

Table 1. Univariate comparison of cases admitted to ICU/HD versus controls admitted to general ward and univariate comparison of mortality cases versus survivors of paediatric Influenza infection.

Clinical characteristics	ICU/HD admissions/ cases (n=55) (%)	GW admissions/ controls (n=154) (%)	Univariate analysis		Mortality (n=17) (%)		Survivors (n=192) (%)		
			Odds ratio	P value	Odds ratio	P value			
			Age, median (years)	4.5 (IQR 1.83–7.9)	2.6 (IQR 0.8–4.95)		0.02	4.3 (IQR 2.29–4.33)	2.8 (IQR 0.83–5.80)
Age category									
0–5 years	32 (58.2)	116 (75.3)			11 (64.7)	137 (71.4)			
>5 years	23 (41.8)	38 (24.7)	2.17 (1.15–4.17)	0.02	6 (35.3)	55 (28.6)			0.56
Race									
Chinese	33 (60.0)	86 (55.8)		0.6	12 (70.6)	107 (55.7)			0.54
Malay	12 (21.8)	44 (28.6)			4 (23.5)	52 (27.1)			
Indian	5 (9.1)	16 (10.4)			1 (5.9)	20 (10.4)			
Others	5 (9.1)	8 (5.2)			0 (0.0)	13 (6.8)			
Influenza type									
Influenza A	43 (78.2)	118 (76.6)		0.81	12 (70.6)	149 (77.6)			0.51
Influenza B	12 (21.8)	36 (23.4)			5 (29.4)	43 (22.4)			
Presenting symptoms									
Fever	51 (92.7)	145 (94.2)		0.71	16 (94.1)	180 (93.8)			0.95
Cough	33 (60.0)	121 (78.6)	0.41 (0.251–0.79)	0.007	12 (70.6)	142 (74.0)			0.76
Poor feeding	23 (41.8)	55 (35.7)		0.42	7 (41.1)	71 (37.3)			0.73
Rhinorrhoea	22 (40.0)	112 (72.7)	0.25 (0.13–0.48)	<0.001	8 (47.1)	126 (65.6)			0.13
Sore throat	3 (5.5)	6 (3.9)		0.63	1 (5.9)	8 (4.2)			0.91

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			Odds ratio	P value	Odds ratio	P value	Odds ratio	P value		
			Any tachypnoea	19 (34.5)	11 (7.1)	6.86 (3.0–15.7)	<0.001	5 (29.4)	25 (13)	
Vomiting	16 (29.1)	45 (29.2)		0.99	7 (41.2)	66 (34.4)			0.57	
Diarrhoea	9 (16.4)	21 (13.6)		0.62	3 (17.6)	27 (14.1)			0.69	
Any seizure	22 (40.0)	28 (18.2)	3.00 (1.52–5.90)	0.01	7 (41.2)	43 (22.4)			0.08	
Drowsiness	23 (41.8)	0 (0.0)	5.81 (4.24–7.97)	<0.001	8 (47.1)	15 (7.8)	10.49 (3.53–31.15)		<0.001	
Any significant comorbidities	22 (40.0)	20 (13)	4.46 (2.18–9.17)		7 (41.2)	35 (18.2)	3.14 (1.12–8.85)		0.02	
No high risk comorbidity	33 (60.0)	134 (87.0)			10 (58.8)	157 (81.8)				
1 high risk comorbidity	17 (30.9)	16 (10.4)			4 (23.5)	29 (15.1)				
≥2 high risk comorbidity	5 (9.1)	4 (2.6)			3 (17.6)	6 (0.03)				
High risk factors										
Respiratory	6 (10.9)	9 (5.8)		0.21	1 (5.9)	14 (7.3)			0.83	
Neurology	10 (18.2)	6 (3.9)	5.48 (1.88–15.91)	<0.001	4 (2.4)	12 (6.3)	4.62 (1.30–16.33)		0.01	
Cardiac	4 (7.3)	1 (0.6)	12.00 (1.21–109.84)	0.006	2 (11.8)	3 (1.6)	8.40 (1.30–54.22)		0.01	
Immunology	3 (5.5)	1 (0.6)	8.83 (0.898–86.73)	0.03	2 (11.8)	2 (1.0)	12.67 (1.67–96.37)		0.002	

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			Odds ratio	P value	Odds ratio	P value	Odds ratio	P value	
			Abnormal chest radiograph	19 (34.5)	6 (3.9)	13.02 (4.85–34.95)	<0.001	8 (47.1)	17 (8.9)
Normal chest radiograph	36 (65.5)	148 (96.1)			9 (52.9)	175 (91.1)			
Median duration of stay (days)	12 (IQR 6–31)	2 (IQR 2–3)		<0.001	11 (IQR 4.5–31.0)	3 (IQR 2–5)		0.001	
Use of oseltamivir									
Yes	41 (74.5)	7 (4.5)	61.5 (23.29–162.41)	<0.001	14 (82.4)	34 (17.7)	21.69 (5.91–79.64)	<0.001	
No	14 (25.5)	147 (95.5)			3 (17.6)	158 (82.3)			
Concurrent viral infections									
Present	9 (16.4)	4 (2.6)	7.34 (2.16–24.93)	0.001	4 (23.5)	9 (4.7)	6.26 (1.70–23.10)	0.002	
Absent	46 (83.6)	150 (97.4)			13 (76.5)	183 (95.3)			
Bacterial cultures*									
Negative	35 (71.4)	32 (84.2)		0.16	11 (64.7)	56 (80.0)		0.18	
Positive	14 (28.6)	6 (15.8)			6 (35.3)	14 (20.0)			

GW: general ward; HD: HD: high dependency; ICU: intensive care unit; IQR: interquartile range

* Bacterial coinfections include *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Staphylococcus aureus*, *Mycoplasma pneumoniae*, *Escherichia coli*, *Moraxella catarrhalis*, *Enterobacter cloacae*, *Klebsiella pneumoniae*, *Citrobacter koseri*, *Pseudomonas aeruginosa*.