**Supplementary Table 1.** Demographics and clinical characteristics of study cohort stratified by country

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| --- | --- | --- | --- | --- |
|  | **All patients****(n=697)** | **Canada(n=435)** | **Costa Rica(n=205)** | **Iran(n=57)** |
| **Demographics** |  |  |  |  |
| Age at admission, years | 4 (0.9-10.5) | 6 (1.3-13.8) | 2.7 (0.5-7.5) | 2.1 (0.7-5.3) |
| Male | 403 (58%) | 244(56%) | 126 (61%) | 33 (58%) |
| Female | 294 (42%) | 191 (44%) | 79 (38%) | 24 (42%) |
| **Underlying conditions** |  |  |  |  |
|  Previously healthy | 390 (56%) | 234 (54%) | 126 (61%) | 30 (52%) |
|  Preterm birth (< 37 weeks GA) | 45 (6%) | 39 (9%) | 6 (3%) | 0 |
|  Congenital immunodeficiency | 4 (0.6%) | 3 (0.7%) | 0 | 1 (2%) |
|  Cancer | 36 (5%) | 13 (3%) | 16 (8%) | 7 (12%) |
|  Cardiovascular disease | 19 (3%) | 12 (3%) | 4 (2%) | 3 (5%) |
|  Asthma | 46 (7%) | 22 (5%) | 22 (11%) | 2 (3%) |
|  Cystic fibrosis | 2 (0.3%) | 2 (0.5%) | 0 | 0 |
|  Chromosomal disorder | 11 (2%) | 8 (2%) | 3 (1%) | 0 |
|  Diabetes | 11 (2%) | 9 (2%) | 1 (0.5%) | 1 (2%) |
|  Hypertension | 9 (1%) | 5 (1%) | 4 (2%) | 0 |
|  Obesity | 57 (8%) | 44 (10%) | 12 (6%) | 1 (2%) |
|  Neurological disorder | 74 (10%) | 54 (12%) | 15 (7%) | 5 (9%) |
|  Seizure disorder | 40 (6%) | 30 (7%) | 8 (4%) | 2 (3%) |
|  Developmental delay/autism | 38 (5%) | 31 (7%) | 7 (3%) | 0 |
|  Cerebral palsy | 8 (1%) | 4 (1%) | 1 (0.5%) | 3 (5%) |
|  ≥ 2 comorbid conditions | 92 (13%) | 67 (15%) | 22 (11%) | 3 (5%) |
| Met MIS-C criteria | 140 (20%) | 102 (23%) | 30 (15%) | 8 (14%) |
| ICU | 176 (25%) | 126 (29%) | 30 (15%) | 20 (35%) |
|  Mechanical ventilation\* | 114 (16%) | 72 (16%) | 25 (12%) | 17 (30%) |
| Duration of hospital stay, days | 4 (2-8) | 4 (2-8) | 4 (3-7) | 7 (6-10) |
| Any neurological manifestations | 147 (21%) | 91 (21%) | 44 (21%) | 12 (21%) |
| Headache only | 85 (12%) | 57 (13%) | 21 (10%) | 7 (12%) |

\*Data available from 665 patients. Abbreviations: ICU, intensive care unit; MIS-C, multisystem inflammatory syndrome in children