# 高雄榮民總醫院

# 皮膚癌(melanoma)診療 原則

2017年03月21日第一版 皮膚癌醫療團隊擬定

注意事項:這個診療原則主要作為醫師和其他保健專家診療癌症病人參 考之用。假如你是一個癌症病人,直接引用這個診療原則並 不恰當,只有你的醫師才能決定給你最恰當的治療。

# 修訂指引

- 本共識依下列參考資料修改版本
- NCCN 2016版 診療指引

## melanoma診療指引審視修訂會議討論日期

● 上次會議: 2016/03/08

● 本共識經審視後與上一版之差異

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使用NCCN 2016版 診療指引

### 新版:

更新 NCCN 2017版 診療指引

初步評估

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評估

Stage 0 (melanma in situ) 1、病史 2、理學檢查 (1)完整皮膚檢查。 (2)淋巴結檢查。 3、黑色素細胞癌危險因子評估 臨床診斷之可疑病 4、實驗室檢查 灶,經皮膚切片及 (1)CBC/DC Stage I 病理組織學證實。 1、影像學檢查△ (2)Biochemistry(包括LDH) (1)CT (3)HBV/HCV Stage II (2)MRI 5、初步影像學檢查§ (3)Gallium scan (1)CXR Stage III (4)Bone scan (2)Regional LNs, echo (5)PET / CT 2 sentinel LNs biopsy Stage IV

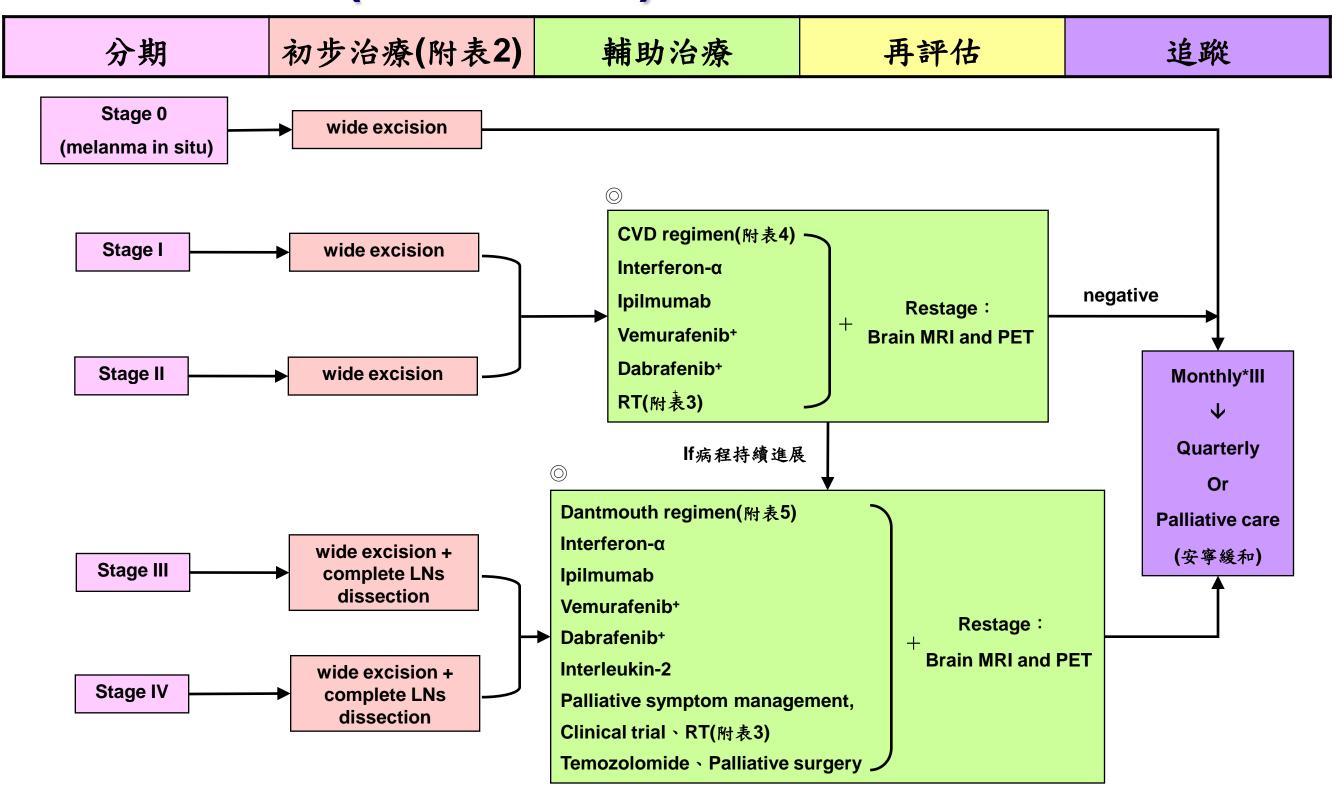
分期(附表1)

