



# 中山醫學大學附設醫院

## 皮膚癌診療指引

本臨床指引參考美國NCCN版本

皮膚癌多專科醫療團隊編修

2018/01/18 Version2.0  
2016/12/21 Version1.0

癌症委員會主任委員	癌症委員會執行長	癌症中心主任	團隊負責人



## 修訂內容

頁數	原文	修訂/增修
第 1 頁	前言 2016/12/21 Version1.0	前言 2018/01/18 Version2.0
第 4 頁	<p><b>(2) 鱗狀上皮細胞癌</b>  <b>Tumor-node-metastasis(TNM) staging system for carcinoma of the breast(AJCC7th)</b></p> <p><u>T0</u> No evidence of primary tumor  <u>T4</u> Tumor with invasion of skeleton(axial or appendicular) or perineural invasion of skull base</p> <p>Clinical N (cN) <u>N3</u> Metastasis in a lymph node, more than 6cm in greatest dimension.</p>	<p><b>Tumor-node-metastasis(TNM) staging system for carcinoma of the breast(AJCC8th)</b></p> <p>刪除 <u>T0</u> No evidence of primary tumor      增訂 <u>T4a</u> Tumor with gross cortical bone/marrow invasion      增訂 <u>T4b</u> Tumor with skull base invasion and/or skull base foramen involvement.      增訂 <u>N3a</u> Metastasis in a lymph node larger than 6 cm in greatest dimension and ENE(-).      增訂 <u>N3b</u> Metastasis in any node(s) and ENE(+).</p>
第 5 頁	<p><b>黑色素細胞癌(Melanoma)</b>  <b>Tumor-node-metastasis(TNM) staging system for carcinoma of the breast(AJCC7th)</b></p> <p><u>T1</u> Melanomas 1.0 mm or less in thickness  <u>T2</u> Melanomas 1.01-2.0 mm  <u>T3</u> Melanomas 2.01-4.0 mm  <u>T4</u> Melanomas more than 4.0mm</p> <p><u>N1a</u> Metastastic 1 Node;micrometastasis.  <u>N1b</u> Metastastic 1 Node;macrometastasis.  <u>N3</u> 4 or more metastatic nodes, or matted nodes, or in transit met(s)/satellite(s) with metastatic node(s)</p> <p><u>M0</u> No detectable evidence of distant metastases</p>	<p><b>Tumor-node-metastasis(TNM) staging system for carcinoma of the breast(AJCC8th)</b></p> <p>增訂 <u>T1a</u> Thickness &lt;0.8mm without ulceration      增訂 <u>T1b</u> Thickness &lt;0.8mm with ulceration      增訂 <u>T1b</u> Thickness 0.8-1.0mm with or without ulceration.      增訂 <u>T2a</u> Thickness &gt;1.0-2.0mm without ulceration      增訂 <u>T2b</u> Thickness &gt;1.0-2.0mm with ulceration      增訂 <u>T3a</u> Thickness &gt;2.0-4.0mm without</p>



	<p><u>M1a</u> Metastases to skin, subcutaneous, or distant lymph nodes</p> <p><u>M1b</u> Metastases to lung</p> <p><u>M1c</u> Metastases to all other visceral sites or distant metastases to any site combined with an elevated serum LDH</p>	<ul style="list-style-type: none"> <li>ulceration</li> <li>增訂 <u>T3b</u> Thickness &gt;2.0-4.0mm with ulceration</li> <li>增訂 <u>T4a</u> Thickness &gt;4.0mm without ulceration</li> <li>增訂 <u>T4b</u> Thickness &gt;4.0mm with ulceration</li> <li>增訂 <u>N1c</u> No regional lymph node disease; Presence of in-transit, satellite, and /or microsatellite metastases</li> <li>增訂 <u>N3a</u> Four or more clinically occult (i.e., detected by SLN biopsy)</li> <li>增訂 <u>N3b</u> Four or more, at least one of which was clinically detected, or presence of any number of matted nodes.</li> <li>增訂 <u>N3c</u> Two or more clinically occult or clinically detected and/or presence of any number of matted nodes; Presence of in-transit, satellite, and /or microsatellite metastases</li> <li>增訂 <u>M1</u> Evidence of distant metastasis</li> <li>增訂 <u>M1d</u> Distant metastasis to CNS with or without M1a, M1b, or M1c sites or disease.</li> </ul>
第 32 頁	泰伏樂(Dabrafenib) 曲美替尼片(Trametinib) Dabrafenib+ Trametinib	刪除 泰伏樂(Dabrafenib) 刪除 曲美替尼片(Trametinib) 刪除 Dabrafenib+ Trametinib



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## 一、前言

常見的皮膚癌有基底細胞癌(Basal Cell Carcinoma)、鱗狀細胞癌(Squamous Cell Carcinoma)、黑色素細胞癌(Melanoma)。基底細胞癌源自於皮膚表皮底層的柱狀基底細胞，是人類最常見的癌症，臨床可見 Pearly border 與微血管擴張，少數有 Rodent ulcer，基底細胞癌侵襲性與轉移性皆低，通常手術切除乾淨與定期追蹤，預後通常都不錯並且有極高的生存率。鱗狀細胞癌源自於皮膚表皮層的棘狀細胞，臨床常見有角化與色澤形狀不一的腫瘤，有時有 Marjolin's ulcer，預後與腫瘤大小、位置、是否有神經侵犯、是否有淋巴與遠端器官轉移有關。黑色素癌是轉移性高且死亡率也高的皮膚癌，在臺灣的發生率約為十萬分之零點八。東方人的黑色素癌好發在手指尖或是腳掌，稱為肢端型黑色素癌 (acral lentiginous type of melanoma)。警覺心不足或忽略檢查腳底有無異常黑點，常會延誤診斷而耽誤治療。黑色素癌的厚度與是否有淋巴結或器官轉移，影響了患者的預後，早期黑色素癌，以手術與前哨淋巴結檢查切除，為最佳治療方式，然而，轉移型黑色素癌的治療則相當不容易，黑色素癌容易轉移到肺部，腦部，骨頭，肝臟等。傳統藥物化療藥物 Dacarbazine 對第四期轉移性黑色素癌的療效有限，平均存活時間大約只有 6 至 7 個月。而傳統免疫藥物 IFN 2b 與高劑量 IL-2 的副作用多，包括高燒、寒顫、低血壓、心跳過速等等不舒服的症狀，往往讓患者難以承受而放棄治療。



然而，自人類基因解序幫助科學家對疾病致病機轉更加地瞭解，轉移型黑色素癌治療在 2010 年有了新的突破。

整個癌症治療指引也有了重大改變。發展中的新治療主要分成兩個部分，一個是標靶治療，另一個則是新型的免疫治療，並以合併治療為趨勢。標靶治療主要是針對黑色素癌細胞生長所需的訊息傳遞因子(標的)給予抑制，例如 BRAF 基因 V600E 的突變對黑色素癌細胞生長非常重要，標靶治療針對 BRAF 抑制的藥物有日沛樂/Zelboraf (Vemurafenib) 以及泰伏樂/Tafinlar (Dabrafenib)，日沛樂於 2014 年在台灣上市，有健保給付，用於治療 BRAF V600E 突變陽性 WHO 體能狀態小於等於二，且罹患無法切除(第ⅢC 期)或轉移性(第Ⅳ期)黑色素癌之病人。在 BRAF 基因 V600E 突變陽性的轉移型黑色素癌病患，標靶治療可以讓腫瘤快速地縮小，但對生存率的延長沒有顯著幫忙。

在腫瘤微環境研究發現，癌細胞為了能逃避免疫細胞的追殺，會用各種方法去干擾身體的免疫系統。其中一種方式就是藉由活化免疫系統的控制因子(免疫檢查點蛋白)，進而讓免疫系統失能，無法攻擊黑色素癌細胞。新的免疫療法就是想辦法去抑制這些控制因子，減弱免疫檢查點蛋白的抑制能力，讓免疫系統能夠恢復原本的功能，去攻擊黑色素癌細胞。臺灣有抑制 CTLA-4 的益伏/Yervoy (ipilimumab)與抑制 PD-1 的吉舒達 Keytruda (Pembrolizumab)及抑制 PD-1 的保疾伏 Opdivo (Nivolumab)。對於轉移性黑色素癌的新進展，著實令人振奮，但仍有許多待解決的問題例如亞洲病



患標靶基因突變比率偏低、抗藥性、副作用、健保給付、昂貴藥費等等。如何結合目前所有的各種標靶治療，免疫治療，找出病人最適合的治療藥物組合，成了當前最大挑戰。

## 二、皮膚癌分期

### (1) 基底細胞癌(Basal cell carcinoma)

Stage 0: Cancer involves only the epidermis and has not spread to the dermis

Stage I: Cancer is not large (ie, < 2 cm) and has not spread to the lymph nodes or other organs

Stage II: Cancer is large (ie, >2 cm) but has not spread to lymph nodes or other organs

Stage III: Cancer has spread to tissues beneath the skin (eg, muscle, bone, cartilage), and/or to regional lymph nodes but not to other organs.

Stage IV: Cancer can be any size and has spread to other organs



## (2) 鱗狀上皮細胞癌(Cutaneous Squamous Cell Carcinoma)

## Primary Tumor (T)

<b>TX</b>	Primary tumor cannot be assessed
<b>Tis</b>	Carcinoma <i>in situ</i>
<b>T1</b>	Tumor smaller than 2 cm in greatest dimension
<b>T2</b>	Tumor 2 cm or larger, but smaller than 4 cm in greatest dimension
<b>T3</b>	Tumor 4 cm or larger in maximum dimension or minor bone erosion or perineural invasion or deep invasion*
<b>T4</b>	Tumor with gross cortical bone/marrow, skull base invasion and/or skull base foramen invasion
<b>T4a</b>	Tumor with gross cortical bone/marrow invasion
<b>T4b</b>	Tumor with skull base invasion and/or skull base foramen involvement

\*Deep invasion is defined as invasion beyond the subcutaneous fat or >6 mm (as measured from the granular layer of adjacent normal epidermis to the base of the tumor); perineural invasion for T3 classification is defined as tumor cells within the nerve sheath of a nerve lying deeper than the dermis or measuring 0.1 mm or larger in caliber, or presenting with clinical or radiographic involvement of named nerves without skull base invasion or transgression.

