

# 高雄榮民總醫院

## 皮膚癌(melanoma)診療 原則

2016年03月08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：2015/09/29
- 本共識經審視後與上一版之差異

上一版：

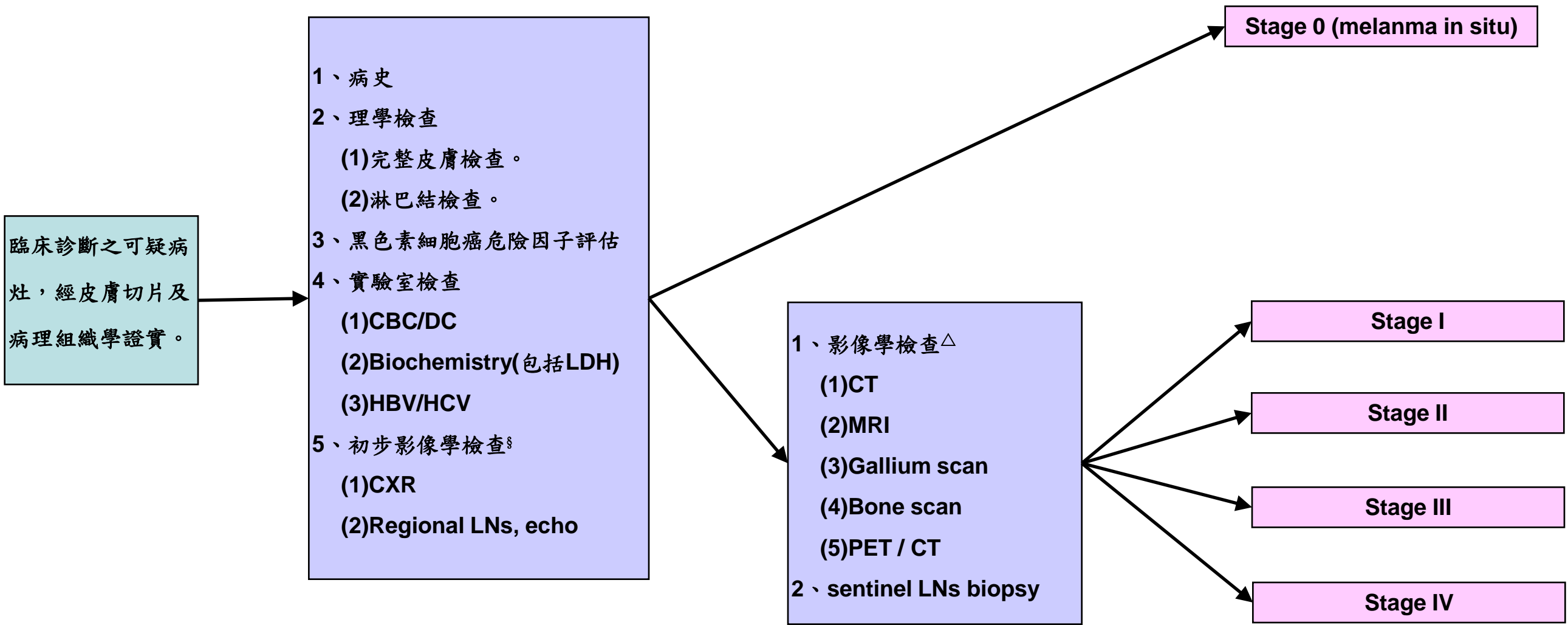
使用 NCCN 2015 版 診療指引

新版：

更新 NCCN 2016 版 診療指引

# 黑色素細胞癌(melanoma)

診斷	初步評估	分期(附表1)	評估
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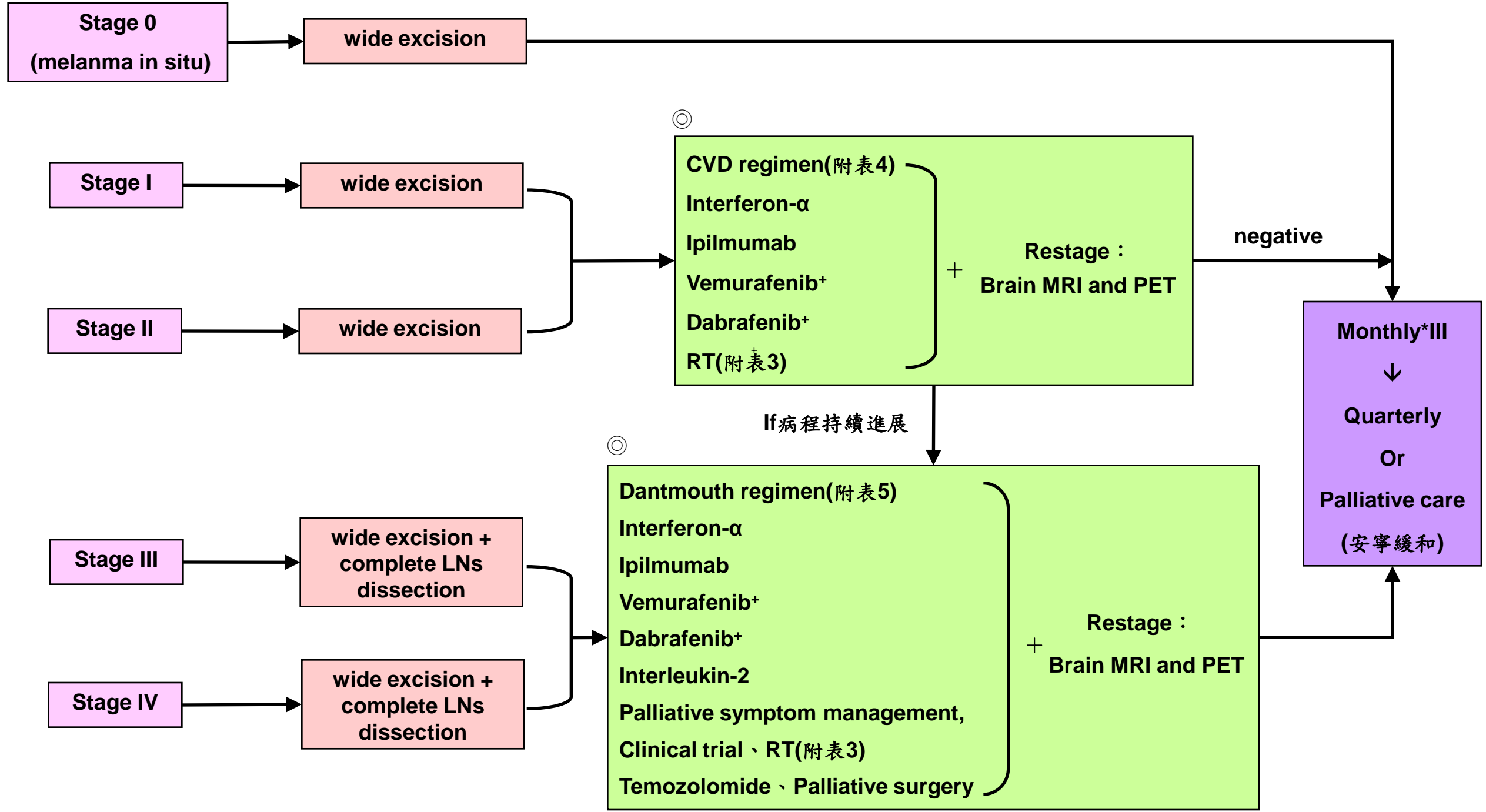


§：可選擇

△：建議 whole body PET / CT + brain MRI

# 黑色素細胞癌(melanoma)

分期	初步治療(附表2)	輔助治療	再評估	追蹤
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◎：可選擇

+：for BRAF mutation patient

# 黑色素細胞癌(melanoma)

## 復發

- 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
- 4、實驗室檢查
  - (1)CBC/DC
  - (2)Biochemistry(包括LDH)
  - (3)HBV/HCV
- 5、初步影像學檢查§
  - (1)CXR
  - (2)Regional LNs, echo

- 1、影像學檢查△
  - (1)CT
  - (2)MRI
  - (3)Gallium scan
  - (4)Bone scan
  - (5)PET / CT
- 2、sentinel LNs biopsy

Stage 0 (melanma in situ) → wide excision

Stage I → wide excision

Stage II → wide excision

Stage III → wide excision + complete LNs dissection

Stage IV → wide excision + complete LNs dissection

◎ CVD regimen(附表4)  
Interferon-α  
Ipilmumab  
Vemurafenib+  
Dabrafenib+  
RT(附表5)  
+ Restage : Brain MRI and PET

◎ Dantmouth regimen(附表5)  
Interferon-α  
Ipilmumab  
Vemurafenib+  
Dabrafenib+  
Interleukin-2  
Palliative symptom management,  
Clinical trial、RT(附表3)  
Temozolomide、Palliative surgery  
+ Restage : Brain MRI and PET

negative → Monthly\*III  
↓  
Quarterly  
Or  
Palliative care (安寧緩和)

if 病程持續進展



# 黑色素細胞癌(melanoma)

## 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

# 黑色素細胞癌(melanoma)

附件一-1:



