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INITIAL EVALUATION

Note: Consider Clinical Trials as treatment options for eligible patients.

PATHOLOGIC DIAGNOSIS

ESSENTIAL: • Physical exam: attention to node-bearing areas, including Waldeyer's ring, and to size of liver and spleen **ESSENTIAL:** • ECOG performance status • Hematopathology review of all slides with at least one paraffin • B symptoms (Unexplained fever >38°C during the previous month; block or 15 unstained slides representative of the tumor. Rebiopsy if Recurrent drenching night sweats during the previous month; Weight consult material is nondiagnostic. loss > 10 percent of body weight ≤ 6 months of diagnosis) • Adequate morphology and immunophenotyping to establish • CBC with differential, LDH, BUN, creatinine, albumin, AST, diagnosis¹ ALT, total bilirubin, alkaline phosphatase, serum calcium, uric acid • Paraffin Panel: CD3, CD20 and/or another pan-B-cell marker • Beta 2 microglobulin (CD19, PAX-5, CD79a) or • Screening for HIV 1 and 2, hepatitis B and C (HBcAb, HBsAg, HCV Ab) • Flow cytometry immunophenotypic studies: CD54 (LCA), CD3, • Chest x-ray, PA and LAT CD5, CD10, CD19, CD20, CD22, kappa and lambda light chains See Page 2, • CT with contrast of neck, chest, abdomen and pelvis • Additional immunohistochemical studies to determine subgroup: Induction • Unilateral or bilateral bone marrow biopsy with or without aspirate PD-L1/L2, CD5, CD10, CD15, CD23, CD54, CD79a, BCL-2, Therapy • Calculation of IPI² BCL-6, MUM-1/IRF4, and MIB1 (Ki67), • Muga scan³ or echocardiogram **OF USE IN CERTAIN CIRCUMSTANCES:** • PET/CT • EBER in situ hybridization, LMP-1, HHV-8, CD138, CD30, TdT • Discuss fertility issues and sperm banking for patients of child bearing and ALK1 potential • FISH studies to detect gene rearrangements; involving: MYC, BCL-2 • Lifestyle risk assessment⁴ and/or BCL-6 **OF USE IN SELECTED CASES:** • Molecular studies to detect clonality of the IgH gene • CT or MRI of head **STRONGLY RECOMMENDED:** • Pregnancy test • FNA or core biopsy for tissue array/banking by protocol • Consider lumbar puncture and intrathecal chemotherapy if paranasal sinus, testicular, epidural, ≥ 2 extranodal sites, or if IPI² score ≥ 3 • Consider thoracentesis if clinically indicated ¹ Typical immunophenotype: diffuse positivity for CD20 or another pan B-cell marker

² See Appendix A: International Prognostic Index (IPI)

³ Muga scan may be omitted for young patients receiving limited anthracycline

⁴ See Physical Activity, Nutrition, and Tobacco Cessation algorithms; ongoing reassessment of lifestyle risks should be a part of routine clinical practice

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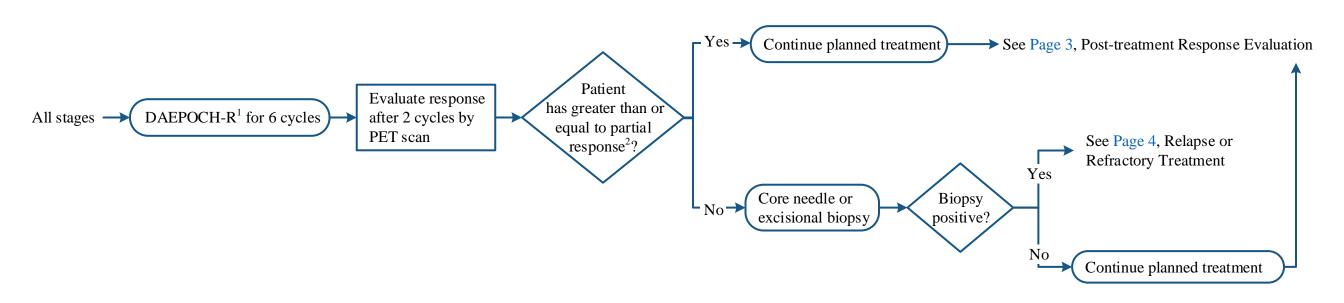
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INDUCTION THERAPY



¹ DAEPOCH-R: dose adjusted EPOCH-R: etoposide, prednisone, vincristine, cyclophosphamide, doxorubicin and rituximab (see Appendix B); administration is based on age and performance status of the patient ²See Appendix C: Response Criteria for Malignant Lymphoma

