

Immunisation contre le VRS Saison 3

Robert COHEN

Une co-organisation

Prévention des infections précoces à VRS

Synagis® : Palivizumab Ac. monoclonal historique pour les nourrissons à haut risque

Beyfortus®

Nirsévimab
Anticorps monoclonal longue durée

Efficacy (IRB)
Effectiveness saison 1 (IRB)
Effectiveness saison 1 (autres)
Effectiveness saison 2
Questions au-delà de la saison 1&2

Abrysvo®

Vaccination maternelle / anticorps monoclonal

Efficacy
Effectiveness(saison 1
Stratégies variables selon les pays

Enflonsia®

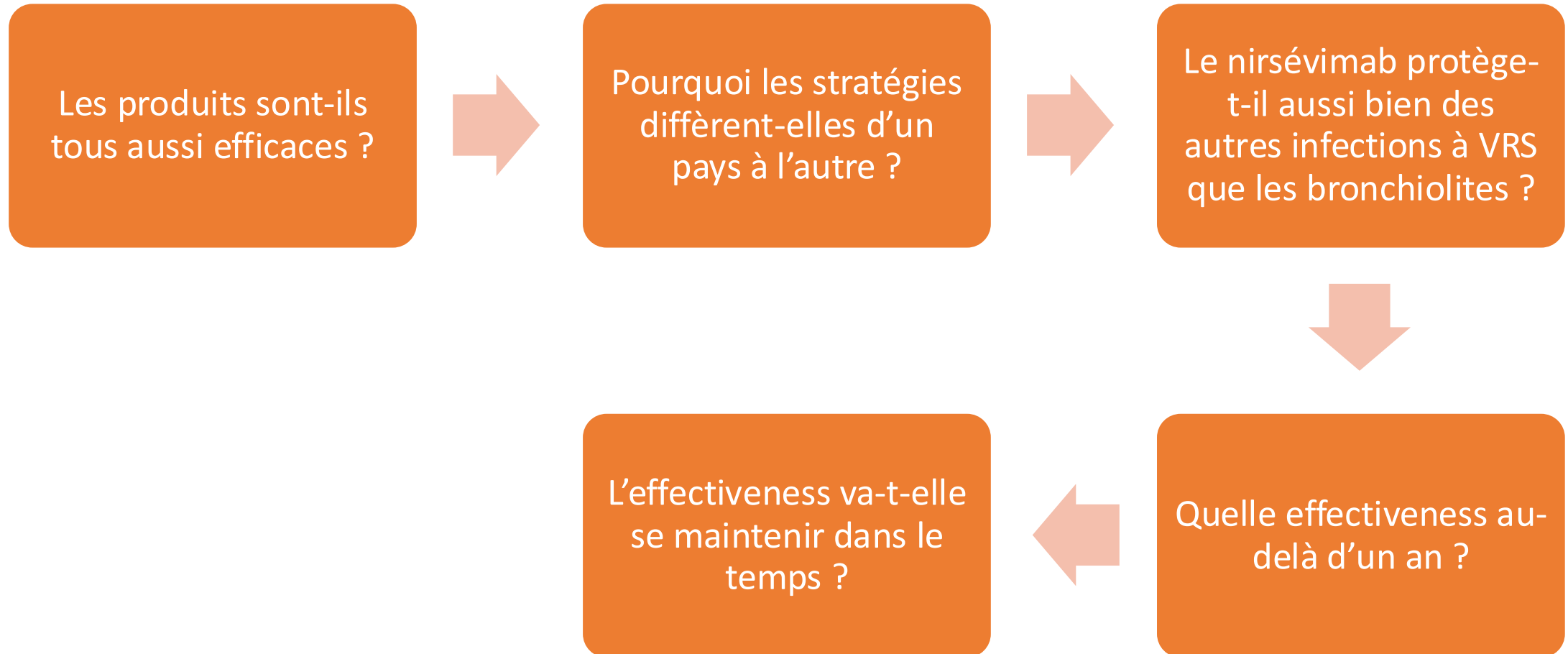
Clersovimab
Anticorps monoclonal longue durée

Efficacy (IRB)

Trois produits qui ont changé le paysage de la prévention du VRS

Questions

Diapo
R. Cohen



Les 3 produits sont-ils aussi efficaces ?

Diapo
R. Cohen

- On ne peut pas répondre directement à cette question
 - ✓ Pas d'études prospective comparative (efficacité)
 - ✓ En plus, cela pourrait changer dans le temps
- Mais ce qu'on sait c'est qu'avec le schéma vaccinal en France
 - 32-36 semaines
 - Campagne de vaccination 1^{er} sept → 1^{er} février
- Il n'y a aucun élément de preuve que l'Enflonsia® soit **plus ou moins efficace** que le Beyfortus®

Les données françaises disponibles, l'effectiveness observée du nirsévimab pour l'année 2024-2025 semble supérieure à celle de la vaccination maternelle dans les conditions actuelles d'utilisation.



