

## Supplementary Digital Content 7

Probability of death								
Reference	Study years	Risk group	Age (years)	Number of children			Probability of death	
				Total N	SRMC n (%)	SRMC n(%)	Healthy n(%)	OR (95% CI)
<b>Probability of death if hospitalised - special medical risk conditions vs 'healthy'</b>								
Ampofo (2006)	2001-2004	ACIP 2005	≤18	325	120 (37)	1 (0.8)	1 (0.5)	1.71 (0.11-27.66)
Blyth (2018)	2017	AIH	≤16	1268	572 (45)	3(0.5)	2(0.3)	0.55 (0.09-3.28)
Burton (2008)	2006-2007	NACI 2006-2007 + SRMC <sup>1</sup>	≤16	371	188 (51)	1 (0.5)	1 (0.5)	0.97 (0.06-15.68)
Chaves (2014)	2003-2012	HRMCs <sup>2</sup>	<1	3157	796 (25)	2 (0.2)	6 (0.2)	0.99 (0.20-4.91)
Coffin (2007)	2000-2004	ACIP 2005-2006	≤21	745	363 (49)	3 (0.8)	2 (0.5)	1.58 (0.26-9.53)
Dawood (2010)	2003-2008	ACIP 2007	<18	4015	1894 (47)	9 (0.5)	8 (0.4)	1.26 (0.49-3.28)
Launes (2013)	2010-2011	chronic conditions <sup>3</sup>	0.5 - <18	143	55 (38)	0 (0)	0 (0)	-
Leung (2014)	2009-2011	ACIP 2009	≤18	917	257 (28)	0 (0)	0 (0)	-
Moore (2006)	2003-2004	chronic conditions <sup>5</sup>	≤18	505	212 (41)	2 (0.9)	1 (0.3)	2.78 (0.25-30.87)
PHAC (2006)	2004-2005	NACI 2004-2005 + SRMC8	≤16	391	211 (54)	2(0.9)	0(0)	-
Punpanich (2014)	2010	ACIP 2010	≤18	289	41 (14)	2 (4.9)	0 (0)	-
Rojo (2006)	1996-2003	chronic conditions <sup>6</sup>	<3	117	48 (41)	0 (0)	9 (9)	-
Sam (2010)	2002-2007	ACIP 2008	<15	132	48 (36)	2 (4.2)	1 (1.2)	3.61 (0.32-40.88)
Serwint (1991)	1988-1989	ACIP 1988	≤19	99	43 (43)	2 (4.6)	1 (1.8)	2.68 (0.24-30.61)
Suntarattiwong (2007)	2004-2005	"underlying diseases" <sup>7</sup>	<5	39	8 (20)	0 (0)	0 (0)	-
<b>Probability of death if hospitalised - studies examining specific SRMC condition only</b>								
Feldman (2017)	2004-2012	liver transplant	<18	143	143 (100)	3 (2.1)	-	-
Lee (2015)	1999-2011	ALL + comorbidities <sup>9</sup>	<19	577	577 (100)	9 (1.43)	-	-
<b>Probability of death – studies of ICU admissions only</b>								
Kaczmarek (2016)	1997-2013	AIH	<16	704	287 (41)	13 (4.5)	14 (3.4)	1.36 (0.40-4.65)
Spaeder (2011)	2002-2008	ACIP 2007	<18	59	36 (61)	0 (0)	4 (17.4)	-

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 in results as pulmonary, neurological, cardiac, renal, diabetes, immunodeficiency; 5: pulmonary disease, neurologic disease, immune deficiencies, hematologic, cardiac, gastrointestinal, malignancy, renal, endocrine/metabolic; 6: chronic lung disease, congenital heart disease, HIV, anticancer treatment, malnutrition, drepanocytosis, coeliac, mitochondrial diseases, chronic renal failure; 7: Not clearly defined but included: asthma, CP, ventricular septal defect, adrenogential syndrome, Sotos syndrome; 8 : those listed at 1 and chronic infection or severe skin disorder; 9: chronic pulmonary, cardiac, neuromuscular or renal condition.