

Calculating long term melanoma specific mortality risk using the BAUSSS biomarker

Table 1: Breslow Age Ulceration (BAU) calculation of primary cutaneous melanoma mortality

Not ulcerated							Breslow thickness	Ulcerated						
Age of patient								Age of patient						
20	30	40	50	60	70	80		20	30	40	50	60	70	80
1	1	1	1	1	2	2	0.2	1	2	2	3	3	4	4
1	2	2	2	3	3	4	0.4	3	4	5	6	6	7	8
2	2	3	3	4	5	5	0.6	4	6	7	8	9	11	12
2	3	4	5	6	6	7	0.8	5	8	9	11	12	14	16
3	4	5	6	7	8	9	1	6	9	11	13	15	17	20
3	5	6	7	8	9	10	1.2	8	11	13	15	17	20	23
4	6	7	8	9	10	12	1.4	9	13	15	18	20	23	26
5	6	8	9	11	12	13	1.6	10	15	17	20	22	26	30
5	7	9	10	12	13	15	1.8	11	16	19	22	25	29	32
6	8	10	11	12	14	16	2	12	18	20	24	27	31	35
6	9	11	12	13	16	18	2.2	13	20	22	26	29	34	38
7	9	12	13	14	17	19	2.4	15	21	24	29	32	36	High Risk Grey region designates any BAU score > 40 and is regarded as high risk of melanoma specific mortality
7	10	13	14	16	18	21	2.6	16	23	26	30	34	39	
8	11	13	15	17	20	22	2.8	17	24	27	32	36		
8	12	14	16	18	21	24	3	18	26	29	34	38		
9	12	15	17	19	22	25	3.2	19	27	31	36	40		
9	13	16	18	20	23	26	3.4	20	29	32	38			
10	14	17	19	21	24	28	3.6	21	30	34	40			
11	14	18	20	22	26	29	3.8	22	32	35				
11	15	19	21	23	27	30	4	23	33	37				
12	17	21	23	26	29	33	4.5	26	36	40				
13	19	23	25	28	32	36	5	28	39					
14	20	25	27	30	35	39	5.5	30						
15	22	27	29	32	37		6	32						

To calculate the 15-year melanoma specific melanoma mortality risk using BAUSSS

- Multiply score in Table 1 (detailing BAU) with score in Table 2 (detailing SSS)
- Resultant score is the long-term melanoma specific mortality risk
- Table 3 identifies how TNM staging is very broad in risk assessment

Table2: Multiple to adjust risk for Subtype Sex Site (SSS)

Sex	Trunk	H&N	Limb	Subtype	Sex	Trunk	H&N	Limb
Female	0.70	1.00	0.55	Superficial Spreading Melanoma	Male	1.00	1.40	0.80
	0.80	1.15	0.65	Nodular Melanoma		1.15	1.65	0.95
	0.45	0.65	0.40	Lentigo Maligna Melanoma		0.65	0.95	0.55
			0.85	Acral Melanoma				1.20
	0.90	1.30	0.75	Desmoplastic Melanoma		1.30	1.70	1.05

Table 3: (AJCC) TNM classification

(IA) T1a N0M0
(IA) T1b N0M0
(IB) T2a N0M0
(IIA) T2b N0M0
(IIA) T3a N0M0
(IIB) T3b N0M0
(IIB) T4a N0M0
(IIC) T4b N0M0