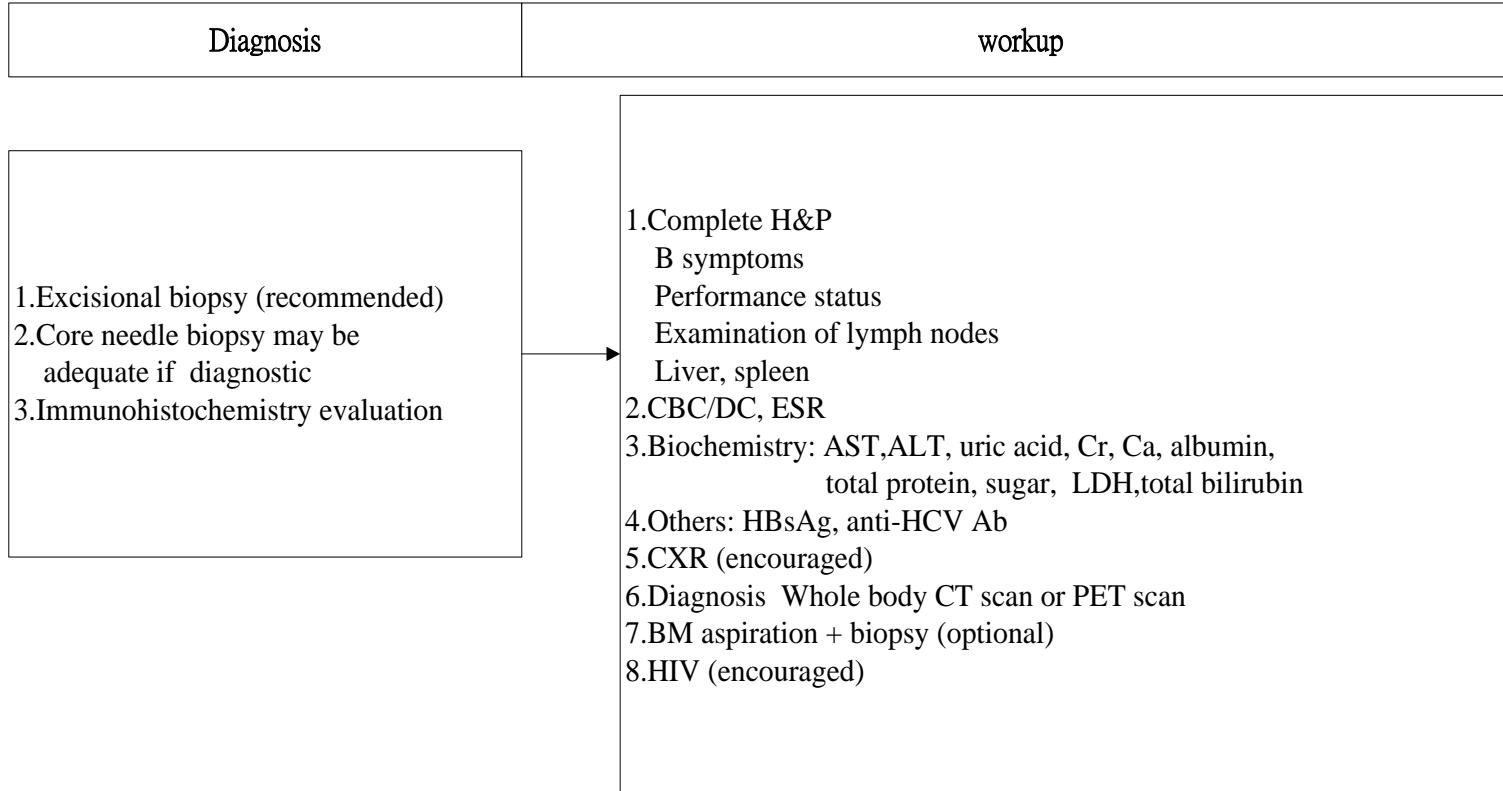




# 血液惡性疾病診療指引

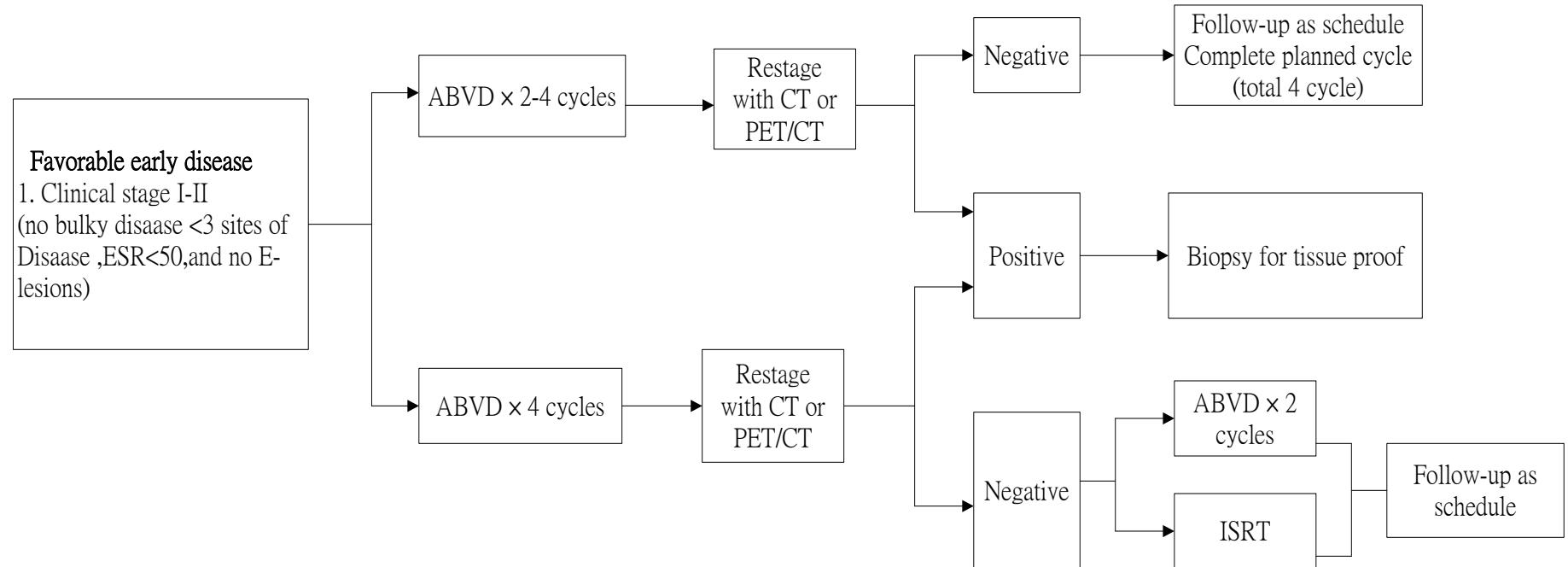
造血瘤多專科團隊擬定

99.04 初制  
113.03 修訂



Staging		Risk factors																					
Lugano Classification for Hodgkin and Non-Hodgkin Lymphoma																							
Staging	Lugano Stage	<p>※若為stage I or II, 有大於1個以上的risk factors, 為unfavorable risk unfavorable factors(localized presentations)</p> <p>(1)Bulky disease:</p> <ul style="list-style-type: none"> <li>➤ Mediastinal mass (chest x-ray):</li> <li>Maximum mass width 1</li> <li>Maximum intrathoraci diameter 3</li> <li>➤ Any mass &gt; 10cm (CT)</li> </ul> <p>(2)Erythrocyte sedimentation rate <math>\geq 50</math>, if asymptomatic</p> <p>(3)&gt; 3 lymphoid regions</p> <p>(4)B symptoms</p>																					
I	Involvement of a single lymphatic site (i.e., nodal region, Waldeyer's ring, thymus, or spleen)																						
IE	Single extralymphatic site in the absence of nodal involvement (rare in Hodgkin lymphoma)																						
II	Involvement of two or more lymph node regions on the same side of the diaphragm																						
IIE	Contiguous extralymphatic extension from a nodal site with or without involvement of other lymph node regions on the same side of the diaphragm																						
III	Involvement of lymph node regions on both sides of the diaphragm ; nodes above the diaphragm with spleen involvement																						
IV	<p>Diffuse or disseminated involvement of one or more extralymphatic organs, with or without associated lymph node involvement ;</p> <p>or <i>noncontiguous</i> extralymphatic organ involvement in conjunction with nodal Stage II disease</p> <p>or <i>any</i> extralymphatic organ involvement in nodal Stage III disease</p> <p>Stage IV includes <i>any</i> involvement of the CSF, bone marrow, liver, or multiple lung lesions (other than by direct extension in Stage IIE disease)</p>																						
<p>※ 若為stage III or IV,IPS大於4個以上的risk factors, 為unfavorable risk International prognostic score (IPS):</p> <p><b>International prognostic score (IPS) 1 point per factor (advanced disease)<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• Albumin &lt;4 g/dL</li> <li>• Hemoglobin &lt;10.5 g/dL</li> <li>• Male</li> <li>• Age <math>\geq 45</math> years</li> <li>• Stage IV disease</li> <li>• Leukocytosis (white blood cell count <math>\geq 15,000/\text{mm}^3</math>)</li> <li>• Lymphocytopenia (lymphocyte count &lt;8% of WBC count, and/or lymphocyte count &lt;600/mm<sup>3</sup>)</li> </ul> <table border="1"> <thead> <tr> <th>Score</th><th>5 years PFS (%)</th><th>5 years OS (%)</th></tr> </thead> <tbody> <tr> <td>0</td><td>84</td><td>89</td></tr> <tr> <td>1</td><td>77</td><td>90</td></tr> <tr> <td>2</td><td>67</td><td>81</td></tr> <tr> <td>3</td><td>60</td><td>78</td></tr> <tr> <td>4</td><td>51</td><td>61</td></tr> <tr> <td>5~7</td><td>42</td><td>56</td></tr> </tbody> </table>			Score	5 years PFS (%)	5 years OS (%)	0	84	89	1	77	90	2	67	81	3	60	78	4	51	61	5~7	42	56
Score	5 years PFS (%)	5 years OS (%)																					
0	84	89																					
1	77	90																					
2	67	81																					
3	60	78																					
4	51	61																					
5~7	42	56																					