## Regional Lymph Node (N)

## Clinical N (cN)

<b>NX</b>	Regional lymph nodes cannot be assessed
<b>N0</b>	No regional lymph node metastasis
<b>N1</b>	Metastasis in a single ipsilateral lymph node, 3 cm or smaller in greatest dimension and ENE(-)
<b>N2</b>	Metastasis in a single ipsilateral node larger than 3 cm but not larger than 6 cm in greatest dimension and ENE(-); or metastases in multiple ipsilateral lymph nodes, none larger than 6 cm in greatest dimension and ENE(-); or in metastasis in bilateral or contralateral lymph nodes, none larger than 6 cm in greatest dimension and ENE(-)
<b>N2a</b>	Metastasis in a single ipsilateral node larger than 3 cm but not larger than 6 cm in greatest dimension and ENE(-)
<b>N2b</b>	Metastasis in multiple ipsilateral nodes, none larger than 6 cm in greatest dimension and ENE(-)
<b>N2c</b>	Metastasis in bilateral or contralateral lymph nodes, none larger than 6 cm in greatest dimension and ENE(-)
<b>N3</b>	Metastasis in a lymph node larger than 6 cm in greatest dimension and ENE(-); or metastasis in any node(s) and clinically overt ENE [ENE(+)]
<b>N3a</b>	Metastasis in a lymph node larger than 6 cm in greatest dimension and ENE(-)
<b>N3b</b>	Metastasis in any node(s) and ENE (+)

Note: A designation of "U" or "L" may be used for any N category to indicate metastasis above the lower border of the cricoid (U) or below the lower border of the cricoid (L). Similarly, clinical and pathological extranodal extension (ENE) should be recorded as ENE(-) or ENE(+).



## Staging continued

### American Joint Committee on Cancer (AJCC)

TNM Staging Classification for Cutaneous Squamous Cell Carcinoma of the Head and Neck (cSCC) (8th ed., 2016)

### Regional Lymph Node (N) continued

#### Pathological N (pN)

<b>NX</b>	Regional lymph nodes cannot be assessed
<b>N0</b>	No regional lymph node metastasis
<b>N1</b>	Metastasis in a single ipsilateral lymph node, 3 cm or smaller in greatest dimension and ENE(-)
<b>N2</b>	Metastasis in a single ipsilateral lymph node, 3 cm or smaller in greatest dimension and ENE(+); or larger than 3 cm but not larger than 6 cm in greatest dimension and ENE(-); or metastases in multiple ipsilateral lymph nodes, none larger than 6 cm in greatest dimension and ENE(-); or in bilateral or contralateral lymph node(s), none larger than 6 cm in greatest dimension, ENE(-)
<b>N2a</b>	Metastasis in single ipsilateral node 3 cm or smaller in greatest dimension and ENE(+); or a single ipsilateral node larger than 3 cm but not larger than 6 cm in greatest dimension and ENE(-)
<b>N2b</b>	Metastasis in multiple ipsilateral nodes, none larger than 6 cm in greatest dimension and ENE(-)
<b>N2c</b>	Metastasis in bilateral or contralateral lymph node(s), none larger than 6 cm in greatest dimension and ENE(-)
<b>N3</b>	Metastasis in a lymph node larger than 6 cm in greatest dimension and ENE(-); or in a single ipsilateral node larger than 3 cm in greatest dimension and ENE(+); or multiple ipsilateral, contralateral, or bilateral nodes, any with ENE(+); or a single contralateral node of any size and ENE(+)
<b>N3a</b>	Metastasis in a lymph node larger than 6 cm in greatest dimension and ENE(-)
<b>N3b</b>	Metastasis in a single ipsilateral node larger than 3 cm in greatest dimension and ENE(+); or multiple ipsilateral, contralateral, or bilateral nodes, any with ENE(+); or a single contralateral node of any size and ENE(+)
Note: A designation of "U" or "L" may be used for any N category to indicate metastasis above the lower border of the cricoid (U) or below the lower border of the cricoid (L). Similarly, clinical and pathological extranodal extension (ENE) should be recorded as ENE(-) or ENE(+).	

The 8th Edition Cancer Staging System will be implemented on January 1, 2018.

For the AJCC 7th Edition Staging Manual, visit [www.springer.com](http://www.springer.com).

### Distant Metastasis (M)

<b>M0</b>	No distant metastasis
<b>M1</b>	Distant metastasis

### AJCC Prognostic Stage Groups

<b>Tis</b>	<b>N0</b>	<b>M0</b>	<b>0</b>
<b>T1</b>	<b>N0</b>	<b>M0</b>	<b>I</b>
<b>T2</b>	<b>N0</b>	<b>M0</b>	<b>II</b>
<b>T3</b>	<b>N0</b>	<b>M0</b>	<b>III</b>
<b>T1</b>	<b>N1</b>	<b>M0</b>	<b>III</b>
<b>T2</b>	<b>N1</b>	<b>M0</b>	<b>III</b>
<b>T3</b>	<b>N1</b>	<b>M0</b>	<b>III</b>
<b>T1</b>	<b>N2</b>	<b>M0</b>	<b>IV</b>
<b>T2</b>	<b>N2</b>	<b>M0</b>	<b>IV</b>
<b>T3</b>	<b>N2</b>	<b>M0</b>	<b>IV</b>
<b>Any T</b>	<b>N3</b>	<b>M0</b>	<b>IV</b>
<b>T4</b>	<b>Any N</b>	<b>M0</b>	<b>IV</b>
<b>Any T</b>	<b>Any N</b>	<b>M1</b>	<b>IV</b>

### HISTOLOGIC GRADE (G)

<b>GX</b>	Grade cannot be assessed
<b>G1</b>	Well differentiated
<b>G2</b>	Moderately differentiated
<b>G3</b>	Poorly differentiated
<b>G4</b>	Undifferentiated



## (3) 黑色素細胞癌(Melanoma)

Definition of Primary Tumor (T)

<b>T Category</b>	<b>Thickness</b>	<b>Ulceration status</b>
TX:primary tumor thickness cannot be assessed(e.g., diagnosis by curettage)	Not applicable	Not applicable
T0:no evidence of primary tumor(e.g.,unknown primary or completely regressed melanoma)	Not applicable	Not applicable
Tis(melanoma <i>in situ</i> )	Not applicable	Not applicable
T1	$\leq 1.0\text{mm}$	Unknown or unspecified
T1a	<0.8mm	Without ulceration
T1b	<0.8mm 0.8-1.0mm	With ulceration With or without ulceration
T2	>1.0-2.0mm	Unknown or unspecified
T2a	>1.0-2.0mm	Without ulceration
T2b	>1.0-2.0mm	With ulceration
T3	>2.0-4.0mm	Unknown or unspecified
T3a	>2.0-4.0mm	Without ulceration
T3b	>2.0-4.0mm	With ulceration
T4	>4.0mm	Unknown or unspecified
T4a	>4.0mm	Without ulceration
T4b	>4.0mm	With ulceration



Extent of regional lymph node and/or lymphatic metastasis		
N category	Number of tumor-involved regional lymph node	Presence of in-transit, satellite, and /or microsatellite metastases
NX	Regional nodes not assessed(e.g., SLN biopsy not performed, regional nodes previously removed for another reason) Exception: pathological N category is not required for T1 melanomas ,use cN.	No
N0	No regional metastases detected	No
N1	One tumor-involved node or in-transit, satellite, and/or microsatellite metastases with no tumor-involved nodes	No
N1a	One clinically occult (i.e.,detected by SLN biopsy)	No
N1b	One clinically detected	No
N1c	No regional lymph node disease	Yes
N2	Two or three tumor-involved nodes or in-transit, satellite, and/or microsatellite metastases with one tumor-involved node	
N2a	Two or three clinically occult(i.e.,detected by SLN biopsy)	No
N2b	Two or three, at least one of which was clinically detected	No
N2c	One clinically occult or clinically detected	Yes
N3	Four or more tumor-involved nodes or in-transit, satellite, and/or microsatellite metastases with two or more tumor-involved nodes, or any number of matted nodes without or with in-transit, satellite, and/or microsatellite metastases	
N3a	Four or more clinically occult (i.e., detected by SLN biopsy)	No
N3b	Four or more, at least one of which was clinically detected, or presence of any number of matted nodes	No
N3c	Two or more clinically occult or clinically detected and/or presence of any number of matted nodes	Yes

