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<sup>1</sup>This algorithm contains the following subtypes: PTCL - not otherwise specified, angioimmunoblastic T-cell lymphoma (AITL), anaplastic large cell lymphoma, anaplastic lymphoma kinase (ALK) positive and ALK negative and enteropathic associated T-cell lymphoma (EATL). The following subtypes are not included in this algorithm: T-cell prolymphocytic leukemia (T-PLL), T-cell large granular lymphocytic leukemia (T-LGL), primary cutaneous anaplastic large-cell lymphoma (ALCL), breast implant-associated (BIA)-ALCL and all other cutaneous T-cell lymphoma [see [Cutaneous T-cell Lymphoma \(CTCL\) algorithm](#)].

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

## PATHOLOGIC DIAGNOSIS<sup>1</sup>

### ESSENTIAL:

- Hematopathology review of all slides with at least one paraffin block or 15 unstained slides representative of the tumor. Re-biopsy if consult material is nondiagnostic.
- Adequate morphology and immunophenotyping to establish diagnosis
  - Flow cytometry immunophenotypic studies: CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD16, CD25, CD26, CD14, CD45, CD52, CD56, CD57, CD94, TCRbeta, TCRgamma, CD30, and TRCB1
  - Paraffin Panel: CD20, CD4, CD8, CD3, CD30 and/or other pan-T-cell markers (CD2, CD5, CD7, CD43), Ki-67, EBER

### OF USE IN CERTAIN CIRCUMSTANCES TO DETERMINE SUBGROUP:

- TBX21/CXCR3/GATA3 and CCR4 to assess PTCL-TBX21 and PTCL-GATA3 plus ICOS and PD1 to exclude lymphomas with follicular helper phenotype (in cases of PTCL- NOS)
- BetaF1, TCR delta (gamma/delta T-cell lymphomas and subcutaneous panniculitis-like T-cell lymphoma)
- CD10, BCL-6, PD1, CXCL13, CD21, ICOS, and IDH2 R172K (AITL)
- CD15, ALK1, EMA (anaplastic T-cell lymphoma)
- CD103, CD56 (EATL)
- CD1a, CD34, TdT (T lymphoblastic lymphoma)
- TCL-1, FOXP3, CD25 (T-cell prolymphocytic leukemia and adult T-cell leukemia/lymphoma)
- FISH studies to detect DUSP22 and TP63 (ALK negative ALCL)
- Molecular studies to detect clonality of the *TCR* genes
- NGS studies (end lymphoma panel) to assess the mutational landscape

### STRONGLY RECOMMENDED:

- Fine needle aspiration (FNA) or core biopsy for tissue array/banking by protocol

<sup>1</sup> Review [MD Anderson approved biomarkers](#)

<sup>2</sup> See [Physical Activity](#), [Nutrition](#), and [Tobacco Cessation](#) algorithms; ongoing reassessment of lifestyle risks should be a part of routine clinical practice

## INITIAL EVALUATION

### ESSENTIAL:

- Physical exam: attention to node-bearing areas, including Waldeyer's ring, and to size of liver and spleen
  - Consider Dermatology consult for comprehensive skin assessment if cutaneous involvement is present or suspected
  - Performance status
  - B symptoms (Unexplained fever > 38°C during the previous month; Recurrent drenching night sweats during the previous month; Weight loss > 10 percent of body weight ≤ 6 months of diagnosis)
  - Calculation of International Prognostic Index (see [Appendix A](#))
- CBC with differential, BUN, creatinine, albumin, AST, bilirubin, serum calcium, alkaline phosphatase, uric acid, LDH
- Beta-2-microglobulin
- Screening for HIV 1 and 2, hepatitis B and C (HBcAb, HBsAg, HCVAb)
- HTLV 1/2 serology
- HLH work-up including EBV by PCR, ferritin, fibrinogen, triglycerides, and cytokine 12 profile including IL-2sR (sCD25)
- Chest x-ray (AP & LAT)
- Unilateral or bilateral bone marrow biopsy with aspirate
- MUGA scan or echocardiogram
- PET/CT
- Lifestyle risk assessment<sup>2</sup>