Management of Classical Hodgkin lymphoma (CHL) CS IA-IIA Favorable Disease



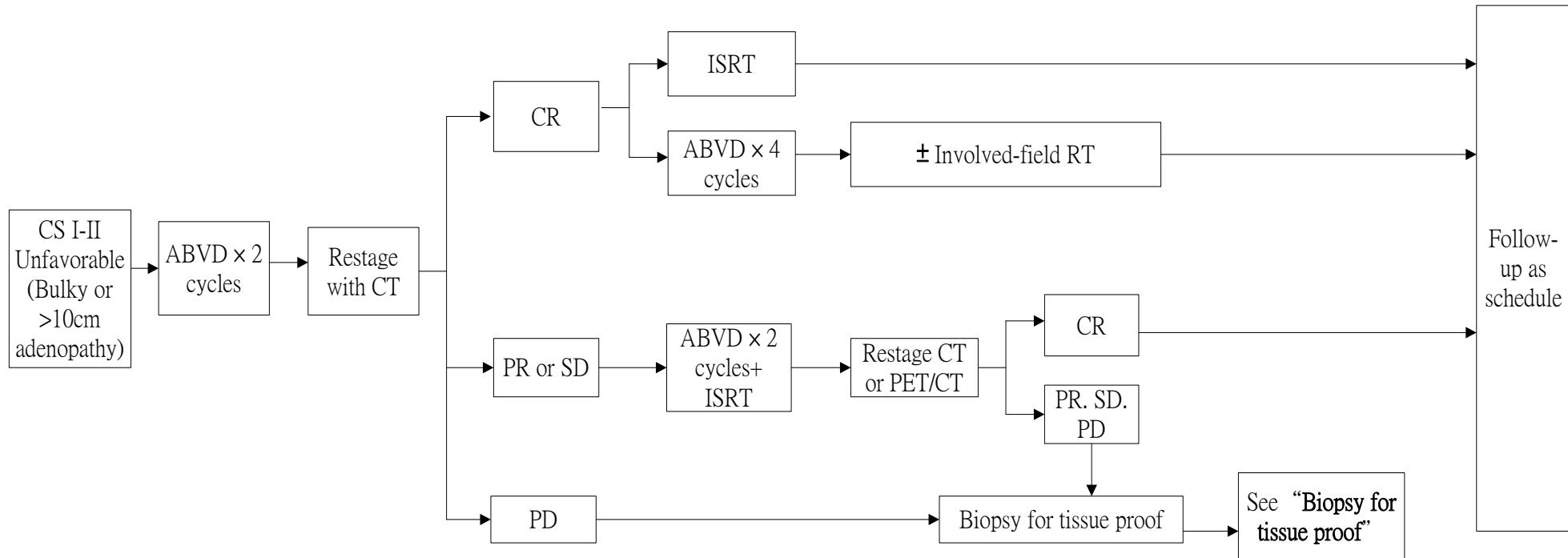
註：

ISRT: Involved site radiation therapy

參考資料來源：

1. V2 2024. NCCN Hodgkin Lymphomas Guidelines

Management of CHL CS I-II Unfavorable Disease  
Management of CHL CS III-IV Disease

