Understanding the Current Paradigm and New Approaches in the Care of Patients with Cancer

A Complimentary NCPD Hybrid Symposium Series Held During the 50th Annual ONS Congress

Non-Hodgkin Lymphoma

Saturday, April 12, 2025 6:00 PM – 7:30 PM

Faculty

Christopher Flowers, MD, MS Manali Kamdar, MD, MBBS Robin Klebig, MSN, APRN, CNP, AOCNP Caitlin Murphy, DNP, FNP-BC, AOCNP Moderator

Neil Love, MD



Faculty



Robin Klebig, MSN, APRN, CNP, AOCNP Hematology Outpatient APP Supervisor Assistant Professor of Medicine Nurse Practitioner, Lymphoma Group Division of Hematology Mayo Clinic Rochester, Minnesota



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Distinguished University Chair in Cancer Medicine
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Dr Flowers — Disclosures

Consulting Agreements	AbbVie Inc, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, Celgene Corporation, Denovo Biopharma, Genentech, a member of the Roche Group, Genmab US Inc, Gilead Sciences Inc, Karyopharm Therapeutics	
Contracted Research	4D Pharma PLC, AbbVie Inc, Acerta Pharma — A member of the AstraZeneca Group, Alaunos Therapeutics, Allogene Therapeutics, Amge Inc, Bayer HealthCare Pharmaceuticals, Celgene Corporation, Cellectis, EMD Serono Inc, Genentech, a member of the Roche Group, Gilead Sciences Inc, Guardant Health, Iovance Biotherapeutics, Janssen Biotech Inc, Kite, A Gilead Company, MorphoSys, Nektar Therapeutics, Novartis, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Sanofi, Takeda Pharmaceuticals USA Inc, TG Therapeutics Inc, Xencor	
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Dr Kamdar — Disclosures

Consulting Agreements	AbbVie Inc, AstraZeneca Pharmaceuticals LP, BeiGene Ltd, Bristol Myers Squibb, Celgene Corporation, Genentech, a member of the Roche Group	
Contracted Research	Novartis	
Data and Safety Monitoring Boards/Committees	Celgene Corporation, Genentech, a member of the Roche Group	



Ms Klebig — Disclosures

No relevant conflicts of interest to disclose.



Ms Murphy — Disclosures

Advisory Committees	Genmab US Inc, Seagen Inc
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Networked iPads are available.



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|--|

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About the Enduring Program

- The live meeting is being video and audio recorded.
- The proceedings from today will be edited and developed into an enduring web-based program. An email will be sent to all attendees when the activity is available.



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ONCOLOGY NURSING UPDATE WITH DR NEIL LOVE

Bispecific Antibodies in Lymphoma Part 2 — An Interview with Ms Amy Goodrich for Oncology Nurses



MS AMY GOODRICH THE SIDNEY KIMMEL COMPREHENSIVE CANCER CENTER









Ms Amy Goodrich — Bispecific Antiboc Oncology Today with Dr Neil Love —

(30)

(15)



Welcome ONS Members!



"Understanding the Current Paradigm and New Approaches" Seventeenth Annual RTP-ONS NCPD Symposium Series

Wednesday April 9	Antibody-Drug Conjugates 11:15 AM - 12:45 PM MT
	Hormone Receptor-Positive Breast Cancer 6:00 PM - 8:00 PM MT
Thursday April 10	Chronic Myeloid Leukemia 6:00 AM - 7:30 AM MT
	Prostate Cancer 12:15 PM - 1:45 PM MT
	Chronic Lymphocytic Leukemia 6:00 PM – 7:30 PM MT
Friday April 11	Bispecific T-Cell Engagers for Small Cell Lung Cancer 6:00 AM - 7:30 AM MT
	Ovarian Cancer 12:15 PM - 1:45 PM MT
	Pancreatic Cancer 6:00 PM - 7:30 PM MT
Saturday April 12	Endometrial Cancer 6:00 AM - 7:30 AM MT
	Gastroesophageal Cancers 12:15 PM - 1:45 PM MT
	Non-Hodgkin Lymphoma 6:00 PM - 7:30 PM MT



Understanding the Current Paradigm and New Approaches RTP Faculty at ONS 2025



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Neil Love, MD



Agenda

Introduction: Overview of Bispecific Antibodies and Chimeric Antigen Receptor T-Cell Therapy for Non-Hodgkin Lymphoma

Module 1: Current and Future Use of Bruton Tyrosine Kinase Inhibitors for Mantle Cell Lymphoma

Module 2: First-Line Therapy for Diffuse Large B-Cell Lymphoma (DLBCL)

Module 3: Role of Loncastuximab Tesirine for Patients with Relapsed/Refractory (R/R) DLBCL

Module 4: Role of Tafasitamab for Patients with R/R DLBCL and Follicular Lymphoma



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Mechanism of Bispecific Antibodies





Herrera M et al. Trends Cancer 2024;10(10):893-919.

Approved and Investigational Bispecific Antibodies in R/R NHL

Drug Name	Route of Administration	FDA Approval Status	
Mosunetuzumab	Intravenous	Approved (FL)	
Glofitamab	Intravenous	Approved (DLBCL)	
Epcoritamab	Subcutaneous	Approved (DLBCL, FL)	
Odronextamab Intravenous		Investigational (DLBCL, FL)	



Respective package inserts. Accessed April 2025.

Overview of CAR T-Cell Therapy





Modification, Courtesy of David Porter, MD

Approved CAR-T Cell Therapies in R/R NHL

Drug Name	Disease State
Tisagenlecleucel	DLBCL, FL
Axicabtagene ciloleucel	DLBCL, FL
Lisocabtagene maraleucel	DLBCL, FL, MCL
Brexucabtagene autoleucel	MCL



Clinical Management of CRS



Riegler LL et al. *Ther Clin Risk Manag* 2019;15:323-335.

Figure 4 CRS management recommendations by Neelapu et al.²⁸

RTP RESEARCH TO PRACTICE

Clinical Management of ICANS





Garcia Borrega J et al. Hemasphere 2019;3(2):e191.

