

EHA-MSH Hematology Tutorial

Clinical Case – Session 4: Managing First Relapse & Refractory Disease with Intention to Cure Speaker: Dr Hany Haqimi Wan Hanafi

Kuala Lumpur, Malaysia April 17-18, 2024

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Disclosure

• The presenter has no conflicts of interest to disclose as related to companies or products mentioned in this presentation



| Learning objectives

Following participation in this activity, attendees will be able to:

- Discuss the limitations and challenges in treating relapsed/refractory Hodgkin lymphoma in the setting of limited access to novel agent-based salvage regimens
- Identify the best strategy for salvage treatment in relapsed/refractory Hodgkin lymphoma prior to ASCT
- Describe the most appropriate timing of ASCT and potential alternatives



| Clinical history

- 33-year-old female patient
- Background bronchial asthma and eczema; ECOG PS of 0



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May of 2022

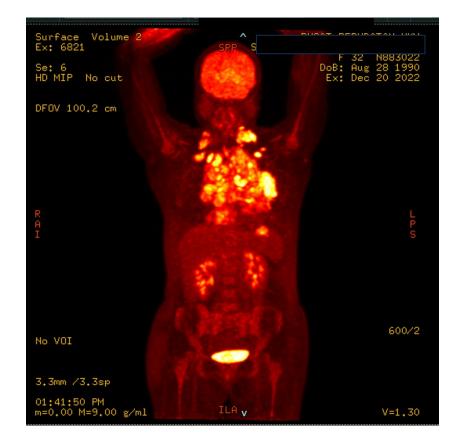
- Symptoms and signs of superior vena cava obstruction
- Plain radiography reveals bulky mediastinum
- Tissue (mediastinum mass) biopsy performed showed
 - Nodular sclerosis Hodgkin lymphoma
- No data on subsequent staging
- Patient is not keen on chemotherapy; defaulted from follow-up

| Clinical history

December of 2022

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- Patient presented in our hospital with worsening compressive symptoms (i.e. chronic cough)
- Pre-phase low-dose cyclophosphamide × 5/7
- PET/CT (re-staging) on December 20, 2022
 - Multiple hypermetabolic supradiaphragmatic nodal groups (SUV_{max} 4.5–9.6)
 - Hypermetabolic (SUV_{max} 9.6) consolidation at anterior segment and lingular segment of left-upper lobe
 - $8.4 \times 4.7 \times 7.1$ cm
 - Moderate bilateral pleural effusion with low-level FDG uptake
 - Diffuse hypermetabolic marrow (SUV_{max} 3.1)



Diagnosis

- Nodular sclerosis Hodgkin lymphoma
- Stage 4A (advanced stage, bulky mediastinum)
- IPS score of 4:
 - 5-years PFS: 67%
 - 5-year OS: 85%



Moccia AA, *et. al.* International Prognostic Score in advanced-stage Hodgkin's lymphoma: altered utility in the modern era. J Clin Oncol. 2012 Sep 20;30(27):3383-8.

| Treatment history (first line)

Date	Regime/cycle	Remarks/complication
December 21, 2022	BEACOPP cycle 1	 Left-lobar pneumonia Bronchoscopy (January 1, 2023) BAL: Negative for malignancy Culture was AFB-, MTB-, and Aspergillus Ag-negative
January 20, 2023	BEACOPP cycle 2	Non-neutropenic sepsis (right lower-limb cellulitis)
February 21, 2023	 Interim PET/CT Considered as partial response (PET⁺ with residual CT lesions) One right-supraclavicular node remained (stable in size), but showed increased metabolic activity (SUV_{max} 6.5 → 10.1; Deauville score of 4) 	



| Interim PET/CT (after 2 cycles of BEACOPP)

/3.3sp

M=9.00 g/ml

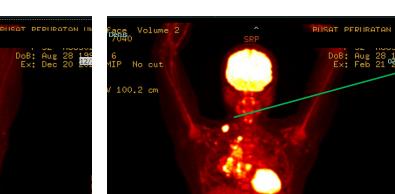
Staging (December 21, 2023)

