

Supplementary Digital Content 6

Hospital and ICU Length of Stay

Reference	Risk group	Sub group	LOS Risk Group	LOS Healthy
			Mean days; Median days (IQR)	Mean (days); Median days (IQR)
Studies reporting median hospital LOS				
Ampofo (2006)	ACIP 2005	6-23 months	Mean 4.69; Median 3 (2.0-6.5)	Mean 3.01; Median 2.0 (2.0-4.0)
		>2 years	Mean 5.83; Median 3.0 (2.0-6.0)	Mean 3.62; Median 2.0 (1.0-5.0)
Burton (2008)	NACI 2006-2007		Median 4.5	Median 2
	Additional SRMCs ¹		Median 3.5	–
Chaves (2014)	SRMCs ²	< 3 months	Median 3(2-5)	Median 2(1-3)
		>3 to 6 months	Median 3(2-6)	Median 2(1-3)
		>6 to <12 months	Median 2(1-4)	Median 2(1-3)
Launes (2013)	chronic conditions ³		Median 6.5 (IQR 4-10)	Median 6.0 (IQR 4-11)
Studies reporting mean hospital LOS				
Hassan (2009)	ACIP 2002/2003	Asthma	Mean 2.9	Mean 2.5
		Non-asthma SRMC	Mean 4.8	–
Ipp (2003)	NACI 2002		Mean 8.6	Mean 4.9
Moore (2006)	chronic conditions ⁴		Mean 7.4	Mean 3.7
PHAC (2006)	NACI 2004-2005		Mean 5.5 (range 1-34)	Mean 3.1 (range 1-20)
	Additional SRMCs ⁵		Mean 4.9 (range 1-20)	–
Sam (2010)	ACIP 2008		Mean 9.3	Mean 4.4
Studies reporting prolonged hospital LOS				
Blyth (2018)	AIH		aRR 1.75 (1.44-2.11) prolonged LOS ⁶	
Coffin (2007)	ACIP 2005-2006		59/363(16%) LOS >6 days	31/382(8%) LOS >6 days
Serwint (1991)	ACIP 1988		19/43(44%) LOS >14 days	6/56(11%) LOS > 14 days
Single SRMC studies reporting hospital LOS				
Feldman (2017)	liver transplant		Mean 21; Median 4	NA
Lee (2015)	ALL + comorbidities ⁷		Mean 8.9 (SD 13.5)	NA
Studies reporting ICU LOS				
Kaczmarek (2016)	AIH		Mean 7.1 (SD 9.7)	Mean 5.0 (SD 7.5)

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; 4: pulmonary disease, neurologic disease, immune deficiencies, hematologic, cardiac, gastrointestinal, malignancy, renal, endocrine/metabolic; 5: those listed at 1 and chronic infection or severe skin disorder; 6: aRR (adjusted rate ratio)- adjusted for indigeneity, ICU admission and antiviral use) for prolonged LOS using negative binomial regression; 7: chronic pulmonary, cardiac, neuromuscular or renal conditions; AIH: Australian Immunisation Handbook; SD: standard deviation.