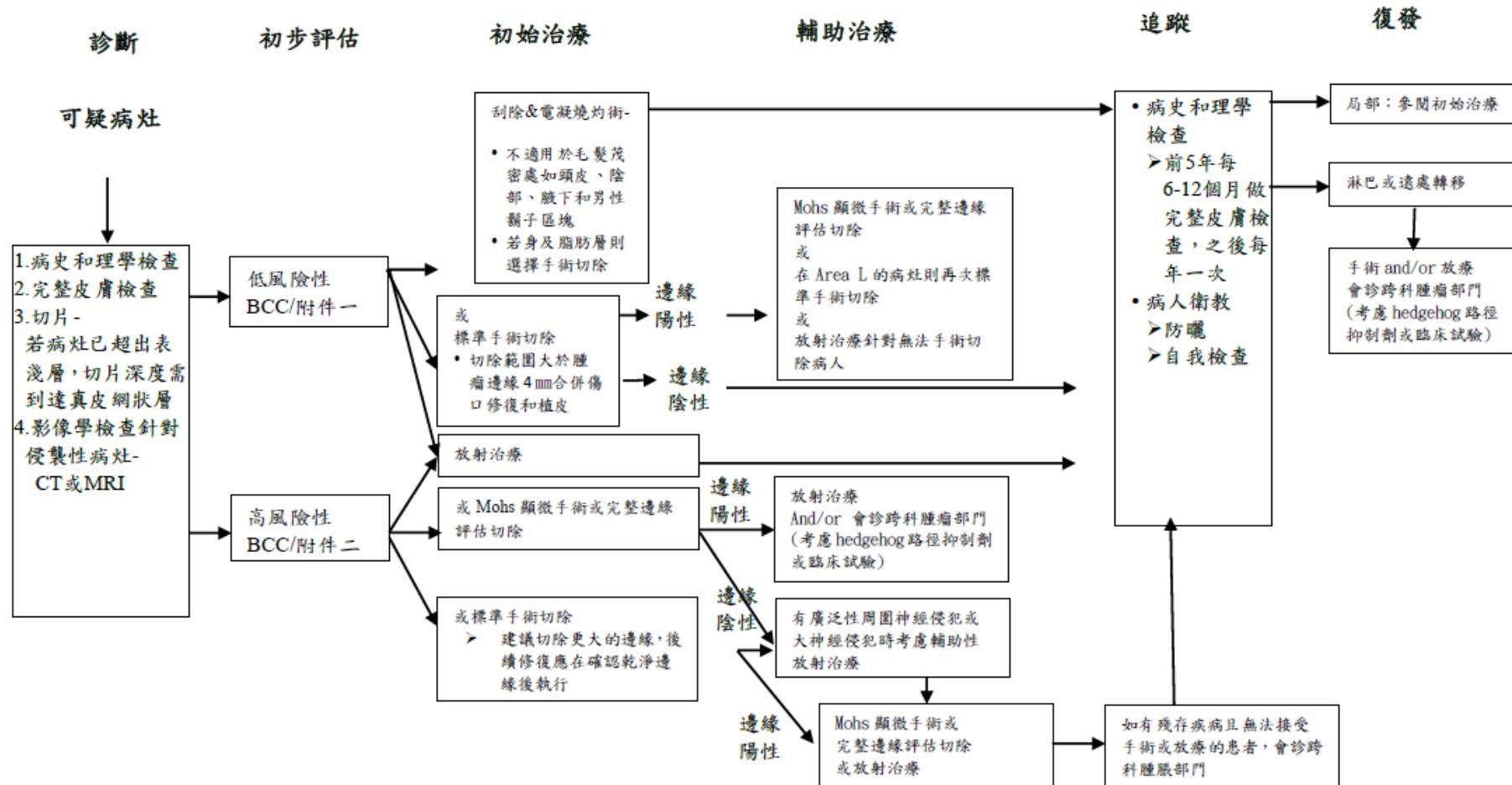


## Definition of Distant Metastasis(M)

M Category	M Criteria	
	Anatomic site	LDH level
M0	No evidence of distant metastasis	Not applicable
M1	Evidence of distant metastasis	See below
M1a	Distant metastasis to skin, soft tissue including muscle, and/or nonregional lymph node	Not recorded or unspecified
M1a(0)		Not elevated
M1a(1)		Elevated
M1b	Distant metastasis to lung with or without M1a sites of disease	Not recorded or unspecified
M1b(0)		Not elevated
M1b(1)		Elevated
M1c	Distant metastasis to non-CNS visceral sites with or without M1a or M1b sites of disease	Not recorded or unspecified
M1c(0)		Not elevated
M1c(1)		Elevated
M1d	Distant metastasis to CNS with or without M1a, M1b, or M1c sites of disease	Not recorded or unspecified
M1d(0)		Normal
M1d(1)		Elevated



### 三、基底細胞癌



侵襲性病灶：包含深部組織如骨頭、神經、深部軟組織。骨頭侵犯安排 CT；深部組織安排 MRI。

目前 FDA 核准的 Hedgehog 藥物：vismodegib/ sonidegib 懷疑大或深部神經侵犯：MRI with contrast

## 附件一、局部復發的危險因子

病史及理學檢查	低風險	高風險
位置/大小	Area L < 20 mm Area M < 10 mm	Area L ≥ 20 mm Area M ≥ 10 mm Area H 任何大小
邊緣	界限分明	界線模糊
原發/續發	原發	續發
免疫抑制	無	有
病灶位置曾接受過放射治療	無	有

Area H的腫瘤不論~~神經侵犯~~屬於高風險。這些地方通常為了美觀，無margin不夠大，易造成復發。建議使用Mohs有micrographic surgery可達到邊緣~~乾淨~~<sup>分類</sup>且最小切除範圍。對於<6mm的~~侵潤性~~<sup>infundibulocystic</sup>，沒有其他危險因子，建議至少要切除4mm的margin，<sup>basosquamous (metatypical)</sup>,sclerosing , Nodular , superficial keratotic , Morpheaform , fibroepithelioma of Pinkus , Mixed infiltrative , micronodular



## 附件二、PRINCIPLES OF TREATMENT FOR BASAL CELL SKIN CANCER

- The primary goal of treatment of basal cell skin cancer is the complete removal of the tumor and the maximal preservation of function and cosmesis. All treatment decisions should be customized to account for the particular factors present in the individual case and for the patient's preference.
- Surgical approaches often offer the most effective and efficient means for accomplishing cure, but considerations of function, cosmesis, and patient preference may lead to choosing radiation therapy as primary treatment in order to achieve optimal overall results.
- In certain patients at high risk for multiple primary tumors, increased surveillance and consideration of prophylactic measures may be indicated.
- In patients with low-risk, superficial basal cell skin cancer, where surgery and radiation are contraindicated or impractical, therapies such as topical 5-fluorouracil, topical imiquimod, photodynamic therapy (eg, aminolevulinic acid [ALA], porfimer sodium), or vigorous cryotherapy may be considered, even though the cure rates may be lower than with surgical treatment modalities.
- When Mohs micrographic surgery with marginal assessment is being performed and the preoperative biopsy is considered insufficient for providing all the staging information required to properly treat the tumor, submission of the central specimen for permanent vertical sections is recommended.
- Use of nicotinamide has been effective in reducing the development of basal cell skin cancers.

## 附件三、PRINCIPLES OF RADIATION THERAPY FOR BASAL CELL SKIN CANCER

Primary Tumor		Dose Time Fractionation Schedule
Tumor Diameter	Margins	Examples of Dose Fractionation and Treatment Duration
<2 cm	1 – 1.5 cm	64 Gy in 32 fractions over 6 – 6.4 weeks 55 Gy in 20 fractions over 4 weeks 50 Gy in 15 fractions over 3 weeks 35 Gy in 5 fractions over 5 days
≥2 cm	1.5 – 2 cm	66 Gy in 33 fractions over 6–6.6 weeks 55 Gy in 20 fractions over 4 weeks
Postoperative adjuvant		50 Gy in 20 fractions over 4 weeks 60 Gy in 30 fractions over 6 weeks



## 附件四、藥物治療

### 1. Inductions and Usage for Erivedge

Erivedge capsule is indicated for the treatment of adults with metastatic basal carcinoma, or with locally advanced basal cell carcinoma that has recurred following surgery or who are not candidates for surgery, and who are not candidates for radiation.

#### Erivedge Dosage nad Administration

The recommended dose of Erivedge is 150mg taken orally once daily until disease progression or until unacceptable toxicity.

Erivedge may be taken with or without food. Swallow capsules wholes. Do not open or crush capsules.

If a dose of Erivedge is missed, do not make up that dose.

#### Dosage Forms and Strengths

Erivedge (vismodegib) capsules, 150mg. The capsule has a pink opaque body and a grey opaque cap, with “150mg” printed on the capsule body and “VISMO” printed on the capsule cap in black ink.

### 2. Clinical trial

### 3. Cisplatin + paclitaxol (self pay)

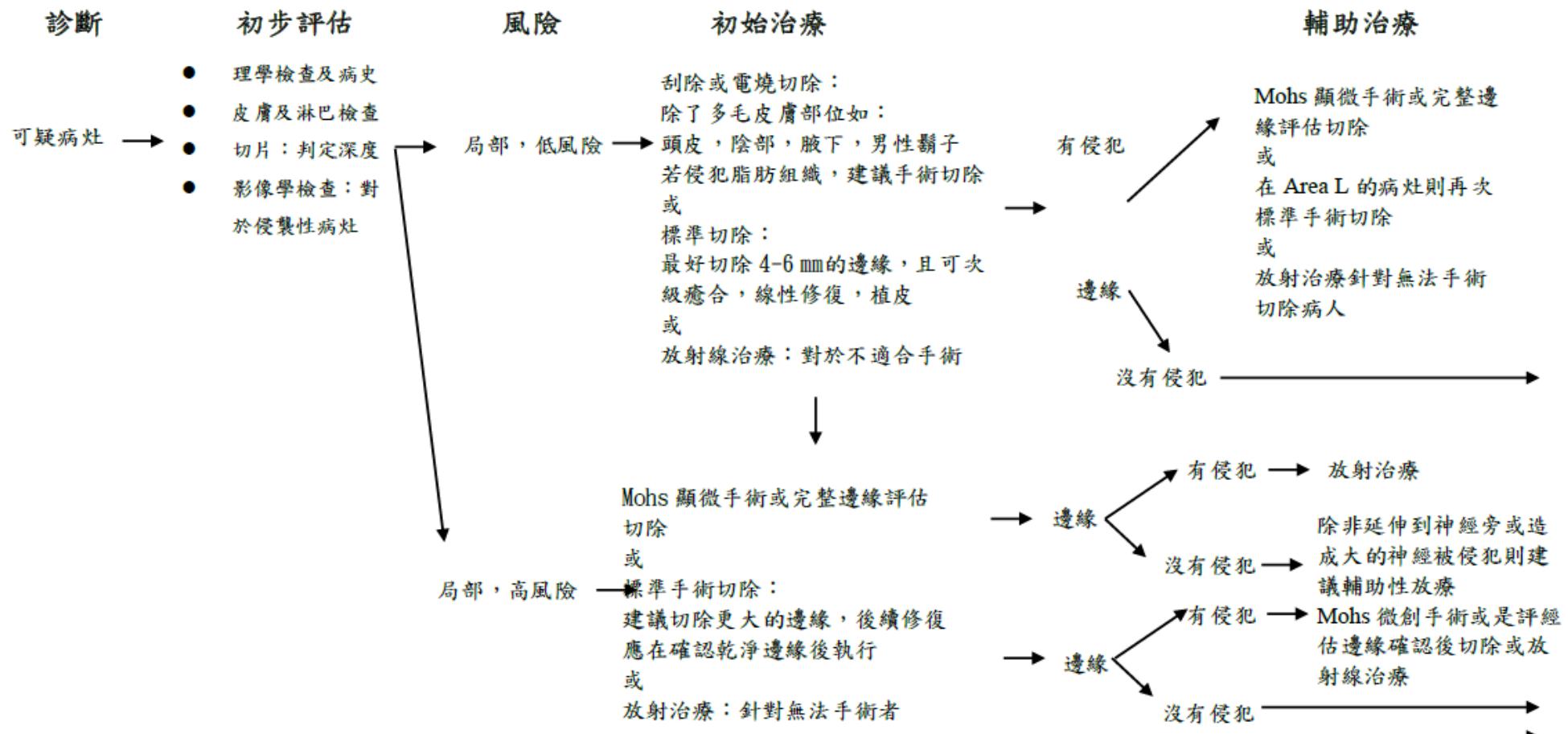
cisplatin (75 mg/m<sup>2</sup>) and paclitaxel (135 mg/m<sup>2</sup>, 3 h infusion) every 3 weeks

Ref: Metastatic basal cell carcinoma: rapid symptomatic response to cisplatin and paclitaxel. ANZ J Surg. 2004 Aug;74(8):704-5.

