# 高雄榮民總醫院

# と膚癌(melanoma)診療原則

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# ● 前次會議: 2019/02/19

• 本共識經審視











## 癌症藥物停藥準則

- 樣CTCAE (Common Terminology Criteria for Adverse Events, Version 4. blished: May 28, 2009 【v4.03: June 14, 2010】),出現Grade 3 ~ Grade 4 verse event ∘
- 藥至adverse event回復至Grade 1或Baseline時可再次用藥,但有些患者必須 用藥劑量。
- 月BRAF inhibitor時可能產生cutaneous SCC。此現象雖被CTCAE列為Grad xic effect, 但此現象不必停藥或調整劑量。
- 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
- 慮停止投藥並選擇其他治療方法)。
- 患要求 (Hospice care或其他因素)。



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

T Category	Т	Thickness	Ulceration Status
TX: Primary tumor the cannot be assesses (eg, diagnosis by cure	N	lot applicable	Not applicable
T0: No evidence of p tumor (eg, unknown p completely regressed	primary or N	lot applicable	Not applicable
Tis (melanoma in situ	<i>ı</i> ) N	lot applicable	Not applicable
T1	5	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
T3a	>	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

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#### 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	Presence of In-Transit, Satellite, and/or Microsatellite Metastases
NX	Regional nodes not assessed (eg, 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
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 micr	osatellite 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 mic involved nodes, or any number of matted nodes without or with in-tra	
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

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 <u>www.springer.com</u>.)

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ategory	Anatomic Site	LDH Level
	No evidence of distant metastasis	Not applicable
50	Evidence of distant metastasis	See below
11a	Distant metastasis to skin, soft tissue including	Not recorded or unspecified
M1a(0)	muscle, and/or nonregional lymph node	Not elevated
M1a(1)		Elevated
l1b	Distant metastasis to lung with or without M1a	Not recorded or unspecified
M1b(0)	sites of disease	Not elevated
M1b(1)		Elevated
1c	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
l1d	Distant metastasis to CNS with or without M1a,	Not recorded or unspecified
M1d(0)	M1b, or M1c sites of disease	Normal
M1d(1)		Elevated

um lactate dehydrogenase (LDH) ixes for M category: (0) LDH not elevated, (1) LDH elevated. suffix is used if LDH is not recorded or is unspecified



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

	т	N	м
Stage 0	Tis	N0	MO
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

\*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)**			
	т	N	м
Stage 0 <sup>†</sup>	Tis	NO	MO
Stage IA	T1a	N0	M0
	T1b	N0	M0
Stage IB	T2a	NO	M0
Stage IIA	T2b	N0	M0
	T3a	N0	M0
Stage IIB	T3b	N0	M0
	T4a	N0	M0
Stage IIC	T4b	N0	M0
Stage IIIA	T1a/b, T2a	N1a, N2a	M0
Stage IIIB	T0	N1b, N1c	M0
	T1a/b, T2a	N1b/c, N2b	M0
	T2b, T3a	N1a/b/c, N2a/b	M0
Stage IIIC	T0	N2b/c, N3b/c	M0
	T1a/b, T2a/b, T3a	N2c, N3a/b/c	M0
	T3b, T4a	Any N ≥ N1	M0
	T4b	N1a/b/c, N2a/b/c	M0
Stage IIID	T4b	N3a/b/c	M0
Stage IV	Any T, Tis	Any N	M1

\*\*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.

<sup>†</sup>Pathological Stage 0 (melanoma in situ) and T1 do not require pathological evaluation of lymph nodes to complete pathological staging; use cN information to assign their pathological stage.

### NCCN Guidelines Version 1.2019 Cutaneous Melanoma

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

Tumor Thickness	Recommended Clinical Margins <sup>b</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)
>2.0–4 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>a</sup>For large 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>b</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.

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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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#### 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)<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. The impact of these potential toxicities should be considered in the context of other adjuvant treatment options.

<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.

Continue

# 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



# 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	



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	



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	



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



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



六: melanoma with brain metastasis

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



と: 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	



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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