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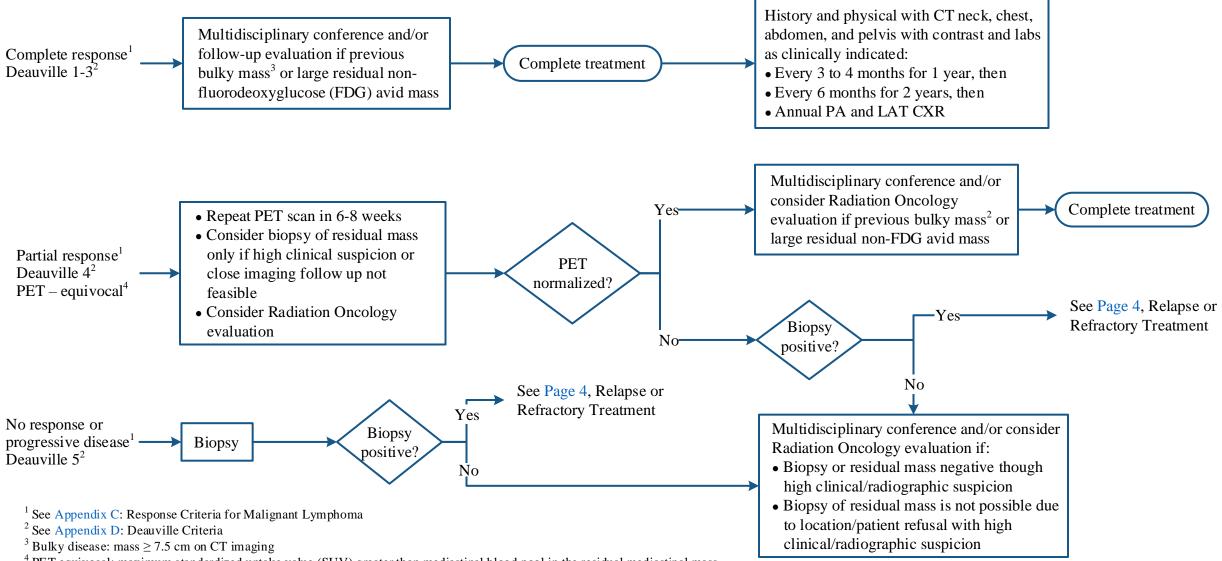
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RESPONSE EVALUATION



⁴ PET equivocal: maximum standardized uptake value (SUV) greater than mediastinal blood pool in the residual mediastinal mass

Department of Clinical Effectiveness V4 Approved by the Executive Committee of the Medical Staff on 11/19/2019

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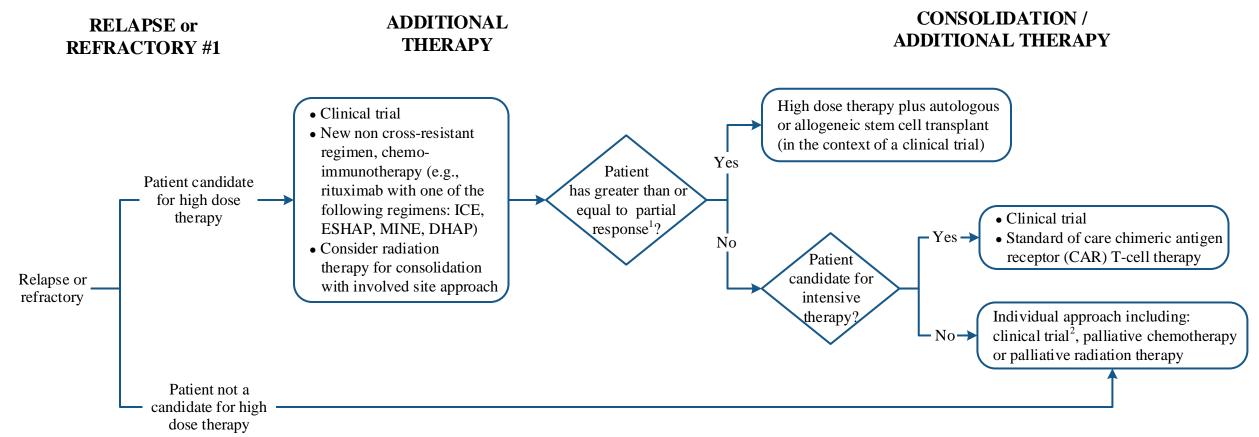
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ICE = ifosfamide, carboplatin, etoposide ESHAP = etoposide, methylprednisolone, high-dose cytarabine, cisplatin MINE = mesna, ifosfamide, mitoxantrone, etoposide DHAP = dexamethasone, cytarabine, cisplatin