### 4. Treat as recurrent/metastatic head and neck squamous cell carcinoma

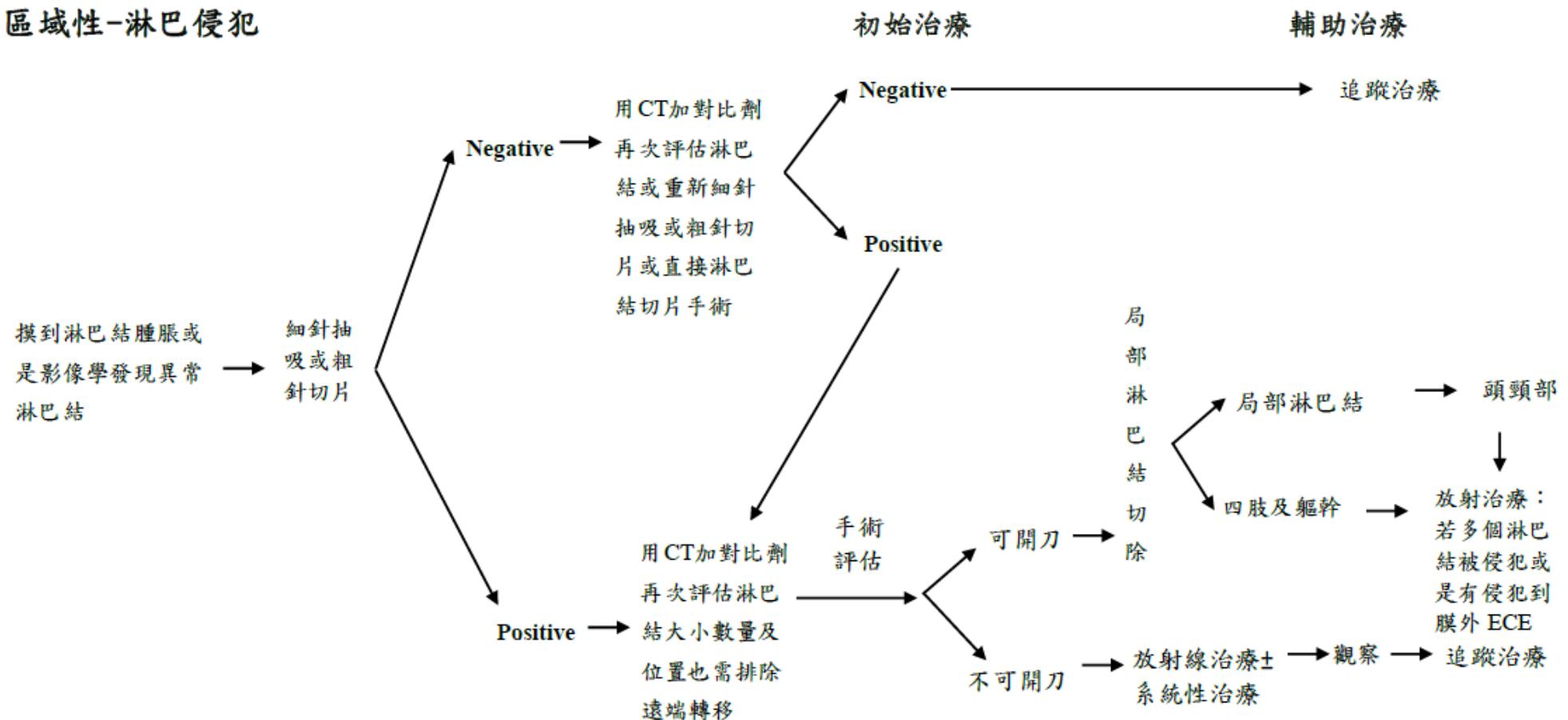


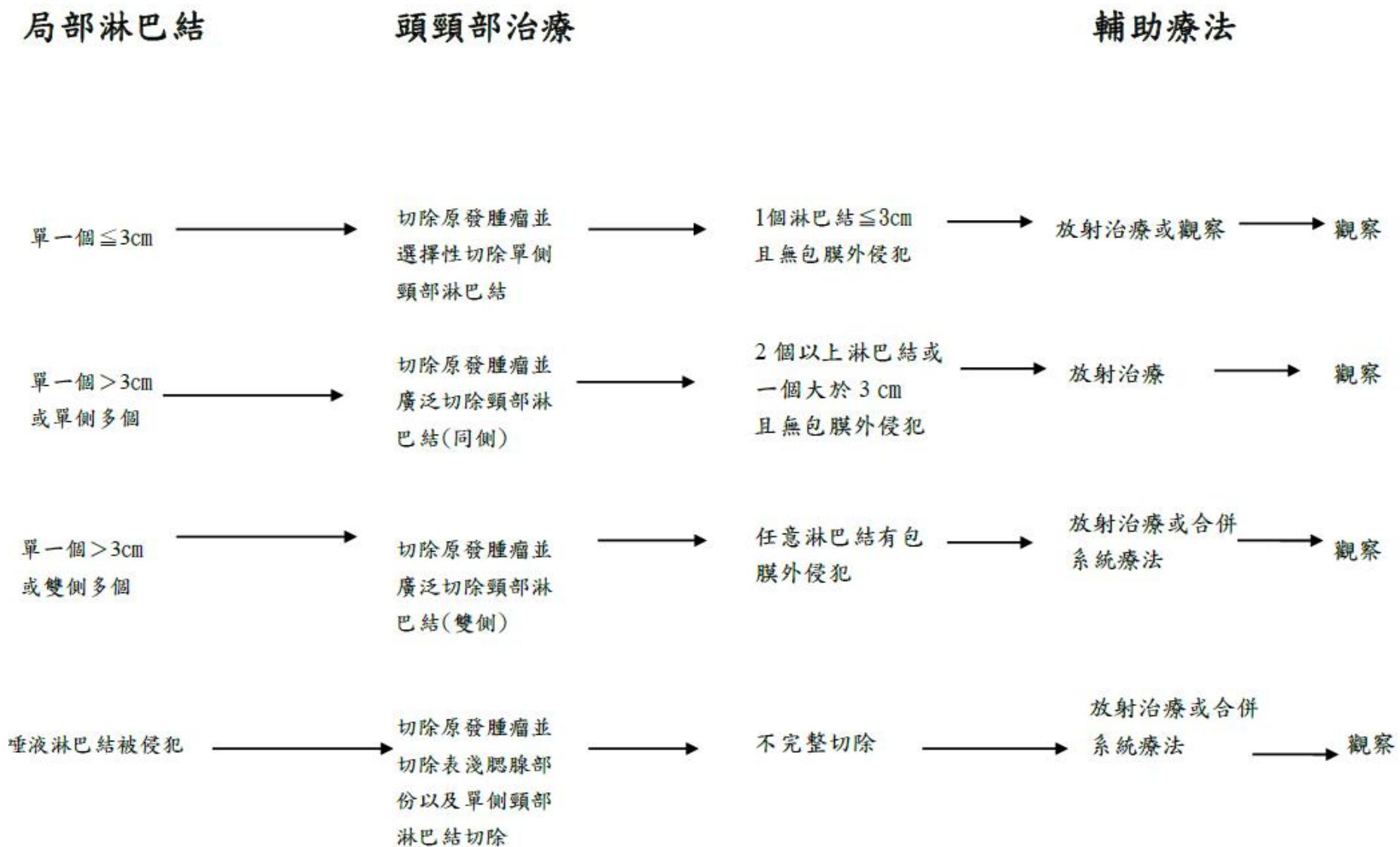
## 四、鱗狀上皮細胞癌





## 區域性-淋巴侵犯







## 追蹤

## Local disease :

- 前2年：3-12個月追蹤
- 第3年：6-12個月追蹤  
之後每年追蹤一次
- 病人衛教
  - 防曬
  - 自我皮膚檢測

## Regional disease :

- 第1年：1-3個月追蹤
- 第2年：2-4個月追蹤
- 第3年：4-6個月追蹤  
之後每年6-12個月追蹤一次
- 病人衛教
  - 防曬
  - 自我皮膚及淋巴結檢測

## 復發及病程進展

局部

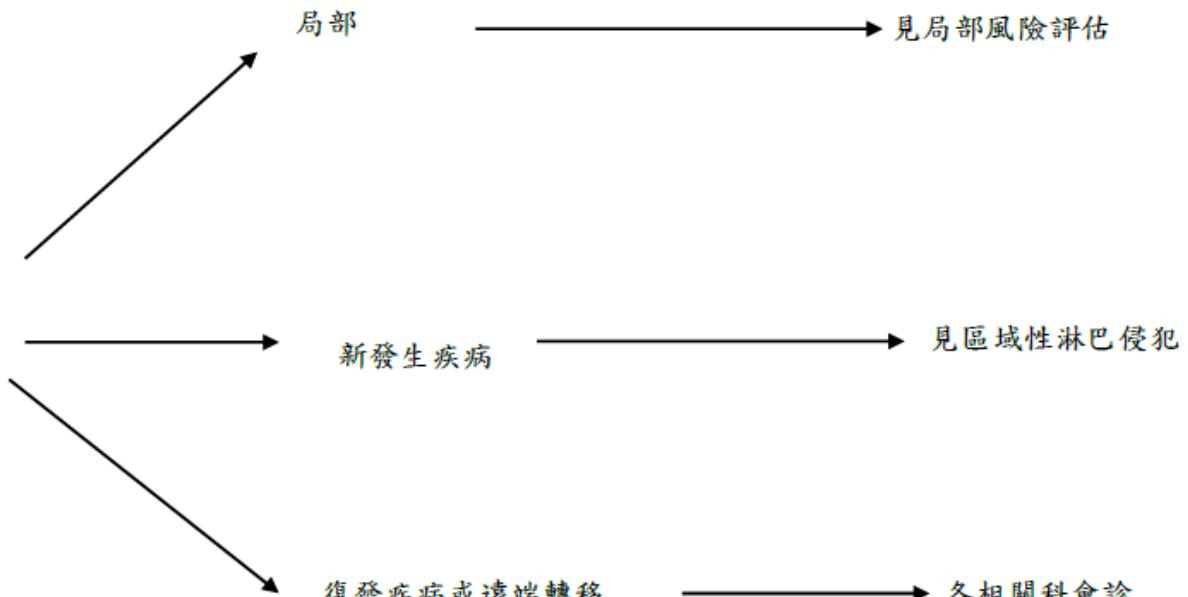
見局部風險評估

新發生疾病

見區域性淋巴侵犯

復發疾病或遠端轉移

各相關科會診





## 附件一、局部，高低風險判斷標準

病史及理學檢查	低風險	高風險
位置/大小	Area L < 20mm Area M < 10mm	Area L ≥ 20mm Area M ≥ 10mm Area H 任何大小
邊緣	界限分明	界線模糊
原發/續發	原發	續發
免疫抑制	無	有
病灶位置曾接受過放射線治療或慢性發炎狀態	無	有
生長快速	無	有
神經、血管、淋巴侵犯	無	有
神經學症狀	無	有
病理分類	分化良好	分化不良 (Adenoid-acantholytic, adenosquamous-mucin production, desmoplastic, metaplastic-carcinosarcomatous type)
深度	<2mm or Clark level I II III	≥2mm or Clark level IV V