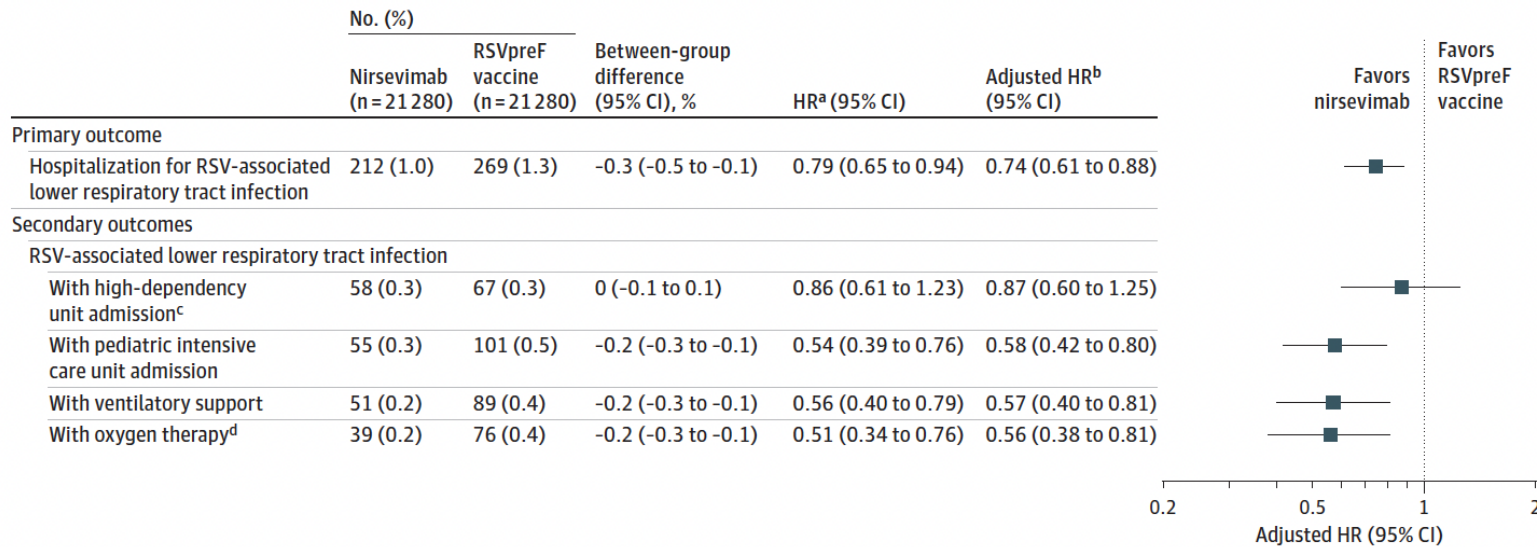
Nirsevimab vs RSVpreF Vaccine for Respiratory Syncytial Virus–Related Hospitalization in Newborns

Marie-Joelle Jabagi, PharmD, PhD; Marion Bertrand, MSc; Amélie Gabet, PhD; Epiphane Kolla, MD, PhD; Valérie Olié, PhD; Mahmoud Zureik, MD, PhD

Nirsevimab vs RSVpreF Vaccine for Respiratory Syncytial Virus–Related Hospitalization in Newborns

Original Investigation Research

Figure 2. Comparative Analysis for Primary Outcome of Hospitalization for Respiratory Syncytial Virus (RSV)–Associated Lower Respiratory Tract Infection and Secondary Outcomes Among Matched Infants



Effectiveness of nirsevimab immunisation after birth versus RSVpreF maternal vaccination in preventing RSV-related hospitalisations in infants: a population-based retrospective cohort study



Mai 2026



Zaba Valtuille*, Inès Fafi*, Florentia Kaguelidou, Corinne Levy, Robert Cohen, Laurent Mandelbrot, Marta Nunes, François Angoulvant, Etienne Bizot, Stéphane Bonacorsi, André Birgy, Delphine Viriot, Aurélie Bourmaud, Léa Lengart, Zein Assad, Manon Jaboyedoff, Jee-Seon Yang, Valérie Biran, Géraldine Poncet, Christèle Gras-Le Guen, Loïc De Pontual, Romain Basmaci*, Naim Ouldali*

Summary

Background Maternal respiratory syncytial virus (RSV) prefusion F (RSVpreF) vaccine and nirsevimab immunisation are two products recently implemented to reduce RSV-related lower respiratory tract infection (LRTI) in infants