§: 可選擇

診斷

△:建議 whole body PET / CT + brain MRI

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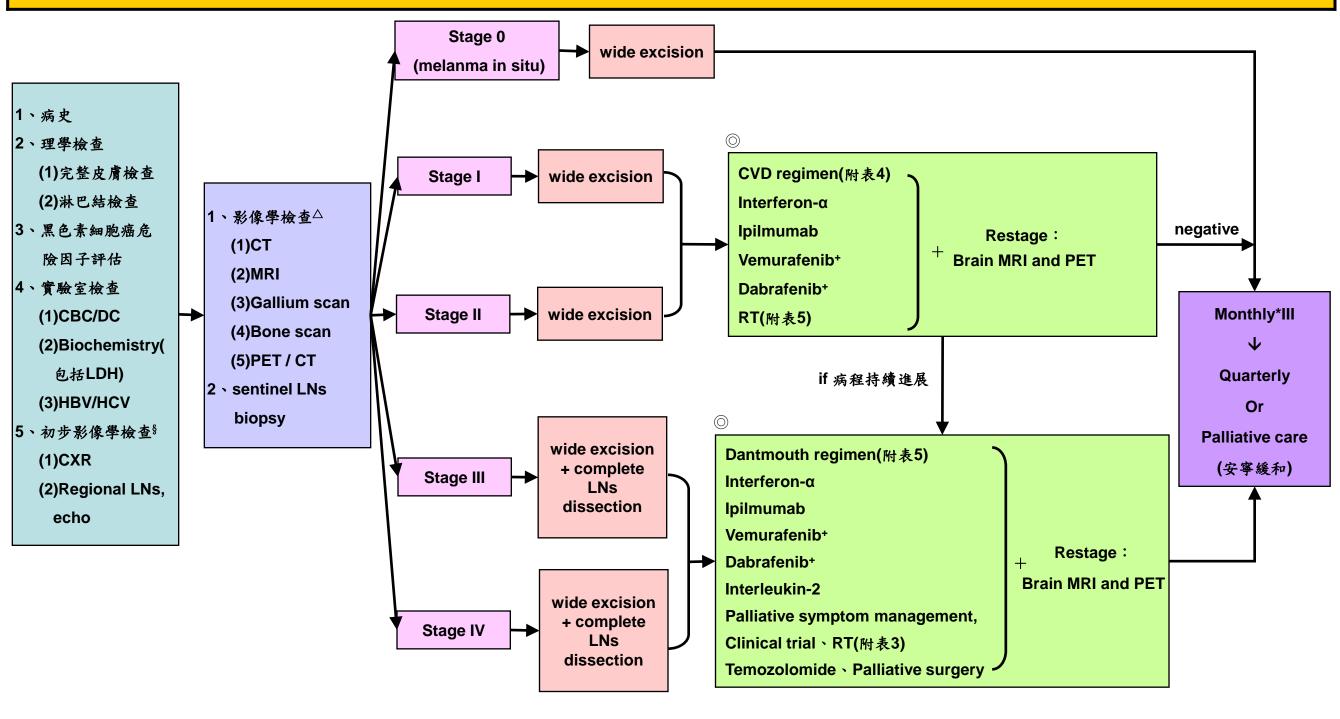