Area Low risk: trunk and extremities(excluding hands, feet, pretibial area)

Area Medium risk: pretibial area, face other than mask area (cheek, forehead, scalp, neck)

Area High risk: face mask area+ hands+feet+genitalia (mask area: central face, eyelid, eyebrow, nose, lips-cutaneous and vermillion, chin, mandible, preauricular/postauricular skin sulci, temple, ear)

Area H 的腫瘤不論大小都屬於高風險。這些地方通常為了美觀，margin 不夠大，易造成復發。建議使用 Mohs micrographic surgery 可達到邊緣乾淨，且最小切除範圍。對於<6mm 的腫瘤，沒有其他危險因子，建議至少要切除 4mm 的 margin。



## 附件二、PRINCIPLES OF RADIATION THERAPY FOR SQUAMOUS CELL SKIN CANCER

Primary Tumor		Dose Time Fractionation Schedule
Tumor Diameter	Margins	Examples of Dose Fractionation and Treatment Duration
<2 cm	1 – 1.5 cm	64 Gy in 32 fractions over 6–6.4 weeks 55 Gy in 20 fractions over 4 weeks 50 Gy in 15 fractions over 3 weeks 35 Gy in 5 fractions over 5 days
≥2 cm	1.5 – 2 cm	66 Gy in 33 fractions over 6–6.6 weeks 55 Gy in 20 fractions over 4 weeks
Postoperative adjuvant		50 Gy in 20 fractions over 4 weeks 60 Gy in 30 fractions over 6 weeks

- Protracted fractionation is associated with improved cosmetic results.
- Radiation therapy is contraindicated in genetic conditions predisposing to skin cancer (eg, basal cell nevus syndrome, xeroderma pigmentosum) and connective tissue diseases (eg, scleroderma).

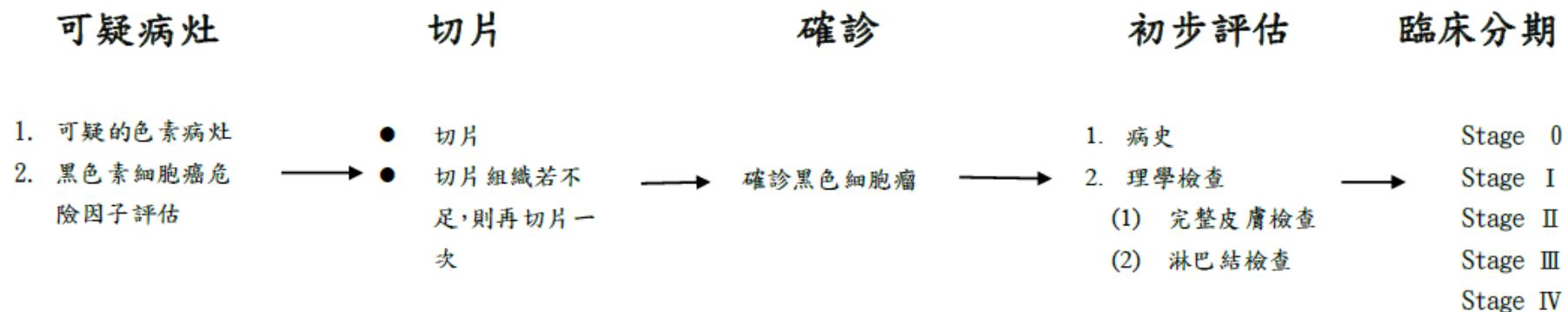


## 附件三、藥物治療

Chemotherapy regimen & EGFR	
Published C/T regimens	schedule
Cisplatin 100mg/m <sup>2</sup> IV D1	Q21 days *6cycles
5-FU 1g/m <sup>2</sup> IV D1-4	Q21 days *6cycles
Cetuximab,400mg/m2 IV Week1 , then 250mg/m2 QW	Till IV or unacceptable toxicity



## 五、黑色素細胞癌



切片病理組織學證實：

Breslow thickness +

Ulceration status (present or absent) +

Dermal mitotic rate (#/ $\text{mm}^2$ ) +

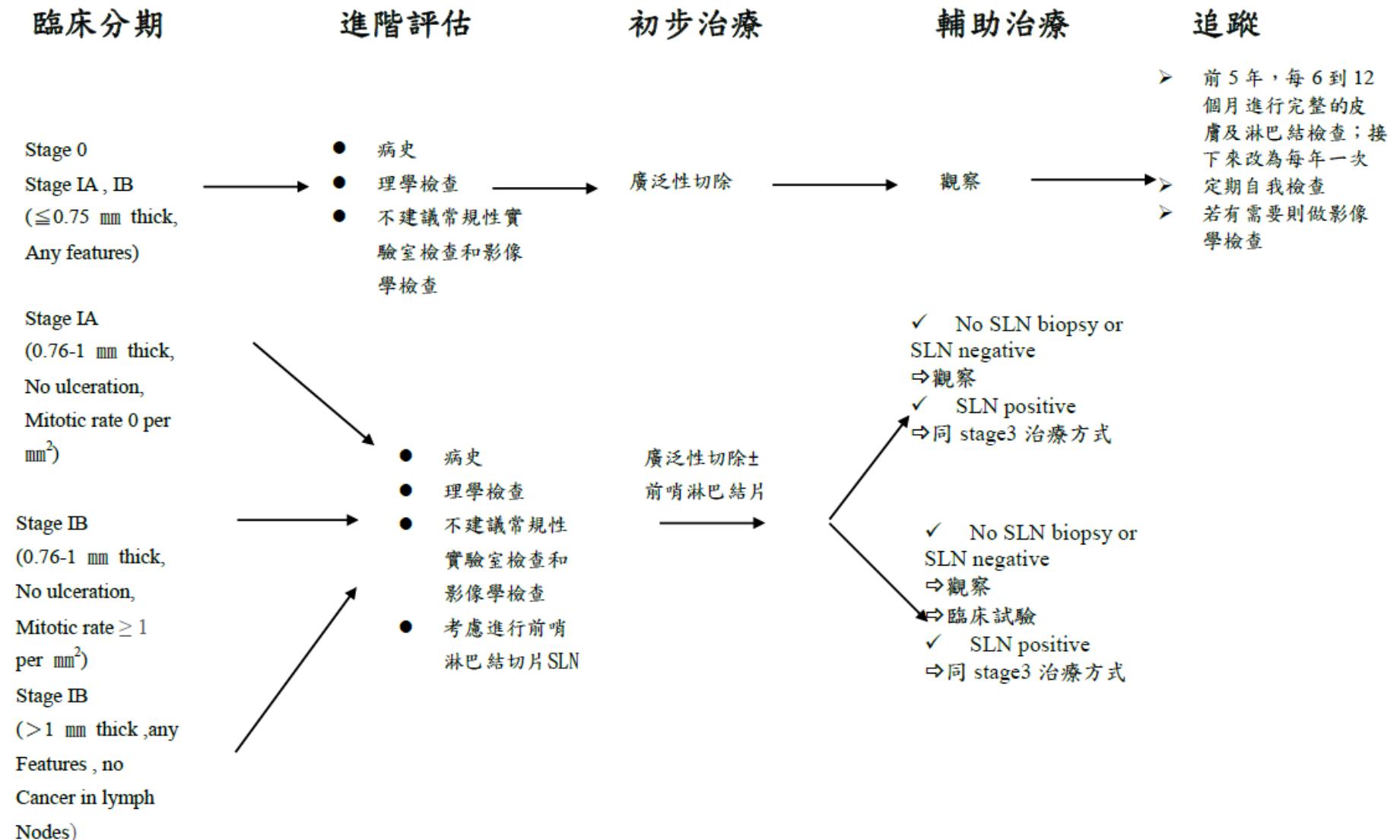
Assess deep and peripheral margin status +

