# 高雄榮民總醫院

# 皮膚癌(melanoma)診療原則



Reference: NCCN Clinical Practice Guideline in OncologyTM, melanoma, V.1.2019

# melanoma診療指引審視修訂會議討論日期

- 前次會議: 2020/04/29
- 本共識經審視:

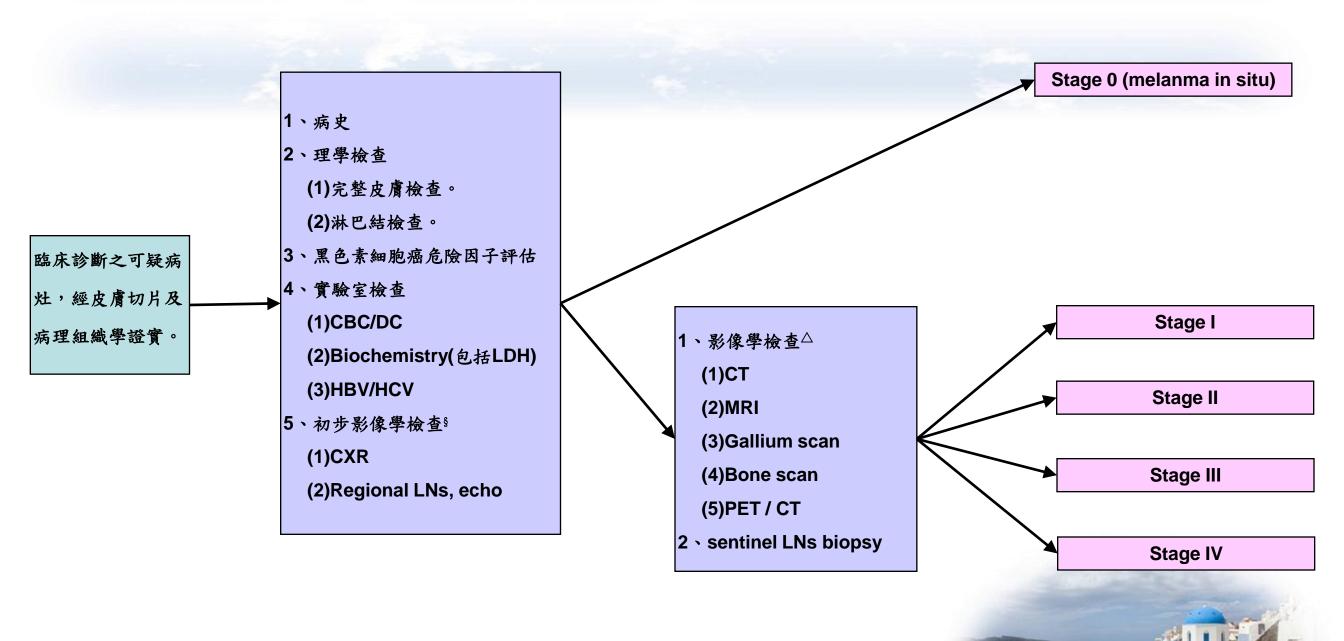


# Summary of the Guidelines Updates(與上一版差異)

上一版	
NCCN Guidelines 2019年版 更換附件為:N	NCCN Guidelines 2021年版



診斷 初步評估 分期(附件1) 評估

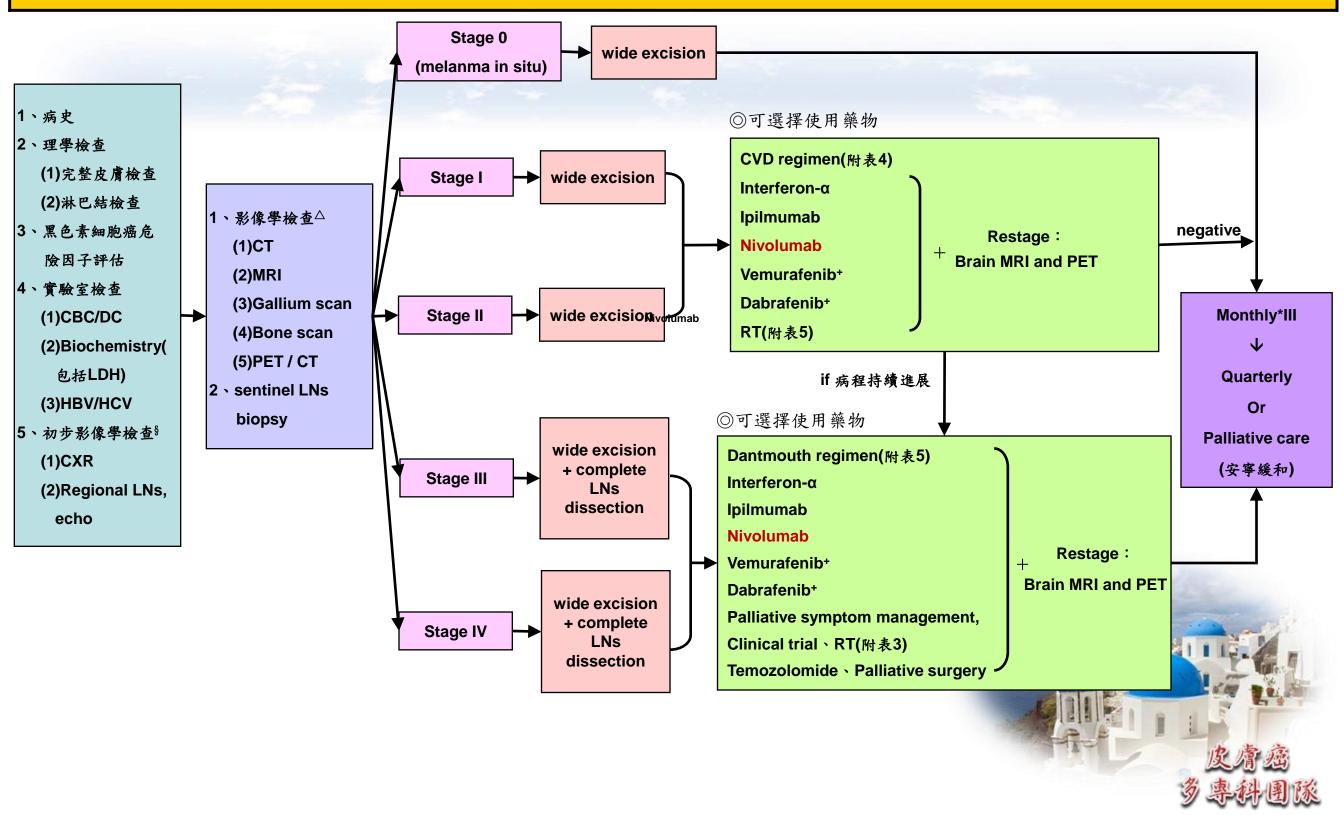


§: 可選擇

△:建議 whole body PET / CT + brain MRI

初步治療(附件2) 分期 輔助治療 追蹤 再評估 Stage 0 wide excision (melanma in situ) ◎可選擇是否須使用輔助性化療 CVD regimen(附表4) wide excision Stage I Interferon-a **Ipilmumab** negative Restage: **Nivolumab Brain MRI and PET** Vemurafenib+ wide excision Stage II Monthly\*III Dabrafenib+  $\mathbf{L}$ RT(附表3) Quarterly lf病程持續進展 ◎可選擇使用藥物 Or Dantmouth regimen(附表5) **Palliative care** Interferon-a wide excision + (安寧緩和) Stage III complete LNs **Ipilmumab** dissection **Nivolumab** Restage: Vemurafenib+ **Brain MRI and PET** wide excision + Dabrafenib+ Stage IV complete LNs Palliative symptom management, dissection Clinical trial、RT(附表3) Temozolomide · Palliative surgery \_ ◎:可選擇 +: for BRAF mutation patient

### 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。

附件一-1:



NCCN Guidelines Version 2.2021 Melanoma: Cutaneous

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NCCN Guidelines Index Table of Contents Discussion

Table 1. American Joint Committee on Cancer (AJCC) Definitions for T, N, M

T Category	Thickness	Ulceration Status
TX: Primary tumor thickness cannot be assessed (eg, diagnosis by curettage)	Not applicable	Not applicable
T0: No evidence of primary tumor (eg, unknown primary or completely regressed melanoma	Not applicable	Not applicable
Tis (melanoma in situ)	Not applicable	Not applicable
T1	≤1 mm	Unknown or unspecified
T1a	<0.8 mm	Without ulceration
T1b	<0.8 mm	With ulceration
	0.8-1.0 mm	With or without ulceration
T2	>1.0–2.0 mm	Unknown or unspecified
T2a	>1.0-2.0 mm	Without ulceration
T2b	>1.0-2.0 mm	With ulceration
Т3	>2.0-4.0 mm	Unknown or unspecified
Т3а	>2.0-4.0 mm	Without ulceration
T3b	>2.0-4.0 mm	With ulceration
T4	>4.0 mm	Unknown or unspecified
T4a	>4.0 mm	Without ulceration
T4b	>4.0 mm	With ulceration



### 附件一-2:



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Presence of In-Transit Satellite

Table 1. American Joint Committee on Cancer (AJCC) Definitions for T, N, M (continued)

#### Extent of Regional Lymph Node and/or Lymphatic Metastasis

N Category	Number of Tumor-Involved Regional Lymph Node	and/or Microsatellite Metastases
NX	Regional nodes not assessed (eg, SLN biopsy not performed, regional nodes previously removed for another reason) Exception: When there are no clinically detected regional metastases in a pT1 cM0 melanoma, assign cN0 instead of pNX	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
N1a	One clinically occult (ie, 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 (ie, 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 (ie, 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

#### Continued

Used with permission of the American College of Surgeons, Chicago, Illinois. The original source for this information is the AJCC Cancer Staging Manual, Eighth Edition (2017) published by Springer International Publishing. (For complete information and data supporting the staging tables, visit <a href="https://www.springer.com">www.springer.com</a>.)

附件一-3:



**NCCN Guidelines Version 2.2021** Melanoma: Cutaneous

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M Category	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	Not recorded or unspecified
M1a(0)	muscle, and/or nonregional lymph node	Not elevated
M1a(1)		Elevated
M1b	Distant metastasis to lung with or without M1a	Not recorded or unspecified
M1b(0)	sites of disease	Not elevated
M1b(1)		Elevated
M1c	Distant metastasis to non-CNS visceral sites	Not recorded or unspecified
M1c(0)	with or without M1a or M1b sites of disease	Not elevated
M1c(1)		Elevated
M1d	Distant metastasis to CNS with or without M1a,	Not recorded or unspecified
M1d(0)	M1b, or M1c sites of disease	Normal
M1d(1)		Elevated

- · Serum lactate dehydrogenase (LDH)
- Suffixes for M category: (0) LDH not elevated, (1) LDH elevated.
   No suffix is used if LDH is not recorded or is unspecified.



附件一-4:



NCCN Guidelines Version 2.2021 Melanoma: Cutaneous

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#### Table 2. AJCC Prognostic Stage Groups Clinical Staging (cTNM)\*

	Т	N	M
Stage 0	Tis	N0	M0
Stage IA	T1a	N0	M0
Stage IB	T1b	N0	M0
	T2a	N0	M0
Stage IIA	T2b	N0	M0
	T3a	N0	M0
Stage IIB	T3b	N0	M0
	T4a	N0	M0
Stage IIC	T4b	N0	M0
Stage III	Any T, Tis	≥N1	M0
Stage IV	Any T	Any N	M1

<sup>\*</sup>Clinical staging includes microstaging of the primary melanoma and clinical/radiologic/biopsy evaluation for metastases. By convention, clinical staging should be used after biopsy of the primary melanoma, with clinical assessment for regional and distant metastases. Note that pathological assessment of the primary melanoma is used for both clinical and pathological classification. Diagnostic biopsies to evaluate possible regional and/or distant metastasis also are included. Note there is only one stage group for clinical Stage III melanoma.