◎:可選擇

+: for BRAF mutation patient

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### 復發



### 癌症藥物停藥準則

- ➤ 根據CTCAE (Common Terminology Criteria for Adverse Events, Version 4.0 Published: May 28, 2009 【v4.03: June 14, 2010】),出現Grade 3 ~ Grade 4 adverse event。
- ▶ 停藥至adverse event回復至Grade 1或Baseline時可再次用藥,但有些患者必須調整用藥劑量。
- ▶ 使用BRAF inhibitor時可能產生cutaneous SCC。此現象雖被CTCAE列為Grade 3 toxic effect, 但此現象不必停藥或調整劑量
- ▶特定藥物治療下疾病仍持續進展,根據追蹤及評估顯示疾病對此特定藥物治療無效 (考慮停止投藥並選擇其他治療方法)。
- ▶ 病患要求 (Hospice care或其他因素)
- > 病患死亡

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#### Comprehensive NCCN Guidelines Version 1.2017 Staging Melanoma

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American Joint Committee on Cancer (AJCC) TNM Staging System for Melanoma (7th ed., 2010)

#### Primary Tumor (T)

TX	Primary tumor cannot be assessed (eg, curettaged or severely
	regressed melanoma)

T0 No evidence of primary tumor

Tis Melanoma in situ

T1 Melanomas 1.0 mm or less in thickness

**T2** Melanomas 1.01-2.0 mm

**T3** Melanomas 2.01-4.0 mm

**T4** Melanomas more than 4.0 mm

Note: a and b sub categories of T are assigned based on ulceration and number of mitoses per mm<sup>2</sup> as shown below:

T classification	Thickness (mm)	Ulceration Status/Mitoses
T1	≤1.0	a: w/o ulceration and mitosis <1/mm² b: with ulceration or mitoses ≥1/mm²
T2	1.01–2.0	a: w/o ulceration b: with ulceration
T3	2.01–4.0	a: w/o ulceration b: with ulceration
T4	>4.0	a: w/o ulceration b: with ulceration

#### Regional Lymph Nodes (N)

Patients in whom the regional lymph nodes cannot be assessed (eg. previously removed for another reason)

N0 No regional metastases detected

N1-3 Regional metastases based upon the number of metastatic nodes and presence or absence of intralymphatic metastases (in transit or satellite metastases)

Note: N1-3 and a-c sub categories are assigned as shown below:

N Classification	No. of Metastatic Nodes	Nodal Metastatic Mass
N1	1 node	a: micrometastasis* b: macrometastasis**
N2	2–3 nodes	a: micrometastasis* b: macrometastasis** c: in transit met(s)/ satellite(s) without metastatic nodes

N3 4 or more metastatic nodes, or matted nodes, or in transit met(s)/satellite(s) with metastatic node(s)

\*Micrometastases are diagnosed after sentinel lymph node biopsy and completion lymphadenectomy (if performed).

\*\*Macrometastases are defined as clinically detectable nodal metastases confirmed by therapeutic lymphadenectomy or when nodal metastasis exhibits gross extracapsular extension.