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Module 4: Role of Tafasitamab for Patients with R/R DLBCL and Follicular Lymphoma





An older patient with newly diagnosed MCL is about to start first-line treatment with acalabrutinib/bendamustine/rituximab





Understanding the Current Paradigm and New Approaches in the Care of Patients with Non-Hodgkin Lymphoma

Manali Kamdar, MD, MBBS

Associate Professor of Medicine, Clinical director of lymphoma services, Morton and Sandra Saffer Endowed Chair in Hematology Research, Division of Hematology, University of Colorado



ONS congress, RTP Symposium, 4/12/2025

Current and Future Use of BTK Inhibitors in Mantle Cell Lymphoma

Clinical Case

77-year-old male with ECOG 1 with PMH sig for Afib controlled on metoprolol and apixaban, noted gradual onset fatigue and dyspnea over 6 months. Work up including a CT scan revealed adenopathy above and below the diaphragm. Excisional biopsy of the inguinal node was consistent with Mantle cell lymphoma, **blastoid variant, ki67 70%.** Labs revealed mild anemia and thrombocytopenia, **LDH elevated**. Bone marrow biopsy positive for involvement with MCL. FISH and NGS **did not show any TP53 aberration.**

Next steps in the management of High-risk MCL in an older patient?

BTK inhibitors in Mantle Cell Lymphoma



Approved 2017

Approved 2013 Indication Withdrawn 2023

Approved 2019

Approved in 2023

Treatment Paradigm in young and fit untreated MCL

- 1993: HD chemo + ASCT
- 1990s: CHOP, FC, CEOP
- 1998: HyperCVAD
- 2005: R-CHOP, R-HyperCVAD
- 2008: Nordic Regimen
- 2016: MCL Younger
- 2017: LYMA (R maintenance)
- 2020: BR/HiDAC





WINDOW STUDY

N = 131 ORR : 89% CR: 77%

5-yr PFS 67% 5-yr OS 95% Incorporating BTKi upfront Feasible Chemo-based TP53-mut CR lower

TRIANGLE PHASE III Study: Can Ibrutinib + SOC substitute ASCT in young/fit MCL?



Primary endpoint: FFS

Secondary endpoints: Response rates, PFS, RD, OS, safety

Previously untreated stage II-IV MCL Age <66 years Suitable for HA and ASCT ECOG PS 0-2 Rituximab maintenance (without or with Ibrutinib) was started in 168 (58 %)/165 (57 %)/158 (54 %) of A/A+I/I randomized patients Median FU 55 months



Dreyling M et al. Lancet 2024;403(10441):2293-306. Dreyling M, et al. ASH 2024;Abstract 240.

TRIANGLE PHASE III Study: Can Ibrutinib + SOC substitute ASCT in young/fit MCL?



KEY TAKEAWAYS

BTKi + Chemo can Substitute ASCT in 1L MCL

No sufficient benefit of ASCT + I vs. I even in high-risk patients (TP53, high Ki67, Blastoid)

TRIANGLE regimen -- new SOC in younger MCL patients

Implications :

Substitution of Ibrutinib with Sec Gen BTKi

Can we do better in High-Risk disease – Chemo in TP53 ?

Treatment at relapse? Rechallenging with BTKi? Something else?

A multicenter, phase 2 trial with zanubrutinib, obinutuzumab, and venetoclax (BOVen) in patients with treatment-naïve, **TP53-mutant** MCL



RESULTS:





Practice Implications

NCCN – TP53mut ? TRIANGLE Rx at Relapse?

Treatment Paradigm in young and fit untreated MCL


Treatment Paradigm in elderly and unfit untreated MCL

- 1990: CHOP, FC, CEOP
- 2012: R-CHOP with Ritux Maintenance
- 2013: BR
- 2017: RBAC
- 2018: VR-CAP



The NEW ENGLAND JOURNAL of MEDICINE

www.nejm.org/doi/full/10.1056/NEJMoa2201817

ORIGINAL ARTICLE

Ibrutinib plus Bendamustine and Rituximab in Untreated Mantle-Cell Lymphoma

Michael L. Wang, M.D., Wojciech Jurczak, M.D., Ph.D., Mats Jerkeman, M.D., Ph.D.,





Patients at Risk

 Ibrutinib + BR
 261
 239
 221
 208
 197
 187
 171
 163
 158
 152
 145
 138
 128
 118
 70
 25
 0

 Placebo + BR
 262
 244
 223
 212
 203
 197
 188
 177
 171
 165
 159
 154
 147
 137
 90
 31
 2

Cause of death	lbrutinib + BR (N = 261)	Placebo + BR (N = 262)
Death due to PD and TEAE	58 (22.2%)	70 (26.7%)
Death due to PD	30 (11.5%)	54 (20.6%)
Death due to TEAEs*	28 (10.7%)	16 (6.1%)
Death during post- treatment follow-up excluding PD and TEAEs	46 (17.6%)	37 (14.1%)
Total deaths	104 (39.8%)	107 (40.8%)

- Death due to Covid-19: 3 patients in the ibrutinib arm during the TEAE period and 2 patients in the placebo arm after the TEAE period
- Exploratory analysis of cause-specific survival including only deaths due to PD or TEAEs showed an HR of 0.88

+ BTKi Trials



Acalabrutinib plus bendamustine and rituximab in untreated MCL: Results from the phase 3, double-blind, placebo-controlled ECHO trial



Wang et al. EHA 2024; Abstract LBA 3439

Toxicity

	Acalabru (n=:	tinib + BR 297)	Placebo + BR (n=297)		
	Any grade	Grade ≥3	Any grade	Grade ≥3	
Event, n (%)					
Atrial fibrillation	18 (6.1)	11 (3.7)	13 (4.4)	5 (1.7)	
Hypertension	36 (12.1)	16 (5.4)	47 (15.8)	25 (8.4)	
Major bleeding ^a	7 (2.4)	6 (2.0)	16 (5.4)	10 (3.4)	
Infections ^b	232 (78.1)	122 (41.1)	211 (71.0)	101 (34.0)	
Second primary malignancies (excluding non-melanoma skin) ^b	29 (9.8)	16 (5.4)	32 (10.8)	20 (6.7)	

	COVID-19-related AEs			
n (%)	Acalabrutinib + BR (n=297)	Placebo + BR (n=297)		
Any AE	121 (40.7)	88 (29.6)		
Grade ≥3	60 (20.2)	50 (16.8)		
Grade 5	28 (9.4)	20 (6.7)		
SAEs	60 (20.2)	52 (17.5)		
Grade ≥3	58 (19.5)	48 (16.2)		
AE leading to acalabrutinib/ placebo discontinuation	31 (10.4)	19 (6.4)		

Treatment Paradigm in elderly and unfit untreated MCL



Clinical Case

77-year-old male with ECOG 1 with PMH sig for Afib controlled on metoprolol and apixaban, noted gradual onset fatigue and dyspnea over 6 months. Exam revealed axillary and cervical adenopathy. Work up including a CT scan revealed adenopathy above and below the diaphragm. Excisional biopsy of the inguinal node was consistent with Mantle cell lymphoma, **blastoid variant**, **ki67 70%**. Labs revealed mild anemia and thrombocytopenia, **LDH elevated**. Bone marrow biopsy positive for involvement with MCL. FISH and NGS **did not show any TP53 aberration**.