### OF USE IN SELECTED CASES:

- CT head or MRI with contrast
- EBV with PCR
- Pregnancy test
- Stool guaiac, if anemic
- Lumbar puncture, if paranasal sinus, testicular, parameningeal, orbit, CNS, paravertebral, bone marrow or HIV lymphoma
- Serum immunoelectrophoresis (SIEP)
- Discuss fertility options and sperm banking for patients of child bearing potential [refer to [Fertility Preservation Prior to Cancer Treatment \(Women\) algorithm](#)]

See [Page 3](#):  
 Induction  
 therapy

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## INDUCTION THERAPY

- CD30-positive
  - CHP-Bv
- CD30-negative
  - EPOCH **or** CHOEP **or** CHOP
- NK/T cell lymphoma
  - Stage I/II: DeVIC with ISRT<sup>1</sup>
  - Stage III/IV: SMILE **or** DDGP **or** P-GEMOX
- CTCL: Refer to [Cutaneous T-cell Lymphoma \(CTCL\) algorithm](#)
- Large cell transformation CTCL<sup>2</sup>
  - Brentuximab vedotin (if CD30-positive) **or**
  - Romidepsin **or**
  - Pralatrexate **or**
  - Gemcitabine **or**
  - Liposomal doxorubicin
  - Consideration for ISRT<sup>1</sup> in limited cutaneous lesions with LCT
  - Multiagent chemotherapy as for PTCL
- Hepatosplenic T-cell lymphoma and EATL
  - HCVAD **or**
  - Dose adjusted EPOCH
- ALK positive and negative anaplastic large-cell lymphoma (ALCL)
  - Limited stage CHP-Bv plus with or without ISRT<sup>1</sup>
  - Other options: CHOEP or CHOP with or without ISRT<sup>1</sup>
- Special circumstances: limited stage ALK positive ALCL or ALK negative DUSP22 positive ALCL
  - Abbreviated course chemotherapy with ISRT<sup>1</sup>

Stages I - IV →

After 2-4 cycles, repeat all positive studies<sup>3</sup>

## INTERIM RESPONSE

Complete or partial response<sup>4,5</sup>

No response<sup>4</sup> or progressive disease<sup>4,5</sup>

- Complete current treatment
- See [Page 4](#) for evaluation, response, treatment and follow up

See [Page 5](#) for refractory or relapse therapy

ALK = anaplastic lymphoma kinase  
 CHOP = cyclophosphamide, doxorubicin, vincristine, prednisone  
 CHOEP = cyclophosphamide, doxorubicin, vincristine, etoposide, prednisone  
 CHP-Bv = cyclophosphamide, doxorubicin, prednisone, brentuximab vedotin  
 DeVIC = dexamethasone, etoposide, ifosfamide, carboplatin  
 DDGP = cisplatin, dexamethasone, gemcitabine, pegaspargase  
 DMILE = steroid, methotrexate, ifosfamide, L-asparaginase, etoposide  
 EPOCH = etoposide, prednisone, vincristine, cyclophosphamide, doxorubicin  
 P-GEMOX = pegaspargase, gemcitabine, oxaliplatin  
 HCVAD = hyperfractionated cyclophosphamide, vincristine, doxorubicin, and dexamethasone  
 ISRT = involved site radiation therapy

<sup>1</sup> Radiation therapy can be considered for limited stage patients with abbreviated systemic therapy, or to sites of bulk or incomplete response after systemic therapy completion

<sup>2</sup> Refer to [Cutaneous T-cell Lymphoma \(CTCL\) algorithm](#)

<sup>3</sup> PET scans should be used to assess residual abnormalities on CT scan, especially if done pretreatment

<sup>4</sup> Partial response includes a biological measure of disease: fluorodeoxyglucose (FDG)-avid disease with reduced uptake compared to baseline PET/CT scan. A positive PET/CT at the end of treatment proved to be lymphoma on biopsy is considered to be residual/refractory disease.