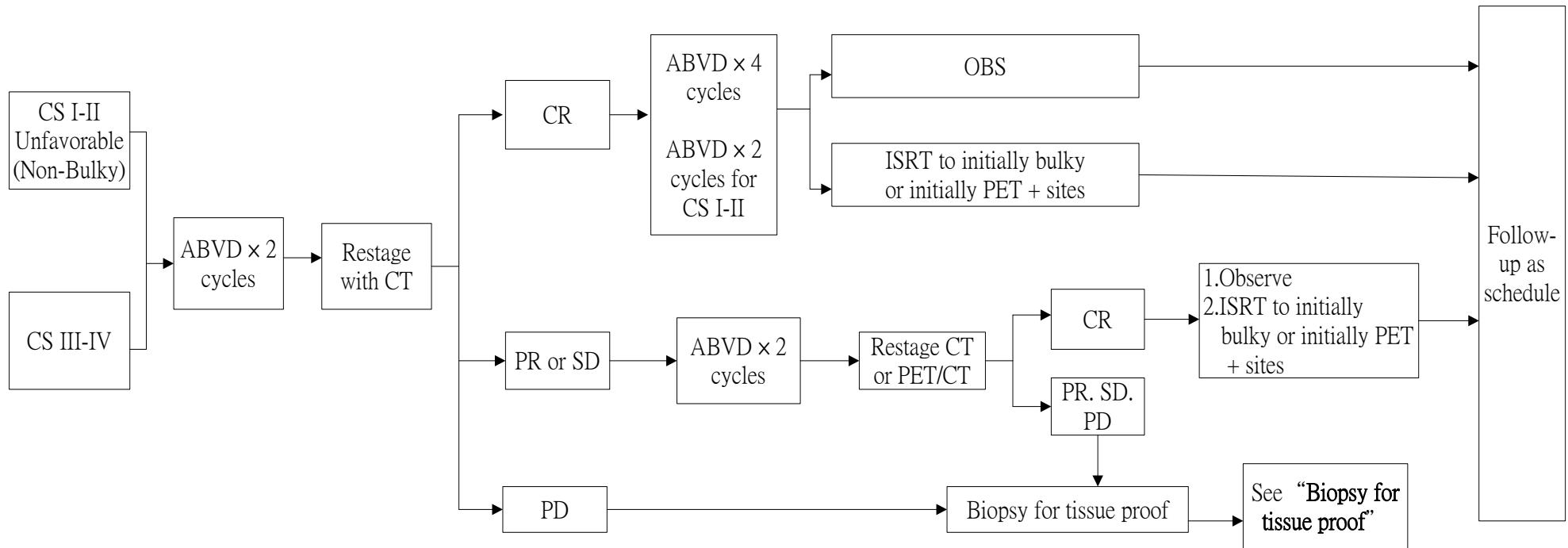


參考資料來源：

1. V2 2024. NCCN Hodgkin Lymphomas Guidelines

Management of CHL CS I-II Unfavorable Disease

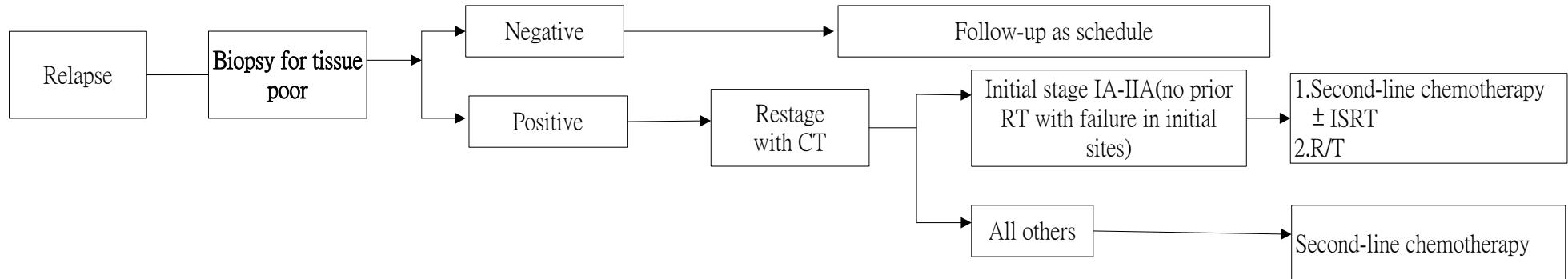
Management of CHL CS III-IV Disease



參考資料來源：

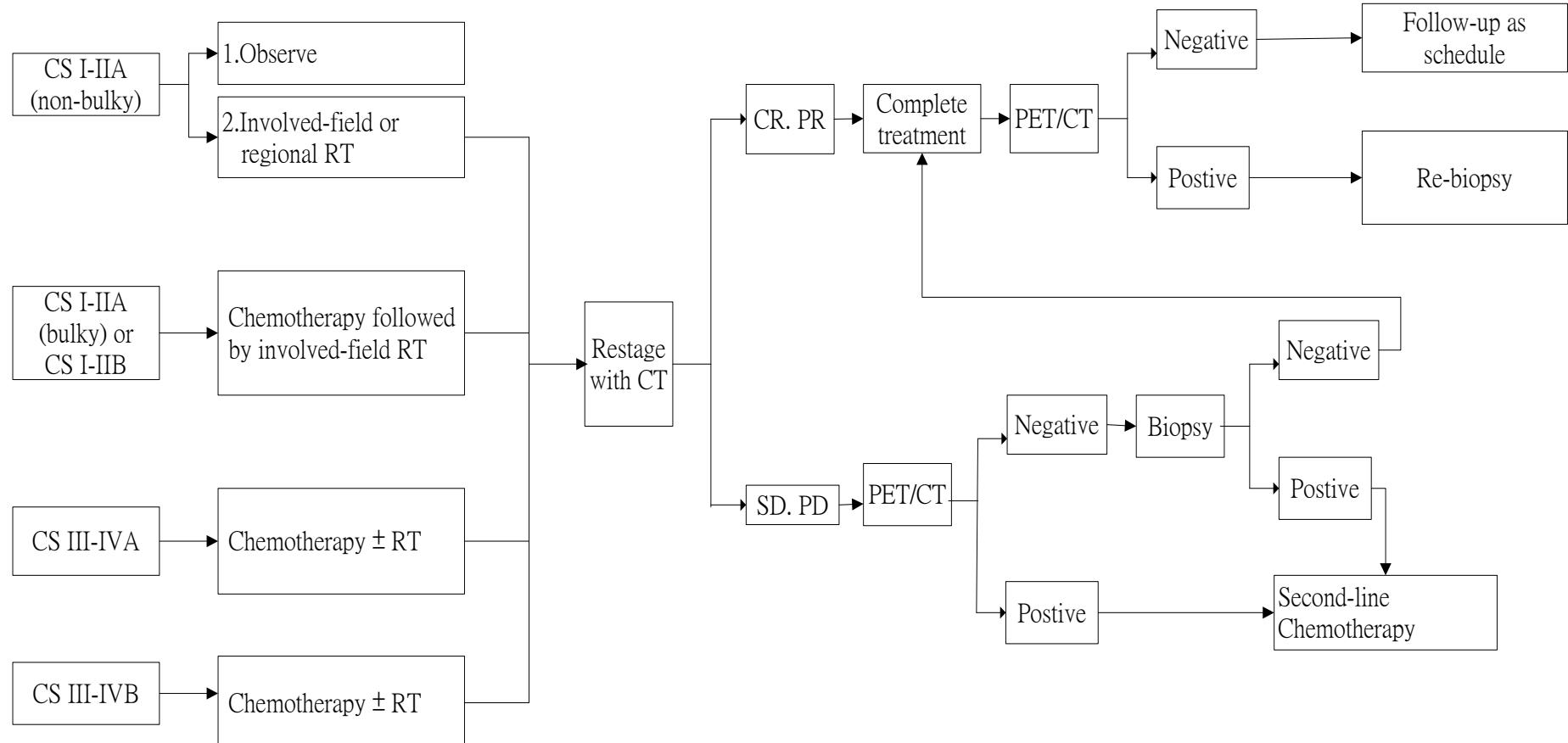
1. V2 2024. NCCN Hodgkin Lymphomas Guidelines

Management of Relapsed Hodgkin Lymphoma



Management of Nodular Lymphocyte-Predominant HD (NLPHL)

**Stage**              **Primary Treatment**



### Follow-up schedule

- Interim H&P:  
Every 3-6 mo for 1-2 y, then every 6-12 mo for next 3-5 y
- Laboratory studies:  
Every 3-6 mo for 1-2 y, then every 6-12 mo for next 3-5 y  
TSH at least annually if RT to neck
- Imaging studies:  
Every 6-12 mo during first 2-5 y
- After 5 years  
Annually F/U

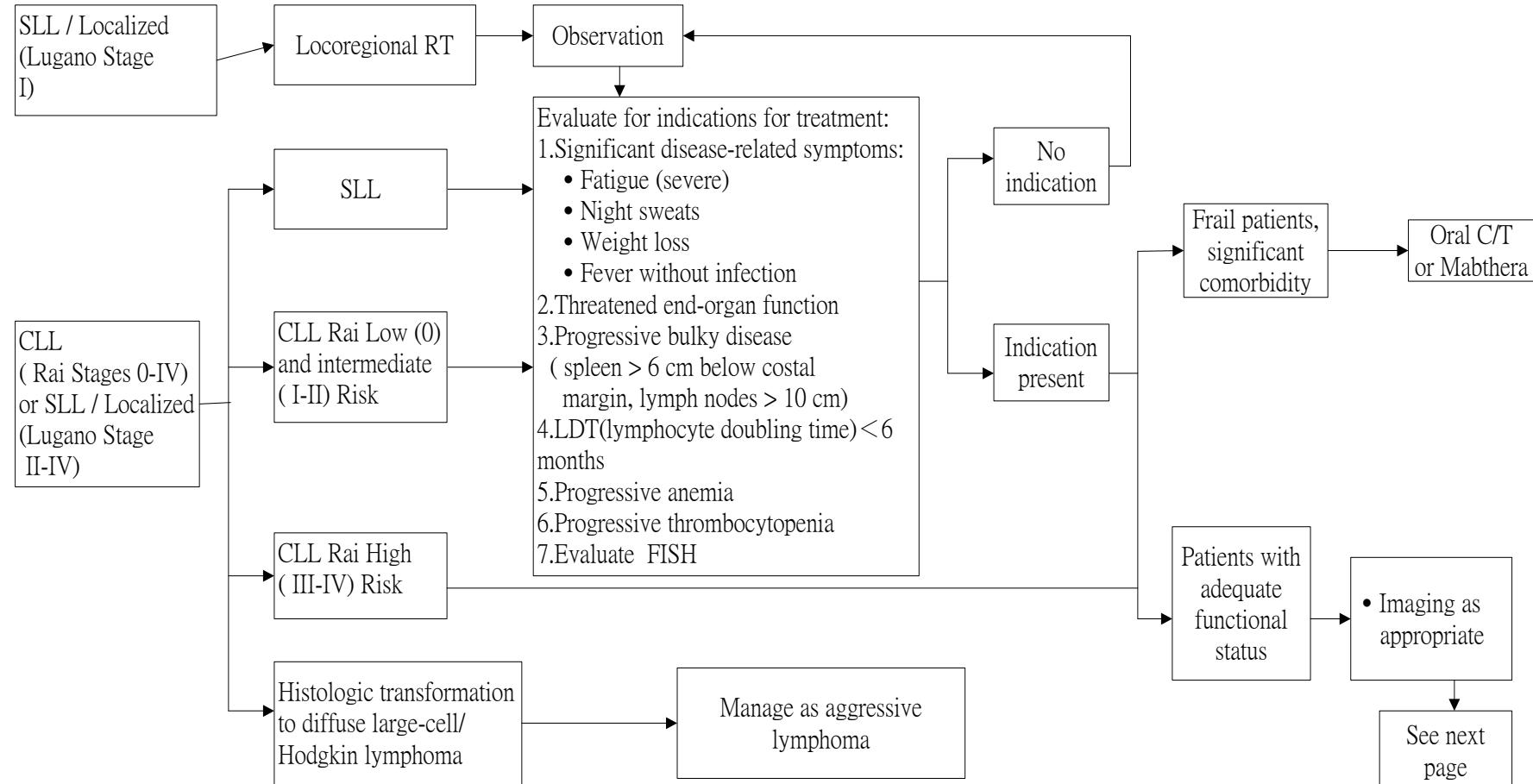
Diagnosis	Staging work-up
1.Surgical biopsy of the largest lymph nodes or mass lesion 2.Flow cytometry or cytogenetic studies(optional) 3.Immunohistochemistry evaluation	1.Complete history and physical examination including Waldeyer's rings, B symptoms, risk of HIV infection, infection, autoimmune diseases, immunosuppressive therapies 2.complete blood cell count with a differential, HBsAg, HCV Ab, HBc Ab testing ( for all patients receiving anti-CD 20 antibody therapy ) 3.Chemistry profiles: LDH, AST, ALT, uric acid, Cr, Ca, albumin, total protein, sugar 4.Whole body, Ga scan, Local CT,or PET 5.Bone marrow aspiration and biopsy(optional). 6.Lumbar puncture (optional) with cytology in selected patients. <ul style="list-style-type: none"> <li>a. All patients with Burkitt lymphoma.</li> <li>b. Patients with NHL in certain sites e.g CNS, epidural space, testes, ethmoid sinus, breast and large cell lymphoma with bone marrow involvements.</li> <li>c. HIV positive patients</li> </ul> 7.Gastrointestinal studies. <ul style="list-style-type: none"> <li>a. Esophagogastroduodenoscopy, upper gastrointestinal plus small bowel and lower gastrointestinal series for patients with gastrointestinal tract lymphoma</li> <li>b.Considered in patients with positive stool occult blood</li> </ul> 8. Cytogenetic and molecular tests in selected patients (optional); cardiac ejection fraction for age >60 if anthracycline will be used (optional). Anthracycline is contraindicated if ejection fraction is less than 50%

參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024.NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

## SLL/CLL Lymphoma

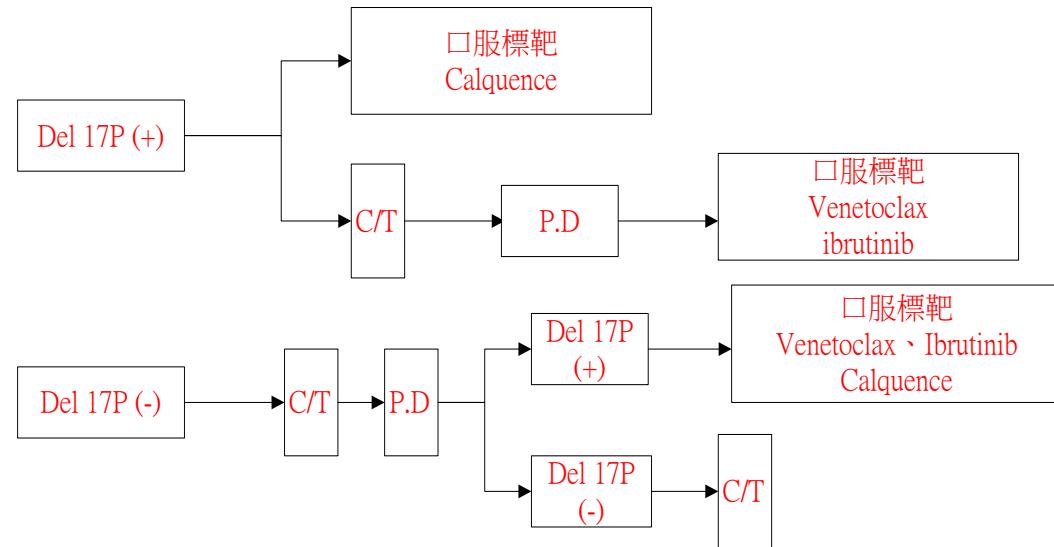
### PRESENTATION



參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

## SLL/CLL Lymphoma



(備註)