Lancet Child Adolesc Health 2026

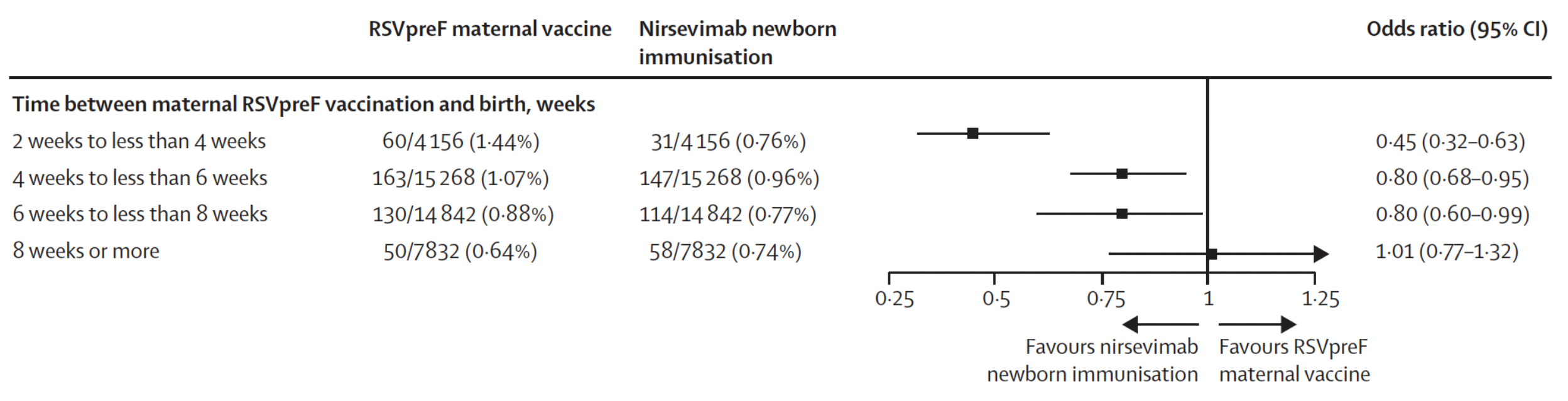


Figure 3: Effectiveness of RSVpreF maternal vaccine versus nirsevimab newborn immunisation against RSV-related LRTI hospitalisations, according to timing of vaccination

Effectiveness of nirsevimab immunisation after birth versus RSVpreF maternal vaccination in preventing RSV-related hospitalisations in infants: a population-based retrospective cohort study



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Summary

Background Maternal respiratory syncytial virus (RSV) prefusion F (RSVpreF) vaccine and nirsevimab are two products recently implemented to reduce RSV-related lower respiratory tract infections (LRTI) hospitalisations in infants.

Time between maternal RSVpreF vaccination and birth	RSVpreF maternal vaccine	Odds ratio (95% CI)
2 weeks to less than 4 weeks	60	0.45 (0.32–0.63)
4 weeks to less than 6 weeks	163	0.80 (0.68–0.95)
6 weeks to less than 8 weeks	130	0.80 (0.60–0.99)
8 weeks or more	50	1.01 (0.77–1.32)

Ce n'est pas une surprise les Anglais et les Australiens avaient déjà démontré une \neq d'efficacité en f° de la date d'administration pendant la grossesse → Ils commencent la vaccination dès 28 semaines !!

Figure 3: Effectiveness of RSVpreF maternal vaccine versus nirsevimab newborn immunisation against RSV-related LRTI hospitalisations, according to timing of vaccination



- La recommandation française reste prudente, notamment vis-à-vis du signal possible d'accouchement prématuré.
- Terme moyen d'accouchement : environ 39 SA.
- Pour les femmes ou couples qui privilégient la vaccination maternelle : viser une vaccination dès 32 SA, voire un peu plus tôt ...

Pourquoi les stratégies différent-elles selon les pays ?

- Les données d'efficacité ou d'effectiveness sont connues de tous, mais elles peuvent un peu varier dans l'espace et dans le temps...

« Il n'y a pas de pire aveugle que celui qui ne veut pas voir » — surtout celui qui ne veut pas budgéter.

- Ce qui change c'est la **façon d'administrer les produits**...notamment pour la vaccination
- Le prix réel des produits reste très variable et peu transparent.
- La **durée de la saison VRS (3 m à...12 mois)**
Chili, Argentine, Australie...des milliers de km
- Le **poids du médico-économique** (nous ...)
- Les **caractéristiques du système de santé**

Effectiveness sur les autres infections liées au VRS : OMA

Données de première année

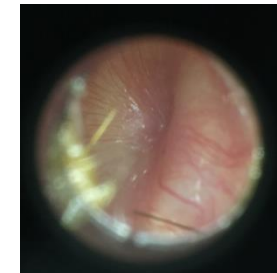
PARI — Fafi I., Clin Infect Dis, avril 2026

Chez les nourrissons < 12 mois, diminution significative du taux d'OMA pour 1 000 consultations après l'implémentation de l'immunisation VRS : -23,7 % (IC95 % -37,6 à -9,7 ; p = 0,0014).