<sup>5</sup> For response assessment, refer to: 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. doi: 10.1200/JCO.2013.54.8800

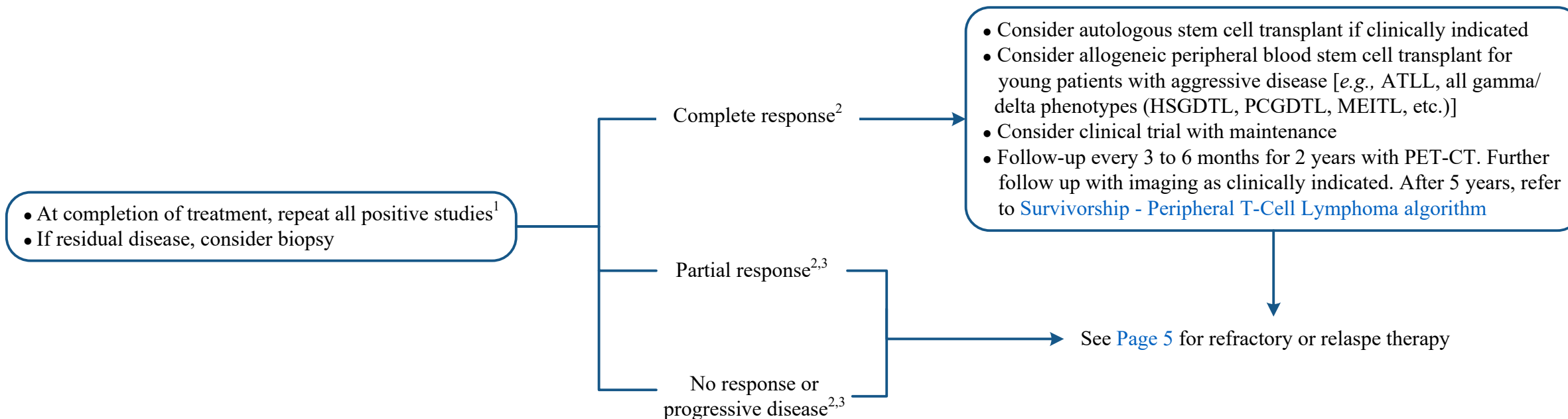
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## EVALUATION

## RESPONSE

## TREATMENT AND FOLLOW-UP



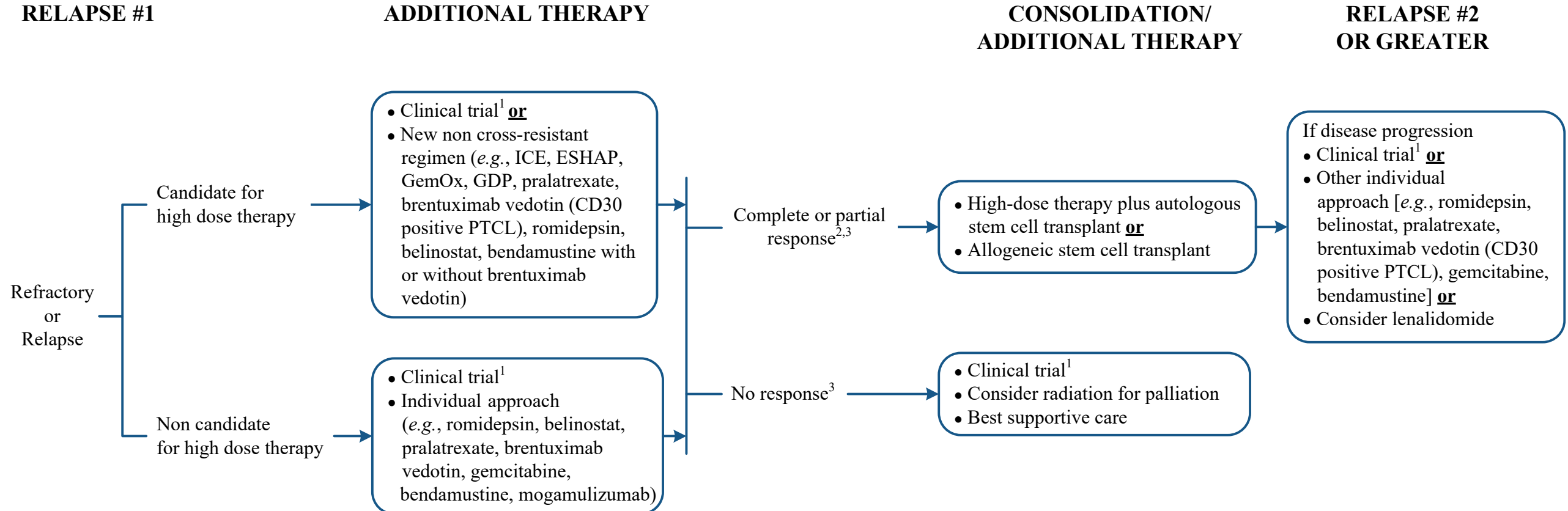
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ICE = ifosfamide, carboplatin, etoposide

