InterMEL Variable	Definition	Value type	Code	Required?		Responsible Data Source
MELID	Patient ID	Unique ID	IML-[Center Code]### or IML-[Center Code]###N Center Codes: CCF = 1, CW = 2, DTM = 3, MDA= 4, MIA = 5, MSK = 6, NYU = 7, UNC = 8, Yal = 9	Ŷ	Example: IML-5001 or IML-5001N The first number is the center code (IML- <u>5</u> 001), the following 3 numbers are for the specific patient assigned in sequential order (IML-5 <u>001</u>). An "N" at the end indicates Normal (IML-5001 <u>N</u>).	Center PI sending tumors is responsible to make up the MELID, using IML-center number, patient number, and N or blank
GROUP	Comparison Group	Number Code	0 = Died from melanoma within 5 years of diagnosis 1 = Lived more than 5 years after diagnosis	Y		Center Pl
YEAR_DX	Year of diagnosis of the first primary	Integer	үүүү	Y	Format YYYY	Center PI
VITAL_STATUS	Vital status at the last contact	Number Code	1 = Alive 2 = Dead of melanoma 3 = Dead of other causes 4 = Dead of unknown causes 99 = Unknown/ Missing	Y	Alive includes 'Alive w/ Melanoma' and 'Alive w/o Melanoma' [Eligibility: Must have died within 5 years of diagnosis and those who lived more than 5 years after diagnosis without recurrence]	Center PI
VITAL_STATUS_DATE	The last follow up date or date of death	Date	MM/DD/YYYY	Y	If month unknown use '00', if date unknown use '00', If entire date unknown type 'UNK'. Will be reconciled to '06' or '15' respectively during data cleaning.	Center PI
vital_status_source	Source of Vital status	Number Code	1 = Physician's Office/Private Medical Practitioner (LMD) 2 = Death Certificate (i.e. NDI) 3 = Other clinical information 99 = Unknown/ Missing			Center PI
vital_status_source_os FUDAYS	Specify other source Number of days from diagnosis to last	Text Integer	[CALCULATED]	Y	Calculated variable of YEARDX and	Center PI
MULT_PRIMARY	follow-up Multiple primary of melanoma	Number Code	0 = No 1 = Yes 99 = Unknown/ Missing	Y	VITALSTATUSDATE [Eligibility: The first primary invasive melanoma is eligible, without regard for subsequent melanomas, if synchronous select deeper]	
AGE_AT_DX SEX	Age at diagnosis Sex	Integer Number Code	1 = Male 2 = Female 99 = Unknown/ Missing	Y Y	[Eligibility: Must equal 1 or 2, Unknown/ Missing not eligible]	Center PI Center PI
race	Race	Number Code	1 = White 2 = Asian 3 = American Indian/Alaska Native 4 = Black or African American 5 =Native Hawaiian or Other Pacific Islander 6 = More than one race 7 = Other 99 = Unknown/ Missing			Center PI

InterMEL Variable	Definition	Value type	Code	Required?	Notes	Responsible Data Source
ethnicity	Ethnicity (when possible)	Number Code	1 = Hispanic			Center PI
			2 = Non-Hispanic			
			99 = Unknown/ Missing			
STAGE_AJCC8	Pathological staging at time of diagnosis	Number Code	1 = II	Y	Note, with Breslow thickness, mitotic rate, and	Center PI
	based on AJCC8		2 = IIA		ulceration, we can assign T stage to any tumor	
			3 = IIB		using any system.[Eligibility: Tumors should be	
			4 = IIC		1.00 mm (1-2.00 with ulceration) or more. No	
			5 = 111		distant metastases at diagnosis.]. AJCC8 added	
			6 = IIIA		microsatellites, microsatellites and in-transit	
			7 = IIIB		mets to nodal status.	
			8 = IIIC			
			9 = IIID			
stage_T_ajcc8	AJCC8 TNM staging - T (as available)	Number Code	0 = T0: No evidence of primary tumor/or site of primary tumor is unknown'	Y	[Eligibility: Tumors should be 1.00 mm (1-2.00 with ulceration) or more.]	Center PI
			1 = T1: ≤ 1.0mm, unkwn ulceration [Not			
			Eligible];			
			2 = T1a: <0.8mm, w/o ulceration [Not Eligible];			
			3 = T1b: <0.8mm, w/ ulceration or 0.8-1.0mm			
			w/ or w/o ulceration [Not Eligible];			
			4 = T2: >1.0-2.0mm, unkwn ulceration;			
			5 = T2a: >1.0mm-2.0 mm, w/o ulceration;			
			6 = T2b: >1.0mm-2.0 mm, w/ ulceration;			
			7 = T3: >2.0-4.0mm, unkwn ulceration;			
			8 = T3a: >2.0mm-4.0mm, w/o ulceration;			
			9 = T3b: >2.0mm-4.0mm, w/ ulceration;			
			10 = T4: >4.0mm, unkwn ulceration			
			11 = T4a: >4.0 mm, w/o ulceration;			
			12 = T4b: > 4.0 mm, w/ ulceration;			
			13 = Tis: Melanoma in situ			
			98 = TX: Primary tumor thickness cannot be			
			assessed			
			99 = Unknown/ Missing			