1. antibiotics for repetitive infections
2. if IgG < 500mg/dl → IVIG 0.3~0.5g/kg/month, to keep IgG > 500-700mg/dl
3. Acyclovir, for prevention or treatment of Herpes zoster
4. check Direct Coombs' test, reticulocyte count, haptoglobin for AIHA, especially for Fludarabine
5. PRCA, check parvo B19
6. 疫苗：
  - A. 每年流行性感冒疫苗，每5年肺炎雙球菌疫苗注射
  - B. 避免活菌/減毒疫苗

參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

## SLL/CLL Lymphoma

### CLL STAGING SYSTEMS

Rai System<sup>a</sup>

Stage	Description	Risk Status
0	Lymphocytosis, lymphocytes in blood >15,000/mcL and >40% lymphocytes in the bone marrow	Low
I	Stage 0 with enlarged node(s)	Intermediate
II	Stage 0-II with splenomegaly, hepatomegaly, or both	Intermediate
III <sup>c</sup>	Stage 0-III with hemoglobin <11.0 g/dL or hematocrit <33%	High
IV <sup>c</sup>	Stage 0-IV with platelets <100,000/mcL	High

Binet System<sup>b</sup>

Stage	Description
A	Hemoglobin ≥10 g/dL and Platelets ≥100,000/mm <sup>3</sup> and <3 enlarged areas
B	Hemoglobin ≥10 g/dL and Platelets ≥100,000/mm <sup>3</sup> and ≥3 enlarged areas
C <sup>c</sup>	Hemoglobin <10 g/dL and/or Platelets <100,000/mm <sup>3</sup> and any number of enlarged areas

參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

# Stm天主教聖馬爾定醫院

## Non-Hodgkin Lymphoma

## SLL/CLL Lymphoma

初版日期：99.04  
更新版日期：113.03

### SLL STAGING SYSTEM

Lugano Modification of Ann Arbor Staging System  
(for primary nodal lymphomas)

<u>Stage<sup>e</sup></u>	<u>Involvement<sup>g</sup></u>	<u>Extranodal (E) status</u>
<i>Limited</i>		
Stage I	One node or a group of adjacent nodes	Single extranodal lesions without nodal involvement
Stage II	Two or more nodal groups on the same side of the diaphragm	Stage I or II by nodal extent with limited contiguous extranodal involvement
Stage II bulky <sup>f</sup>	II as above with "bulky" disease	Not applicable
<i>Advanced</i>		
Stage III	Nodes on both sides of the diaphragm	Not applicable
	Nodes above the diaphragm with spleen involvement	
Stage IV	Additional non-contiguous extralymphatic involvement	Not applicable

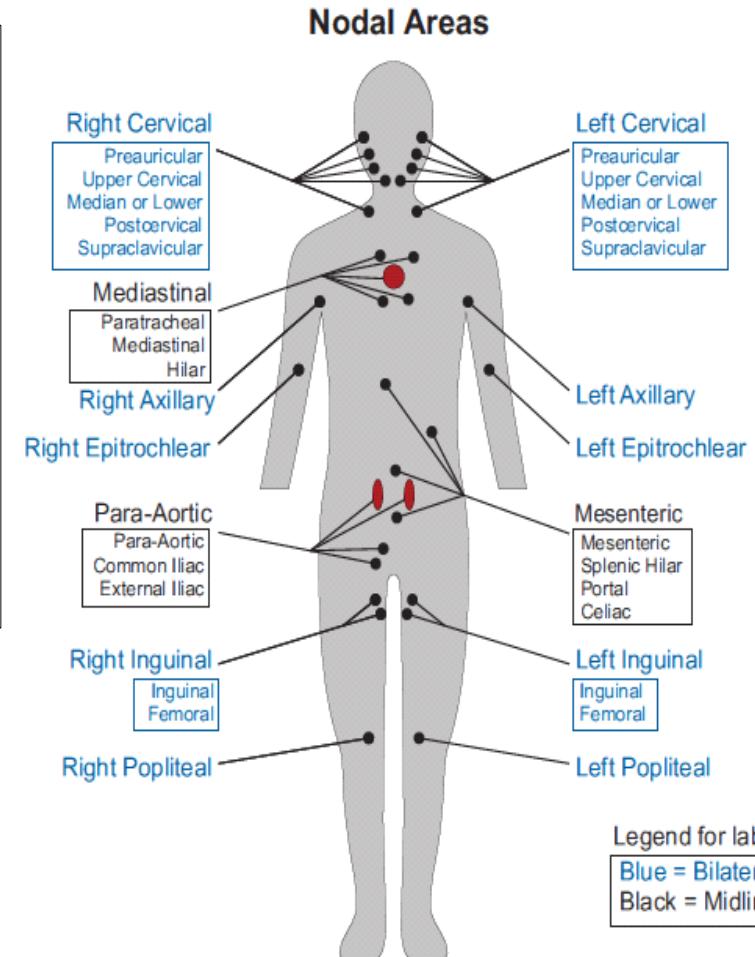
參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

## Treatment Guidelines for Follicular Lymphoma, Grades I and II (Grades III as DLBCL)

Follicular lymphoma international prognostic index (FLIPI)			
score	Risk Group	5 years OS (%)	CR rate (%)
0 ~ 1	Low	91	71
2	Intermediate	78	51
3 ~ 5	High	52	36

Blood 2004; 104: 1258

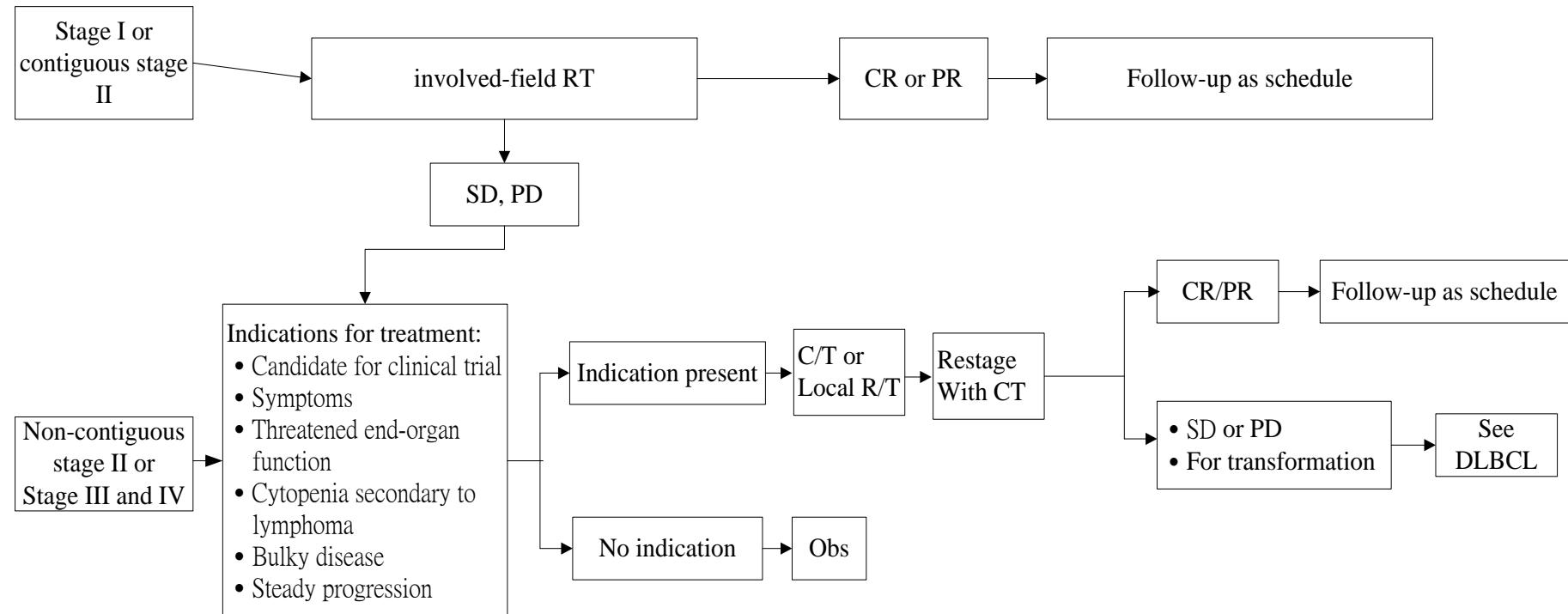


Mannequin used for counting the number of involved areas.<sup>8</sup>

參考資料來源：

- V1 2024. NCCN B-cell Lymphomas Guidelines
- V1 2024. NCCN T-cell Lymphomas Guidelines
- V1 2024. NCCN CLL/SLL Guidelines

