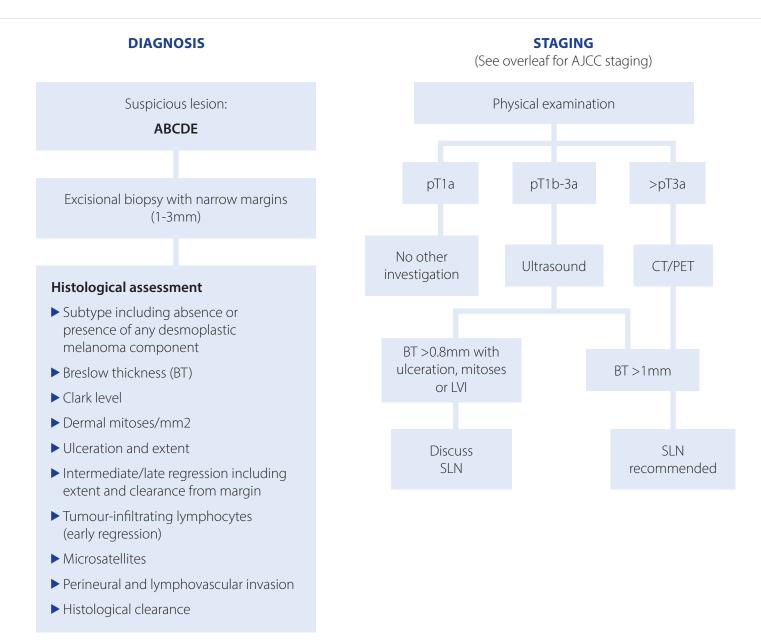
Cutaneous Malignant Melanoma Management Algorithm

Adapted from Australian Cancer Network (ACN) Melanoma Guidelines 2008 (currently under revision) and European Society for Medical Oncology (ESMO) updated guidelines 2016.



FORMAL SURGICAL EXCISION MARGINS

(cumulative margin measured clinically from the edge of the lesion, as per current ACN guidelines)

pTis/melanoma in situ:	5 - 10mm*	*Adapt according to subtype and histological margin status on excision
pT1/BT < 1.0mm:	10mm	biopsy. Lentigo maligna and lentiginous subtypes have a propensity to extend beyond the clinically detectable boundaries.
pT2/ BT 1.0-2.0mm**:	10-20mm	**The evidence for optimal margins for melanomas 2 to 4mm thick is
pT3/ BT 2.0-4.0mm**:	10-20mm	unclear and the margins used should be selected based on site and
pT4/ BT > 4.0mm:	20mm	surgeon/patient preference. In some sites, margins greater than 10mm may not be possible.



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AJCC Melanoma of the Skin Staging 8th Edition - Definitions

Primary Tumour (T)			
ТΧ	Primary tumour cannot be assessed		
	(e.g. diagnosis by curettage)		
T0	No evidence of primary tumour		
Tis	Melanoma in situ		
T1	Melanomas 1.0mm or less in thickness		
T2	Melanomas 1.1 – 2.0mm		
T3	Melanomas 2.1 – 4.0 mm		
T4	Melanomas more than 4.0mm		

NOTE: a and b subcategories of T are assigned based ulceration and thickness as shown below:

T Classification	Thickness (mm)	Ulceration Status		
T1	≤1.0	a: Breslow <0.8mm w/o ulceration b: Breslow 0.8 – 1.0mm w/o ulceration or ≤1.0mm w/ ulceration		
T2	1.01-2.0			
Т3	2.1 - 4.0	a: w/o ulceration b: w/ ulceration		
T4	>4.0			

Regio	nal Lymph Nodes (N)
NX	Patients in whom the regional nodes cannot be assessed
	(for example, previously removed for another reason)
NO	No regional metastases detected
N1-3 Based on number of clinically detectable/occult ¹	
	nodes and the presence/absence of NLM ²

NOTE: N1-3 and a-c subcategories assigned as shown below:

N Classification	No of Nodes	Clinical detectability/ NLM status			
N1	1 or 0 with NLM	a: 1 clinically occult, no NLM b: 1 clinically occult, no NLM c: No nodal disease but NLM present			
N2	2 – 3 or 1 with NLM	a: 2-3 clinically occult nodes, no NLM b: 2-3 nodes, at least 1 clinically detected, no NLM c: 1 node, clinically detected or occult, NLM present			
N3 >3 or >1 with NLM		a: >3 nodes, all clinically occult,			

Distan	nt Metastasis (M)			
MO	No evidence of distant metastasis			
M1a	Metastases to skin, soft tissue (including muscle) &/or non-regional nodes			
M1b	Metastases to lung			
M1c	Metastases to all other (non-CNS) visceral sites			
M1d	Metastases to CNS			
NOTE:	Serum LDH is incorporated into the M category as below:			

M Classification	Serum LDH		
M1a-d	Not assessed		
M1a-d(0)	Normal		
M1a-d(1)	Elevated		

Anatomic Stage/Prognostic Groups							
Clinical Staging ³				Pathologic Staging⁴			
Stage 0	Tis	NO	MO	0	Tis	NO	MO
Stage IA	T1a	NO	MO	IA	T1a	NO	MO
Stage	T1b	N0	MO		T1b	NO	MO
IB	T2a	N0	MO	IB	T2a	NO	MO
Stage	T2b	N0	MO	IIA	T2b	NO	MO
IIA	T3a	N0	MO	IIA	T3a	N0	MO
Stage	T3b	N0	MO		T3b	N0	MO
IIB	T4a	N0	MO	IIB	T4a	N0	MO
Stage IIC	T4b	N0	MO	IIC	T4b	NO	MO
	AnyT ≥	≥N1	MO	IIIA	T1-2a	N1a	MO
					T1-2a	N2a	MO
				IIIB	TO	N1b-c	MO
					T1-2a	N1b-c	MO
					T1-2a	N2b	MO
Stage					T2b-3a	N1a-2b	MO
				IIIC	TO	N2b-c	MO
					TO	N3b-c	MO
					T1a-3a	N2c-3c	MO
					T3b-4a	Any N	MO
					T4b	N1a-2c	MO
	_	-	_	IIID	T4b	N3a-c	MO
Stage IV	Any T	Any N	M1	IV	Any T	Any N	M1

1: Nodes are designated as 'clinically detectable' if they can be palpated on physical exam and metastatic melanoma is confirmed on biopsy/excision. Clinically occult nodes are detected only on SLN biopsy.

2: NLM = non-nodal locoregional metastasis.

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3: Clinical staging includes micro staging 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.

4: Pathologic staging includes micro staging of the primary melanoma and pathologic information about the regional lymph nodes after partial or complete lymphadenectomy. Pathologic Stage 0 and 1 patients are the exceptions; they do not necessarily require pathologic evaluation of their lymph nodes. Physicians should 'discuss and consider' SLNB for patients with T1b Stage IA and Stage IB disease.