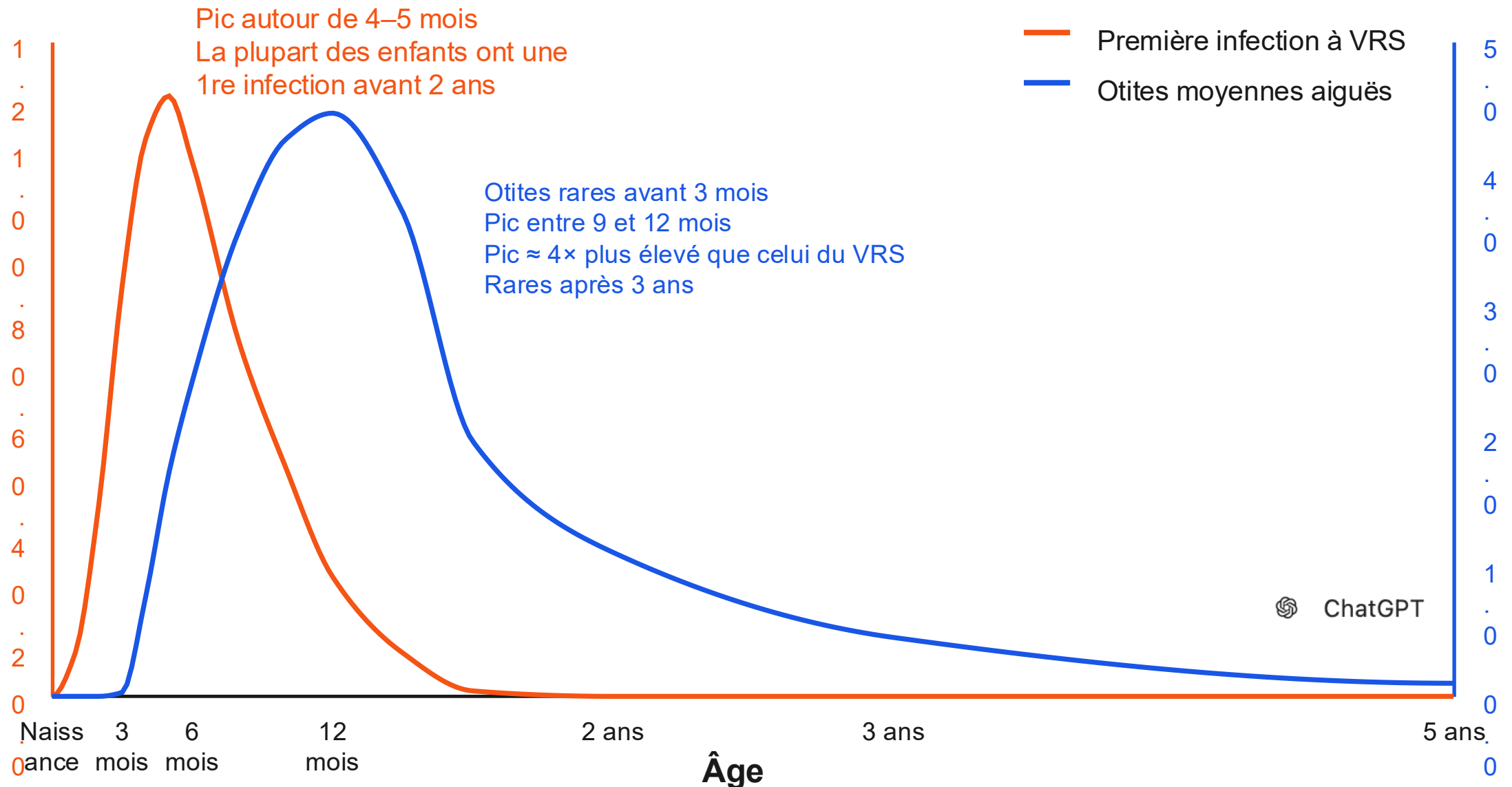
OURSIN — Lenggart L., J Pediatr, mars 2026

Effectiveness ajustée du nirsévimab estimée à 78,2 % (IC95 % 44,4–92,4) pour la prévention des OMA associées au VRS dans cet échantillon.

