Appendix 2: Clinical characteristics of children based upon mode of feeding during High Flow Nasal Cannula (HFNC)

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|  |  | **Fed during HFNC** |
|  |  | **Mixed or Tube Feeding (n=28)** | **Exclusive Oral Feeding (n=50)** | ***p*** |
|  |  | **n** | **%** | **n** | **%** |  |
| **Age (months), mean (SD)** |  | 4.2 (4.4) |  | 7.5 (6.7) |  | 0.02 |
| **Gender** | Female | 11 | 39 | 17 | 34 | 0.81 |
| **Race/Ethnicity\*** |  |  |  |  |  |  |
|  | White, non-Hispanic | 18 | 64 | 30 | 63 | 0.2 |
|  | Black, non-Hispanic | 5 | 18 | 4 | 8 |  |
|  | Hispanic | 3 | 11 | 4 | 8 |  |
|  | Other | 2 | 7 | 3 | 6 |  |
|  | Unknown/Declined | 0 | 0 | 7 | 15 |  |
| **Passive Tobacco Exposure**  |  |  |  |  |  |  |
|  | Yes | 8 | 29 | 13 | 26 | 0.04 |
|  | No | 13 | 46 | 34 | 68 |  |
|  | Unknown/Declined | 7 | 25 | 3 | 6 |  |
| **Prematurity< 35 weeks** |  | 2 | 7 | 8 | 16 | 0.32 |
| **Day of illness on admit, mean (SD)** |  | 5.2 (2.0) |  | 4.7 (2.4) |  | 0.31 |
| **Unit HFNC initiated** |  |  |  |  |  |  |
|  | Pediatric Intensive Care  | 17 | 60 | 19 | 39 | 0.45 |
|  | Emergency Department | 6 | 21 | 18 | 37 |  |
|  | Medical Unit | 1 | 4 | 2 | 4 |  |
|  | Outside Hospital | 2 | 7 | 4 | 8 |  |
|  | Transport | 2 | 7 | 6 | 12 |  |
| **Positive pressure support prior to HFNC** |  |  |  |  |  |  |
|  | continuous Positive Airway Pressure | 3 | 11 | 2 | 4 | 0.34 |
|  | Bilevel Positive Airway Pressure | 0 | 0 | 1 | 2 | 1 |
|  | Mechanical Ventilation | 3 | 11 | 0 | 0 | 0.04 |
| **Respiratory Rate at HFNC initiation, mean (SD)** |  | 61.4 (17.7) |  | 63 (28.9) |  | 0.81 |
| **Blood gas obtained** |  | 14 | 50 | 23 | 46 | 0.82 |
| **HFNC (hours), median (IQR)** |  | 49.5(31.3-68.8) |  | 26.5(17.2-45.8) |  | 0.001 |