Pathological	Staging	(pTNM)*
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· actionogram oraging (printin)				
	Т	N	M	
Stage 0 <sup>†</sup>	Tis	N0	MO	
Stage IA	T1a	N0	MO	
	T1b	N0	M0	
Stage IB	T2a	N0	MO	
Stage IIA	T2b	N0	MO	
	T3a	N0	M0	
Stage IIB	T3b	N0	MO	
	T4a	N0	MO	
Stage IIC	T4b	N0	M0	
Stage IIIA	T1a/b, T2a	N1a, N2a	MO	
Stage IIIB	T0	N1b, N1c	MO	
	T1a/b, T2a	N1b/c, N2b	0M	
	T2b, T3a	N1a/b/c, N2a/b	MO	
Stage IIIC	T0	N2b/c, N3b/c	0M	
	T1a/b, T2a/b, T3a	N2c, N3a/b/c	0M	
	T3b, T4a	Any N ≥ N1	M0	
	T4b	N1a/b/c, N2a/b/c	0M	
Stage IIID	T4b	N3a/b/c	0M	
Stage IV	Any T, Tis	Any N	M1	

<sup>\*\*</sup>Pathological staging includes microstaging of the primary melanoma, including any additional staging information from the wide-excision (surgical) specimen that constitutes primary tumor surgical treatment and pathological information about the regional lymph nodes after SLN biopsy or therapeutic lymph node dissection for clinically evident regional lymph node disease.

†Pathological Stage 0 and pathological T1 without clinically detected regional or distant metastases (pTis/pT1 cN0 cM0) do not require pathological evaluation of lymph nodes to complete pathological staging; use cN0 to assign pathological stage.

Used with permission of the American College of Surgeons, Chicago, Illinois. The original source for this information is the AJCC Cancer Staging Manual, Eighth Edition (2017) published by Springer International Publishing. (For complete information and data supporting the staging tables, visit <a href="https://www.springer.com">www.springer.com</a>.)

### 附件二:



NCCN Guidelines Version 2.2021 Melanoma: Cutaneous NCCN Evidence Blocks™

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

 Tumor Thickness
 Recommended Clinical Margins<sup>b,1-10</sup>

 In situ<sup>a</sup>
 0.5–1.0 cm

 ≤1.0 mm
 1.0 cm (category 1)

 >1.0–2 mm
 1–2 cm (category 1)

 >2.0 cm (category 1)

 >4 mm
 2.0 cm (category 1)

- Wide local excision involves removal of all tissue to the level of the fascia, which is typically preserved unless involved by tumor. Peripheral
  resection margins may be modified to accommodate individual anatomic or functional considerations. However, the safety and efficacy of
  narrower surgical margins have not been prospectively studied in a randomized controlled manner. Narrower than recommended margins
  may increase the risk for margin positivity and/or local recurrence.
- The gold standard for histologic assessment of excised melanoma is use of permanent sections. Consider delay of complex reconstruction or wound closure until histologic margin assessment is complete.
- Mohs micrographic surgery (MMS) is not recommended for primary treatment of invasive cutaneous melanoma. It may be considered
  selectively for minimally invasive melanomas when standard margins cannot be achieved in anatomically constrained areas, along
  with other surgical methods that provide comprehensive histologic assessment, such as staged excision with permanent sections for
  dermatopathology review.<sup>a</sup>
- With respect to disease-related outcomes, there have been no prospective comparisons of different excision methods, including
  conventional wide excision, MMS, and staged excision with permanent sections. All randomized controlled trials of resection margins for
  invasive cutaneous melanoma were performed using standard wide excision technique.<sup>1-10</sup> Of note, few included head/neck melanomas and
  none included acral melanomas.

