

# Upper airway obstruction and sepsis following endotracheal intubation in paediatric cardiac surgical patients in South Africa

## Supplementary data

Table IV: Variables affecting airway interventions

Characteristic	No intervention (n = 80)	Intervention (n = 75)	p-value	Unadjusted OR (95% CI)	p-value	Adjusted OR (95% CI)
<b>Cuffed/Uncuffed</b>						
Uncuffed (n = 49)	21 (42.9%)	28 (57.1%)				
Cuffed (n = 106)	59 (55.7%)	47 (44.3%)	0.1	0.6 (0.3–1.2)	0.57	0.75 (0.27–2.04)
<b>Age</b>						
< 1 year (n = 33)	10 (30%)	23 (69.7%)				
≥ 1 year (n = 122)	70 (57.4%)	52 (42.6%)	0.007	0.3 (0.1–0.7)	0.10	0.33 (0.09–1.25)
<b>Weight</b>						
< 5 kg (n = 23)	7 (30.4%)	16 (69.6%)				
≥ 5 to ≤ 15 kg (n = 68)	33 (48.5%)	35 (51.5%)	0.1	0.5 (0.2–1.3)	0.99	0.99 (0.23–4.22)
> 15 kg (n = 63)	39 (61.9%)	24 (38.1%)	0.01	0.3 (0.1–0.7)	0.65	0.68 (0.14–3.47)
<b>Duration of ventilation in ICU</b>						
≤ 3 days (n = 118)	62 (52.5%)	56 (47.5%)				
> 3 days (n = 33)	15 (45.5%)	18 (54.5%)	0.5	1.3 (0.6–2.9)	> 0.3	p > 0.3 excluded
<b>Tube size</b>						
Correct size (n = 82)	52 (63.4%)	30 (36.6%)				
Too big (n = 48)	17 (35.4%)	31 (64.6%)	0.002	3.2 (1.5–6)	0.002	3.42 (1.55–7.56)
Too small (n = 24)	10 (41.7%)	14 (58.3%)	0.06	2.4 (1.0–6.1)	0.12	2.17 (0.81–5.81)

Table V: Variables affecting sepsis

Characteristic	No sepsis (n = 80)	Sepsis (n = 75)	p-value	Unadjusted OR (95% CI)	p-value	Adjusted OR (95% CI)
<b>Cuffed/Uncuffed</b>						
Uncuffed (n = 49)	24 (49.0%)	25 (51.0%)				
Cuffed (n = 106)	56 (52.8%)	50 (47.2%)	0.66	0.86 (0.44–1.69)	0.67	0.85 (0.40–1.82)
<b>Age</b>						
< 1 year (n = 33)	11 (33.3%)	22 (66.7%)				
≥ 1 year (n = 122)	69 (56.6%)	53 (43.4%)	0.02	0.38 (0.17–0.86)	0.42	0.67 (0.25–1.78)
<b>Duration of intubation in ICU</b>						
≤ 3 days (n = 112)	73 (65.2%)	39 (51.5%)				
> 3 days (n = 39)	5 (12.8%)	34 (38.1%)	< 0.001	12.73 (4.61–35.16)	< 0.001	15.46 (4.33–55.20)
<b>Duration of ventilation in ICU</b>						
≤ 3 days (n = 118)	73 (65.2%)	56 (47.5%)				
> 3 days (n = 33)	15 (45.5%)	18 (54.5%)	< 0.001	17.44 (5.02–6.55)	*	*
<b>Duration of operation</b>						
≤ 4 hrs (106)	56 (52.8%)	50 (47.2%)				
> 4 hrs (48)	23 (47.9%)	25 (52.1%)	0.57	1.22 (0.62–2.41)	*	*

Note: \*Duration of ventilation was co-linear with duration of intubation

\*Duration of operation: p-value was &gt; 0.3