

## Calculating long term melanoma specific mortality risk using the BAUSSS biomarker

| 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 | Any score greater than 40 in Table 1 regarded as "high risk" of 15 year 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 figure in Table 1 (detailing BAU) with figure in Table 2 (detailing SSS).
- The resultant figure is the long-term mortality risk based on BAUSSS biomarker.
- Table 3 identifies how staging would very broadly assess risk under TNM system.

| 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 |

|                |
|----------------|
| (Ia) T1a N0M0  |
| (Ia) T1b N0M0  |
| (Ib) T2a N0M0  |
| (IIa) T2b N0M0 |
| (IIa) T3a N0M0 |
| (IIb) T3b N0M0 |
| (IIb) T4a N0M0 |
| (IIc) T4b N0M0 |