<sup>a</sup>For large and/or poorly defined MIS, lentigo maligna (LM) or acral lentiginous subtypes, or LM melanoma with a minimally invasive (T1a) component (also referred to as high-cumulative sun damage [CSD] melanoma), surgical margins >0.5 cm may be necessary, and techniques for comprehensive histologic assessment of margins (ie, complete circumferential peripheral and deep margin assessment) should be considered. <sup>11-16</sup> If MMS is performed, permanent section analysis of the central debulking specimen is recommended to provide complete staging information. For selected patients with positive margins after surgery, in whom further resection is not feasible or desirable, consider topical imiquimod (for patients with MIS/LM type) or RT.

bExcision 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). However, narrower peripheral histologic margins have been associated with higher rates of local recurrence for invasive melanoma, though not worse melanoma-specific survival. 17-20 Narrow pathologic margins, particularly of the invasive component, may warrant further surgical resection.

Note: For more information regarding the categories and definitions used for the NCCN Evidence Blocks™, see page <u>EB-1.</u>

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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### 附件三:



### NCCN Guidelines Version 2.2021 Melanoma: Cutaneous

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NCCN Evidence Blocks™

#### PRINCIPLES OF RADIATION THERAPY FOR MELANOMA

General Treatment Information: Consider RT in the following situations:

 Modalities: Adjuvant nodal external beam RT (EBRT) should be delivered using a technique judged optimal by the treating radiation oncologist. Newer technologies, such as intensity-modulated RT (IMRT) may lower toxicity and should be considered when available and where appropriate.<sup>1,2</sup> Image-guided RT (IGRT) should be used to improve accuracy of radiotherapy delivery, where clinically appropriate.

#### **Primary Disease:**

- Definitive Therapy
- ▶ Definitive radiation may be considered as a treatment option for MIS, LM-type (ie, high-CSD) in medically inoperable patients or those in whom surgical morbidity of complete resection would be prohibitive.<sup>3-5</sup>
- ▶ Dosing Regimens: Optimal doses are not well established, but potential regimens include:<sup>a</sup>
- ♦ 64-70 Gy in 32-35 fractions over 6-7 weeks
- ♦ 50–57.5 Gy in 20–23 fractions over 4–5 weeks<sup>4,6</sup>
- ♦ 35 Gy in 5 fractions over 1 week for fields <3 cm<sup>2</sup>
- ♦ 32 Gy in 4 fractions once per week<sup>7</sup>
- ▶ There are insufficient data to support the routine use of electronic surface brachytherapy in the management of cutaneous melanoma.
- Adjuvant Therapy
- Adjuvant radiation may be considered for select cases of high-risk desmoplastic melanoma based on a combination of risk factors for local recurrence. b,8 (category 2B)
- Dosing Regimens: Optimal adjuvant doses are not well established, but potential regimens include:
- ♦ 60–66 Gy in 30–33 fractions over 6–7 weeks<sup>9,10</sup>
- ♦ 48 Gy in 20 fractions over 4 weeks<sup>11</sup>
- ♦ 30 Gy in 5 fractions over 2 weeks (twice per week or every other day)<sup>12</sup>

<sup>a</sup>Hypofractionated regimens may increase the risk for long-term complications.

bRisk factors for local recurrence include location on the head or neck, extensive neurotropism, pure desmoplastic melanoma histologic subtype, close margins where re-resection is not feasible, or locally recurrent disease.

Note: For more information regarding the categories and definitions used for the NCCN Evidence Blocks™, see page <u>EB-1</u>. 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.

References ME-H

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Continued

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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) (or metastasis)

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) (or metastasis)

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 (or metastasis)

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 (or metastasis)

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



附件七: melanoma with Target therapy (or metastasis)

### 標靶治療處方

melanoma with Target therapy	
Target therapy	schedule
Vemurafenib 960mg, oral	Twice daily, continued



附件八: melanoma with Immunotherapy (or metastasis)

### 免疫治療處方

melanoma with Immunotherapy		
Immunotherapy	schedule	
lpilmumab 3mg/kg, IV	Every 3wks, 4 sessions	
Nivolumab 3mg/kg, IV	Every 2 wks, at least 2 yaers	



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