- CRS – 49.7% - mostly grade 1 or 2; 2.5% grade 3
- Neurotoxicity (ICANS) – 6.4%
- Continuous therapy

Thieblemont et al, JCO 2023

62  LINEBERGER COMPREHENSIVE CANCER CENTER

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**Glofitamab**

- Another CD3xCD20 T-cell engaging bi-specific antibody
- FDA approved for DLBCL – 3<sup>rd</sup> line - 2023
- IV administration
- Pre-treated with obinutuzumab 1 week prior (mitigate CRS)
- 155 patients treated - CR rate 39% (CR rate 35% for prior CAR-T)
- 78% of complete responses ongoing at 12 months
- CRS – 63% - mostly grade 1 or 2; 4% grade 3
- Neurotoxicity (ICANS) – 8%; grade 3 or higher – 3%
- Fixed duration – 12 cycles total

Dickinson et al, NEJM 2022

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**Bispecific Antibodies vs CAR-T?**

- Need longer follow up to determine duration of response with bispecifics
- CAR-T – 1 time treatment vs multiple infusions/injections with bispecifics
- Less CRS and neurotoxicity with bispecifics but still can see significant infections (like with CAR-T)
- Can bispecific antibodies be given in community? Education around toxicities or subsequent doses where low risk
- No lymphodepletion with bispecifics
- My approach: Currently mostly going to CAR-T first and saving bispecifics for post CAR-T relapse

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**Summary – Biggest Practice Changes for Lymphoma Care This Year**

- Incorporation of novel agents in frontline treatment of Hodgkin lymphoma (BV-AVD and now Nivo-AVD coming soon!)
- Incorporation of polatuzumab in frontline therapy for DLBCL
- Overall survival benefit with 2<sup>nd</sup> line CAR-T -> early referrals to CAR-T treatment center key! More patients may be CAR-T cell candidates than you expect!
- Bispecifics finally FDA approved for lymphoma

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# UNC Lineberger Cancer Network

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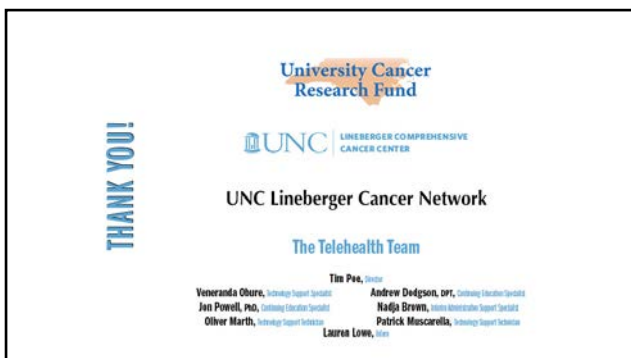
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**UPCOMING LIVE WEBINARS**

	<b>PATIENT CENTERED CARE</b> ePROs Monitoring in Thoracic Surgery and Oncology Patients Gita Mody, MD	July 12 12:00 PM
	<b>ADVANCED PRACTICE PROVIDER</b> Overview of Clinical Trials for the APP Clarissa Urban, PA-C	July 19 4:00 PM
	<b>RESEARCH IN PRACTICE</b> Therapeutic Approaches for Soft Tissue Sarcomas: 2023 Update Mark Woodcock, MD	July 26 12:00 PM

Complete details on upcoming Live Webinars:  
[learn.usclcn.org/live-webinars](https://learn.usclcn.org/live-webinars)

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**SELF-PACED, ONLINE COURSES**

	<b>ADVANCED PRACTICE PROVIDER</b> Oncologic Emergencies, A Deeper Dive: Neutropenic Fever, Tumor Lysis Syndrome, and Cord Compression Laura Blanchard, MPA, PA-C
	<b>LEADERSHIP COURSE</b> Partnership for Native American Cancer Prevention Francine C. Gachupin, PhD, MPH
	<b>PATIENT CENTERED CARE</b> Where the Rubber Meets the Road: Community-Inclusive Interventions to Achieve Equity in Cancer Care Samuel Dykert, MD Christina Yongue, MPH, MCHES

Complete details on our Self-Paced, Online Courses:  
[learn.usclcn.org/spoc](https://learn.usclcn.org/spoc)

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**THANK YOU FOR PARTICIPATING!**

**UNC Lineberger Cancer Network**

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