InterMEL Variable	Definition	Value type	Code	Required ?	Notes	Responsible Data Source
stage_N_ajcc8	AJCC8 TNM staging - N (as available)	Number Code	 Oute NO: No spread to nearby lymph nodes N1: one tumor-involved node or any number of in-transit, satellite, and/or microsatellite metastases with no tumor-involved nodes N1: One clinically occult (i.e., detected by SLN biopsy) N1: one clinically detected N1: on regional lymph node disease, but with presence of in-transit, satellite and/or microsatellite metastases N2: Two or three tumor-involved nodes or any number of i-transit, satellite, and/or microsatellite metastases with one tumor- involved node N2: Two or three clinically occult (i.e., detected by SLN biopsy) N2: Two or three, at least one of which was clinically detected N2: Cone clinically occult or clinically detected LN, with the presence of in-transit, satellite, and/or microsatellite metastases N3: Four or more tumor-involved node or any number of 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 N3: Four or more clinically occult (i.e., detected by SLN biopsy) N3: Four or more, at least one of which was clinically detected., or presence of any number of matted nodes N3: Four or more, at least one of which was clinically detected., or presence of any number of matted nodes N3: Two or more clinically occult or clinically detected and/or presence of any number of matted nodes N3: Nearby (regional) lymph nodes cannot be assessed Unknown/ Missing 	Y	Provide as much information on Lymph node status (clinically palpable or through SLN) as possible. See SLN_status for neagtive/positive.	Center PI
stage_M_ajcc8	AJCC8 TNM staging - M (as available)	Number Code	0 = M0 - No distant metastasis 1 = M1a [Not Eligible]	Y	[Eligibility: M1/Stage IV not eligible]	Center PI

stage_M_ajcc8	AJCC8 TNM staging - M (as available)	Number Code	0 = M0 - No distant metastasis 1 = M1a [Not Eligible] 2 = M1b [Not Eligible] 3 = M1c [Not Eligible] 4 = M1d [Not Eligible] 99 = Unknown/ Missing	Y	[Eligibility: M1/Stage IV not eligible]	Center Pl
initial_breslow	Breslow Thickness (mm)	Number	[999 if Missing]			Center PI

InterMEL Variable	Definition	Value type	Code	Required?	Notes	Responsible Data Source
initial_ulceration	Presence of ulceration - yes/no	Number Code	1= Absent 2= Present 3 = Indeterminate 99 = Unknown/ Missing			Center PI
PRIMARY_TUMOR_SITE	Primary tumor location - body site (ICD-0 3 SITE CODES)	D- Number Code	 0 = C44.0 Skin of lip, NOS 1 = C44.1 Eyelid 2 = C44.2 External ear 3 = C44.3 Skin of other and unspecified parts of face 4 = C44.4 Skin of scalp and neck 5 = C44.5 Skin of trunk 6 = C44.6 Skin of upper limb and shoulder 7 = C44.7 Skin of lower limb and hip (Including buttocks) 8 = C44.8 Overlapping lesion of skin 9 = C44.9 Skin, NOS 99 = Unknown/ Missing 	Y	https://training.seer.cancer.gov/melanoma/abstr act-code-stage/codes.html - we will make a note for the very rare cutaneous genital sites and code as C44.9, NOS	
tumor_burden	Size (mm) of size of the largest tumour deposit	Number	99 = Unknown/ Missing		Provide if possible. The recorded measurements should be the size of the largest tumour deposit (not the size of the involved lymph node, under less it is entirely replaced by tumour). (The size of the largest metastasis within sentinel lymph nodes is a strong predictor of the presence of additional positive non-sentinel lymph nodes within the lymph node basin and also a strong predictor of survival/outcome)	
SLN_status	SLN evaluation status	Number Code	1 = Negative 2 = Positive 99 = Unknown/ Missing		Result of sentinel lymph node biopsy or fine- needle aspiration. Result detail is in the field stage_N_ajcc8	Center PI
tumor_subtype	Tumor subtype (if known)	Number Code	1 = BRAF positive 2 = NRAS positive 3 = Both BRAF and NRAS 4 = Neither BRAF or NRAS 5 = Other mutation 98 = Not Assessed 99 = Unknown/ Missing			Center PI
tumor_subtype_os progression	Other Tumor subtype (specify) Evidence of progression - Progressive disease noted prior to or during first course of treatment	Text Number Code	1 = Yes 2 = No 99 = Unknown/ Missing		Based on NCI Definition: Becomes worse (stage) or spreads in the body (metastasizes)	Center PI Center PI
progression_date	Date of progression	Date	MM/DD/YYYY		If month unknown use '00', if date unknown use '00', If entire date unknown type 'UNK'. Will be reconciled to '06' or '15' respectively during data cleaning.	Center PI

