高雄榮民總醫院

皮膚癌(melanoma)診療 原則

2018年01月23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 2018版 診療指引

melanoma診療指引審視修訂會議討論日期

- 上次會議:2017/03/21
- 本共識經審視後與上一版之差異

上一版:

- 1. 使用NCCN 2017版 診療指引
- 2. 修改輔助性治療藥物

新版:

- ▶ 更新 NCCN 2018版 診療指引
- ▶ 修改輔助性治療藥物
 - ◆ 增加Target therapy藥物
 - ◆ 增加Immunotherapy藥物
 - ◆ 增加Metastasis藥物

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

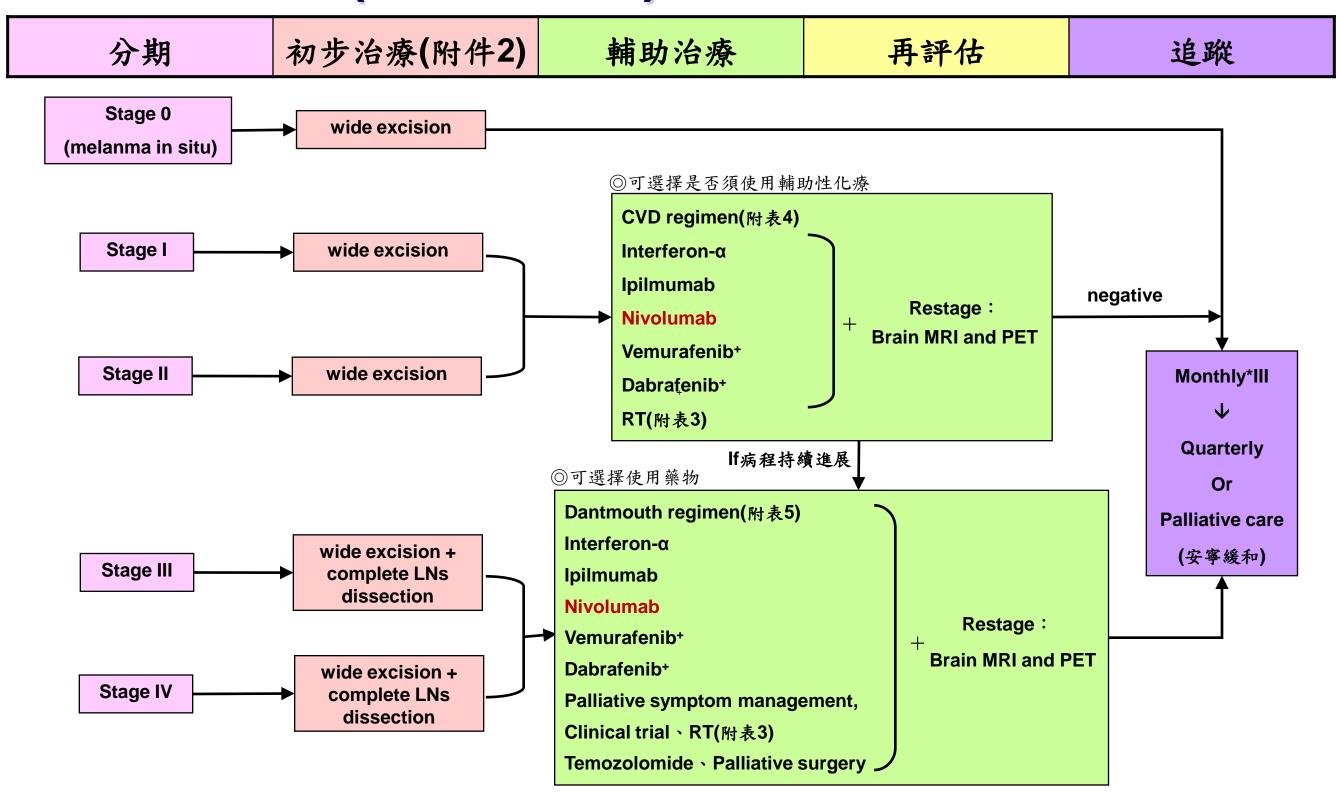
分期(附件1)

