1. **Under the sensitivity assumption**

**Comparison List**

\*standard error was estimated by Score with Continuity Correction

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Prev. | Se0 | Se1 | Power | Alpha | N1 | N |
| 20% | 0.7 | 0.8 | 0.8 | 0.05 | 159 | 795 |
| 0.75 | 0.8 | 570 | 2850 |
| 0.7 | 0.85 | 69 | 345 |
| 0.75 | 0.85 | 136 | 680 |
| 0.8 | 0.85 | 473 | 2365 |
| 25% | 0.7 | 0.8 | 159 | 636 |
| 0.75 | 0.8 | 570 | 2280 |
| 0.7 | 0.85 | 69 | 276 |
| 0.75 | 0.85 | 136 | 544 |
| 0.8 | 0.85 | 473 | 1892 |

**For OSCC**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Site Prev. in OSCC | Site Prev. in Total | Se0 | Se1 | Power | Alpha | N  (site) | N  (OSCC) | N  (Total) |
| A | 34.4% | 7.7% | 0.8 | 0.828 | 0.8 | 0.05 | 1557 | 4520 | 20123 |
| 0.75 | 229 | 664 | 2959 |
| 0.7 | 96 | 278 | 1240 |
| B | 13.3% | 3.0% | 0.8 | 0.833 | 1088 | 8160 | 36327 |
| 0.75 | 200 | 1500 | 6677 |
| 0.7 | 88 | 660 | 2938 |
| C | 27.0% | 6.1% | 0.75 | 0.767 | 4972 | 18389 | 81867 |
| 0.7 | 359 | 1327 | 5911 |
| ABC | 74.8% | 16.8% | 0.8 | 0.807 | 25954 | 34690 | 154439 |
| 0.75 | 438 | 585 | 2606 |
| 0.7 | 139 | 185 | 827 |

Site Prev. in OSCC: the prevalence of OSCC site A, B or C in OSCC patients

Site Prev. in Total: the prevalence of OSCC site A, B or C in patients with suspicious lesion identified by conventional oral examination

1. **Under the sensitivity assumption with marginal error**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Site Prev. in OSCC | Site Prev. in Total | Margin | Se | Power | Alpha | N  (site) | N  (OSCC) | N  (Total) |
| A | 34.4% | 7.7% | 0.03 | 0.828 | 0.8 | 0.05 | 608 | 1766 | 7859 |
| 0.05 | 219 | 636 | 2829 |
| 0.028 | 701 | 2033 | 9049 |
| B | 13.3% | 3.0% | 0.03 | 0.833 | 593 | 4447 | 19794 |
| 0.05 | 214 | 1601 | 7126 |
| 0.033 | 481 | 3602 | 16033 |
| C | 27.0% | 6.1% | 0.03 | 0.767 | 763 | 2821 | 12556 |
| 0.05 | 275 | 1016 | 4520 |
| 0.017 | 2341 | 8657 | 38539 |
| ABC | 74.8% | 16.8% | 0.03 | 0.807 | 665 | 889 | 3957 |
| 0.05 | 240 | 320 | 1425 |
| 0.007 | 12460 | 16654 | 74139 |