¹See Appendix B: Response Criteria for Malignant Lymphoma

² Clinical trials or individual regimens: except for patients with disease-free interval, those who progress after three successive regimens are unlikely to derive additional benefit from currently utilized combination chemotherapy regimens

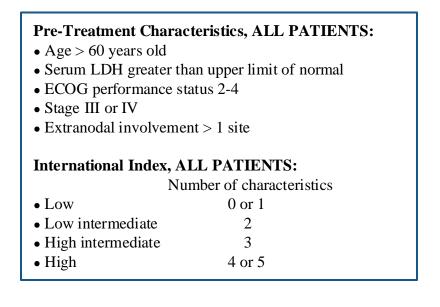
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APPENDIX A: International Prognostic Index (IPI)



Age-Adjusted IPI

 Pre-Treatment Characteristics, ALL PATIENTS ≤ 60 YEARS: Serum LDH greater than one times upper limit of normal ECOG performance status 2-4 Extranodal involvement > 1 site 		
International Index, ALL PATIENTS ≤ 60 YEARS:		
Number of characteristics		
• Low	0	
• Low intermediate	1	
• High intermediate	2	
• High	3	

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APPENDIX B: Dose Adjusted EPOCH-R

Table 1. EPOCH-R starting dose level		
Drug	Dose, route, treatment days	
Rituximab	375 mg/m ² IV day 1	
Etoposide	50 mg/m ² /day continuous IV days 1-4	
Doxorubicin	10 mg/m ² /day continuous IV days 1-4	
Vincristine	0.4 mg/m ² /day continuous IV days 1-4	
Cyclophosphamide	750 mg/m²/day IV day 5	
Prednisone	60 mg/m ² PO twice daily days 1-5	
Filgrastim product	5 mcg/kg subcutaneously daily starting on day 6 until ANC > 5 K/microliter	
Next Cycle ¹	Day 21	

¹ Begin on day 21 if the ANC \geq 1 K/microliter and the platelet count \geq 100 K/microliter

Table 2. EPOCH dose-adjustment paradigm		
Nadir measurements ²	Dose-adjustment	
If nadir ANC \geq 0.5 K/microliter	20% increase in etoposide, doxorubicin and cyclophosphamide above last cycle	
If nadir ANC < 0.5 K/microliter on 1 or 2 measurements	Same doses as last cycle	
If nadir ANC < 0.5 K/microliter on at least 3 measurements <u>or</u> If nadir platelet count < 25 K/microliter on 1 measurement	20% decrease in etoposide, doxorubicin and cyclophosphamide below last cycle	

Note: Dose adjustments above starting dose level apply to etoposide, doxorubicin and cyclophosphamide. Dose adjustments below starting dose level apply to cyclophosphamide only.

² Measurements of ANC and platelet nadir are based on twice weekly CBC only

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APPENDIX C: Revised Criteria for Response Assessment

Response and Site	PET-CT-Based Response	CT-Based Response
Complete	Complete metabolic response	Complete radiologic response (all of the following)
Lymph nodes and extralymphatic sites No Uptake Deauville 1-3	Score 1, 2, or 3 with or without a residual on 5PS It is recognized that in Waldeyer's ring or extranodal sites with high physiologic uptake or with activation within spleen or marrow (e.g., with chemotherapy or myeloid colony-stimulating factors), uptake may be greater than normal in the mediastinum and/or liver. In this circumstance, complete metabolic response may be inferred if uptake at sites of initial involvement is no greater than surrounding normal tissue even if the tissue has high physiologic uptake.	Target nodes/nodal masses must regress to ≤ to 1.5 cm in LDi No extralymphatic sites of disease
Nonmeasured lesion	Not applicable	Absent
Organ enlargement	Not applicable	Regress to normal
New lesion	None	None
Bone marrow	No evidence of FDG-avid disease in marrow	Normal by morphology
Partial	Partial metabolic response	Partial remission (all of the following)
Lymph nodes and extralymphatic sites Deauville 5	Score 4 or 5 with reduced uptake compared with baseline and residual mass(es) of any size At interim, these findings suggest responding disease At end of treatment, these findings indicate residual disease	Decrease of \geq 50% in sum of product diameter (SPD) of up to 6 target measurable nodes and extranodal sites When a lesion is too small to measure on CT, assign 5 mm x 5 mm as the default value When no longer visible, 0 x 0 mm For a node > 5 mm x 5 mm, but smaller than normal, use actual measurement for calculation
Nonmeasured lesion	Not applicable	Absent/normal, regressed, but no increase
Organ enlargement Deauville 4	Not applicable	Spleen must be regressed by $> 50\%$ in length beyond normal
New lesion	None	None