In Jan 2025 – BR plus Acalabrutinib

C1– headaches, diarrhea – Continued Acalabrutinib – supportive care

C2– Complicated by nose bleeds --- temporary interruption of Acalabrutinib and apixaban

C3 – going well thus far + symptoms have resolved + on exam no evidence of adenopathy

Next steps – If in a CR at EOT – Acalabrutinib until progression? MRD driven approach? Durability?

Management of MCL in 2025

Practice Impact

- Essential to check TP53 aberration status at diagnosis
- ASCT no longer required for young/fit patients
- Upfront treatment with 2nd generation BTKi's (BOVEN or TRIANGLE) new SOC in young/fit patients
- Upfront treatment with 2nd generation BTKi's MAY be incorporated in old/unfit patients

Lingering questions

- Treatment at relapse ? BTKi retreatment? CAR-T ?
- High-risk (esp TP53 mutation +) MCL needs novel DURABLE approaches
- CUREs still elusive need long-term follow up, clinical trials.

Roundtable Discussion



Phase II Study of Acalabrutinib with Rituximab as First-Line Therapy for Older Patients with MCL



With median follow-up of 28 months, median PFS and OS were not reached.

2-year PFS: 94% 2-year OS: 96%



A Phase I Study of Acalabrutinib + Venetoclax + Rituximab in MCL





Acalabrutinib: From cycle 1, day 1: 100 mg BID until PD or treatment discontinuation Venetoclax: From cycle 2, day 1 after ramp-up: 400 mg daily, through cycle 25 Rituximab: 375 mg/m² (day 1, 6 cycles); maintenance every other cycle for pts with CR or PR through

Progression-Free Survival **ORR 100%** 100 95% 95% By PET/CT By Lugano 90.5% Progression-free 80 10% survival (%) 29% 60 63.2% Censored by death due 40 to COVID-19 Uncensored by death due 20 90% 71% to COVID-19 15 33 36 Months No. at risk CR PR Censored by death due to COVID-19 21 2 Uncensored by death due to COVID-19 21 21 2

cycle 24

With median follow-up of 27.8 months, median PFS and OS were not reached.

1-year PFS: 90.5% (95% CI, 67.0-97.5) 2-year PFS: 63.2% (95% CI, 34.7-82.0)

1-year OS: 95.2% (95% CI, 70.7-99.3) 2-year OS: 75.2% (95% CI, 50.3-88.9)



Wang M et al. Blood Adv 2024;8(17):4539-4548.

ONS 2025 NHL

Robin Klebig, APRN, CNP, AOCNP

April 12, 2025

Scenario 4: An older patient with newly diagnosed mantle cell lymphoma (MCL) is about to start first-line treatment with acalabrutinib/BR

- What side effects can occur with ibrutinib, acalabrutinib, zanubrutinib and pirtobrutinib? What do you tell your patients about to start one of these agents about potential toxicities? How does this vary according to the specific agent?
- Bleeding/bruising (all but more common with **ibrutinib**)
 - Avoid NSAIDS due to increased risk of bleeding
- Atrial fibrillation (more common with ibrutinib)
- Hypertension (more common with **ibrutinib**)
- Ventricular arrhythmias, heart failure
- Arthralgia (more common with **ibrutinib**)
- Headache (acalabrutinib)
- Diarrhea
- Low blood counts (neutropenia, anemia, thrombocytopenia)
- Infection
- Fatigue
- Rash
- Nail changes (ibrutinib)

Nursing Considerations for Patients Receiving a BTK Inhibitor — Ms Klebig

- How do you monitor for and manage common toxicities associated with BTK inhibitors?
- <u>Bleeding/bruising</u> assess pt for bleeding/bruising; educate on risk; avoid NSAIDs; hold BTK inhibitor prior to and after surgical/invasive procedures (3-7 days depending on procedure)
- <u>A fib/HTN</u> Monitor blood pressure and symptoms of A fib (lightheadedness, palpitations, irregular or fast heart rate)
- <u>Arthralgias</u> remain active, acetaminophen, warmth, topical analgesics, avoid NSAIDs
- <u>Headache</u> acetaminophen & caffeine, hydration; reassure typically resolves after first month
- <u>Diarrhea</u> dietary modification, loperamide; reassure typically resolves after a few months
- <u>Cytopenias</u> monitor and educate pts on neutropenic precautions, monitoring for infection, bleeding risk, etc
- <u>Fatigue</u> encourage activity to maintain conditioning, balance with rest periods, prioritize activities
- <u>Nail changes</u> may try cuticle oil to nail bed, Biotin (2.5 mg daily)

An older patient w/ newly diagnosed mantle cell lymphoma starting first-line treatment with acalabrutinib/BR

- 63 yo male
- <u>PMH</u>:
 - Gout
- <u>SH</u>: Married, 2 children, ammunition specialist, enjoys fishing and golfing
- Lives 1-1/2 hrs from Mayo Clinic





Presentation – 2020

- Palpated right inguinal node
 - had been present x 2 years before reporting
- Bx: Mantle cell lymphoma
- Bone marrow: 5% involvement
- Elected to observe as asymptomatic, indolent, COVID

Progression 9/2021

- Presented to ED w/ LUQ pain radiating to Left shoulder
- CT showed splenomegaly with splenic infarct
- Bone marrow: 60% involvement by MCL
- Initiated rituximab, bendamustine, acalabrutinib per EA4181