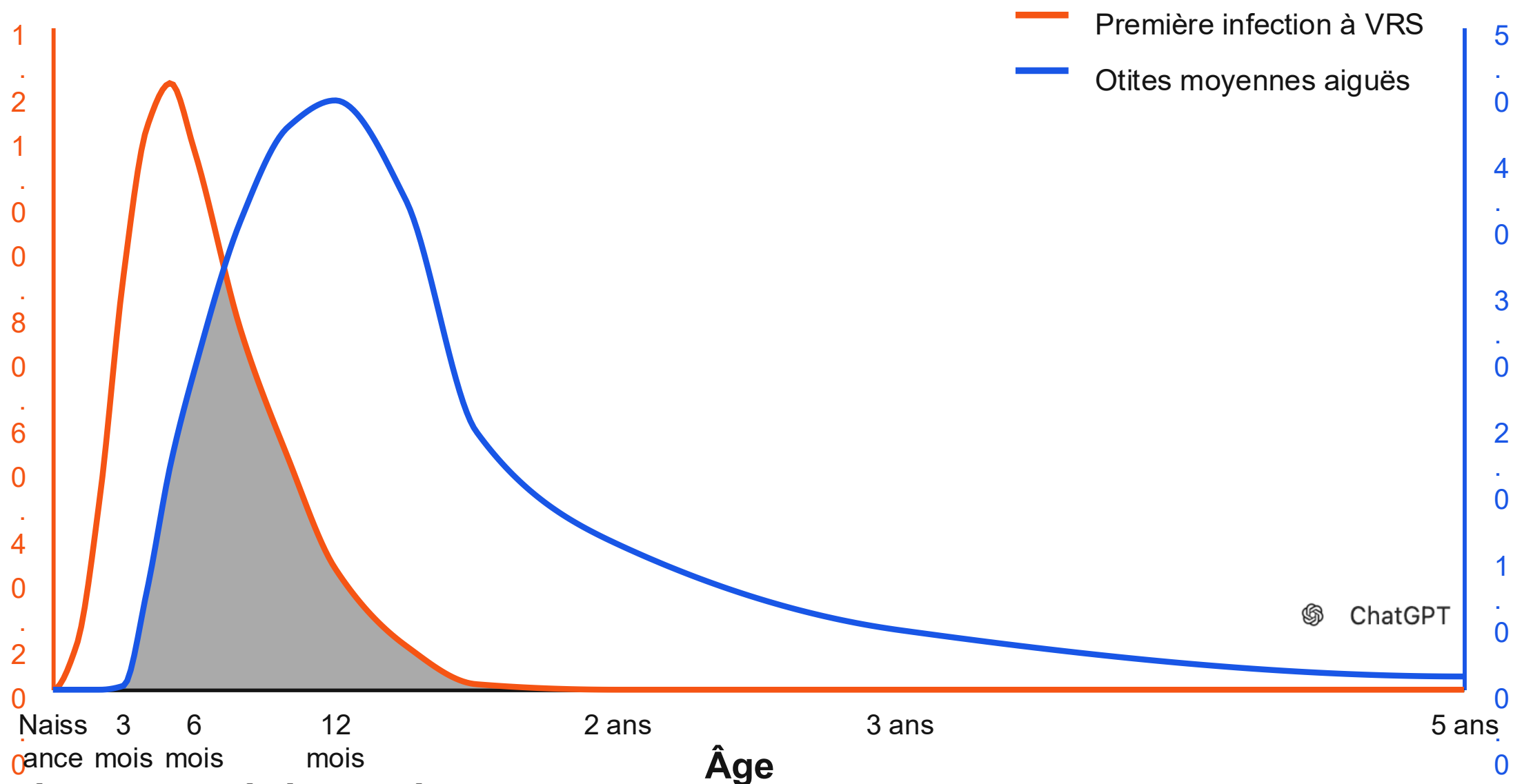
Message : le bénéfice pourrait dépasser la bronchiolite hospitalisée, notamment chez les nourrissons au pic d'incidence des OMA.



Fréquence selon l'âge : 1^{ère} infection à VRS et incidence des OMA



Âge de première infection à VRS et incidence des otites moyennes aiguës



Effet sur les autres infections liées au VRS : IIP

Infections invasives à pneumocoque



Étude nationale française

Effectiveness of nirsevimab immunisation on invasive pneumococcal disease in children: nationwide observational cohort study. Fafi I. et al., Lancet Infectious Diseases, juin 2026.

Figure 2. Effectiveness of nirsevimab against hospitalisation for IPD.

	Immunised with nirsevimab* <i>no. of IPD cases in each group/total no. (no. of IPD cases in each group/100,000)</i>	Non-immunised with nirsevimab* <i>no. of IPD cases in each group/total no. (no. of IPD cases in each group/100,000)</i>	
Primary analysis***	17/119,435 (14.2/100,000)	95/408,536 (23.3/100,000)	
Sensitivity analyses			
Matching immunised / non-immunised children (1:2) †	12/76,846 (15.6/100,000)	42/153,692 (27.3/100,000)	
Double-robust adjustment ‡	17/119,435 (14.2/100,000)	95/408,536 (23.3/100,000)	
Random intercept for region §	17/119,435 (14.2/100,000)	95/408,536 (25.0/100,000)	
Removing IPD cases defined by code B953 + meningitis, bacteremia, pneumonia, osteoarticular infection or mastoiditis ¶	17/119,435 (14.2/100,000)	81/408,536 (19.8/100,000)	
Average effect in the treated population ††	17/119,435 (14.2/100,000)	95/408,536 (23.3/100,000)	
Propensity score matching ‡‡	17/119,434 (14.2/100,000)	53/211,811 (25.0/100,000)	
Overlap-weighting §§	17/119,435 (14.2/100,000)	95/408,536 (23.3/100,000)	
Trimming ¶¶	16/113,463 (14.1/100,000)	91/388,103 (23.4/100,000)	

Fréquence selon l'âge : première infection à VRS et infections invasives à pneumocoque