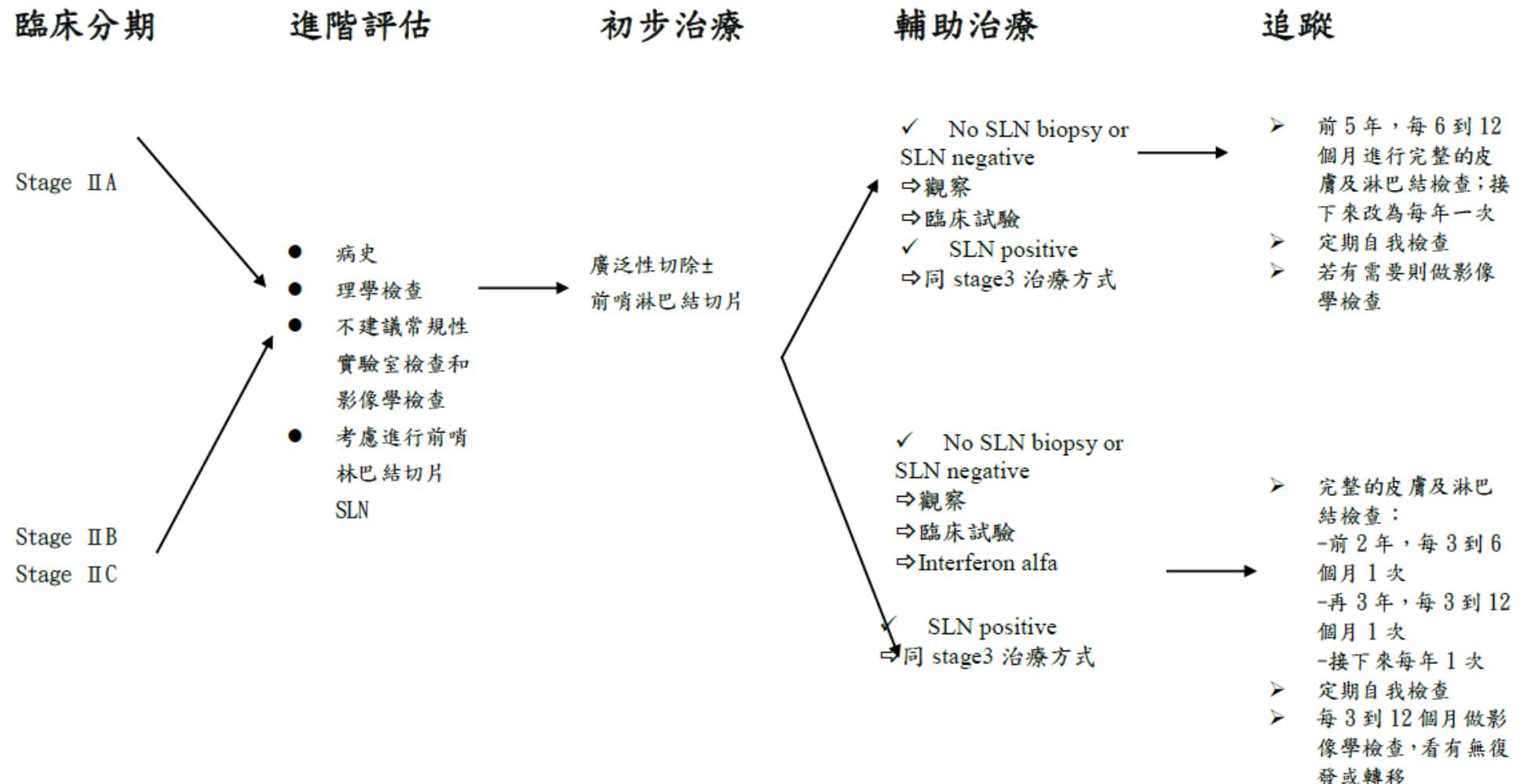
Microsatellitosis (present or absent) +

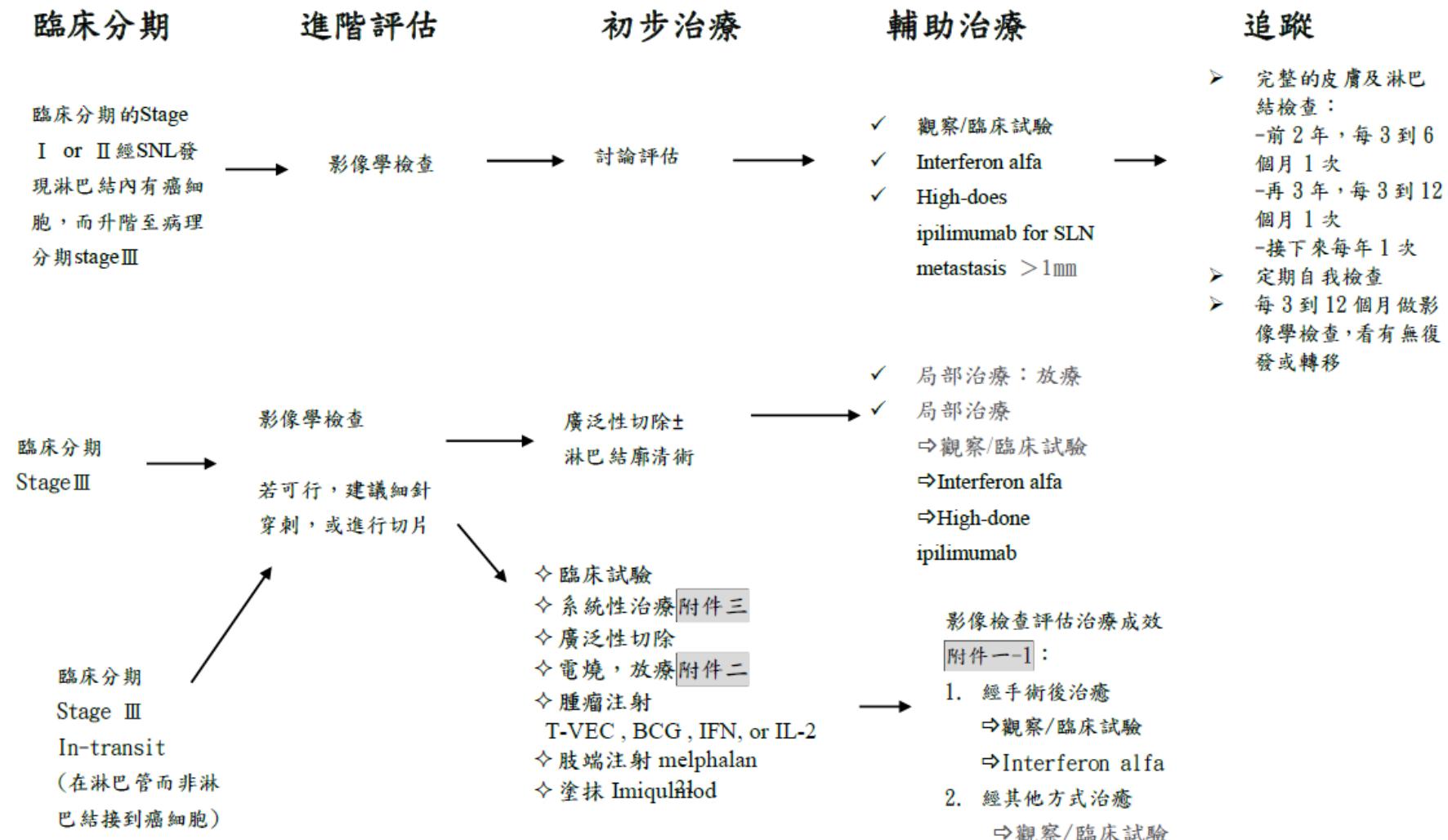
Clark level (for nonulcerated lesions where mitotic rate is not determined,