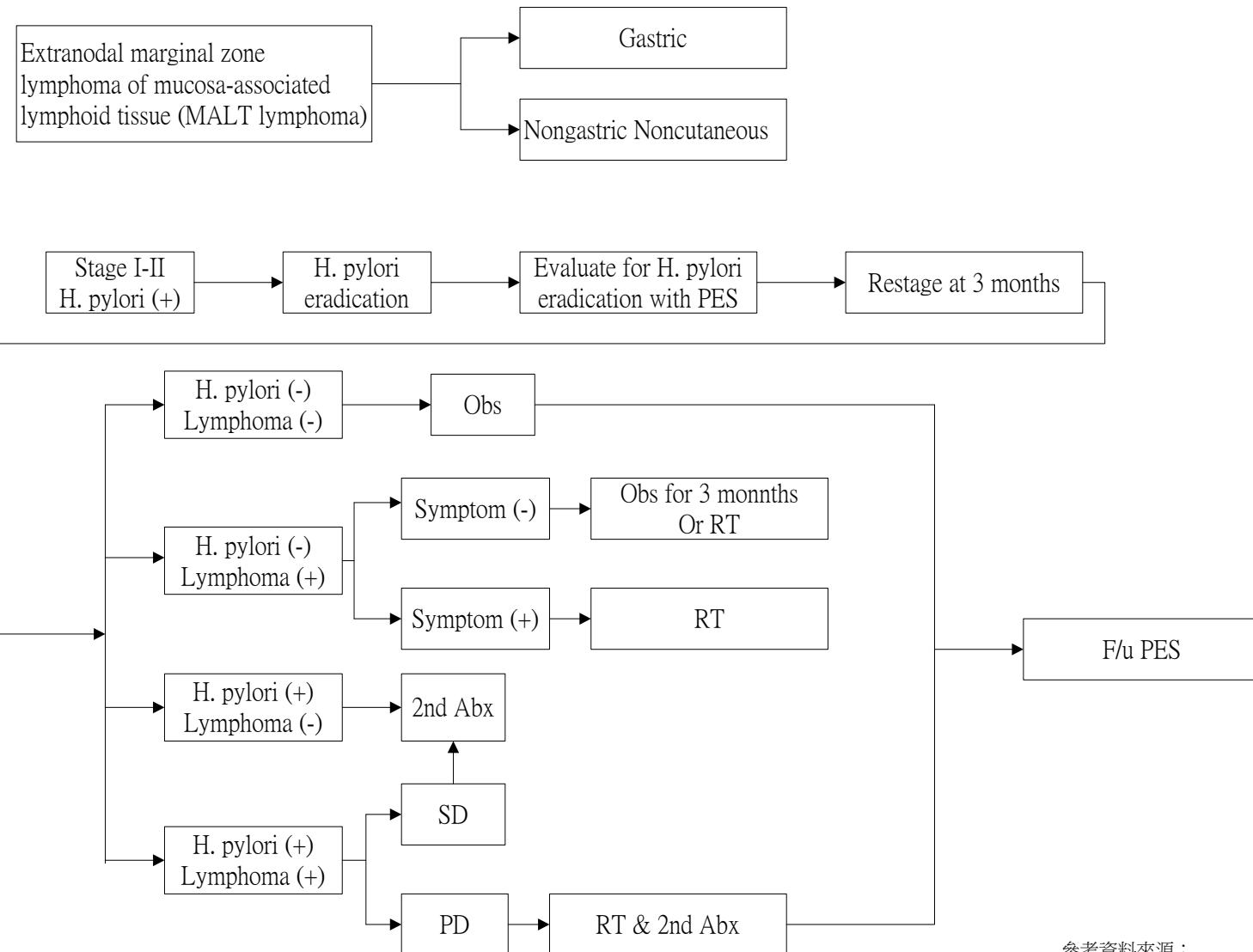
## Treatment Guidelines for Follicular Lymphoma, Grades I and II (Grades III as DLBCL)



參考資料來源：

- V1 2024. NCCN B-cell **Lymphomas** Guidelines
- V1 2024. NCCN T-cell **Lymphomas** Guidelines
- V1 2024. NCCN CLL/SLL Guidelines

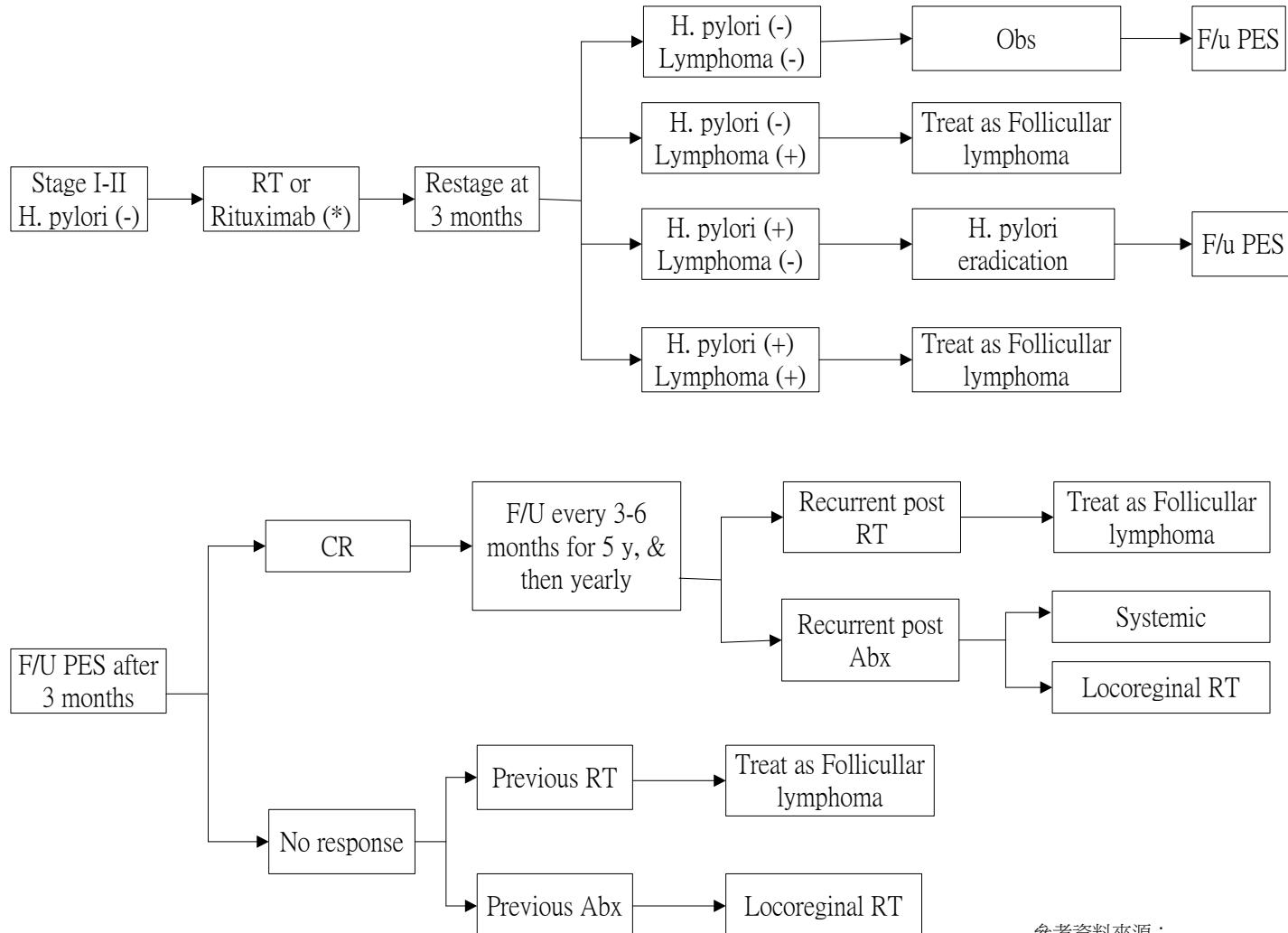
## Gastric MALT Lymphoma



參考資料來源：

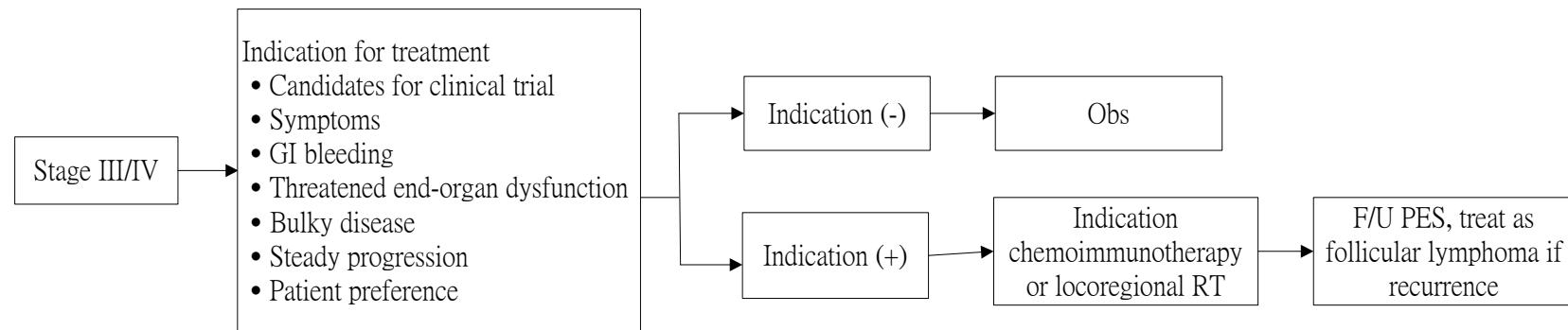
1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

## Gastric MALT Lymphoma



參考資料來源：  
 1. V1 2024. NCCN B-cell **Lymphomas** Guidelines  
 2. V1 2024. NCCN T-cell **Lymphomas** Guidelines  
 3. V1 2024. NCCN CLL/SLL Guidelines