## NCCN Guidelines Version 2.2016 Staging Melanoma

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**Table 1**  
**American Joint Committee on Cancer (AJCC) TNM Staging System for Melanoma (7th ed., 2010)**

**Primary Tumor (T)**

<b>TX</b>	Primary tumor cannot be assessed (eg, curettaged or severely regressed melanoma)
<b>T0</b>	No evidence of primary tumor
<b>Tis</b>	Melanoma <i>in situ</i>
<b>T1</b>	Melanomas 1.0 mm or less in thickness
<b>T2</b>	Melanomas 1.01–2.0 mm
<b>T3</b>	Melanomas 2.01–4.0 mm
<b>T4</b>	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:

<i>T classification</i>	<i>Thickness (mm)</i>	<i>Ulceration Status/Mitoses</i>
T1	≤1.0	a: w/o ulceration and mitosis <1/mm <sup>2</sup> b: with ulceration or mitoses ≥1/mm <sup>2</sup>
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)**

<b>NX</b>	Patients in whom the regional lymph nodes cannot be assessed (eg, previously removed for another reason)
<b>N0</b>	No regional metastases detected
<b>N1-3</b>	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:

<i>N Classification</i>	<i>No. of Metastatic Nodes</i>	<i>Nodal Metastatic Mass</i>
N1	1 node	a: micrometastasis* b: macrometastasis**
N2	2–3 nodes	a: micrometastasis* b: macrometastasis** c: in transit met(s)/satellite(s) <i>without</i> metastatic nodes
N3	4 or more metastatic nodes, or matted nodes, or in transit met(s)/satellite(s) <i>with</i> 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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# 黑色素細胞癌(melanoma)

## 附件一-2:



### NCCN Guidelines Version 2.2016 Staging Melanoma

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**Distant Metastasis (M)**

**M0** No detectable evidence of distant metastases

**M1a** Metastases to skin, subcutaneous, or distant lymph nodes

**M1b** Metastases to lung

**M1c** Metastases to all other visceral sites or distant metastases to any site combined with an elevated serum LDH

*Note: Serum LDH is incorporated into the M category as shown below:*

M Classification	Site	Serum LDH
M1a	Distant skin, subcutaneous, or nodal mets	Normal
M1b	Lung metastases	Normal
M1c	All other visceral metastases	Normal
	Any distant metastasis	Elevated

**Pathologic Staging\*\***

<b>Stage 0</b>	Tis	N0	M0
<b>Stage IA</b>	T1a	N0	M0
<b>Stage IB</b>	T1b	N0	M0
	T2a	N0	M0
<b>Stage IIA</b>	T2b	N0	M0
	T3a	N0	M0
<b>Stage IIB</b>	T3b	N0	M0
	T4a	N0	M0
<b>Stage IIC</b>	T4b	N0	M0
<b>Stage IIIA</b>	T(1-4)a	N1a	M0
	T(1-4)a	N2a	M0
<b>Stage IIIB</b>	T(1-4)b	N1a	M0
	T(1-4)b	N2a	M0
	T(1-4)a	N1b	M0
	T(1-4)a	N2b	M0
	T(1-4)a	N2c	M0
<b>Stage IIIC</b>	T(1-4)b	N1b	M0
	T(1-4)b	N2b	M0
	T(1-4)b	N2c	M0
	Any T	N3	M0
<b>Stage IV</b>	Any T	Any N	M1

**Anatomic Stage/Prognostic Groups**

**Clinical Staging\***

<b>Stage 0</b>	Tis	N0	M0
<b>Stage IA</b>	T1a	N0	M0
<b>Stage IB</b>	T1b	N0	M0
	T2a	N0	M0
<b>Stage IIA</b>	T2b	N0	M0
	T3a	N0	M0
<b>Stage IIB</b>	T3b	N0	M0
	T4a	N0	M0
<b>Stage IIC</b>	T4b	N0	M0
<b>Stage III</b>	AnyT	≥N1	M0
<b>Stage IV</b>	Any T	Any N	M1

\*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.

\*\*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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# 黑色素細胞癌(melanoma)

附件二:



## NCCN Guidelines Version 2.2016 Melanoma

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

<u>Tumor Thickness</u>	<u>Recommended Clinical Margins<sup>2</sup></u>
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.

<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>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).