§: 可選擇

診斷

△:建議 whole body PET / CT + brain MRI

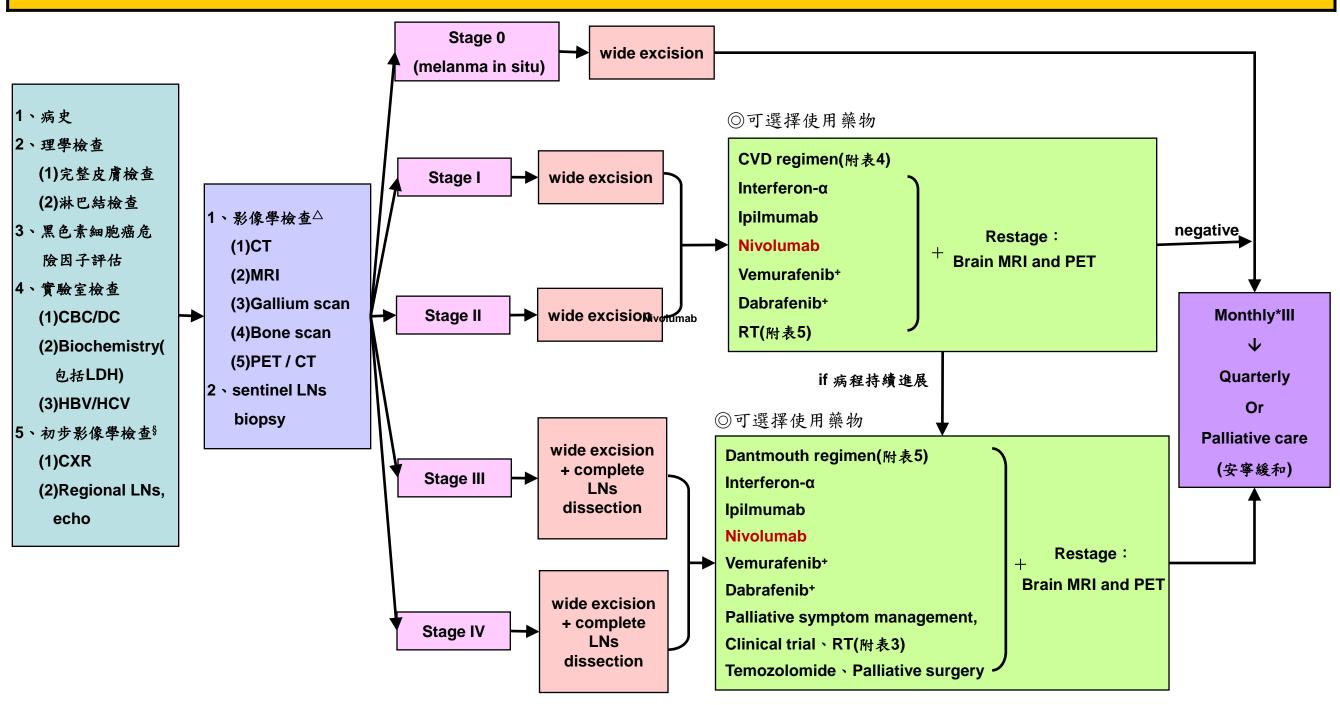
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◎:可選擇

+: for BRAF mutation patient

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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ST-1

附件一-1:



NCCN Guidelines Version 1.2018 Staging Melanoma

NCCN Guidelines Index
Table of Contents
Discussion

Table 1

American Joint Committee on Cancer (AJCC)
Definitions of TNM for Melanoma (8th ed., 2016)

Definition of Primary Tumor (T)

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	≤1.0 mm	Unknown or unspecified
T1a	<0.8 mm	Without ulceration
T1b	<0.8 mm 0.8–1.0 mm	With ulceration 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
T3	>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

The AJCC 8th Edition Cancer Staging System will be implemented on January 1, 2018. For the AJCC 7th Edition Staging Manual, visit www.springer.com.

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附件一-2:



NCCN Guidelines Version 1.2018 Staging Melanoma

NCCN Guidelir Table of Di

Definition of Regional Lymph Node (N)

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 microsatell	ite 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 n	nicrosatellite 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

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附件一-3:



NCCN Guidelines Version 1.2018 Staging Melanoma

NCCN Guio Table

Definition of Distant Metastasis (M)

	M Criteria		
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 muscle,	Not recorded or unspecified	
M1a(0)	and/or nonregional lymph node	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	Not recorded or unspecified	
M1c(0)	M1a or M1b sites of disease	Not elevated	
M1c(1)		Elevated	
M1d	Distant metastasis to CNS with or without M1a, M1b, or M1c	Not recorded or unspecified	
M1d(0)	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.