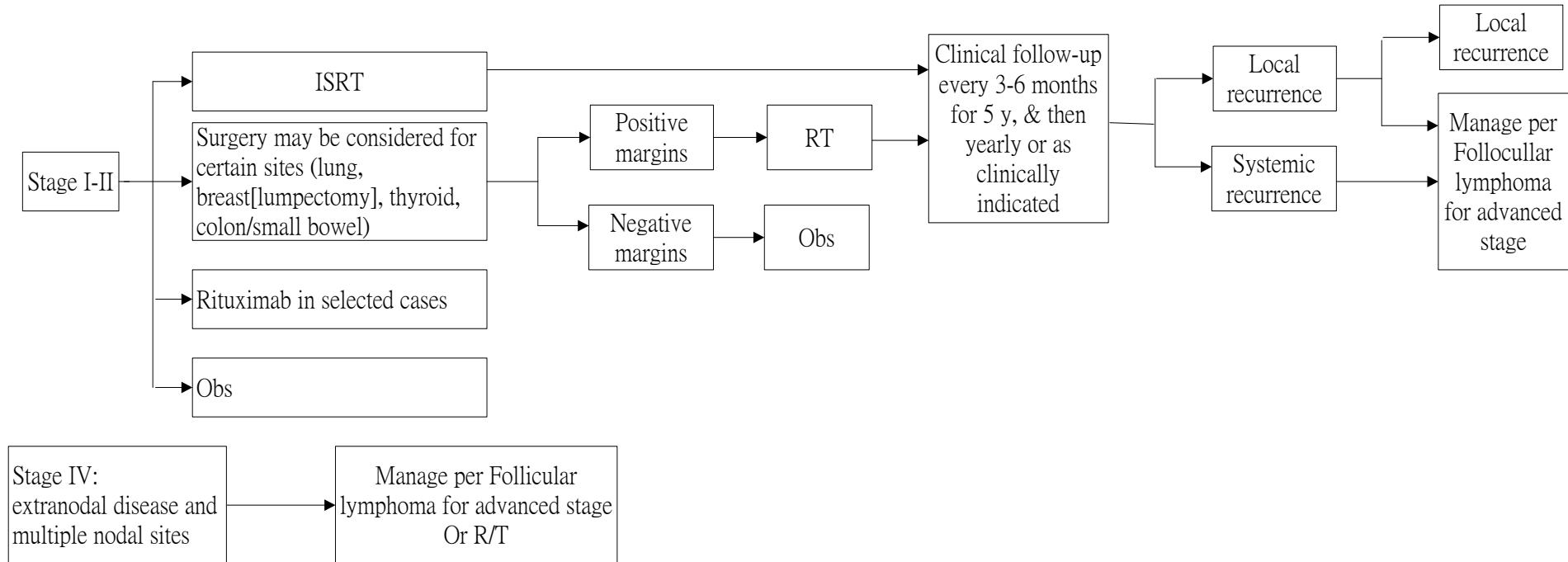
### Gastric MALT Lymphoma



#### 參考資料來源：

- V1 2024. NCCN B-cell **Lymphomas** Guidelines
- V1 2024. NCCN T-cell **Lymphomas** Guidelines
- V1 2024. NCCN CLL/SLL Guidelines

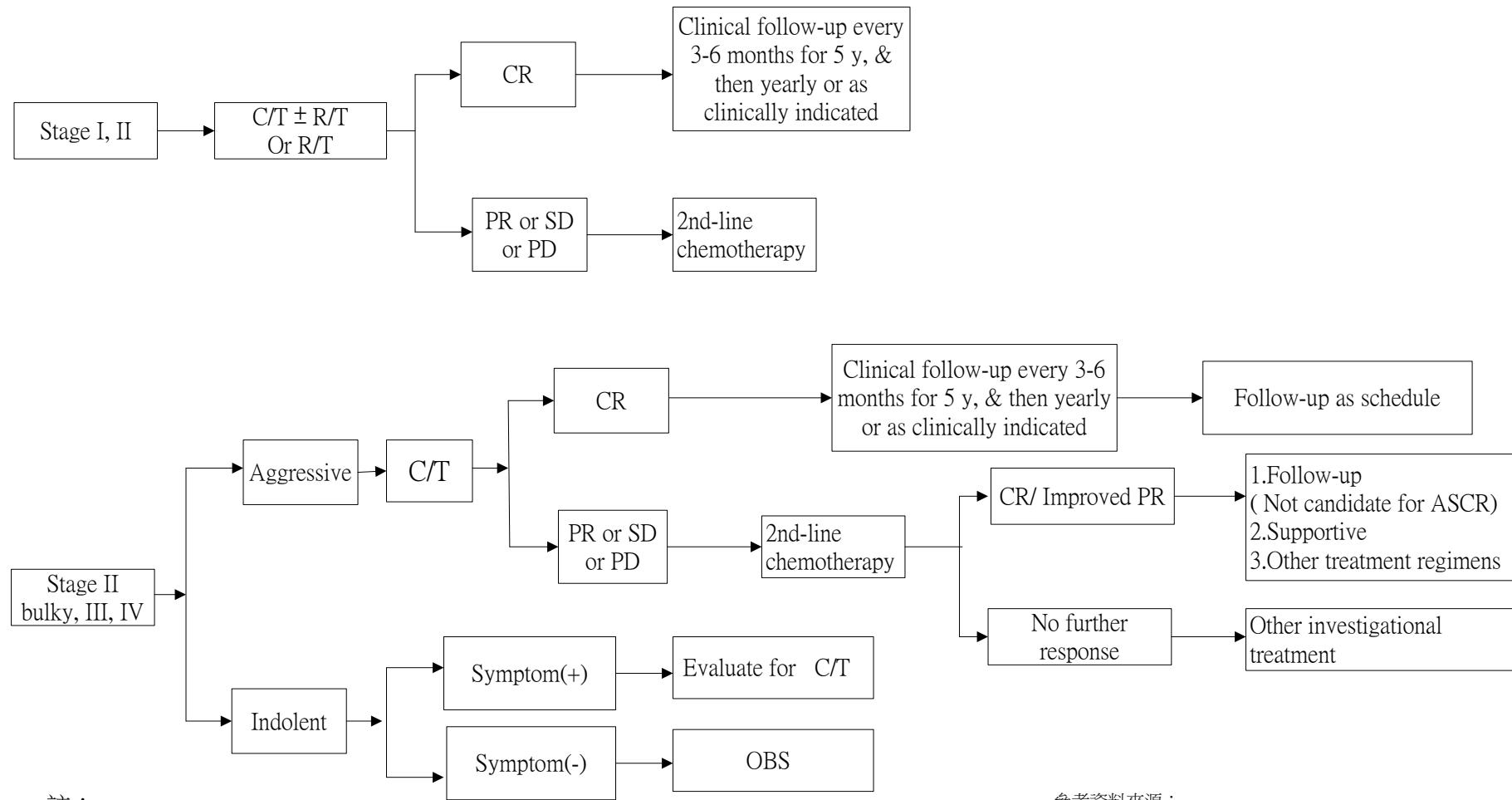
## Nongastric MALT Lymphoma



參考資料來源：

- V1 2024. NCCN B-cell **Lymphomas** Guidelines
- V1 2024. NCCN T-cell **Lymphomas** Guidelines
- V1 2024. NCCN CLL/SLL Guidelines