**Note:** All recommendations are category 2A unless otherwise indicated.  
**Clinical Trials:** NCCN believes that the best management of any cancer patient is in a clinical trial. Participation in clinical trials is especially encouraged.

# 黑色素細胞癌(melanoma)

附件三：



## NCCN Guidelines Version 2.2016 Melanoma

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### PRINCIPLES OF RADIATION THERAPY FOR MELANOMA

Consider RT in the following situations:<sup>1</sup>

#### 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 either as adjuvant or primary treatment
  - ▶ Whole brain radiation therapy, either as adjuvant (category 2B) or primary treatment<sup>4</sup>
- Other symptomatic or potentially symptomatic soft tissue and/or bone metastases<sup>2</sup>

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

<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.

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

Note: All recommendations are category 2A unless otherwise indicated.  
Clinical Trials: NCCN believes that the best management of any cancer patient is in a clinical trial. Participation in clinical trials is especially encouraged.

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# 黑色素細胞癌(melanoma)

## 附件四-1:CVD regimen

### 化學治療處方

CVD regimen	
published C/T regimens	schedule
Dacarbazine 800mg/m <sup>2</sup> , IV, D1	Q28d * 6 cycles
Cisplatin 20mg/m <sup>2</sup> , IV, D2-5	Q28d * 6 cycles
Vinblastine 1.6mg/m <sup>2</sup> , IV, D1-5	Q28d * 6 cycles

# 黑色素細胞癌(melanoma)

附件四-2:CVD regimen, CCr < 60

## 化學治療處方

CVD regimen, CCr < 60	
published C/T regimens	schedule
Dacarbazine 800mg/m <sup>2</sup> , IV, D1	Q28d * 6 cycles
Vinblastine 1.6mg/m <sup>2</sup> , IV, D1-5	Q28d * 6 cycles
Paraplatin auc*1.25mg, IV, D2-5	Q28d * 6 cycles

# 黑色素細胞癌(melanoma)

## 附件五-1：Dartmouth regimen (Odd)

### 化學治療處方

<b>Dartmouth regimen (Odd)</b>	
<b>published C/T regimens</b>	<b>schedule</b>
<b>Carmustine 150mg/m<sup>2</sup>, IV, D1</b>	<b>Q28d * 6 cycles</b>
<b>Dacarbazine 220mg/m<sup>2</sup>, IV, D1-3</b>	<b>Q28d * 6 cycles</b>
<b>Cisplatin 25mg/m<sup>2</sup>, IV, D1-3</b>	<b>Q28d * 6 cycles</b>
<b>Nolvadex 10mg, PO, D1-3</b>	<b>Q28d * 6 cycles</b>

# 黑色素細胞癌(melanoma)

## 附件五-2：Dartmouth regimen (Even)

### 化學治療處方

Dartmouth regimen (Even)	
published C/T regimens	schedule
Dacarbazine 220mg/m <sup>2</sup> , IV, D1-3	Q28d * 6 cycles
Cisplatin 25mg/m <sup>2</sup> , IV, D1-3	Q28d * 6 cycles
Nolvadex 10mg, PO, D1-3	Q28d * 6 cycles

# 黑色素細胞癌(melanoma)

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

## 化學治療處方

### Dartmouth regimen (Odd), CCr < 60

<b>published C/T regimens</b>	<b>schedule</b>
<b>Carmustine 150mg/m<sup>2</sup>, IV, D1-3</b>	<b>Q28d * 6 cycles</b>
<b>Dacarbazine 220mg/m<sup>2</sup>, IV, D1-3</b>	<b>Q28d * 6 cycles</b>
<b>Paraplatin auc*1.6mg, IV, D1-3</b>	<b>Q28d * 6 cycles</b>
<b>Nolvadex 10mg, PO, D1-3</b>	<b>Q28d * 6 cycles</b>



# 黑色素細胞癌(melanoma)

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

## 化學治療處方

### Dartmouth regimen (Even),CCr < 60

published C/T regimens	schedule
Dacarbazine 220mg/m <sup>2</sup> , IV, D1-3	Q28d * 6 cycles
Paraplatin auc*1.6mg, IV, D1-3	Q28d * 6 cycles
Nolvadex 10mg, PO, D1-3	Q28d * 6 cycles

# 黑色素細胞癌(melanoma)

附件六：melanoma with brain metastasis

## 化學治療處方

### melanoma with brain metastasis

published C/T regimens	schedule
Temodal 150mg/m <sup>2</sup> /, IV, D1-5	Q28d * 6 cycles

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