InterMEL Variable	Definition	Value type	Code	Required?		Responsible Data Source
recurrence	Recurrence - After curative treatment and an observed disease free-interval period (see additional definition in notes)	Number Code	1 = Yes 2 = No 99 = Unknown/ Missing		Based on NCI Definition: Melanoma that has recurred (come back), usually after a period of time during which the melanoma could not be detected. The melanoma may come back to the same place as the original (primary) tumor or to another site. However, the stage will not have changed and there will be no organ metastases.	Center Pl
recurrence_date	Recurrence date (if known)	Date	MM/DD/YYYY		If month unknown use '00', if date unknown use '00', if entire date unknown type 'UNK'. Will be reconciled to '06' or '15' respectively during data cleaning.	Center Pl
recurrence_site	Anatomic site or recurrence	Text	[Describe the site of recurrence]			Center PI
AntiMEK_inhibitor	Treatment with Vemurafenib, Dabrafenib Cobimettinib, trametinib?	Number Code	1 = Yes 2 = No 99 = Unknown/ Missing			Center PI
AntiMEK_inhibitor_date	Treatment date if known	Date	MM/DD/YYYY		If month unknown use '00', if date unknown use '00', if entire date unknown type 'UNK'. Will be reconciled to '06' or '15' respectively during data cleaning.	Center Pl
ilpilimumab	Treatment with Ipilimumab?	Number Code	1 = Yes 2 = No 99 = Unknown/ Missing			Center PI
ilpilimumab_date	Treatment date if known	Date	MM/DD/YYYY		If month unknown use '00', if date unknown use '00', if entire date unknown type 'UNK'. Will be reconciled to '06' or '15' respectively during data cleaning.	Center PI
antiPD_1	Treatment with Anti-PD1 (Nivolumab, pembrolizumab)?	Number Code	1 = Yes 2 = No 99 = Unknown/ Missing			Center PI
antiPD_1_date	Treatment date if known	Date	MM/DD/YYYY		If month unknown use '00', if date unknown use '00', if entire date unknown type 'UNK'. Will be reconciled to '06' or '15' respectively during data cleaning.	Center Pl
interferon	Treatment with Interferon?	Number Code	1 = Yes 2 = No 99 = Unknown/ Missing			Center PI
interferon_date	Treatment date if known	Date	MM/DD/YYYY		If month unknown use '00', if date unknown use '00', If entire date unknown type 'UNK'. Will be reconciled to '06' or '15' respectively during data cleaning.	Center PI
other_treatment	Other Treatment	Number Code	1 = Yes 2 = No 99 = Unknown/ Missing			Center PI
other_treatment_os	Other Treatment (specify)	Text				Center PI