Continue

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### 附件一-2:

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Stage IIA

Stage IIB

Stage IIC

Stage III

Stage IV

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Distant N	/letastasis	(M)				Pathologic S	Staging**			
M0 No detectable evidence of distant metastases				Stage 0	Tis	N0	MO			
M1a M	etastases to	skin. s	ubcutane	ous, or distant ly	mph nodes	Stage IA	T1a	N0	MO	
	etastases to	-		,		Stage IB	T1b	N0	M0	
			er visceral	sites or distant	metastases to		T2a	N0	MO	
				ated serum LDI		Stage IIA	T2b	N0	M0	
- Ci	ly site come	mica wi	ur arr cicv	atoa sorani EDI	'		T3a	N0	M0	
Note: Ser	rum I DH is	incorpo	rated into	the M category	as shown below:	Stage IIB	T3b	N0	MO	
M Classit		Site	atou iiito	ano in catogory	Serum LDH		T4a	N0	MO	
M1a	roution		ntskin sul	bcutaneous,	Normal	Stage IIC	T4b	N0	MO	
·····	or nodal mets			Stage IIIA	T(1-4)a	N1a	MO			
		01 1100	adi moto				T(1–4)a	N2a	MO	
M1b		Lung	metastase	es.	Normal	Stage IIIB	T(1-4)b	N1a	MO	
		Lang					T(1-4)b	N2a	MO	
M1c	All other visceral Normal		Normal		T(1-4)a	N1b	MO			
		metastases		- Torritan		T(1–4)a	N2b	MO		
			istant met	astasis	Elevated		T(1–4)a	N2c	MO	
		,, a			2.074.04	Stage IIIC	T(1-4)b	N1b	MO	
Anatomi	c Stage/Pro	anosti	c Groups				T(1–4)b	N2b	MO	
Clinical		,,,,,,					T(1-4)b	N2c	MO	
	Juging	Tis	N0	MO			Any T	N3	MO	
Stage 0						Stage IV	Any T	Any N	M1	
Stage IA		T1a	N0	M0						
Stage IB		T1b N0 M0				**Pathologic st	taging includes r	microstaging of	the primary melanoma and	

<sup>\*\*</sup>Pathologic staging includes microstaging of the primary melanoma and pathologic information about the regional lymph nodes after partial or complete lymphadenectomy. Pathologic Stage 0 or Stage IA patients are the exception; they do not require pathologic evaluation of their lymph nodes

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 $N_0$ 

N0

N0

N0

N0

N0

≥N1

Any N

M0

M0

M0

M0

M0

M0

M0

M1

T2a

T2b

T3a

T3b

T4a

T4b

AnyT

Any T

<sup>\*</sup>Clinical staging includes microstaging of the primary melanoma and clinical/radiologic evaluation for metastases. By convention, it should be used after complete excision of the primary melanoma with clinical assessment for regional and distant metastases.

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### PRINCIPLES OF SURGICAL MARGINS FOR WIDE EXCISION OF PRIMARY MELANOMA

Tumor Thickness	Recommended Clinical Margins
In situ <sup>1</sup>	0.5–1.0 cm
≤1.0 mm	1.0 cm (category 1)
1.01–2 mm	1–2 cm (category 1)
2.01–4 mm	2.0 cm (category 1)
>4 mm	2.0 cm (category 1)

• Margins may be modified to accommodate individual anatomic or functional considerations.

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.

<sup>&</sup>lt;sup>1</sup>For large melanoma in situ (MIS), lentigo maligna type, surgical margins >0.5 cm may be necessary to achieve histologically negative margins; techniques for more exhaustive histologic assessment of margins should be considered. For selected patients with positive margins after optimal surgery, consider topical imiquimod (for patients with MIS) or RT (category 2B).

<sup>&</sup>lt;sup>2</sup>Excision recommendations are based on measured clinical margins taken at the time of surgery and not gross or histologic margins, as measured by the pathologist (category 1).