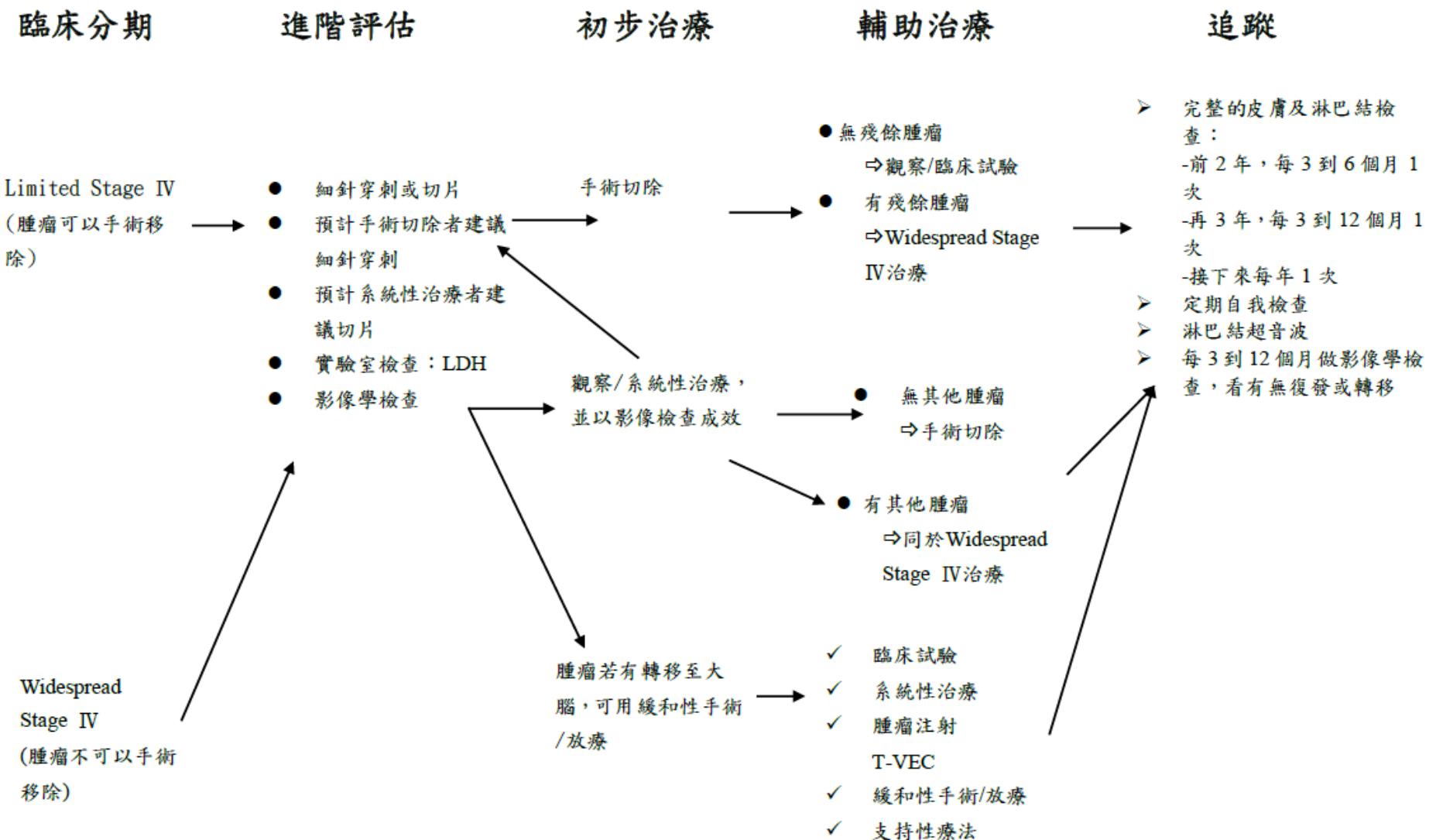
For lesions  $\leq 1 \text{ mm}$ ) +

Pure desmoplasia if present



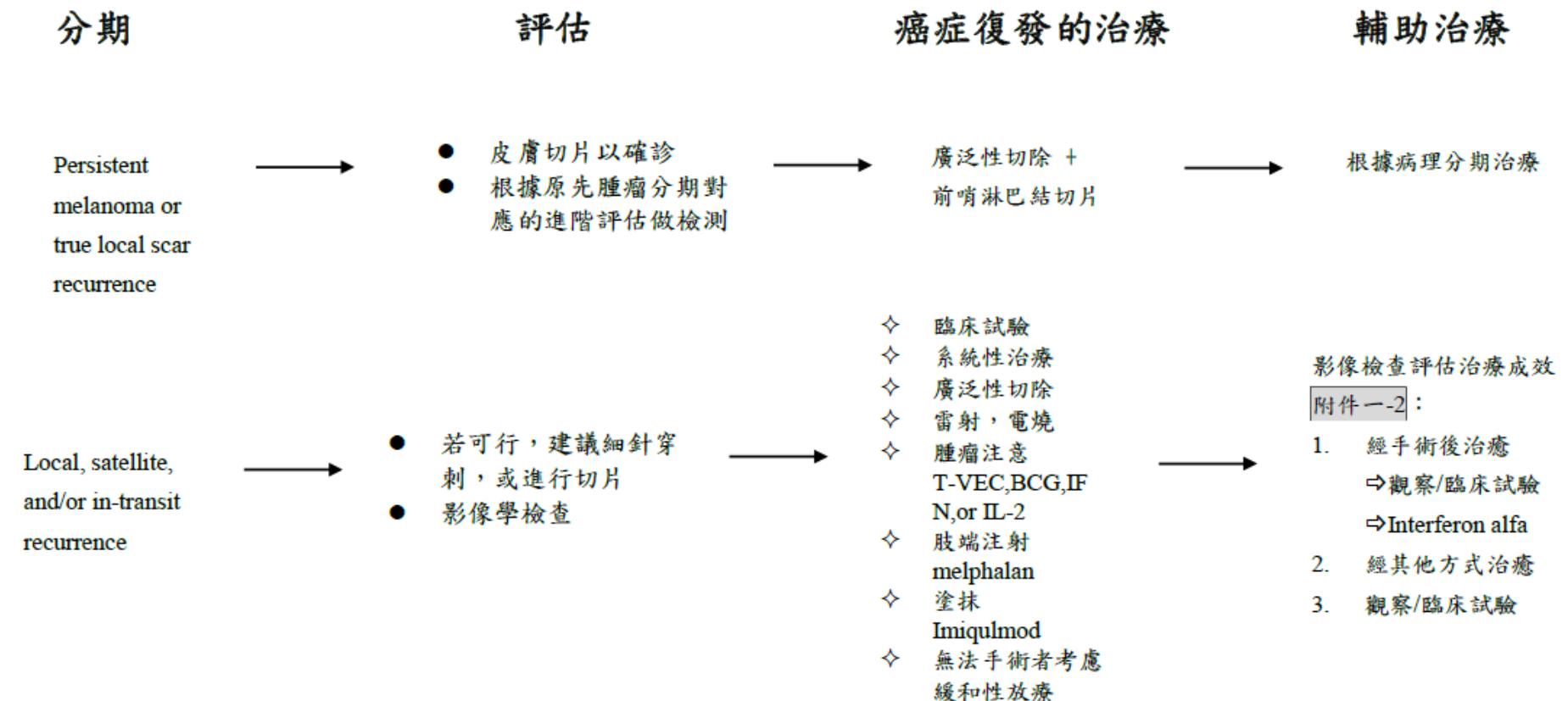








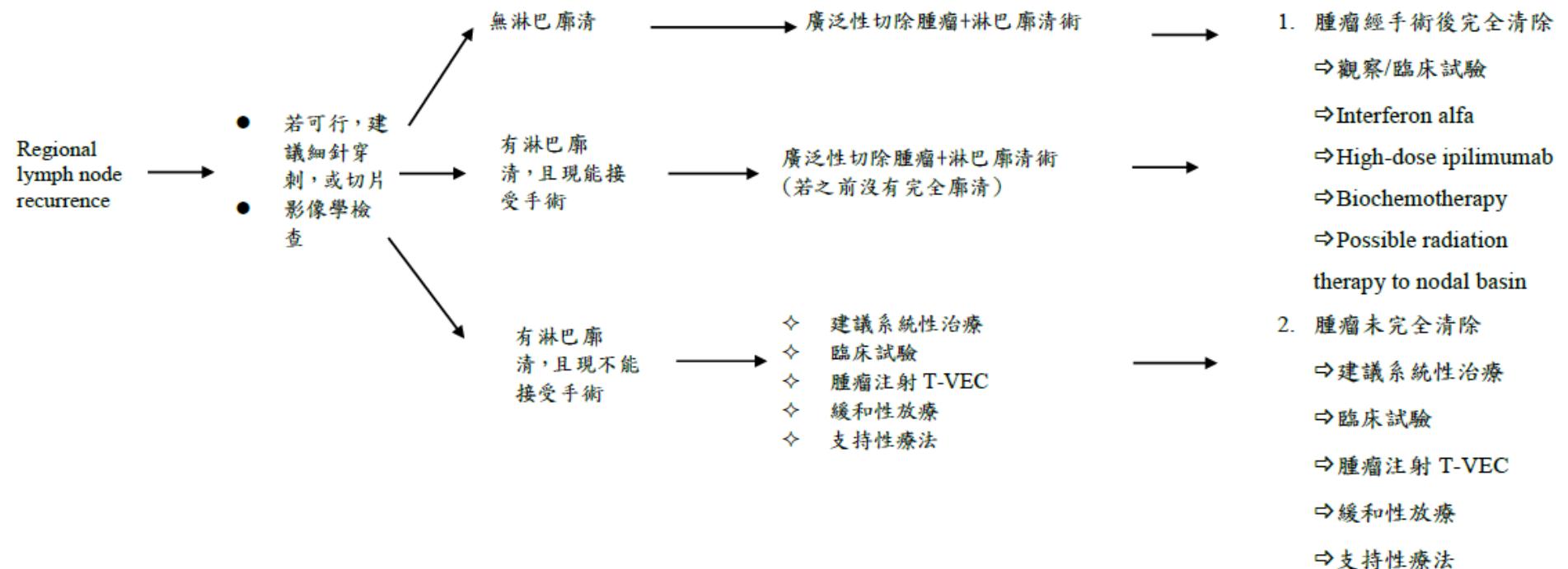
## Node-negative recurrence treatment





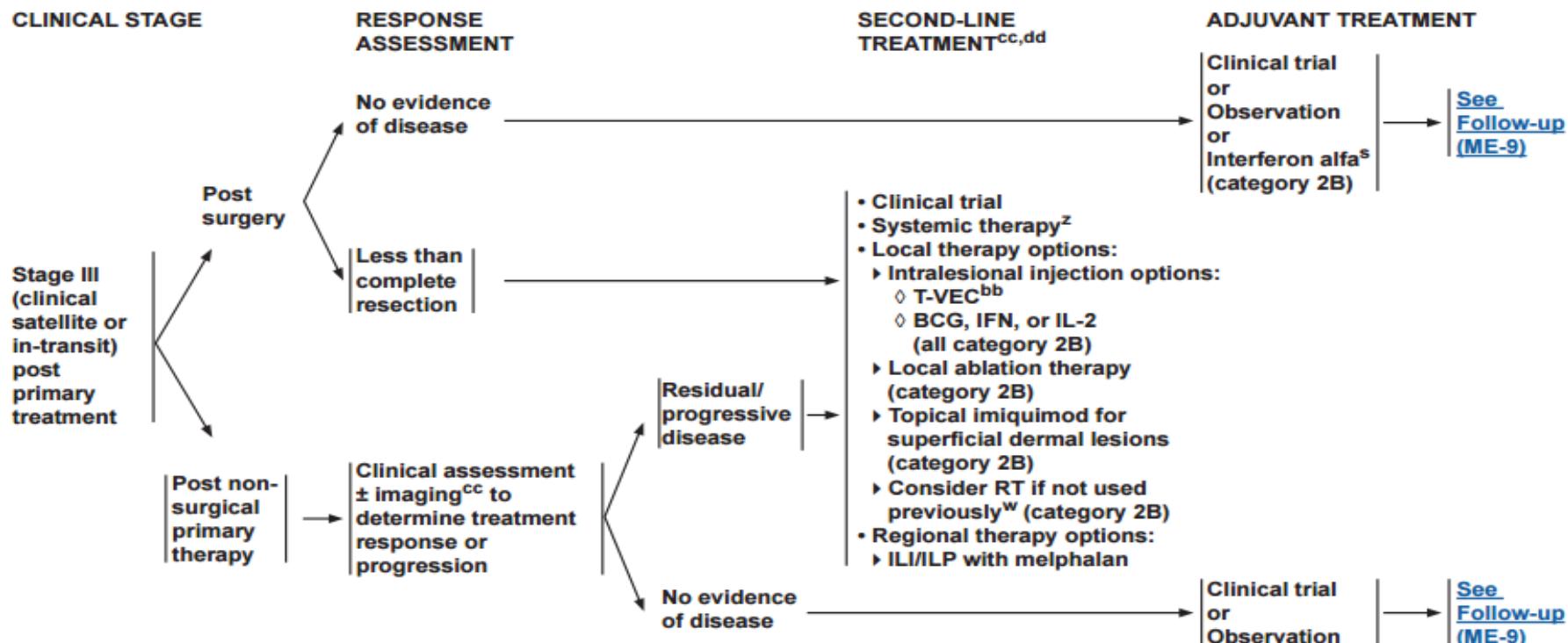
## Regional lymph node recurrence treatment

分期      評估      先前的治療      癌症復發的初步治療      輔助治療





## 附件一、影像檢查評估治療成效 1



<sup>s</sup>Interferon can be given as high-dose alfa interferon for one year or as peginterferon alfa-2b for up to 5 years. Adjuvant interferon has been shown to improve DFS (category 1); but there is no impact on overall survival.

<sup>w</sup>See Principles of Radiation Therapy for Melanoma (ME-F).

<sup>z</sup>See Systemic Therapy for Metastatic or Unresectable Disease (ME-G 1 of 6)

<sup>bb</sup>T-VEC was associated with a response rate (lasting ≥6 months) of 16% in highly selected patients with unresectable metastatic melanoma. Efficacy was noted in Stage IIIB and IIIC disease, and was more likely in patients who were treatment naïve.

<sup>cc</sup>See Principles of Imaging--Treatment Response Assessment (ME-C).

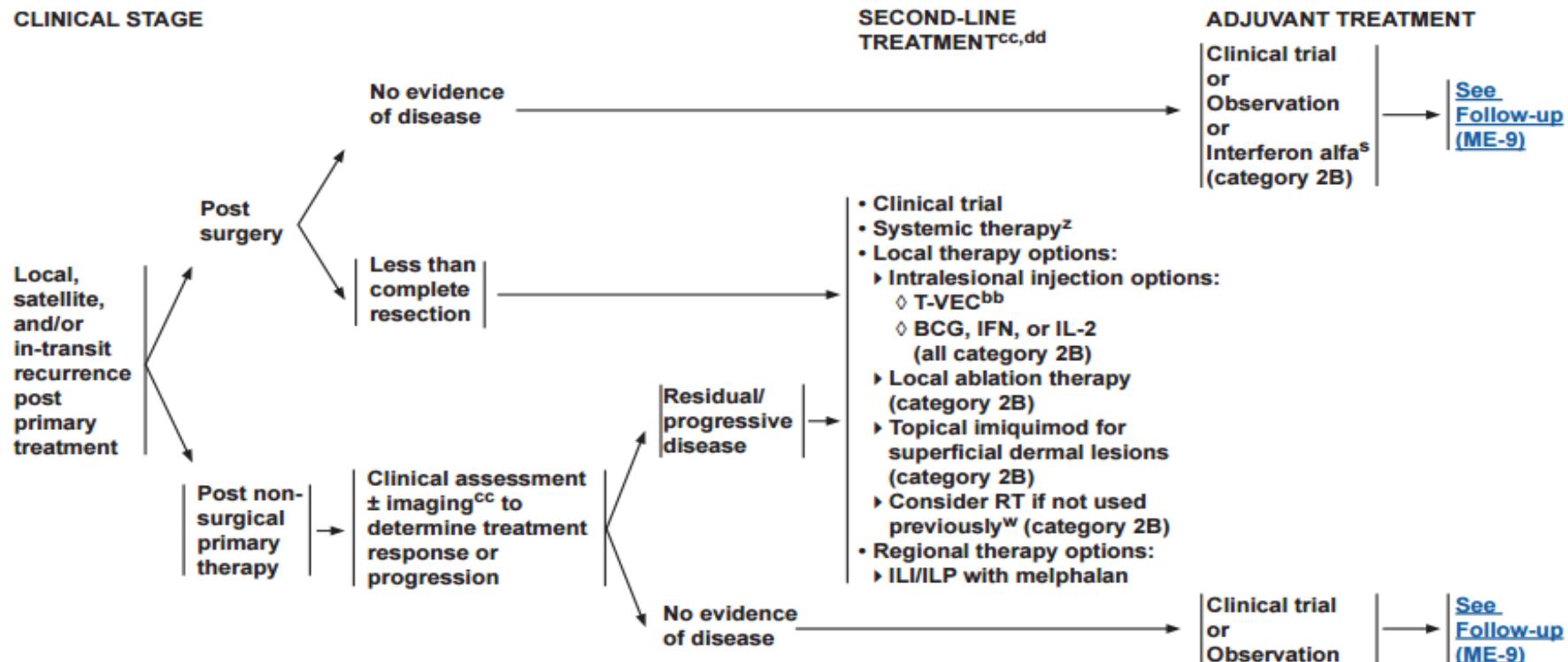
<sup>dd</sup>For patients who experience progression of melanoma during or shortly after first-line therapy, consider second-line agents if not used first line and not of same class. For patients who experience disease control (CR, PR, or SD) and have no residual toxicity, but subsequently experience disease progression/relapse >3 months after treatment discontinuation, re-induction with the same agent or same class of agents may be considered.