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附件一-4:



NCCN Guidelines Version 1.2018 Staging Melanoma

NCCN Guidelines Index Table of Contents Discussion

AJCC PROGNOSTIC STAGE GROUPS

Clinical Staging (cTNM)*

	T	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	AnyT, 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.

The AJCC 8th Edition Cancer Staging System will be implemented on January 1, 2018. For the AJCC 7th Edition Staging Manual, visit www.springer.com.

Pathological Staging (pTNM)†

	T	N	M
Stage 0 ^{††}	Tis	N0	M0
Stage IA	T1a	N0	M0
	T1b	N0	M0
Stage IB	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 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.

TPathological 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.

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附件二:



Comprehensive NCCN Guidelines Version 1.2018
Cancer Melanoma

>2.0-4 mm

NCCN Guidelines Index Table of Contents Discussion

PRINCIPLES OF SURGICAL MARGINS FOR WIDE EXCISION OF PRIMARY MELANOMA

 Tumor Thickness
 Recommended Clinical Margins²

 In situ¹
 0.5–1.0 cm

 ≤1.0 mm
 1.0 cm (category 1)

 >1.0–2 mm
 1–2 cm (category 1)

>4 mm 2.0 cm (category 1)

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.

¹For 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).

²Excision 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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附件三:



Comprehensive Cancer Melanoma Melanoma

NCCN Guidelines Index Table of Contents Discussion

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 DISEASE²

- Adjuvant treatment in selected patients following resection of clinically appreciable nodes (category 2B)³ 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
 - ◊ Inquinal: ≥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 metastases²

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.

Continue

ME-F (1 OF 3)

¹Interactions 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.

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

³Adjuvant 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.

⁴Adjuvant 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) (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

Reference

- 1. NCCN Clinical Practice Guideline in OncologyTM ,melanoma, V.1.2018
- Swiss Med Wkly. 2016 Feb 22;146:w14279. doi: 10.4414/smw.2016.14279. eCollection 2016. The updated Swiss guidelines 2016 for the treatment and follow-up of cutaneous melanoma.
- 3. College of American Pathologists. Protocol for the Examination of Specimens from Patients with Melanoma of the Skin. 2013.
- 4. Schroer-Gunther MA, Wolff RF, Westwood ME, et al. F-18-fluoro-2-deoxyglucose positron emission tomography (PET) and PET/computed tomography imaging in primary staging of patients with malignant melanoma: a systematic review. Syst Rev 2012;1:62.
- 5. Kunishige JH, Brodland DG, Zitelli JA. Surgical margins for melanoma in situ. J Am Acad Dermatol 2012;66:438-444.
- 6. Haigh PI, DiFronzo LA, McCready DR. Optimal excision margins for primary cutaneous melanoma: a systematic review and meta-analysis. Can J Surg 2003;46:419-426 Kunishige JH, Brodland DG, Zitelli JA. Surgical margins for melanoma in situ. J Am Acad Dermatol 2012;66:438-444.
- 7. Piris A, Mihm MC, Jr., Duncan LM. AJCC melanoma staging update: impact on dermatopathology practice and patient management. J Cutan Pathol 2011;38:394-400.
- 8. Bichakjian CK, Halpern AC, Johnson TM, et al. Guidelines of care for the management of primary cutaneous melanoma. American Academy of Dermatology. J Am Acad Dermatol 2011;65:1032-1047.
- Pandalai PK, Dominguez FJ, Michaelson J, Tanabe KK. Clinical value of radiographic staging in patients diagnosed with AJCC stage III melanoma. Ann Surg Oncol 2011;18:506-513.
- 10. Gillgren P, Drzewiecki KT, Niin M, et al. 2-cm versus 4-cm surgical excision margins for primary cutaneous melanoma thicker than 2 mm: a randomised, multicentre trial. Lancet 2011.
- 11. Balch CM, Gershenwald JE, Soong SJ, et al. Final version of 2009 AJCC melanoma staging and classification. J Clin Oncol 2009;27:6199-6206.
- 12. Yancovitz M, Finelt N, Warycha MA, et al. Role of radiologic imaging at the time of initial diagnosis of stage T1b-T3b melanoma. Cancer 2007;110:1107-1114.
- 13. Gimotty PA, Elder DE, Fraker DL, et al. Identification of high-risk patients among those diagnosed with thin cutaneous melanomas. J Clin Oncol 2007;25:1129-1134.
- 14. Thomas JM, Newton-Bishop J, A'Hern R, et al. Excision margins in high-risk malignant melanoma. N Engl J Med 2004;350:757-766.