Volume

Mad Denus

5e: 6 HD MIP No cut

DFOV 100,2 cm



Interim (February 21, 2023)

February 27, 2023
Biopsy of right
supraclavicular node reveals:
Atypical cells
Positive for CD30
Negative for CD20, CD3, MUM1, PAX 5, BOB-1, OCT-2

• CD15 was inconclusive

V=1



No VOI

3.3mm /3.3sp

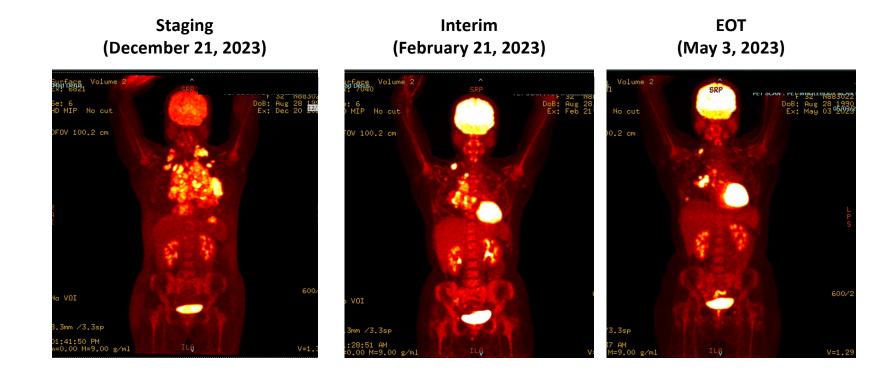
41:50 PM 0.00 M=9.00 g/ml

| Treatment history (first line)

Date	Regime/cycle	Remarks/Complication
February 28, 2023	BEACOPP cycle 3	Uneventful
March 28, 2023	BEACOPP cycle 4	Uneventful
May 3, 2023	 EOT-PET/CT Some lesions have resolved, some with background metabolic activity, some with increased metabolic activity New additional hypermetabolic right-hilar node → persistent PET/CT positive 	



| PET/CT (after 4 cycles of BEACOPP)



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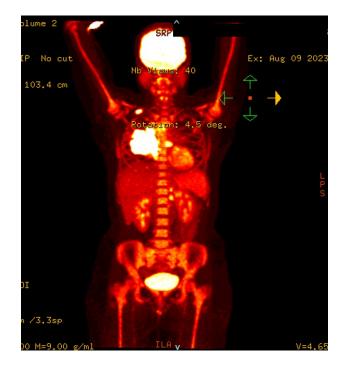
| Treatment history (second line)

Date	Regime/cycle	Remarks/complication
May 29, 2023	BMAT: no lymphomatous infiltration	
May 30, 2023	ICE cycle 1	Uneventful
July 4, 2023	ICE cycle 2	Uneventful
August 9, 2023	 PET/CT (after 2 cycles of ICE) Progressive disease Supradiaphragmatic nodes Mixed response (background metabolic activity + increasing metabolic activity) New hypermetabolic abdominal nodes New hypermetabolic patchy nodular opacities in right lung 	



Re-biopsy

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August 18, 2023

- CT-guided biopsy of right-lung mass
- HPE → in favor of extranodal classical Hodgkin lymphoma, nodular sclerosis subtype

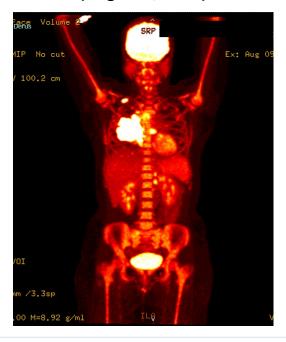
| Treatment history (third line)

