

Supplementary Digital Content 5

Probability of mechanical ventilation

Reference	Study years	Risk group	Age (years)	Number of children		Probability of mechanical ventilation		
				Total N	SRMC n (%)	SRMC n (%)	Healthy n (%)	OR (95% CI)
Probability of mechanical ventilation if hospitalised - special risk medical conditions vs 'healthy'								
Ampofo (2006)	2001-2004	ACIP 2005	≤18	325	120 (37)	9 (7.5)	18 (8.8)	0.84 (0.37-1.94)
Burton (2008)	2006-2007	NACI 2006-2007 + SRMCs ¹	≤16	371	188 (51)	12 (6.4)	8 (4.4)	1.49 (0.60-3.74)
Chaves (2014)	2003-2012	SRMCs ²	<1	3157	796 (25)	69(8.7)	66 (2.8)	3.30 (2.33-4.67)
Coffin (2007)	2000-2004	ACIP 2005-2006	≤21	745	363 (49)	23(6.3)	9 (2.4)	2.80 (1.28-6.14)
Launes (2013)	2010-2011	chronic conditions ³	0.5 - <18	143	55 (38)	5(9.1)	15 (17.0)	0.49 (0.17-1.42)
Moore (2006)	2003-2004	chronic conditions ⁴	≤18	505	212(42)	(5.5)	(7.1)	-
PHAC (2006)	2004-2005	NACI 2004-2005 + SRMCs ⁷	≤16	391	211 (54)	14 (6.6)	11 (6.1)	1.09 (0.48-2.47)
Sam (2010)	2002-2007	ACIP 2008	<15	132	48 (36)	4 (8.3)	8 (9.5)	0.86 (0.25-3.03)
Spaeder (2011)	2002-2008	ACIP 2007	<18	59	36 (61)	16(44.4)	8 (34.8)	1.50 (0.51-4.42)
Serwint (1991)	1988-1989	ACIP 1988	≤19	99	43 (43)	4(9.3)	1 (2.0)	5.64 (0.61-52.43)
Suntarattiwong (2007)	2004-2005	"underlying diseases" ¹⁵	<5	39	8 (20)	1 (12.5)	1 (3.2)	4.29 (0.24-77.22)
Probability of mechanical ventilation if hospitalised - studies examining specific SRMC condition only								
Feldman (2017)	2004-2012	liver transplant	<18	143	143 (100)	29 (20.3)	-	-

Footnote: 1 Included neurological/ developmental disorder, genitourinary, gastrointestinal or hepatic disorder, nutritional disorder, bone joint or connective tissue disorder, multi system disorder or syndrome, relevant concurrent acute infection, prematurity, admitted within first year of life; 2: included lung and cardiovascular disease; metabolic disease; renal disease; neurologic and neuromuscular disorder; immunocompromised condition and prematurity (<37 weeks of gestation); 3: included as pulmonary, neurological, cardiac, renal, diabetes, immunodeficiency; 4: pulmonary disease, neurologic disease, immune deficiencies, hematologic, cardiac, gastrointestinal, malignancy, renal, endocrine/metabolic; 5: Not clearly defined but included: asthma, CP, ventricular septal defect, adrenogenital syndrome, Sotos syndrome; 6: those listed at 1 and chronic infection or severe skin disorder.