



Online Appendix

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Appendix to: Fahey KP, Gelbart B, Oberender F, et al. Interhospital transport of children with bronchiolitis by a statewide emergency transport service. *Crit Care Resusc* 2021; 23: 292-299. <https://doi.org/10.51893/2021.3.OA6>

Supplementary table 1. Sensitivity analysis of rates of emergency transport for bronchiolitis over the study period excluding 2015

Variable	Entire cohort	2008–2012	2016–2019	Incidence rate ratio (95% CI)	P
Number of bronchiolitis emergency transports	802	233	418		
Proportion of all emergency transport, %	15.9%	11.8%	17.1%		< 0.001
Per 100 000 population aged 0–2 years	53.5	32.9	65.7	2.0 (1.7–2.4)	< 0.001
Admissions to PICU following emergency transport for bronchiolitis	405	115	197		
Proportion of bronchiolitis emergency transports, %	50.5	49.4	47.1		0.695
Proportion of all admissions to a PICU, %	2%	1.4%	2.2%		< 0.001
Per 100 000 population aged 0–2 years	27	16.2	31	1.9 (1.5–2.4)	< 0.001
Referring hospital location for all bronchiolitis transports					
Metropolitan hospital	587 (73.2%)	140 (60.1%)	325 (77.8%)		< 0.001
Regional hospital	215 (26.8%)	93 (39.9%)	93 (22.2%)		

PICU = paediatric intensive care unit.

Supplementary table 2. Respiratory support during emergency transport and duration of transport in all children with bronchiolitis

Variable	2008–2012	2015–2019	Incidence rate ratio (95% CI)	P
Number of respiratory therapies during transport	233	569		
No oxygen	23 (9.9%)	27 (4.7%)		0.006
▶ Per 100 000 population	3.2	3.4	1.0 (0.6–1.9)	0.870
Low flow oxygen	118 (50.6%)	33 (5.8%)		< 0.001
▶ Per 100 000 population	16.7	4.2	0.2 (0.2–0.4)	< 0.001
HFNC	5 (2.1%)	443 (77.9%)		< 0.001
▶ Per 100 000 population	0.7	55.9	79.2 (33.7–245.0)	< 0.001
CPAP	51 (21.9%)	42 (7.4%)		< 0.001
▶ Per 100 000 population	7.2	5.3	0.7 (0.5–1.1)	0.142
Mechanical ventilation	36 (15.5%)	24 (4.2%)		< 0.001
▶ Per 100 000 population	5.1	3.0	0.6 (0.3–1.0)	0.049
Duration of transport (h), median (IQR)				
All episodes	2.7 (1.7–3.9)	2.2 (1.8–3)		< 0.001
Transport with HFNC	2.2 (1.9–2.3)	2.1 (1.8–2.7)		0.801
Transport with CPAP	3 (2.3–3.8)	3 (2.5–4.5)		0.204
Transport with mechanical ventilation	4.5 (3.0–5.6)	4.9 (3.4–6.2)		0.386

CPAP = continuous positive airway pressure; HFNC = high flow nasal cannula; IQR = interquartile range.

Supplementary figure. Respiratory support modes during emergency transport for bronchiolitis in those admitted to the PICU (*n* = 802)

