**Supplemental material S3**

***A Interobserver agreement for the entire collective***

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| --- | --- | --- | --- | --- |
| ENTIRE COLLECTIVE | BECKER (kappa (95%CI)) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.54 (0.39-0.68) | 0.64 | 0.71 (0.6-0.82 | 0.78 |
| Obs 1/3 | 0.65 (0.52-0.78) | 0.78 (0.69-0.88) |
| Obs 2/3 | 0.74 (0.62-0.86) | 0.84 (0.76-0.92) |
|  |  |  |  |  |
|  |  |  |  |  |
| ENTIRE COLLECTIVE | MANDARD (kappa (95%CI) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.44 (0.3-0.59) | 0.36 | 0.67 (0.57-0.78) | 0.62 |
| Obs 1/3 | 0.21 (0.08-0.34) | 0.53 (0.43-0.64) |
| Obs 2/3 | 0.42 (0.28-0.56) | 0.65 (0.55-0.75) |
|  |  |  |  |  |
|  |  |  |  |  |
| ENTIRE COLLECTIVE | BECKER MODIFIED (kappa (95%CI)) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.8 (0.69-0.92) | 0.74 | 0.83 (0.72-0.93) | 0.77 |
| Obs 1/3 | 0.65 (0.5-0.8) | 0.69 (0.56-0.83) |
| Obs 2/3 | 0.76 (0.63-0.89) | 0.79 (0.67-0.91) |
|  |  |  |  |  |
|  |  |  |  |  |
| ENTIRE COLLECTIVE | MANDARD MODIFIED (kappa (95%CI)) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.73 (0.58-0.86) | 0.61 | 0.77 (0.65-0.89) | 0.67 |
| Obs 1/3 | 0.51 (0.37-0.66) | 0.59 (0.45-0.73) |
| Obs 2/3 | 0.6 (0.45-0.75) | 0.65 (0.51-0.79) |

***B Interobserver agreement for the investigation of the whole tumor bed***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| WHOLE TUMORBED | BECKER (kappa (95%CI)) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.65 (0.46-0.84) | 0.72 | 0.79 (0.66-0.91) | 0.83 |
| Obs 1/3 | 0.68 (0.5-0.86) | 0.81 (0.68-0.93) |
| Obs 2/3 | 0.82 (0.67-0.96) | 0.89 (0.81-0.98) |
|  |  |  |  |  |
|  |  |  |  |  |
| WHOLE TUMORBED | MANDARD (kappa (95%CI) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.48 (0.28-0.68) | 0.51 | 0.72 (0.59-0.84) | 0.73 |
| Obs 1/3 | 0.42 (0.22-0.61) | 0.67 (0.54-0.81) |
| Obs 2/3 | 0.64 (0.45-0.82) | 0.80 (0.69-0.91) |
|  |  |  |  |  |
|  |  |  |  |  |
| WHOLE TUMORBED | BECKER MODIFIED (kappa (95%CI)) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.87 (0.74-1.0) | 0.77 | 0.89 (0.78-1.0) | 0.81 |
| Obs 1/3 | 0.66 (0.45-0.88) | 0.71 (0.52-0.9) |
| Obs 2/3 | 0.79 (0.61-0.96) | 0.82 (0.66-0.97) |
|  |  |  |  |  |
|  |  |  |  |  |
| WHOLE TUMORBED | MANDARD MODIFIED (kappa (95%CI)) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.75 (0.56-0.93) | 0.72 | 0.8 (0.64-0.95) | 0.77 |
| Obs 1/3 | 0.67 (0.48-0.87) | 0.73 (0.56-0.9) |
| Obs 2/3 | 0.75 (0.55-0.94) | 0.79 (0.62-0.96) |

***C Interobserver agreement for the investigation of one representative slide***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ONE SLIDE | BECKER (kappa (95%CI)) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.4 (0.19-0.61) | 0.55 | 0.58 (0.4-0.77) | 0.68 |
| Obs 1/3 | 0.59 (0.38-0.79) | 0.71 (0.54-0.88) |
| Obs 2/3 | 0.65 (0.46-0.84) | 0.76 (0.61-0.91) |
|  |  |  |  |  |
|  |  |  |  |  |
| ONE SLIDE | MANDARD (kappa (95%CI) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.39 (0.17-0.6) | 0.21 | 0.6 (0.42-0.77) | 0.49 |
| Obs 1/3 | 0.01 (-0.14-0.18) | 0.39 (0.25-0.53) |
| Obs 2/3 | 0.23 (0.05-0.41) | 0.49 (0.35-0.64) |
|  |  |  |  |  |
|  |  |  |  |  |
| ONE SLIDE | BECKER MODIFIED (kappa (95%CI)) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.73 (0.54-0.92) | 0.69 | 0.75 (0.57-0.93) | 0.71 |
| Obs 1/3 | 0.61 (0.39-0.83) | 0.64 (0.43-0.86) |
| Obs 2/3 | 0.72 (0.52-0.91) | 0.74 (0.55-0.93) |
|  |  |  |  |  |
|  |  |  |  |  |
| ONE SLIDE | MANDARD MODIFIED (kappa (95%CI)) | | | |
|  | Simple | Av. simple | Weighted | Av. Weighted |
| Obs 1/2 | 0.69 (0.48-0.9) | 0.52 | 0.72 (0.52-0.93) | 0.57 |
| Obs 1/3 | 0.39 (0.19-0.58) | 0.45 (0.26-0.64) |
| Obs 2/3 | 0.48 (0.28-0.68) | 0.54 (0.35-0.72) |