Response

Baseline



After 6 cycles – Deauville 1



Response

- Bone marrow negative
- MRD negative

Discussion & Plan

- Options
 - Observation
 - Auto SCT
 - Maintenance rituximab
 - Consideration of clinical trial EA4151
 - If MRD (-) would randomize to rituximab maintenance or SCT f/b maintenance
- They were building their dream house on a lake wanted to enjoy the summer timing wasn't right to consider SCT
- Elected maintenance rituximab



He will complete rituximab maintenance in May 2025

Then they are off to Italy for a vacation with their family (including the grandbabies!) for their 40th wedding anniversary



Roundtable Discussion



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Module 4: Role of Tafasitamab for Patients with R/R DLBCL and Follicular Lymphoma





A patient with newly diagnosed DLBCL is about to start first-line treatment with polatuzumab vedotin/R-CHP





Advances in the First-line Treatment of Diffuse Large B-Cell Lymphoma THE UNIVERSITY OF TEXAS Christopher Flowers, MD, MS, FASCO **MDAnderson** Cancer Center Division Head **Division of Cancer Medicine** Chair, Professor Department of Lymphoma/Myeloma

Making Cancer History[®]

Case: 63 yo woman with DLBCL

Initially admitted with epidural DLBCL with compression fracture

- IR Biopsy showed ABC subtype
- PET/CT Stage IV disease with BM involvement by PET
- LDH > ULN
- LP negative

Annual Incidence of Lymphoid Cancers in the United States

DLCBL

Overall Survival

5-year

55

63

55

10-year

68

2-year

68



MD Anderson | Department of Lymphoma/Myeloma

There is unmet need for older patients

- PFS from R- mini-CHOP is not adequate: 2-yr 47%
- Only 72% received the full intended 6 cycles
- 12 deaths, 8% grade 5 toxicity
- Unmet need to improve outcome
 - ?



Polatuzumab Vedotin in Relapsed or Refractory Diffuse Large B-Cell Lymphoma J Clin Oncol. 2020

Laurie H Sehn, Alex F Herrera, Christopher R Flowers, Manali Kamdar, Andrew McMillan, Mark Hertzberg, Sarit Assouline, Tae Min Kim, Won Seog Kim, Muhit Ozcan, Jamie Hirata, Elicia Penuel, Elicia Penuel, Ji Cheng, Joseph N. Paulson, Grace Ku, Matthew Matasar





Primary endpoint: Progression-free survival *Pola-R-CHP significantly improved PFS vs R-CHOP*



HR 0.73 (P=0.02) 95% CI: 0.57, 0.95

- Pola-R-CHP demonstrated a 27% reduction in the relative risk of disease progression, relapse, or death vs R-CHOP
- 24-month PFS: 76.7% with Pola-R-CHP vs 70.2% with R-CHOP (Δ=6.5%)
- 5-year PFS:

63.1% with Pola-R-CHP vs 59.1% with R-CHOP

Tilly et al. *NEJM* 2021 Salles ASH 2024

Safety summary

Safety profiles were similar with Pola-R-CHP and R-CHOP



• ITT population. Data cut-off: June 28, 2021; median 28.2 months' follow-up. CI, confidence interval; HR, hazard ratio; NE, not evaluable; PFS, progression-free survival.

Tilly et al. NEJM 2021

Evolving Molecular Classification with Technology



MD Anderson Department of Lymphoma/Myeloma

Polatuzumab Vedotin Efficacy in DLBCL Subtypes by COO



Tot Baseline Risk Factors N		Pola-R-CHP (N=440)		R-CHOP (N=439)					
	Total N	n	2-year Rate	n	2-year Rate	Hazard Ratio	95% Wald Cl	Pola-R-CHP Better	R-CHOP Better
Age group ≤60 >60	271 608	140 300	74-1 77-9	131 308	71·9 69·5	0·9 0·7	(0-6 to 1-5) (0-5 to 0-9)		
Sex Male Female	473 406	239 201	75-9 77-7	234 205	65·9 75·2	0.7 0.9	(0-5 to 0-9) (0-6 to 1-4)	-	_
ECOG PS 0-1 2	737 141	374 66	78-4 67-2	363 75	71·2 65·0	0-8 0-8	(0-6 to 1-0) (0-5 to 1-4)		
IPI score IPI 2 IPI 3–5	334 545	167 273	79-3 75-2	167 272	78-5 65-1	1·0 0·7	(0-6 to 1-6) (0-5 to 0-9)		
Bulky disease Absent Present	494 385	247 193	82·7 69·0	247 192	70·7 69·7	0·6 1·0	(0-4 to 0-8) (0-7 to 1-5)	-	
Geographic region Western Europe, United States, Canada, and Australia Asia Rest of world	603 160 116	302 81 57	78.6 74.3 70.8	301 79 59	72.0 65.6 67.3	0.8 0.6 0.9	(0-6 to 1-1) (0-4 to 1-5) (0-6 to 1-5)		4 14
Ann Arbor stage I–II III IV	99 232 548	47 124 269	89-1 80-7 72-6	52 108 279	85-5 73-6 66-1	0.6 0.8 0.8	(0-2 to 1-8) (0-5 to 1-3) (0-6 to 1-1)		
Baseline LDH ≤ULN >ULN	300 575	146 291	78-9 75-4	154 284	75-6 67-2	0·8 0·7	(0-5 to 1-3) (0-5 to 1-0)		
No. of extranodal sites 0–1 ≥2	453 426	227 213	80-2 73-0	226 213	74·5 65·8	0·8 0·7	(0.5 to 1.1) (0.5 to 1.0)		
Cell-of-origin GCB ABC Unclassified Unknown	352 221 95 211	184 102 44 110	75-1 83-9 73-0 73-8	168 119 51 101	76-9 58-8 86-2 64-3	1.0 0.4 1.9 0.7	(0-7 to 1-5) (0-2 to 0-6) (0-8 to 4-5) (0-4 to 1-2)		
Double expressor by IHC DEL Non DEL Unknown	290 438 151	139 223 78	75-5 77-7 76-0	151 215 73	63-1 75-7 69-8	0.6 0.9 0.8	(0-4 to 1-0) (0-6 to 1-3) (0-4 to 1-5)		
Double- or triple-hit lymphoma Yes No Unknown	45 620 214	26 305 109	69-0 76-8 78-5	19 315 105	88-9 70-3 66-4	3·8 0·7 0·6	(0-8 to 17-6) (0-5 to 1-0) (0-4 to 1-1)		••
							(25	1 5

