



### "Stepping in the Right Direction: Effective Management of Diffuse Large B-Cell Lymphoma - Leg Type"

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# History of Present Illness

- Case of 56 y/o Female patient who complaints of right foot weakness, multiple skin lesions and rapidly growing mass on right ankle with 8 months of evolution prior to his initial presentation.
- Patient underwent an extensive biochemical, infectious, and radiologic workup which was unremarkable.

- Excisional biopsy of the skin lesion:
- > Primary Cutaneous Diffuse Large B-Cell Lymphoma —Leg Type

# Physical Examination

**Temp:** 98 F **BP**: 107/89 **PR**: 78 **RR:** 14 **O2 Sat:** 98% **Weight:** 83lbs **Height**: 60 in **BSA:** 1.28

**ECOG**: 0

- ➤ General: AAO x3. Normal appearance, No acute distress. Cooperative
- >HEENT: PERRLA, Anicteric. External ears and throat normal, hearing grossly normal, oropharynx unremarkable.
- ➤ Respiratory: Breathing comfortably, CTA x 2
- Cardiovascular: RRR, No murmur or gallops
- >Abdomen: No masses, Non tenderness, no hepatomegaly, no splenomegaly
- **Lymph Nodes**: No cervical, axillary, supraclavicular, inguinal or popliteal adenopathy
- Skin: Multiple violaceous lesions present along R leg ranging in size between 2 cm to 6 cm. The largest lesion is in the medial part of the right ankle.
- **Extremities**: Right leg with multiple palpable lesions. Mild edema R>L. Without cyanosis.

# Images

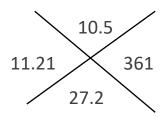






## Laboratories:

CBC:



MCV: 90.4

MCHC: 31.3

RDW: 15.2

CMP:

141	106	8.5	
4.0	22.4	0.56	83
,	•	•	

AST: 20

Ca2+: 8.0

ALT: 11

Alb: 2.7

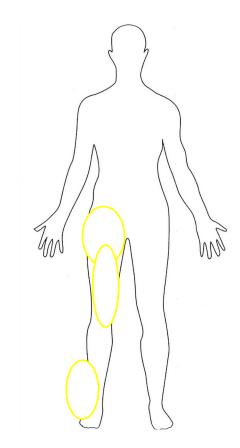
ALK: 101

LDH: 466



## PET CT Scan:

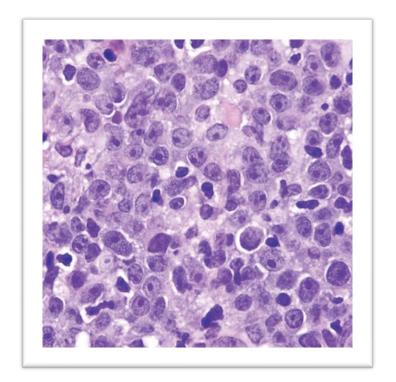
- Large, irregular shaped strongly hypermetabolic mass involving the articular space of the right ankle, extending to the soft tissues of the lateral and medial aspects, consistent with malignancy SUV<sub>max</sub> of 23.54.
- ❖ Metastatic disease to multiple lymph nodes along the medial aspect of the right leg, right thigh inguinofemoral and right internal and external iliac chains, with SUV<sub>max</sub> ranging from 10.76-16.69.