Cheson, B. D., Fisher, R. I., Barrington, S. F., Cavalli, F., Schwartz, L. H., Zucca, E., & Lister, T. A. (2014). Recommendations for initial evaluation, staging, and response assessment of Hodgkin and non-Hodgkin lymphoma: The Lugano classification. Journal of Clinical Oncology, 32(27), 3059-3067.

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APPENDIX C: Response Criteria for Response Assessment - continued

Response and Site	PET-CT-Based Response	CT-Based Response
Partial	Partial metabolic response	Partial remission (all of the following)
Bone marrow	Residual uptake higher than uptake in normal marrow but reduced compared with baseline (diffuse uptake compatible with reactive changes from chemotherapy allowed). If there are persistent focal changes in the marrow in the context of a nodal response, consideration should be given to further evaluation with MRI or biopsy or an interval scan.	Not applicable
No response or stable disease	No metabolic response	Stable disease
Target nodes/nodal masses, extranodal lesions	Score 4 or 5 with no significant change in FDG uptake from baseline at interim or end of treatment	< 50% decrease from baseline in SPD of up to 6 dominant, measurable nodes and extranodal sites; no criteria for progressive disease are met
Nonmeasured lesion	Not applicable	No increase consistent with progression
Organ enlargement	Not applicable	No increase consistent with progression
New lesion	None	None
Bone marrow	No change from baseline	Not applicable
Progressive disease	Progressive metabolic response	Progressive disease requires at least 1 of the following PPD progression
Individual target nodes/ nodal masses Extranodal lesions	Score 4 or 5 with an increase in intensity of uptake from baseline and/or New FDG-avid foci consistent with lymphoma at interim or end-of-treatment assessment	 An individual node/lesion must be abnormal with: > 1.5 cm and Increase by ≥ 50% from PPD nadir and An increase in LDi or SDi from nadir: 0.5 cm for lesions ≤ 2 cm 1 cm for lesions > 2 cm In the setting of splenomegaly, the splenic length must increase by > 50% of the extent of its prior increase beyond baseline (e.g., a 15 cm spleen must increase to > 16 cm). If no prior splenomegaly, must increase by ≥ 2 cm from baseline. New or recurrent splenomegaly

Cheson, B. D., Fisher, R. I., Barrington, S. F., Cavalli, F., Schwartz, L. H., Zucca, E., & Lister, T. A. (2014). Recommendations for initial evaluation, staging, and response assessment of Hodgkin and non-Hodgkin lymphoma: The Lugano classification. Journal of Clinical Oncology, 32(27), 3059-3067.

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APPENDIX C: Revised Criteria for Response Assessment - continued

Response and Site	PET/CT-Based Response	CT-Based Response
Progressive disease	Progressive metabolic response	Progressive disease requires at least 1 of the following PPD progression
Nonmeasured lesions	None	New or clear progression of preexisting nonmeasured lesions
New lesion	New FDG-avid foci consistent with lymphoma rather than another etiology (e.g., infection, inflammation). If uncertain regarding etiology of new lesions, biopsy or interval scan may be considered.	Regrowth of previously resolved lesions A new node > 1.5 cm in any axis A new extranodal site > 1 cm in any axis; if < 1 cm in any axis, its presence must be unequivocal and must be attributable to lymphoma Assessable disease of any size unequivocally attributable to lymphoma
Bone marrow	New or recurrent FDG-avid foci	New or recurrent involvement

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APPENDIX D: Deauville Criteria

- Score 1: no uptake
- Score 2: uptake less than or equal to mediastinum
- Score 3: uptake greater than mediastinum but less than or equal to liver
- Score 4: uptake greater than liver at any site
- Score 5: uptake greater than liver and new sites of disease
- Score X: new areas of uptake unlikely to be related to lymphoma

A score of 1-3 is regarded as negative and 4 or 5 as positive

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DEVELOPMENT CREDITS

This practice algorithm is based on majority expert opinion of the Lymphoma Center Faculty at the University of Texas MD Anderson Cancer Center. It was developed using a multidisciplinary approach that included input from the following:

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