Tilly et al. NEJM 2022

Palmer et al. NEJM 2023

Take Home Points & Future Directions

- Molecularly targeted therapy for DLBCL
 - Needs new testing approaches
 - Need to consider all factors that influence outcomes

Roundtable Discussion



Nursing Considerations for Patients Receiving Polatuzumab Vedotin

Caitlin Murphy DNP, FNP-BC, AOCNP

1st Line Treatment: Diffuse Large B Cell Lymphoma

• R-CHOP

- Rituximab (CD-20 mab)
- Cyclophosphamide (Alkylating Agent)
- Doxorubicin (Anthracycline)
- Vincristine (Vinca alkaloid)
- Prednisone (Steroid)

• R-Pola-CHP

- Rituximab (CD-20 mab)
- Cyclophosphamide (Alkylating Agent)
- Doxorubicin (Anthracycline)
- **Polatuzumab vedotin** (CD-79 monoclonal ab)
- Prednisone (Steroid)
Adverse Effects/Common Toxicities

- Monitor for HSR reaction
- Peripheral Neuropathy—may occur with first cycle and it is cumulative!
 - Monitor this over time with each cycle
 - ADLs (texting/typing on phone, signature, buttons on clothing, jewelry)
- Febrile Neutropenia
- Infection—URIs
 - Vaccinate prior to initiation of treatment if feasible
- Hematological AEs
 - Most notable: lymphopenia followed by anemia, neutropenia & thrombocytopenia
- GI--low rates of diarrhea but more notable than in R-CHOP arm
- Fatigue
 - Exercise!

Supportive Care

- Premedicate patients with an antihistamine and antipyretic at least 30 to 60 minutes prior to infusion to help mitigate infusion-related reactions
- Prophylaxis with granulocyte colony-stimulating factor (G-CSF)
- Pneumocystis jiroveci pneumonia and herpesvirus prophylaxis throughout treatment
- Tumor lysis prophylaxis
- DDI interactions
 - CYP3A Inhibitors---monitor for signs of toxicity
 - CYP3A Inducers---may decrease unconjugated MMAE AUC

Dosing Schedule

- 21-day cycle x 6 cycles
- Polatuzumab vedotin
 - Cycle 1: Infused over 90 minutes with 90-minute post infusion monitoring
 - If tolerated, increase rate to 30 minutes with 30-minute post infusion monitoring

Meet the patient

- 64 y/o male presents to local PCP with persistent right hip pain concerning for labral tear, arthritis
- Core needle biopsy of RP node which demonstrates diffuse large B-cell lymphoma (non GCB subtype)
- LDH elevated at 313
- Renal function preserved with creatinine
 0.91 on baseline labs



Interim PET

- Patient reports
 - Fatigue
 - Mild nausea controlled with anti-emetic regimen
 - Aprepitant
 - Palonosetron
 - Olanzapine
 - Grade 1-2 neuropathy in fingertips



EOT PET

Treatment related symptoms:

- Improvement in fatigue
- Gradual improvement in neuropathy (numbness, tingling)



Roundtable Discussion



Agenda

Introduction: Overview of Bispecific Antibodies and Chimeric Antigen Receptor T-Cell Therapy for Non-Hodgkin Lymphoma

Module 1: Current and Future Use of Bruton Tyrosine Kinase Inhibitors for Mantle Cell Lymphoma

Module 2: First-Line Therapy for Diffuse Large B-Cell Lymphoma (DLBCL)

Module 3: Role of Loncastuximab Tesirine for Patients with Relapsed/Refractory (R/R) DLBCL

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A patient with R/R DLBCL is about to start treatment with loncastuximab tesirine





Understanding the Current Paradigm and New Approaches in the Care of Patients with Non-Hodgkin Lymphoma

Manali Kamdar, MD, MBBS

Associate Professor of Medicine, Clinical director of lymphoma services, Morton and Sandra Saffer Endowed Chair in Hematology Research, Division of Hematology, University of Colorado



ONS congress, RTP Symposium, 4/12/2025

Role of Loncastuximab Tesirine for Patients with R/R DLBCL

Clinical Case

- 65 yo male with ECOG 1 with PMH sig for CAD (stent in 2009) on aspirin, HTN, DM on insulin, Neuropathy grade 2 on gabapentin. Diagnosed in 2023 with Stage III DLBCL, GC subtype, FISH normal treated from 4/2023-8/2023 achieved a CR. Unfortunately, relapsed in 6/2024 with biopsy proven Stage III DLBCL. Underwent Apheresis, bridging therapy with R-Gem-Ox and then received CAR-T cell therapy with Lisocel in 8/2024. Course complicated by Grade 2 CRS from which he fully recovered. D90 PET CT in 11/2024 showed a CR.
- PET CT at the 6-month mark post-CAR in 2/2025 showed disease progression.
- Biopsy confirms Localized DLBCL- CD19 +ve, CD20 -ve.
- ECOG 1, Counts normal.
- Next steps ---- ?

Treatment Algorithm for R/R DLBCL in 2025



Kamdar et al ASH Education book 2023

Mechanism of Action of Loncastuximab Tesirine



Target- CD19, Cytotoxin- PBD

LOTIS-2: The Pivotal Phase 2 Open-Label Study

Primary Endpoint: Overall response rate (ORR) by IRC

N=145,

R/R DLBCL (including Transformed lymphoma) after ≥2 prior LOT,

Median age 66 (23-94), mLOT 3 (2-7),

Primary Refractory – 20%; Refractory to last rx 60%,

Prior CD19-CAR- 10% (n=14- all had CD19 expression)

Lonca was administered as a single, 30-minute infusion Q3W

Premedication Dexamethasone 4 mg (oral or intravenous) twice daily for 3 days beginning the day before Lonca infusion (unless contraindicated)

If dexamethasone administration does not begin the day before Lonca, it should begin at least 2 hours prior to Lonca infusion



LOTIS-2: Final Efficacy Results (N=145)

Median FU 7.8 months (0.3 - 42m)



Median Lonca cycles: 3.0 (1-26) Median Lonca cycles for CR: 8.0 (1-26); Median Time to Response: 41 days (35-247)



