











Marc H. Lebel, MD Décembre 2017

# Respiratory syncytial virus

- Paramyxovirus
- Infects only humans
- 2 serotypes: A & B
- November to April
- Highly contagious























































Rate of hospita	lization due to	RSV
	Number	Placebo (%)
All babies	1502	10.8
Child with BD	762	12.8
Child born before 32 weeks	740	11.0
Child without BD	740	8.1
Premature 32-35 weeks	373	9.8
Premature 32-35 weeks without BD	335	10.8
	The Impact-RSV Study Group.	Pediatrics 1999;102(3):531-7.

Rate of hospi	talizati	on due t	to RSV	
	Number	Placebo (%)	Palivizumab (%)	Reduction %
All babies	1502	10.8	4.8	55
Child with BD	762	12.8	7.9	39
Child born before 32 weeks	740	11.0	5.8	47
Child without BD	740	8.1	1.8	78
Premature 32-35 weeks	373	9.8	2.0	80
Premature 32-35 weeks without BD	335	10.8	1.8 ID. Pediatrics 1999	82







Marc H. Lebel, MD Décembre 2017



 premature babies, aged under 24 months at the start of RSV season, with bronchopulmonary dysplasia shortly after birth, defined by a need for oxygen therapy at birth and which persisted up to at least 28 days and up to a gestational age of at least 36 weeks, and this in the presence of antecedents for the disease, AND

























	Number identified	Applications at Sainte-Justine
Neonatology		
< 29 1	weeks 115	78
29 to 32 6/7 1	weeks 140	108
33 to 35 6/7 i	weeks 245	44
Other cases, 36 we		2
Diaphragmatic h	nernia 5	4
Cardiology		
1 <sup>st</sup> 5	eason 115	65
2 <sup>nd</sup> s	eason 76	35
3 <sup>rd</sup> season and si	blings 83	16
Bronchopulmonary dyspla	sia	
1 <sup>st</sup> s	eason 6	6
2 <sup>nd</sup> s	eason 16	16
Pneumology		
	Apnea 4	4
	ATOE 8	7
CAVD and	sleep 0	0
	CF 10	10
General pneum	ology 31	31
Tracheos	storny 1	1
Pediatrics		
USIP - PSIC - integ	rated 13	13
ped	atrics	
Other specialties		
	GMO 5	5
	ENT 1	1
Neur	ology 1	1
Dermat	ology 1	1
	873	4498

LA PRÉVENTION DU VRS AU QUÉBEC: Saison 2017 - 2018









Marc H. Lebel, MD Décembre 2017

Hospital char	'ts re	eviev	V				
	Hudson		Ungava		Nunavik		
<12-month-old infants hospitalized with respiratory diagnoses	2013-14 to 2015-16*	2016-17**	2013-14 to 2015-16*	2016-17**	2013-14 to 2015-16*	2016-17**	Overall
Admissions identified from MEDECHO <sup>1</sup>	209	20	121	16	330	36	366
Added during reviewing process <sup>2</sup>	22	1	9	10	31	11	42
Reviewed	231	21	130	26	361	47	408
Excluded <sup>3</sup>	68	1	23	1	91	2	93
Admissions included in the analysis	163	20	107	25	270	45	315
Matched with a laboratory test	136	20	90	22	226	42	268
RSV positive	43	5	23	5	66	10	76
RSV negative	93	15	67	17	160	32	192
Number of children with ≥1 admission	125	14	87	21	212	35	247
1 admission	78	10	71	18	149	28	177

November to October; "November to June "ICDIO respiratory to Rocdes JJO-20 "tertiary admissions; occurred after MEDECHO extraction; not detected by used Dx codes JJO-J22 "Occurred before November 1, 2013; age212 months; admitted for another reason (trauma, bacteremia, meningitis, epilepsy, febrile convulsions, apnea probably due to neuromuscular disorder, etc.), age212 months; chart not available; repeat admission within 14 days (excluded from the numerator, total number of hospital days included)

RSV infe				irces				
	regional admissions				tertiary admissions			
January to June of each season	0-2 months	3-5 months	6-11 months	overall	0-2 months	3-5 months	6-11 months	overall
2008-09	17	7	18	42				
2009-10	11	8	13	32				
2013-14	4	5	8	17	1		2	3
2014-15	9	7	10	26	2			2
2015-16	10	7	6	23	5*			5
2016-17**	4	2	4	10	0			0