InterMEL Variable	Definition	Value type	Code	Required ?		Responsible Data Source
other_treatment_date	Treatment date if known	Date	MM/DD/YYYY		If month unknown use '00', if date unknown use '00', if entire date unknown type 'UNK'. Will be reconciled to '06' or '15' respectively during data cleaning.	Center Pl
height	Height at diagnosis	Number	999 = Unknown/ Missing		Inches or Centimeters ONLY	Center PI
height_unit	Units for Height at Dx	Number Code	1 = Inches (in) 2 = Centimeters (cm)		Specify Units	Center PI
weight	Weight at diagnosis	Number	999 = Unknown/ Missing		Pounds or Kilograms ONLY (NOTE: Missing is set to 999 due to biologically plausible value for 99kg)	Center PI
weight_unit	Units for Weight at Dx	Number Code	1 = Pounds (lb) 2 = Kilograms (kg)		Specify Units	Center PI
bmi	BMI (kg/m^2) at diagnosis	Number	99 = Unknown/ Missing		Calculated variable using HEIGHT and WEIGHT	Center PI
center_notes	Additional notes from Center	Note Field Number				Center PI Dermatopathologist/Core 2 via REDCap
path_id	Pathology Record [Auto Populated]	Date			Automatically Generated	Entry System Dermatopathologist/Core 2 via REDCap
path_date	Date Assessed	Number Code	MM/DD/YYYY 1 = KB			Entry System Dermatopathologist/Core 2 via REDCap
path_initials	Pathologist Initials	Number Code	2 = CL 1 = Biopsy			Entry System Dermatopathologist/Core 2 via REDCap
specimen	Specimen Type	Number code	2 = Excision			Entry System
hist	Histology (ICD-O-3 Morphology Codes)	Number Code	 Malignant Melanoma, NOS (8720/3) Nodular Melanoma (8721/3) Malignant Melanoma, Regressing (8723/3) Amelanotic Melanoma (8730/3) Lentigo Maligna Melanoma (8742/3) Superficial Spreading Melanoma (8743/3) Acral Lentiginous Melanoma (8744/3) Desmoplastic Melanoma (8745/3) Mixed Other, Specify Unknown/ Missing 		https://training.seer.cancer.gov/melanoma/abstr act-code-stage/morphology.html	Dermatopathologist/Core 2 via REDCap Entry System
hist_os	Histology - Other, Specify	Text			Descibe other histologic code	Dermatopathologist/Core 2 via REDCap Entry System
thickness	Breslow Thickness (mm)	Number	[999 if Missing]			Dermatopathologist/Core 2 via REDCap Entry System
clarklevel	Clark Level	Number Code	1 = I 2 = II 3 = III 4 = IV			Dermatopathologist/Core 2 via REDCap Entry System
mitoses	Presence of mitoses?	Number Code	5 = V 0 = Absent 1 = Present 99 = Cannot assess			Dermatopathologist/Core 2 via REDCap Entry System
mit_index_mm	Present Mitotic Index (#/mm2)	Number				Dermatopathologist/Core 2 via REDCap Entry System
	Flag for #/slide	Number Code	1 = Lesion area does not permit assessment per			Dermatopathologist/Core 2 via REDCap

Image: Minimage: Minima	InterMEL Variable	Definition	Value type	Code	Required? Notes	Responsible Data Source
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ThisTumor infitzing wiphovytesNumber Code $2 - None tracks2 - None tr$				3 = Indeterminate		
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stabilities before the series of the series	TILs	Tumor infiltrating lymphocytes	Number Code	1 = Brisk		Dermatopathologist/Core 2 via REDCap
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pigmented epithelioid cells or amelanotic spindle cells] Entry System Entry System r_nevus Number Code 0 = Absent 1 = Present 99 = Cannot assess Dermatopathologist/Core 2 via REDCap Entry System satellites Number Code 0 = Absent 1 = Present 2 = Not applicable (Biopsy only) 99 = Cannot assess Dermatopathologist/Core 2 via REDCap Entry System see Solar Elastosis Number Code 0 = Absent 1 = Present 2 = Not applicable (Biopsy only) 99 = Cannot assess see Solar Elastosis Number Code 0 = Absent 1 = Mild/Moderate 2 = Severe 88 = Cannot assess 98 = Cannot asses 98 = Cannot assess 98 = Cannot asses 98 = Cannot assess 98 = Cannot asses				99 = Cannot assess		
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9 = Unknown/Missing Dermatopathologist/Core 2 via REDCap cell_type Cell Type Text Dermatopathologist/Core 2 via REDCap purity Purity Text Dermatopathologist/Core 2 via REDCap poni Perineural Invasion (PNI) Number Code 1 = Present Added 1/23 Dermatopathologist/Core 2 via REDCap path_notes Note Field 1 = Present Added 1/23 Dermatopathologist/Core 2 via REDCap				2 = Severe		
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