Safety

	All-treated Population (N = 145)			All-treated Population (N = 145)	
	All grades, n (%)	Grade ≥3, n (%)		All grades, n (%)	Grade ≥3, n (%)
Any TEAE	143 (98.6)	107 (73.8)	Increased ALT	22 (15.2)	4 (2.8)
Increased GGT	61 (42.1)	25 (17.2)	Decreased appetite	22 (15.2)	-
Neutropenia	58 (40.0)	38 (26.2)	Leukopenia	21 (14.5)	13 (9.0)
Thrombocytopenia	48 (33.1)	26 (17.9)	Hypomagnesemia	20 (13.8)	1 (0.7)
Fatigue	40 (27.6)	2 (1.4)	Pruritus	19 (13.1)	-
Anemia	38 (26.2)	15 (10.3)	Rash	19 (13.1)	1 (0.7)
Nausea	34 (23.4)	-	Vomiting	19 (13.1)	-
Cough	33 (22.8)	1 (0.7)	Abdominal pain	17 (11.7)	4 (2.8)
Increased blood ALP	29 (20.0)	1 (0.7)	Constipation	17 (11.7)	-
Peripheral edema	29 (20.0)	2 (1.4)	Dyspnea	17 (11.7)	2 (1.4)
Pyrexia	28 (19.3)	2 (1.4)	Insomnia	16 (11.0)	-
Diarrhea	25 (17.2)	3 (2.1)	Pleural effusion	16 (11.0)	3 (2.1)
Increased AST	23 (15.9)	1 (0.7)	Erythema	15 (10.3)	1 (0.7)
Hypokalemia	23 (15.9)	6 (4.1)	Headache	15 (10.3)	1 (0.7)
Hypophosphatemia	23 (15.9)	8 (5.5)	Photosensitivity reaction	15 (10.3)	3 (2.1)

Rx Discontinuation – 19% Dose Interruption – 50% Dose Reduction – 8%

Management Pearls

Sun Protectants Euvolemia- Diuretics Dexamethasone

Sequencing with CD19- CAR-T cell therapies

CD19 CAR → Lonca-T

1) Subgroup Analysis LOTIS-2 N=14, CR=3, PR=3

Subgroup	Patients	(n/N)	ORR	ORR (95% CI)
Prior CAR-T therapy Yes No	6/14 64/131	0.0 0.	2 0.4 0.6 0.8 1.	42.9 (17.7, 71.1) 48.9 (40.0, 57.7) 0

Lonca 3L and 4L After Prior CAR-T¹

2) Multicenter Retrospective Study¹



Duration of Posponso	Lonca in 3L	Lonca in 4L	
	(n = 95)	(n = 23)	
Median DOR (95% CI)	NR (8, NR)	7.6 (6.0, 8.9)	
12-month DOR, %	68	22	

Lonca-T → CD19-CAR-T

1) Retrospective analysis- LOTIS-2

N=14, 10/14 CD19+, 4 UK CR= 6/14 (43%), PR= 1/14

2) CIBMTR Registry Study²

Doct Doctoon to	Lonca Therapy Type			
CAR-T Therapy, %	Last LOT n = 5	BT n = 11	N =16	
Complete remission	60	36	44	
Partial remission	0	27	19	
No response/stable disease	20	18	19	
Progressive disease	20	18	19	

1.Epperla, et al. Tandem 2024/*Blood Cancer J* 2024 2.Hamadani, et al. Tandem 2024/*eJHaem* 2024

Clinical Case

- 65 yo male with ECOG 1 with PMH sig for CAD (stent in 2009) on aspirin, HTN, DM on insulin, Neuropathy grade 2 on gabapentin. Diagnosed in 2023 with Stage III DLBCL, GC subtype, FISH normal treated from 4/2023-8/2023 achieved a CR. Unfortunately, relapsed in 6/2024 with biopsy proven Stage III DLBCL. Underwent Apheresis, bridging therapy with R-Gem-Ox and then received CAR-T cell therapy with Lisocel in 8/2024. Course complicated by Grade 2 CRS from which he fully recovered. D90 PET CT in 11/2024 showed a CR.
- PET CT at the 6-month mark post-CAR in 2/2025 showed disease progression.
- Biopsy confirms Localized DLBCL- CD19 +ve, CD20 -ve.
- ECOG 1, Counts normal.

- Next steps --- Initiated Single Agent Lonca-T in February 2025
- March 2025 Isolated adenopathy clinically smaller
- Next questions Is in CR --- Allo SCT ?? Or continue Lonca-T ??

Roundtable Discussion



ONS 2025 NHL

Robin Klebig, APRN, CNP, AOCNP

April 12, 2025

Scenario 2: A patient with R/R DLBCL is about to start treatment with loncastuximab tesirine

- What do you tell your patients about to start treatment with loncastuximab tesirine about how it works and why they are receiving it?
- Your lymphoma has not responded to prior traditional chemotherapy this drug is indicated for relapsed/refractory DLBCL after 2 or more lines of systemic therapy
- Clinical studies have shown 48% overall response rate and 24% CR in patients with relapsed/refractory DLBCL
- Antibody-drug conjugate (monoclonal antibody and chemotherapy drug)
 - Monoclonal antibody targets CD19 on surface of the lymphoma cells
 - Once bound to the cell, the drug is internalized by the cell and chemotherapy component is released inside the cancer cell, causing DNA damage that leads to the cancer cell death
- The drug is given intravenously over 30 minutes every 3 weeks
 - 0.15 mg/kg for first 2 cycles
 - smaller dose (0.075 mg/kg) for subsequent cycles
- Treatment will continue until disease progression or unacceptable toxicity

Scenario 2: A patient with R/R DLBCL is about to start treatment with loncastuximab tesirine

- What side effects can occur with loncastuximab tesirine? What do you tell your patients about to start loncastuximab tesirine about potential toxicities?
- Common side effects include
 - Nausea
 - Fatigue
 - Cytopenias (anemia, neutropenia, thrombocytopenia)
 - Liver enzyme abnormalities (GGT)
 - Edema
 - Effusions
 - Shortness of breath
 - Severe cutaneous reactions/photosensitivity
- You will be premedicated with dexamethasone to reduce risk of side effects (fluid retention)
 - Dexamethasone 4 mg twice daily x 3 days <u>beginning day before loncastuximab infusion</u>
 - If dexamethasone does not begin day before loncastuximab, should begin at least 2 hours prior to infusion
- Avoid sun exposure, wear protective clothing, use sunscreen