## Treatment Guidelines for Mantle cell lymphoma



註：

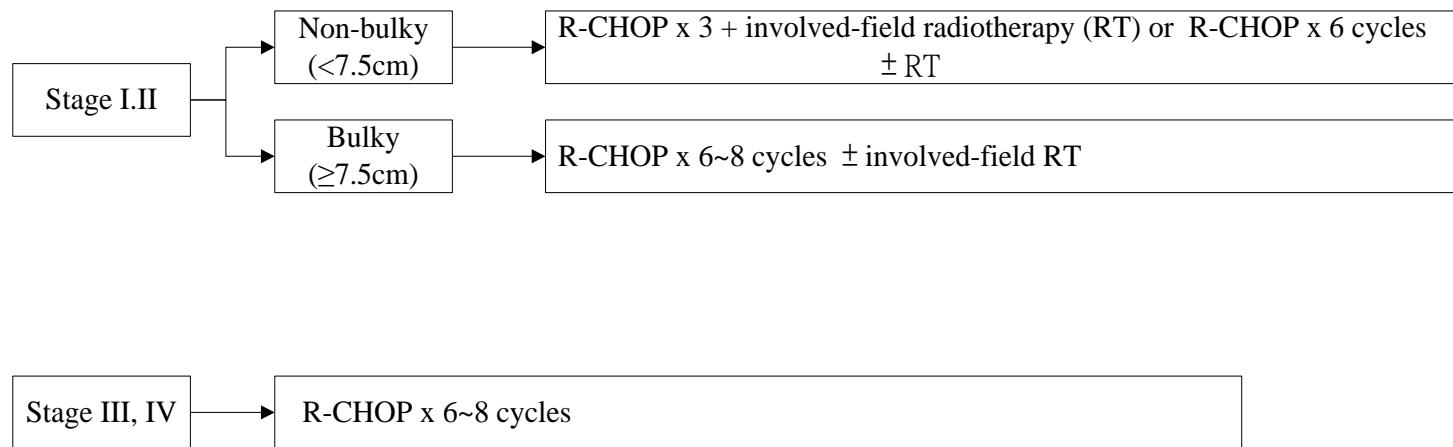
HDT: High dose therapy

ASCR: Autologous stem cell rescue

參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

### Treatment Guidelines for Diffuse Large B-cell Lymphoma



註：

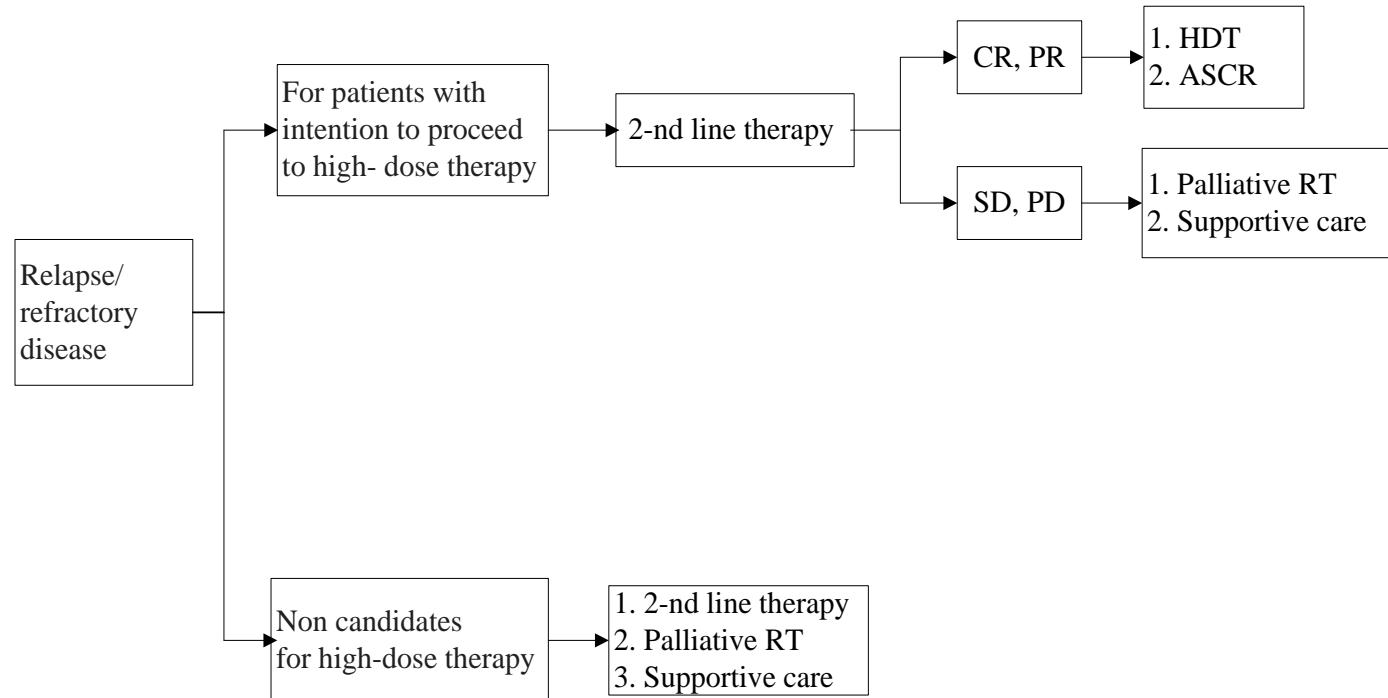
\* R-CHOP or R-COP for old age

# PET /CT if response is uncertain

參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

## Treatment Guidelines for Diffuse Large B-cell Lymphoma



參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

## International prognostic index (IPI score)

**International Prognostic Index (Aggressive NHL)**

- Age >60 years
- Serum LDH >1x normal
- ECOG Performance status  $\geq 2$
- Ann Arbor Stage III or IV
- Extranodal involvement >1 sites

score	Risk Group	5 years OS (%)	CR rate (%)
0 or 1	Low	73	87
2	Low ~ intermediate	51	67
3	High ~ intermediate	43	55
4 or 5	High	26	44

NEJM 1993; 329: 987

**Revised International Prognostic Index (for DLBCL)**

score	Risk Group	4 years OS (%)	4 years PFS (%)
0	Very good	94	94
1~2	Good	79	80
3~5	Poor	55	53

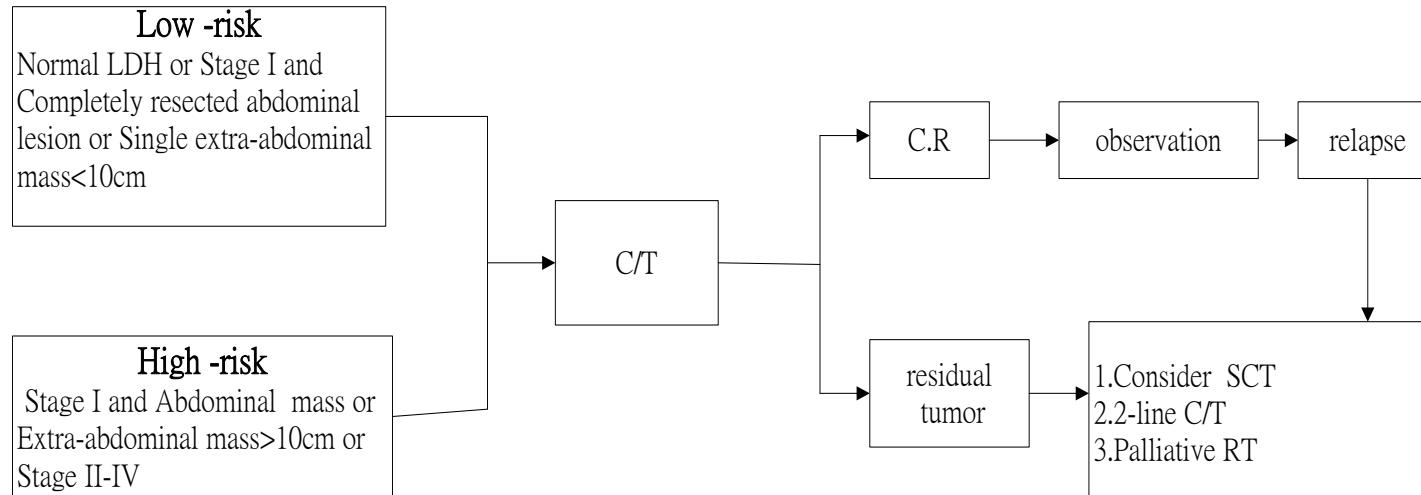
Blood 2007; 109: 1857

參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

### Burkitt's Lymphoma

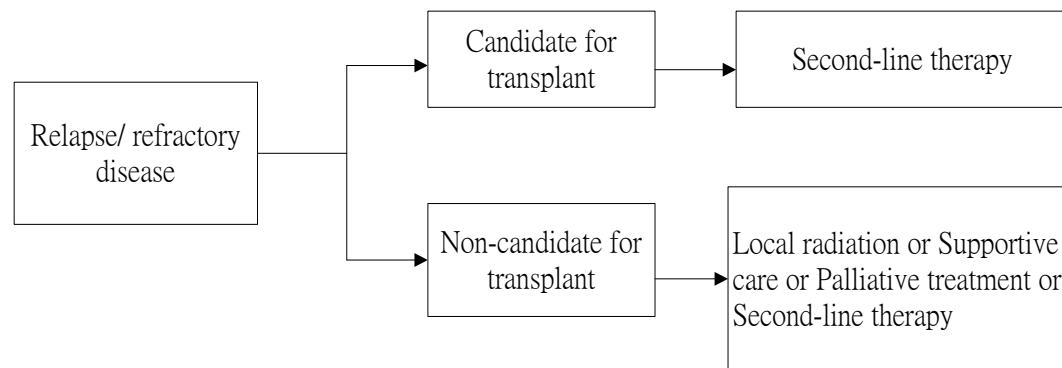
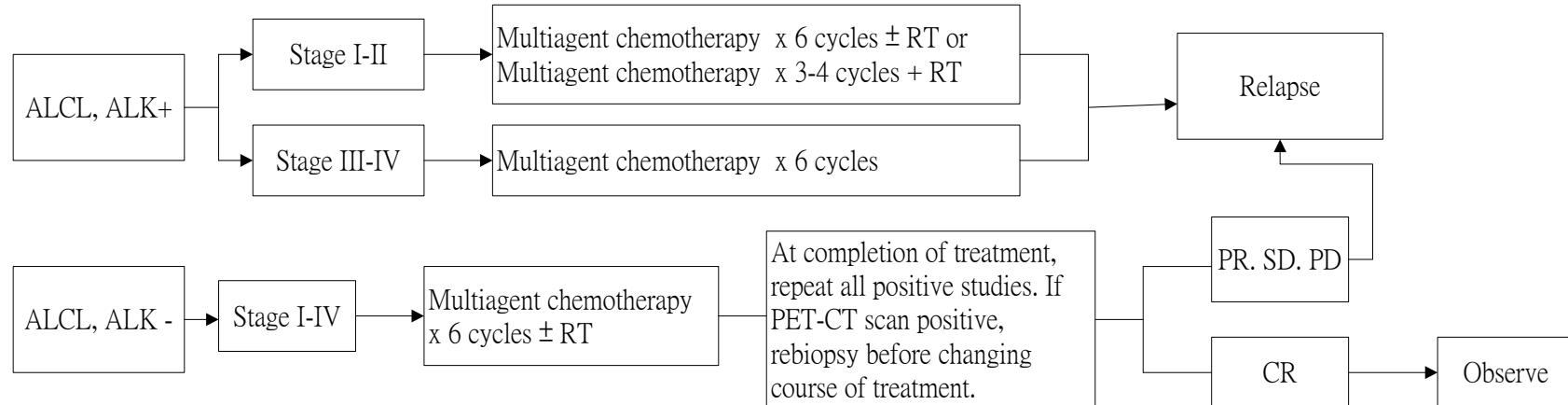
#### Risk assessment



參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024.NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

