

Tab. 3. Incidence of respiratory complications and related treatments in Trento and VON.

| | 501-750 g | | | 751-1000 g | | | 1001-1250 g | | | 1251-1500 g | | | All 501-1500 g | | |
|------------------------------------|-------------|---------------|-------------------------------------|-------------|---------------|-------------------------------------|-------------|---------------|-------------------------------------|-------------|---------------|-------------------------------------|----------------|----------------|-------------------------------------|
| | Trento | VON | OR (95% CI) MH (p-value) | Trento | VON | OR (95% CI) MH (p-value) | Trento | VON | OR (95% CI) MH (p-value) | Trento | VON | OR (95% CI) MH (p-value) | Trento | VON | OR (95% CI) MH (p-value) |
| Number of cases | 34 | 7614 | | 50 | 8943 | | 80 | 10003 | | 86 | 12335 | | 250 | 38895 | |
| Intubation in delivery room | 28 (82%) | 6167 (81%) | 1.09 (0.43-2.95) 0.04 (0.84) | 36 (72%) | 6618 (74%) | 0.90 (0.47-1.76) 0.10 (0.75) | 37 (46%) | 4901 (49%) | 0.90 (0.56-1.42) 0.24 (0.62) | 12 (14%) | 3454 (28%) | 0.42 (0.22-0.79) 8.38 (0.004) | 113 (45%) | 21003 (54%) | 0.70 (0.54-0.91) 7.74 (0.005) |
| Surfactant prophylaxis | 28 (82%) | 3655 (48%) | 5.05 (1.99-13.6) 15.99 (0.00006) | 33 (66%) | 3935 (44%) | 2.47 (1.33-4.63) 9.76 (0.002) | 28 (35%) | 2701 (27%) | 1.46 (0.89-2.36) 2.57 (0.11) | 6 (7%) | 1604 (13%) | 0.50 (0.20-1.20) 2.75 (0.097) | 95 (38%) | 11669 (30%) | 1.43 (1.10-1.86) 7.56 (0.006) |
| RDS | 31 (91%) | 7157 (94%) | 0.66 (0.19-2.71) 0.48 (0.49) | 38 (76%) | 7780 (87%) | 0.47 (0.24-0.96) 5.29 (0.02) | 51 (64%) | 7202 (72%) | 0.68 (0.42-1.11) 2.67 (0.10) | 35 (41%) | 6661 (54%) | 0.58 (0.37-0.92) 6.08 (0.014) | 155 (62%) | 28782 (74%) | 0.57 (0.44-0.75) 18.55 (0.00001) |
| Pneumothorax | 2 (6%) | 761 (10%) | 0.56 (0.09-2.41) 0.64 (0.42) | 1 (2%) | 537 (6%) | 0.32 (0.02-2.14) 1.42 (0.23) | 5 (6%) | 300 (3%) | 2.16 (0.76-5.59) 2.86 (0.09) | 2 (2%) | 370 (3%) | 0.77 (0.13-3.19) 0.13 (0.71) | 10 (4%) | 1945 (5%) | 0.79 (0.40-1.53) 0.52 (0.47) |
| NCPAP | 20 (59%) | 4492 (59%) | 0.99 (0.48-2.07) 0.00 (0.98) | 32 (64%) | 6797 (76%) | 0.56 (0.30-1.04) 3.92 (0.05) | 50 (63%) | 7102 (71%) | 0.68 (0.42-1.10) 2.78 (0.095) | 38 (44%) | 7154 (58%) | 0.57 (0.37-0.90) 6.68 (0.01) | 140 (56%) | 25671 (66%) | 0.66 (0.51-0.85) 11.06 (0.0009) |
| Conventional ventilation | 30 (88%) | 7005 (92%) | 0.65 (0.22-2.19) 0.65 (0.42) | 36 (72%) | 7602 (85%) | 0.45 (0.24-0.88) 6.57 (0.01) | 39 (49%) | 6602 (66%) | 0.49 (0.31-0.78) 10.50 (0.001) | 21 (24%) | 5551 (45%) | 0.39 (0.23-0.66) 14.63 (0.0001) | 126 (50%) | 26449 (68%) | 0.48 (0.37-0.62) 35.30 (0.00000) |
| CLD after 28 days | 10 (29%) | 7005 (92%) | 0.04 (0.02-0.08) 174.65 (0.0000) | 10 (20%) | 6618 (74%) | 0.09 (0.04-0.18) 74.80 (0.00000) | 11 (14%) | 4301 (43%) | 0.21 (0.11-0.41) 27.73 (0.00000) | 2 (2%) | 2714 (22%) | 0.08 (0.01-0.35) 19.35 (0.00001) | 33 (13%) | 20614 (53%) | 0.13 (0.09-0.20) 157.8 (0.00000) |
| CLD after 36 weeks | 5 (15%) | 5330 (70%) | 0.07 (0.03-0.20) 49.05 (0.00000) | 6 (12%) | 4382 (49%) | 0.14 (0.05-0.35) 27.24 (0.00000) | 2 (3%) | 2701 (27%) | 0.07 (0.01-0.29) 24.28 (0.00000) | 0 (0%) | 1850 (15%) | 0.00 (0.00-0.32) 15.15 (0.0001) | 13 (5%) | 14002 (36%) | 0.10 (0.05-0.17) 102.5 (0.00000) |

Data are shown as number of cases and (%)

OR: odds ratio; 95% CI: 95% confidence interval; MH: Mantel-Haenszel estimate