Nursing Considerations for Patients Receiving Loncastuximab Tesirine — Ms Klebig

- How do you monitor for and manage common toxicities associated with loncastuximab tesirine?
 - Premedicate with antiemetic
 - Monitor labs (CBC)
 - Hold if ANC <1.0, consider G-CSF
 - education on neutropenic precautions and infection monitoring
 - Hold if plts <50,000
 - education on s/s bleeding/bruising
 - Monitor LFTs (GGT)
 - Hold if grade 3 (>5.0-20.0 ULN)
 - Potential for pleural/pericardial effusions
 - Monitor for swelling, weight gain, respiratory symptoms
 - May require dose delay or modification if <u>Grade 2</u> or higher edema/effusion
 - Diuretics may be required
 - Dexamethasone education/administration
 - Extravasation may cause irritation, swelling, pain, and/or tissue damage
 - Monitor phosphorus
 - May require replacement

A patient who received loncastuximab for R/R DLBCL

- 74 yo male
- <u>PMH</u>:
 - Chronic ischemic heart disease, CAD s/p LAD stent, ICD, unstable angina
 - DVT/PE w/ Factor V Leiden on clopidogrel, warfarin, ASA s/p IVC filter
 - DM2
 - COPD
 - Parkinson's disease
 - Splenic marginal zone NHL s/p 6 doses of rituximab 15 mos prior
- <u>SH</u>: Widowed, 2 children, retired factory worker, enjoys fishing and gambling
- Lives 1-1/2 hrs from Mayo Clinic







DLBCL presentation

- Presented to local ED with abdominal pain, SOB
- <u>PE</u>: Splenomegaly
- <u>Labs</u>:
 - Hgb 9.0, plts 49K, ANC 1.23
- <u>CT</u>: splenic infarct, external iliac lymphadenopathy
- Transferred to Mayo Clinic
- Rough hospital course, splenectomy planned but respiratory failure >> ICU



Thankfully, another "hot spot" to biopsy

- Lymph node, Right axillary, core bx: Diffuse large B-cell lymphoma
- <u>COMMENT</u>: CD5 expression on the tumor suggests transformation from previously diagnosed CD5-positive low-grade B-cell lymphoma
- Non-GCB, double-expressor of MYC and BCL2
- FISH negative for MYC, BCL2 and BCL6 rearrangements



Treatment course

- Rituximab and methylprednisolone
 - While awaiting biopsy results

- R-CEOP x 6 cycles
 - Anthracyclines avoided due to significant cardiac history
 - Rituximab, cyclophosphamide, etoposide, vincristine, prednisone

Response

Baseline



After 6 cycles R-CEOP – Deauville 2



Response

Baseline

• <u>Bone marrow</u>: 60% involved by mixed small B cell and large B cell lymphoma

After 6 cycles R-CEOP

 Bone marrow: Minimal involvement by B-cell lymphoma (less than 5%), similar to previously described with large B cell lymphoma involvement

Refractory DLBCL

- Options discussed
 - Polatuzumab/BR
 - Tafasitamab/lenalidomide
 - Loncastuximab
 - Selinexor
 - Not a candidate for clinical trial due to cardiac disease
- Selected loncastuximab due to schedule (1 day every 3 weeks)

Loncastuximab course

- Tolerated well
- Bone marrow repeated after 6 cycles negative
- Elected to hold/discontinue treatment since CR and had multiple other comorbidities
 - GI bleed due to AVMs, ulcers, anticoagulation
 - COPD
 - Cardiac issues
- Expired 6 months later due to COPD exacerbation, heart failure

Roundtable Discussion



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A patient with R/R DLBCL is about to start treatment with tafasitamab/lenalidomide





Relapsed/RefractoryDiffuse Large B-Cell LymphomaChristopher Flowers, MD, MS, FASCODivision HeadDivision of Cancer MedicineChair, ProfessorDepartment of Lymphoma/Myeloma

THE UNIVERSITY OF TEXAS MDAnderson Cancer Center

Making Cancer History[®]
Case: 72 yo man with DLBCL

- Initially diagnosed with DLBCL at age 66 with extensive retroperitoneal disease treated on protocol with R-CHOP + X.
 Tolerated therapy well with the exception of being admitted twice for neutropenic fever. Improved on empiric antibiotics, Cultures negative.
- Experienced relapse at 28 months and received autologous SCT with PD on EOT scan and then received CAR T cell therapy
- Now returns 3 years later with a new inguinal LN biopsy proven to be relapsed DLBCL with ABC subtype and here for initiation of next line of therapy

Who are "old" patients?

- Definition
 - 65: American Society of Clinical Oncology
 - 70: International Society of Geriatric Oncology
- Importance of assessment of functional status
 - Chronological age is less important
 - Geriatric assessment
 - Not standardized
 - Provides challenge in interpreting trial or research results
- SEER-Medicare study
 - 57% of patients age >85 only received palliative care or no treatment
- MD Anderson Department of Lymphoma/Myeloma

Not Everyone Will Benefit from CAR-T



Predictive factors associated with poor outcome following CAR T-cell therapy:

- \geq 2 extranodal sites
- TMTV > 80 mL
- Elevated LDH

Selected Therapies Approved in R/R DLBCL

	Pola-BR	Selinexor	Tafasitamab/Lenalidomide	Loncastuximab Tesirine
MOA	Anti-CD79b ADC	XPO-1 inhibitor	Anti-CD19 mAb/Immunomodulator	Anti-CD19 ADC
ORR	45%	28%	58%	48%
CR rate	40%	10%	40%	24%
PFS	9.2 m	2.6 m	11.6 m	4.9 m
DOR	12.6 m	9.3 m	43.9 m	10.3 m
OS	12.4 m	NR	33.5 m	9.9 m

Novel salvage regimens may improve outcomes with ASCT

Sehn LH et al. *Blood Adv*. 2022;6(2):533-543. Kalakonda N et al. *Lancet Haematol*. 2020;7(7):e511-e522. Duell J et al. *Haematologica*. 2021;106(9):2417-2426. Caimi PF et al. *Lancet Oncol*. 2021;22(6):790-800.

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Tafasitamab Mechanism of Action



Lenalidomide enhances NK cell function with enhanced ADCC *in vitro*



Salles G et al. *Lancet Oncol* 2020;21(7):978-88.