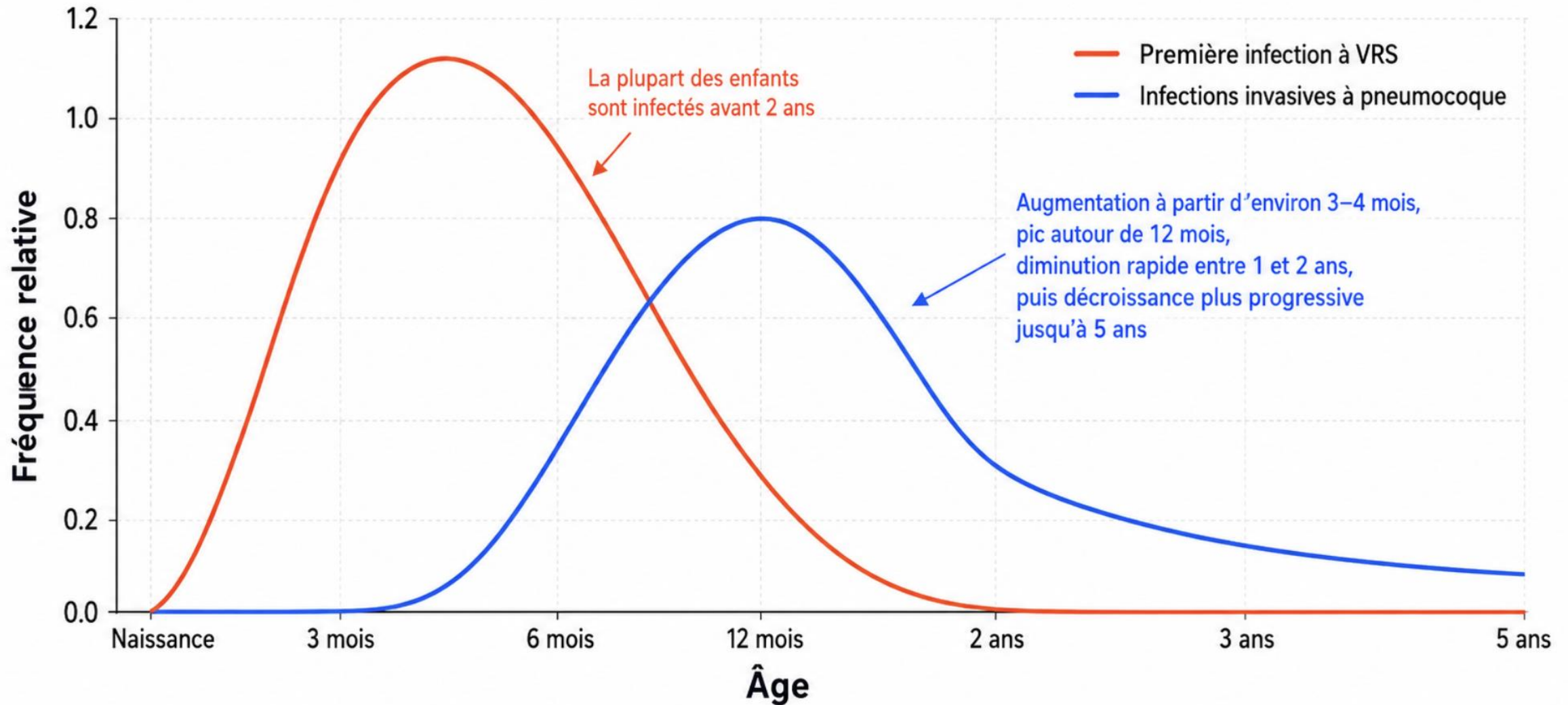
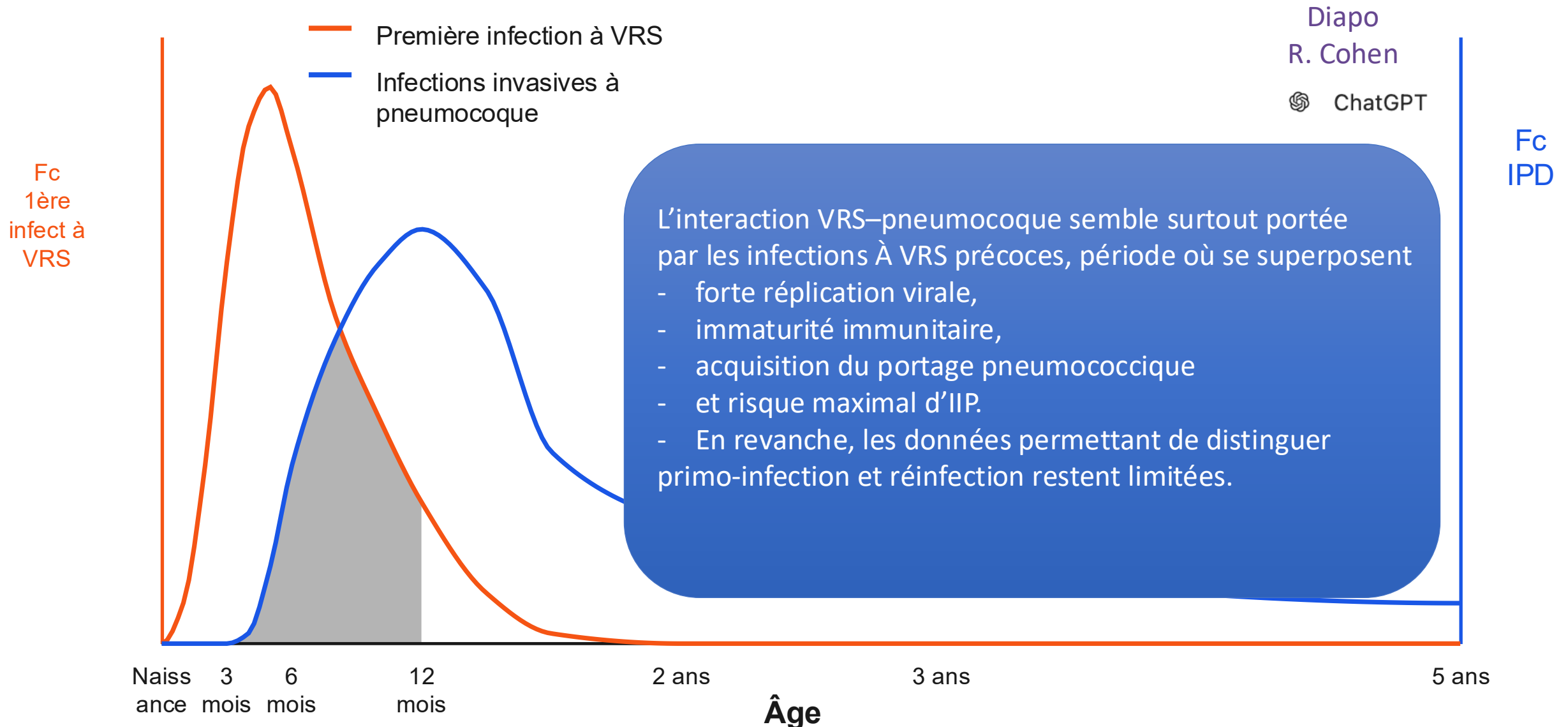