# Surgical Pathology Report

#### **ØFinal Diagnosis:**

- -Right Leg Mass:
- -Diffuse Large B-Cell Lymphoma



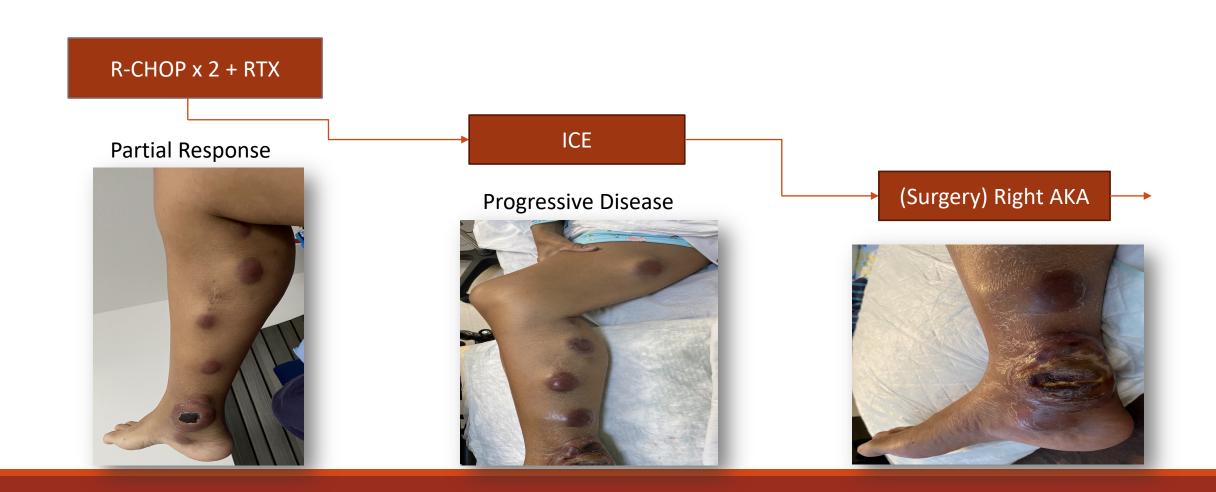
# Final Pathology Report / IHC:

CD Marker:	Result:
CD3	Negative
CD5	Positive, diffuse
CD20	Positive, diffuse
CD79	Positive, diffuse
Ki67	Positive in near 100% of neoplastic cells
CD68	Positive in background histiocytes
EBV	Negative
С-Мус	Positive in near 100% of neoplastic cells
BCL-2	Positive

CD Marker:	Result:
MUM-1	Positive in 70% of neoplastic, variable cells
CD10	Positive
PAX5	Positive, diffuse
CD44	Negative
CD23	Negative
CD30	Negative
ALK1	Negative
CD38	Positive

FISH: Neg BCL-2 / Neg BCL-6 / + C-Myc = No DH

## **Treatment Course**



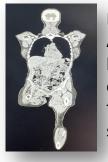
## **Treatment Course:**

Tafasitamab-cxix + Lenalidomide + RTX

**Progressive Disease** 



#### **PET CT Scan**



Manifested by two residual FDG Avid right inguinal nodes. The largest one measures 1.7 x 1.3 cm maximal SUV's was estimated to be 5.9 Deauville score sequences 5).

Epcoritamab-bysp Protocol

### Primary Cutaneous Diffuse Large B-Cell Lymphoma-Leg Type

- ❖In contrast to nodal lymphomas, PCL cases are primarily of T-cell origin.
- \*Represents only 4% of all cutaneous lymphomas.
- ❖ Has a significantly worse prognosis, with a 5-year overall survival of only 50–60%
- Leg type has the higher rates of relapse and recurrence.
- \* The median age at initial presentation is approximately 70 with a female predominance.
- ❖ PCDLBCL-LT preferentially involves the lower extremities with characteristic rapidly enlarging red to purple nodules.
- \*Regional lymph nodes and bone marrow represent the typical sites of extracutaneous spread.

# Primary Cutaneous Diffuse Large B-Cell Lymphoma-Leg Type/Diagnosis:

- An accurate diagnosis is essential in order to provide prompt treatment, especially considering the immunophenotypic overlap with other cutaneous lymphoma subtypes.
- ❖ Tissue specimens predominantly show MUM-1 and BCL-2 expression.
- ❖ PCDLBCL-LT frequently expresses *BCL-6, CD20, PAX-5, and CD79a*.
- ❖The germinal center marker CD10 is usually negative.