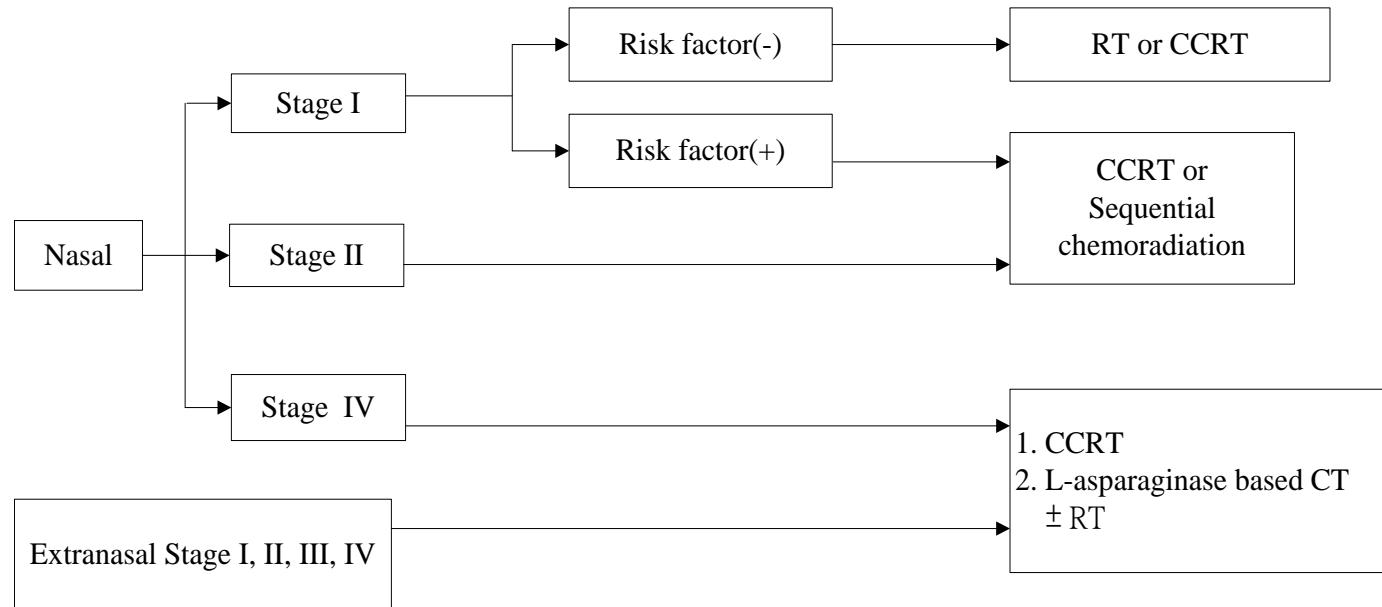
## Treatment for Peripheral T-cell Lymphoma



參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

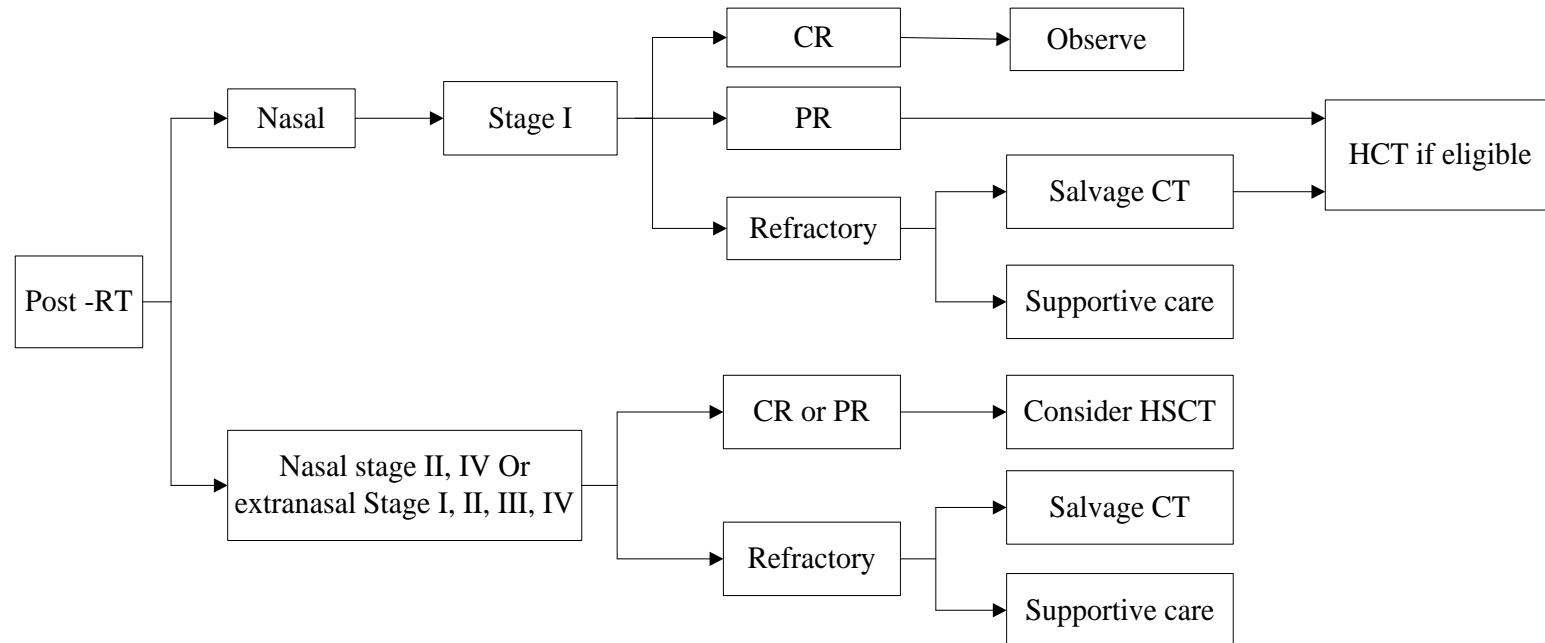
### Treatment for Extranodal NK/T Cell lymphoma, nasal type



#### 參考資料來源：

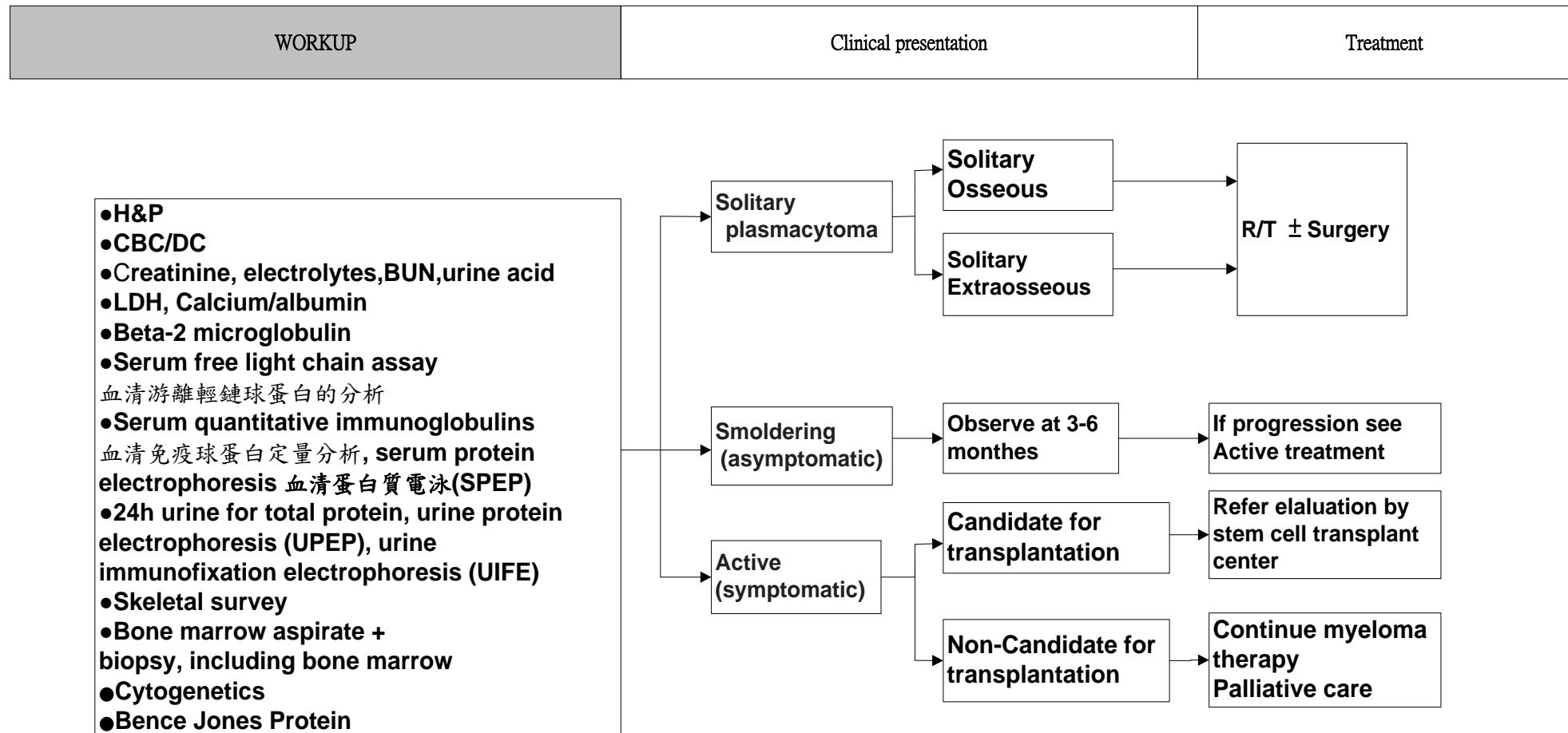
1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines

## Treatment for Extranodal NK/T Cell lymphoma, nasal type



參考資料來源：

1. V1 2024. NCCN B-cell **Lymphomas** Guidelines
2. V1 2024. NCCN T-cell **Lymphomas** Guidelines
3. V1 2024. NCCN CLL/SLL Guidelines



**STAGING SYSTEMS FOR MULTIPLE MYELOMA**

Stage	ISS	R-ISS
I	Serum beta-2 microglobulin < 3.5 mg/L, Serum albumin ≥ 3.5 g/dL	ISS stage I and at standard-risk Chromosomal abnormalities by FISH and Serum LDH ≤ the upper limit of normal
II	Neither stage I nor stage III	Not R-ISS stage I or III
III	Serum beta-2 microglobulin ≥ 5.5 mg/L	ISS stage III and either high-risk Chromosomal abnormalities by FISH and Serum LDH > the upper limit of normal