Tafasitamab + Lenalidomide: Outcomes



Characteristics	Primary analysis	3-year follow-up	Final 5-year data
Data cut-off date	Nov 30, 2018	Oct 30, 2020	Nov 14, 2022
Best ORR, N (%)	48 (60.0)	46 (57.5)	46 (57.5)
[95% Cl]	[48.4-70.9]	[45.9-68.5]	[45.9-68.5]
CR rate, N (%)	34 (42.5)	32 (40.0)	33 (41.3)
[95% Cl]	[32.0-54.0]	[29.2-51.6]	[30.4-52.8]
PR rate, N (%)	14 (17.5)	14 (17.5)	13 (16.3)
[95% Cl]	[10.0-28.0]	[9.9-27.6]	[8.9-26.2]

MD Anderson Department of Lymphoma/Myeloma

Tafasitamab + Lenalidomide: Safety



- 37 patients (43%) required lenalidomide dose reduction
- 62/80 patients (78%) were able to stay at dose \geq 20mg/d

^aAE collection period included 30 days after end of treatment AEs, adverse events; LEN, lenalidomide; TEAEs, treatment-emergent AEs.

- Incidence and severity of TEAEs are lower during the tafasitamab monotherapy phase
- Ten patients (12%) discontinued tafasitamab + LEN because of AEs

inMIND study: phase 3, tafa-R2 vs R2



Stratification Factors (Patients With FL)

- POD24
- Refractoriness to prior anti-CD20 mAb therapy
- Number of prior lines of therapy (1 or ≥2)

Study Endpoints in FL Population (Investigator Assessed Unless Specified)

- Primary study endpoint: PFS
- Key secondary: PET-CR rate in the FDG-avid population, OS
- Select other secondary: PFS by IRC, ORR, DOR, safety, QoL, MRD
- Exploratory: TTNT, B-cell recovery, Ig levels, CD19 expression

inMIND study: phase 3, tafa-R2 vs R2 Primary endpoint: PFS



Significant improvement in PFS was observed with tafasitamab

Roundtable Discussion



Nursing Considerations for Patients Receiving Tafasitamab

Caitlin Murphy DNP, FNP-BC, AOCNP

Tafasitamab plus lenalidomide

- Adult patients with relapsed or refractory diffuse large B-cell lymphoma
- DLBCL arising from low grade lymphoma, and who are <u>not</u> eligible for autologous stem cell transplant

Schedule of Administration

- Dosage of is 12 mg/kg as an intravenous infusion
- Cycle 1: Days 1, 4, 8, 15 and 22 of the 28-day cycle
- Cycles 2 and 3: Days 1, 8, 15 and 22 of each 28-day cycle
- Cycle 4 and beyond: Days 1 and 15 of each 28-day cycle
- Administer tafa in combination with lenalidomide for a maximum of 12 cycles
- Lenalidomide 25 mg/day days 1-21 of 28 day cycle
- May continue tafa monotherapy until disease progression or unacceptable toxicity

Adverse Effects/Common Toxicities

- Monitor for to minimize infusion-related reactions
 - Administer premedication 30 minutes to 2 hours prior to starting infusion
 - Acetaminophen
 - histamine H_1 receptor antagonists
 - histamine H₂ receptor antagonists
 - and/or glucocorticosteroids
- Hematological AEs
 - Most notable: neutropenia, anemia, thrombocytopenia and then febrile neutropenia
- Infection—
 - Respiratory tract infections
 - UTIs
 - Bronchitis
- GI-diarrhea (36%)
- Peripheral Neuropathy
- Fatigue
 - Exercise!

Tafasitamab package insert.

Supportive Care

- 80% of infusion-related reactions occurred during cycle 1 or 2
- Monitor CBC prior to administration of each treatment cycle and throughout treatment.
- Monitor patients with neutropenia for signs of infection
- Consider granulocyte colony-stimulating factor (G-CSF) support

Lenalidomide Supportive Care

- REMS program
- May cause birth defects or embryo-fetal death
 - Counseling around safe sex practices for male and female sex patients
- Significantly increased risk of deep vein thrombosis (DVT) and pulmonary embolism (PE)
 - Anti-thrombotic prophylaxis is recommended
- Cytopenias—Neutropenia and Thrombocytopenia
 - HSV prophylaxis

- 72 y/o woman with notable history of IBS, HTN, HLD, and arthritis who presented with weight loss and bloating
- Underwent CT which demonstrated retroperitoneal mass about 5 x 5 cm with highest SUV 12 and pulmonary nodules
- IR guided biopsy and pathology consistent with DLBCL
- Received 6 cycles of R-CHOP
- EOT PET with persistent lung nodules

- Ongoing surveillance with intermittent imaging when patient noted waxing/waning cervical nodes, stable pulmonary nodes
- In 2024, cervical nodes increasing on exam; small axillary and RP nodes; biopsy consistent with DLBCL
- Treatment considerations:
 - Location of care
 - Caregiver support
 - Goals of care and intensity of treatment

- Community based clinic setting close to home
- No change in location of care—team consistent across all lines of therapy
- Limited caregiver support and able to have multiple caregivers for various appointments and family, friends could support patient in ways suited to their abilities

- HSR with cycle 1 day 1 as fever, chills, flushing
 - Managed with rescue medications; able to tolerate subsequent infusions
- Lenalidomide
 - Dose reductions over first 3 cycles and maintained 10 mg dosing
- Interim restaging PET with PR
- Continued with 12 cycles and is in ongoing surveillance with stable pulmonary nodes

Roundtable Discussion



Understanding the Current Paradigm and New Approaches in the Care of Patients with Cancer

A Complimentary NCPD Hybrid Symposium Series Held During the 50th Annual ONS Congress

Non-Hodgkin Lymphoma

Saturday, April 12, 2025 6:00 PM – 7:30 PM

Faculty

Christopher Flowers, MD, MS Manali Kamdar, MD, MBBS Robin Klebig, MSN, APRN, CNP, AOCNP Caitlin Murphy, DNP, FNP-BC, AOCNP Moderator

Neil Love, MD



Thank you for joining us! Please take a moment to complete the survey currently up on Zoom. Your feedback is very important to us. The survey will remain open up to 5 minutes after the meeting ends.

To Claim NCPD Credit In-person attendees: Please refer to the program syllabus for the NCPD credit link or QR code.

Virtual attendees: The NCPD credit link is posted in the chat room.

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