Schéma illustratif des distributions d'âge, à visée pédagogique.

Fréquence selon l'âge : première infection à VRS et infections invasives à pneumocoque



Effectiveness > 1 an Nirse-gal (année 2)



Effectiveness > 1 an Nirse-gal Hôpital (année 2)

Internal



Results

Table 1: Estimations of RR and NNI for different first primary healthcare endpoints, by different timeframes and groups

	Infants' first RSV season - 2023-24 (October 2, 2023 - April 14, 2024)					Second RSV season - 2024-25 (September 30, 2024 - April 13, 2025)				
	Observed	Expected	Averted	NNI	RR (95% CI)	Observed	Expected	Averted	NNI	RR (95% CI)
Acute bronchitis/bronchiolitis										
Seasonal	432	631	199	32	-31.4 (-42.3, -18.4)	1,254	1,058	-196	-31	18.6 (3.2, 36.2)
Catch-up	1,352	1,917	565	12	-29.4 (-42.1, 14)	717	491	-226	-27	46.3 (30.0, 64.6)
Combined	1,784	2,577	793	16	-30.8 (-41.9, -17.5)	1,971	1,535	-436	-28	28.5 (14.4, 44.3)
Wheezing/asthma										
Seasonal	616	838	222	28	-26.5 (-36.5, -14.9)	1,447	1,198	-249	-24	20.7 (7.4, 35.7)
Catch-up	1,651	2,262	611	11	-27.1 (-39.6, -11.9)	845	593	-252	-24	42.5 (27.4, 59.4)



Relative change in first RSV season (n = 12,492 infants):

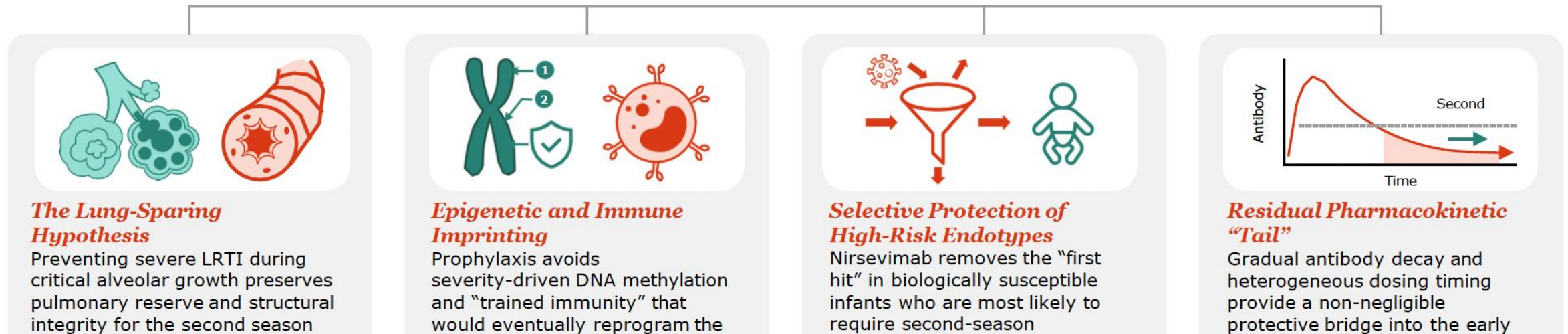
- Primary care for LRTI: **-33.4%**
- Acute bronchitis/bronchiolitis: **-30.8%**
- Wheezing/asthma: **-27.7%**

Effectiveness > 1 an Nirse-gal Hôpital (année 2)