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.



## 附件一、影像檢查評估治療成效 2



<sup>s</sup>Interferon can be given as high-dose alfa interferon for one year or as peginterferon alfa-2b for up to 5 years. Adjuvant interferon has been shown to improve DFS (category 1); but there is no impact on overall survival.

<sup>w</sup>See Principles of Radiation Therapy for Melanoma (ME-F).

<sup>z</sup>See Systemic Therapy for Metastatic or Unresectable Disease (ME-G 1 of 6).

<sup>bb</sup>T-VEC was associated with a response rate (lasting ≥6 months) of 16% in highly selected patients with unresectable metastatic melanoma. Efficacy was noted in Stage IIIB and IIIC disease, and was more likely in patients who were treatment naïve.

<sup>cc</sup>See Principles of Imaging--Treatment Response Assessment (ME-C).

<sup>dd</sup>For patients who experience progression of melanoma during or shortly after first-line therapy, consider second-line agents if not used first line and not of same class. For patients who experience disease control (CR, PR, or SD) and have no residual toxicity, but subsequently experience disease progression/relapse >3 months after treatment discontinuation, re-induction with the same agent or same class of agents may be considered.

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.



## 附件二、PRINCIPLES OF RADIATION THERAPY FOR MELANOMA

- Consider RT in the following situations:

Interactions between radiation therapy and systemic therapies (eg, BRAF inhibitors, interferon alfa-2b, immunotherapies, checkpoint inhibitors) need to be very carefully considered as there is potential for increased toxicity

- PRIMARY DISEASE

Adjuvant treatment in selected patients with factors including, but not limited to deep desmoplastic melanoma with narrow margins, extensive neurotropism, or locally recurrent disease.

- REGIONAL DISEASE

- Adjuvant treatment in selected patients following resection of clinically appreciable nodes (category 2B) If Extranodal tumor extension AND/OR

- ◆ Parotid:  $\geq 1$  involved node, any size of involvement
    - ◆ Cervical:  $\geq 2$  involved nodes and/or  $\geq 3$  cm tumor within a node
    - ◆ Axillary:  $\geq 2$  involved nodes and/or  $\geq 4$  cm tumor within a node
    - ◆ Inguinal:  $\geq 3$  involved nodes and/or  $\geq 4$  cm tumor within a node

- Palliative

Unresectable nodal, satellite, or in-transit disease

- METASTATIC DISEASE

- Brain metastases

- ◆ Stereotactic radiosurgery as primary treatment
    - ◆ Stereotactic radiosurgery as adjuvant treatment
    - ◆ Whole brain radiation therapy as primary treatment
    - ◆ Whole brain radiation therapy as adjuvant treatment (category 3)

- Other symptomatic or potentially symptomatic soft tissue and/or bone metastases



## 附件三、系統性治療

## OTHER SYSTEMIC THERAPIES

### Cytotoxic Regimens for Metastatic Disease<sup>1</sup>

- Dacarbazine
- Temozolomide
- Paclitaxel
- Albumin-bound paclitaxel
- Carboplatin/paclitaxel

### Biochemotherapy for Metastatic Disease<sup>1</sup>

- Dacarbazine or temozolomide, and cisplatin or carboplatin, with or without vinblastine or nitrosourea, and IL-2 and interferon alfa-2b

### Biochemotherapy for Adjuvant Treatment of High-Risk Disease

- Dacarbazine, cisplatin, vinblastine, IL-2, and interferon alfa-2b (category 2B)



## 附件四、藥物治療

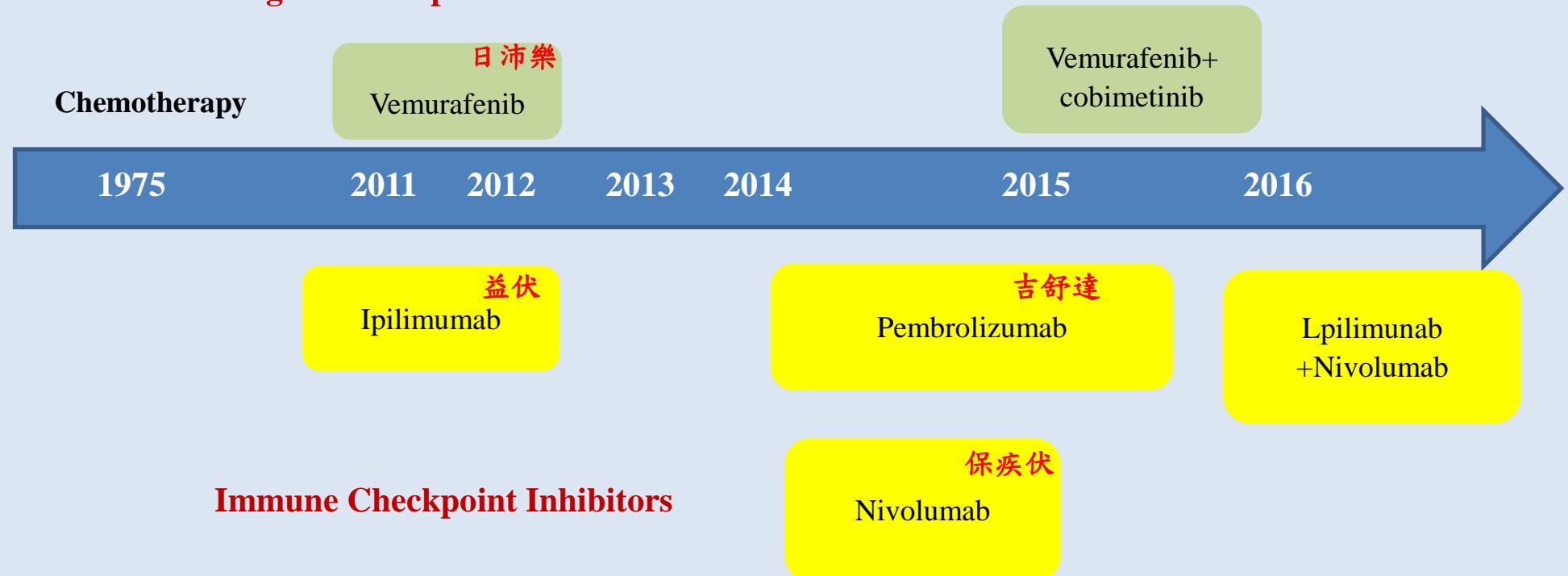
1. Anti PD-1 monotherapy
  - (1)Pembrolizumab: intravenous pembrolizumab 2 mg/kg or 10 mg/kg every 3 weeks,  
[Lancet Oncol.](#) 2015 Aug;16(8):908-18
  - (2)Nivolumab: intravenous infusion of nivolumab 3 mg/kg every 2 weeks,  
[Lancet Oncol.](#) 2015 Apr;16(4):375-84
2. Vemurafenib
  - (1)Vemurafenib at a dose of 960 mg orally twice daily, [N Engl J Med.](#) 2012 Feb 23;366(8):707-14
3. Imatinib for tumor with activating mutation of c-Kit
  - (1)Imatinib 400 mg once per day or 400 mg twice per day if there was no initial response,  
[J Clin Oncol.](#) 2013 Sep 10;31(26):3182-90
4. Carboplatin + paclitaxel
  - (1)intravenous paclitaxel 225 mg/m<sup>2</sup> plus intravenous carboplatin at area under curve 6 (AUC 6) on day 1 of a 21-day cycle,  
[J Clin Oncol.](#) 2009 Jun 10;27(17):2823-30
5. Clinical trial



## 附件五、藥物整理

## Summary : treatments for advanced melanoma

### Targeted therapies





## 六、安寧緩和照護原則

若預期疾病難以治癒時，病人存活期小於 6 個月便適合安寧療護(Pomeranz & Brustman, 2005；Waldrop & Rinfrette, 2009)。

若藉由症狀、檢驗數據、及確切的腫瘤診斷，證實臨床上該惡性腫瘤已經廣泛侵犯、或進展快速；功能分數（Palliative Performance Scale）低於 70%；拒絕進一步腫瘤治癒性治療，或者在治療之下仍持續惡化者，即可轉介緩和醫療團隊（彭等，2006）。



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5. Christenson LJ, Borrowman TA, Vachon CM, et al. Incidence of basal cell and squamous cell carcinomas in a population younger than 40 years. JAMA 2005;294:681-690. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/16091570>.
6. Athas WF, Hunt WC, Key CR. Changes in nonmelanoma skin cancer incidence between 1977-1978 and 1998-1999 in Northcentral New Mexico. Cancer Epidemiol Biomarkers Prev 2003;12:1105-1108. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/14578151>.
7. Brewster DH, Bhatti LA, Inglis JH, et al. Recent trends in incidence of nonmelanoma skin cancers in the East of Scotland, 1992-2003. Br J Dermatol 2007;156:1295-1300. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/17535229>.
8. Hayes RC, Leonfellner S, Pilgrim W, et al. Incidence of nonmelanoma skin cancer in New Brunswick, Canada, 1992 to 2001. J Cutan Med Surg 2007;11:45-52. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/17374314>.

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