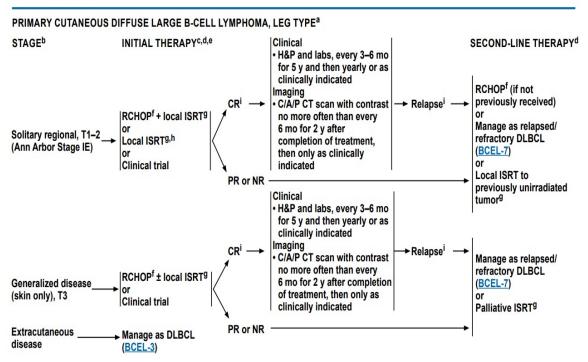
# Primary Cutaneous Diffuse Large B-Cell Lymphoma-Leg Type / Treatment:

- \*First-line treatment for PCLs is anthracycline-based chemotherapy combined with rituximab.
- Therefore, various rituximab plus polychemotherapy combinations are recommended, regardless of the clinical stage.
- Despite the lower incidence of PCDLBCL-LT, clinical trial data has been published that suggests the immunomodulatory agent, lenalidomide, is efficacious in management of relapsing and refractory PCDLBCL-LT.
- **Surgery** is typically NOT the primary treatment for diffuse large B-cell lymphoma (DLBCL), regardless of its subtype or location.



#### NCCN Guidelines Version 1.2024 Diffuse Large B-Cell Lymphoma

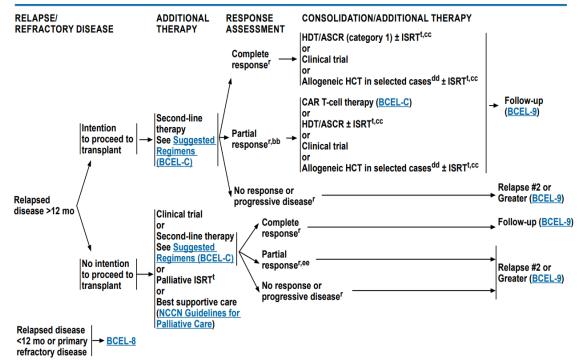
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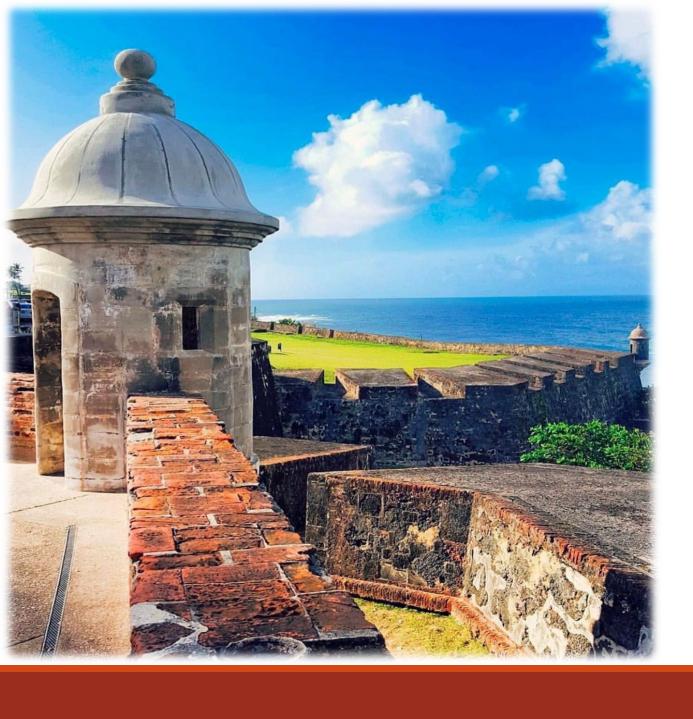
### NCCN Guidelines 2024

## Conclusion:

- ❖ Violaceous nodules on the lower limbs should raise the suspicion of PCDLBCL-LT.
- Lesions can involve areas of the body other than the lower limbs.
- Existing on the spectrum of extranodal cutaneous lymphomas, PCDLBCL-LT is an aggressive cutaneous lymphoma variant and its diagnosis, if delayed, can significantly affect prognosis.
- The primary treatment for DLBCL usually involves chemotherapy, often combined with immunotherapy or targeted therapy.
- Some cases, radiation therapy may also be used to target specific areas of disease involvement.
- Surgery is typically not curative for PCTDLBCL-LT on its own and is usually part of a multidisciplinary approach to treatment.

## References:

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# Thank you

