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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplemental table 1. Number of participants per CN and CT category.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Max. | SpO2 ≥95% n (%) | SpO2 <95% n (%) |
| CNTotal | 5-9 | 3 (3.3) | 2 (13.3) \* |
| 10-14 | 2 (2.2) | 2 (13.3) \* |
| 15-19 | 9 (10.0) | 9 (60.0) \* |
| 20-29 | 21 (23.3) | 2 (13.3) \* |
| 30+ | 55 (61.1) | 0 |
|  | 90  | 15  |
| CT (sec.)Total | 3-5 | 7 (7.8) | 3 (21.4) # |
| 6-7 | 10 (11.1) | 9 (64.3) \* |
| 8-9 | 33 (36.7) | 0 |
| 10-11 | 28 (31.1) | 1 (7.2) |
| 12-20 | 12 (13.3) | 1 (7.2) |
|  | 90 | 14  |

Abbreviations: CN, counting number; CT, counting time; Max, maximum; N, number of patients; Sec, seconds; \*, of which one <90%; # of which two <90%.Supplemental table 2. Sensitivity and specificity (incl. 95% CI) of the Roth score  |
|  | **Oxygen saturation <95%** | **Oxygen saturation <90%** |
|  | SENS (%) | 95% CI | SPEC (%) | 95% CI | SENS (%) | 95% CI | SPEC (%) | 95% CI |
| Max. CN |  |  |
| 7 | 6.7 | 0.2 – 32.0 | 97.8 | 92.2 – 99.7 | 25.0 | 0.6 – 80.6 | 98.0 | 93.0 – 99.8 |
| 10 | 13.3 | 1.7 – 40.5 | 95.6 | 89.0 – 98.8 | 25.0 | 0.6 – 80.6 | 95.0 | 88.8 – 98.4 |
| 15 | 26.7 | 7.8 – 55.1 | 92.2 | 84.6 – 96.8 | 50.0 | 6.8 – 93.2 | 91.1 | 83.9 – 95.9 |
| 20 | 93.3 | 68.1 – 99.8 | 77.8 | 67.8 – 85.9 | 75.0 | 19.4 – 99.4 | 69.3 | 59.3 – 78.1 |
| Max. CT (sec.) |  |
| 5 | 21.4 | 4.7 – 50.8 | 92.2 | 84.6 – 96.8 | 66.7 | 9.4 – 99.2 | 92.1 | 85.0 – 96.5 |
| 6 | 42.9 | 17.7 – 71.1 | 87.8 | 79.2 – 93.7 | 66.7 | 9.4 – 99.2 | 85.1 | 76.7 – 91.4 |
| 7 | 85.7 | 57.2 – 98.2 | 81.1 | 71.5 – 88.6 | 100 | 29.2 - 100 | 74.3 | 64.6 – 82.4  |
| 8 | 85.7 | 57.2 – 98.2 | 62.2 | 51.4 – 72.2 | 100 | 29.2 - 100 | 57.4 | 47.2 – 67.2 |
| 9 | 85.7 | 57.2 – 98.2 | 44.4 | 34.0 – 55.3 | 100 | 29.2 - 100 | 41.6 | 31.9 – 51.8 |
| 10 | 85.7 | 57.2 – 98.2 | 27.8 | 18.9 – 38.2 | 100 | 29.2 - 100 | 26.7 | 18.4 – 36.5 |
| 11 | 92.9 | 66.1 – 99.8 | 13.3 | 7.1 – 22.1 | 100 | 29.2 - 100 | 12.9 | 7.0 – 21.0 |
| 12 | 92.9 | 66.1 – 99.8 | 7.8 | 3.2 – 15.4 | 100 | 29.2 - 100 | 7.9 | 3.5 – 15.0 |
| 13 | 92.9 | 66.1 – 99.8 | 5.6 | 1.8 – 12.5 | 100 | 29.2 - 100 | 5.9 | 2.2 – 12.5 |

Abbreviations: SENS, sensitivity; SPEC, specificity; CI, confidence interval; max, maximum; CN, counting number; CT, counting time; sec, seconds.