Date	Regime/cycle	Remarks/complication	
September 5, 2023	BV-DHAP cycle 1	Uneventful	
September 27, 2023	BV-DHAP cycle 2	Uneventful	
November 15, 2023	 PET/CT (after 2 cycles of BV-DHAP) Overall partial response (PET⁺) with lung inflammation Mixed areas of improved lung inflammation with new sites → stable lung changes 		
December 27, 2023	BV-DHAP cycle 3 (plus G-CSF stem-cell mobilization)	 Infection Enterobacter cloacae bacteremia Treated; responded well to antibiotics Stem-cell harvest on January 9, 2024 12.8 × 10⁶ cells/kg 	
January 2, 2024	BV-DHAP cycle 4	Uneventful	
	PET/CT (after 4 cycles of BV-DHAP): Pending		

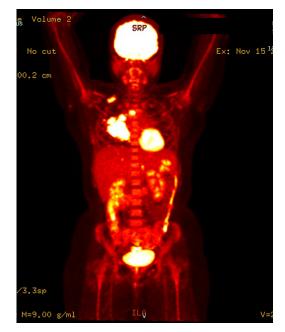


| PET/CT (after 2 cycles of BV-DHAP)

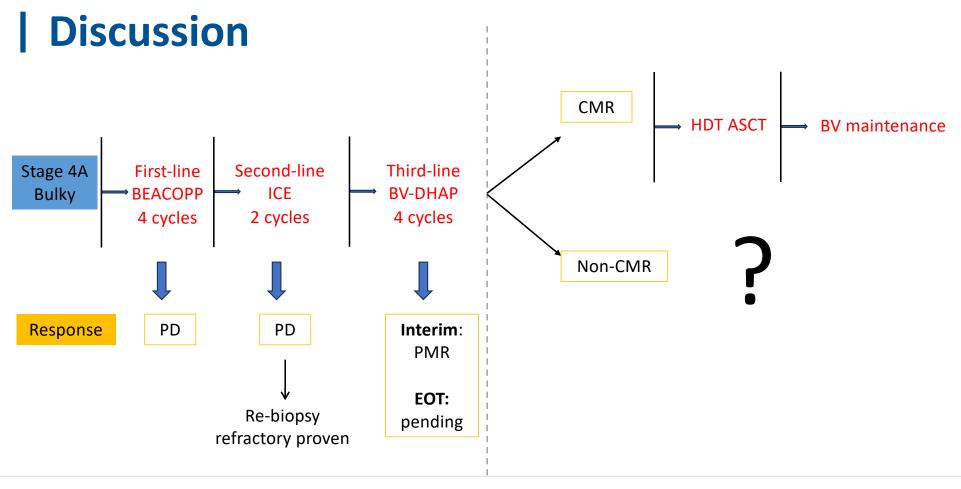
Before BV-DHAP (August 9, 2023)



After 2 cycles of BV-DHAP (November 15, 2023)



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Discussion: Disease refractory to at least 3 prior lines of therapy

Options

- Immune checkpoint inhibitor therapy
 - Pembrolizumab or nivolumab \pm systemic chemotherapy \pm radiotherapy
- HDT ASCT followed by BV maintenance
- Clinical trial enrollment
 - i.e. anti-CD30 CAR-T cell therapy

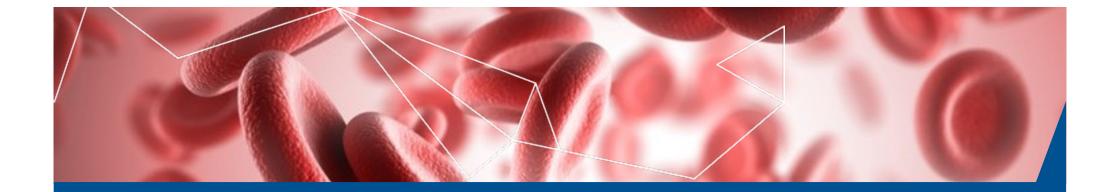


Discussion: Disease refractory to at least 3 prior lines of therapy

Challenges

- Limited access to novel agents
- Novel agents are approved and registered in Malaysia; however, not fully funded by the government
 - Self-funding
 - NGOs
 - Special application under government or local authorities
 - For government-sector staff





Thank you



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