ESHAP = etoposide, methylprednisolone, high dose cytarabine, cisplatin

GemOx = gemcitabine and oxaliplatin

GDP = gemcitabine, dexamethasone, and cisplatin

<sup>1</sup> Clinical trials or individual regimens: patients who progress after three successive regimens are unlikely to derive additional benefit from currently utilized combination chemotherapy regimens, except for patients with a long disease-free interval

<sup>2</sup> Partial response includes a biological measure of disease: fluorodeoxyglucose (FDG)-avid disease with reduced uptake compared to baseline PET/CT scan. A positive PET/CT at the end of treatment proved to be lymphoma on biopsy is considered to be residual/refractory disease.

<sup>3</sup> For response assessment, refer to: 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. doi: 10.1200/JCO.2013.54.8800

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## APPENDIX A: International Prognostic Index for PTCL-U<sup>1</sup>

Risk Factors	Prognostic Risk	Number of Risk Factors
<ul style="list-style-type: none"> <li>• Age &gt; 60 years</li> <li>• Serum LDH &gt; 1 times normal</li> <li>• Performance status 2 – 4</li> <li>• Bone marrow involvement</li> </ul>	<ul style="list-style-type: none"> <li>• Group 1</li> <li>• Group 2</li> <li>• Group 3</li> <li>• Group 4</li> </ul>	<ul style="list-style-type: none"> <li>0</li> <li>1</li> <li>2</li> <li>3 or 4</li> </ul>

<sup>1</sup> Other prognostic scoring systems have been proposed and validated, but none are currently used to impact PTCL treatment algorithm

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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:

### Core Development Team Leads

Swaminathan P. Iyer, MD (Lymphoma/Myeloma)

Ranjit Nair, MD (Lymphoma/Myeloma)

### Workgroup Members

Tharakeswara K. Bathala, MD (Abdominal Imaging Department)

Luis Malpica Castillo, MD (Lymphoma/Myeloma)

Sheree E. Chen, PharmD (Pharmacy Clinical Programs)

Bouthaina S. Dabaja, MD (Radiation Oncology)

Bryan Do, PharmD (Pharmacy Clinical Programs)

Luis E. Fayad, MD (Lymphoma/Myeloma)

Olga N. Fleckenstein, BS♦

Christopher Flowers, MD (Lymphoma/Myeloma)

Nathan Fowler, MD (Lymphoma/Myeloma)

Jillian Gunther, MD (Radiation Oncology)

Fredrick Hagemeister, MD (Lymphoma/Myeloma)

Chitra Hosing, MD (Stem Cell Transplantation)

Hun Lee, MD (Lymphoma/Myeloma)

Jeffrey Medeiros, MD (Hematopathology Administration)

Loretta Nastoupil, MD (Lymphoma/Myeloma)

Sattva Neelapu, MD (Lymphoma/Myeloma)

Felipe Samaniego, MD (Lymphoma/Myeloma)

Samer Srouf, MBCHB (Stem Cell Transplantation)

Carlos A. Torres-Cabala, MD (Pathology, Anatomical)

Francisco Vega, MD, PhD (Hematopathology Administration)

Michael Wang, MD (Lymphoma/Myeloma)

Mary Lou Warren, DNP, APRN, CNS-CC♦

Jason Westin, MD (Lymphoma/Myeloma)

♦ Clinical Effectiveness Development Team