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#### PRINCIPLES OF RADIATION THERAPY FOR MELANOMA

Consider RT in the following situations:1

#### 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<sup>2</sup>

- Adjuvant treatment in selected patients following resection of clinically appreciable nodes (category 2B)<sup>3</sup> if
- ▶ Extranodal tumor extension AND/OR
  - ◊ Parotid: ≥1 involved node, any size of involvement
  - ◊ Cervical: ≥2 involved nodes and/or ≥3 cm tumor within a node
  - ◊ Axillary: ≥2 involved nodes and/or ≥4 cm tumor within a node
  - ♦ Inguinal: ≥3 involved nodes and/or ≥4 cm tumor within a node
- Palliative
- Unresectable nodal, satellite, or in-transit disease

#### METASTATIC DISEASE

- Brain metastases (See NCCN Guidelines for Central Nervous System Cancers)
- 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)⁴
- Other symptomatic or potentially symptomatic soft tissue and/or bone metastases<sup>2</sup>

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.

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<sup>&</sup>lt;sup>1</sup>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.

<sup>&</sup>lt;sup>2</sup>A wide range of radiation dose/fractionation schedules is effective. Hypofractionated regimens may increase the risk for long-term complications.

<sup>&</sup>lt;sup>3</sup>Adjuvant nodal basin RT is associated with reduced lymph node field recurrence but has shown no improvement in relapse-free or overall survival. Its benefits must be weighed against potential toxicities. The impact of these potential toxicities should be considered in the context of other adjuvant treatment options.

<sup>&</sup>lt;sup>4</sup>Adjuvant whole brain radiation following resected melanoma brain metastasis is controversial and should be considered on an individual patient basis.

附件四-1:CVD regimen

CVD regimen				
published C/T regimens	schedule			
Dacarbazine 800mg/m2, IV, D1	Q28d * 6 cycles			
Cisplatin 20mg/m2, IV, D2-5	Q28d * 6 cycles			
Vinblastine 1.6mg/m2, IV, D1-5	Q28d * 6 cycles			

附件四-2:CVD regimen, CCr < 60

CVD regimen, CCr < 60			
published C/T regimens schedule			
Dacarbazine 800mg/m2, IV, D1	Q28d * 6 cycles		
Vinblastine 1.6mg/m2, IV, D1-5	Q28d * 6 cycles		
Paraplatin auc*1.25mg, IV, D2-5	Q28d * 6 cycles		

附件五-1: Dartmouth regimen (Odd)

Dartmouth regimen (Odd)			
published C/T regimens	schedule		
Carmustine 150mg/m2, IV, D1	Q28d * 6 cycles		
Dacarbazine 220mg/m2, IV, D1-3	Q28d * 6 cycles		
Cisplatin 25mg/m2, IV, D1-3	Q28d * 6 cycles		
Nolvadex 10mg, PO, D1-3	Q28d * 6 cycles		

附件五-2: Dartmouth regimen (Even)

Dartmouth regimen (Even)			
published C/T regimens	schedule		
Dacarbazine 220mg/m2, IV, D1-3	Q28d * 6 cycles		
Cisplatin 25mg/m2, IV, D1-3	Q28d * 6 cycles		
Nolvadex 10mg, PO, D1-3	Q28d * 6 cycles		

附件五-3: Dartmouth regimen (Odd), CCr < 60

Dartmouth regimen (Odd), CCr < 60			
published C/T regimens	schedule		
Carmustine 150mg/m2, IV, D1-3	Q28d * 6 cycles		
Dacarbazine 220mg/m2, IV, D1-3	Q28d * 6 cycles		
Paraplatin auc*1.6mg, IV, D1-3	Q28d * 6 cycles		
Nolvadex 10mg, PO, D1-3	Q28d * 6 cycles		

附件五-4: Dartmouth regimen (Even), CCr < 60

Dartmouth regimen (Even),CCr < 60	
published C/T regimens	schedule
Dacarbazine 220mg/m2, IV, D1-3	Q28d * 6 cycles
Paraplatin auc*1.6mg, IV, D1-3	Q28d * 6 cycles
Nolvadex 10mg, PO, D1-3	Q28d * 6 cycles

附件六:melanoma with brain metastasis

melanoma with brain metastasis	
published C/T regimens	schedule
Temodal 150mg/m2/, IV, D1-5	Q28d * 6 cycles

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