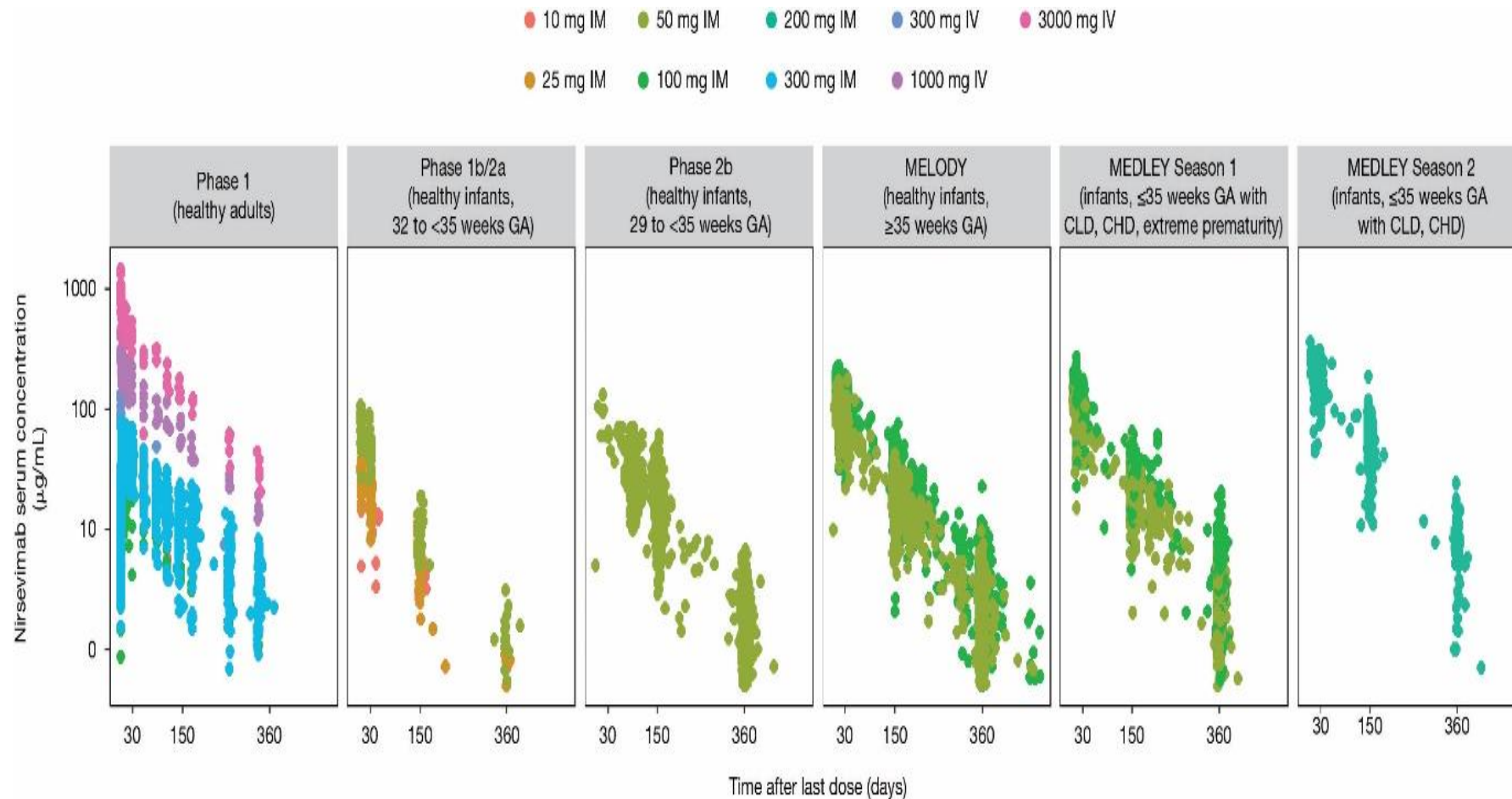


Potential Mechanisms of Nirsevimab Second-Season Benefit

Preventing severe RSV disease in the first season reshapes the child's long-term respiratory health trajectory.



Variations inter-individuelles de pharmacocinétique Nirsevimab Serum Concentration Versus Time, by Trial and Season^a



Effectiveness > 1 an Nirse-gal Ambulatoire (année 2)

Internal



Results

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Relative change in first RSV season (n = 12,492 infants):

- Primary care for LRTI: **-33.4%**
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- Wheezing/asthma: **-27.7%**

RSV IN ACUTE OTITIS MEDIA LINKS WITH PNEUMOCOCCAL CARRIAGE AND RSV IMMUNIZATION STRATEGIES
 Robert Cohen, Emmanuel Harel, Nuri Oduguz, Stephanie Bouché, Adeline Gault-Jarvis, Jean-François Duvallet, Pascal Brays, Corine Levy

Background
 The link between pneumococcal OIT and RSV is based on established pathophysiological mechanisms and studies reporting a strong temporal association between the two infections. Since SP and RSV are respiratory viruses in acute otitis media (AOM), the aim of this study is to describe their association.

Methods
 Study: September 2025, to May 2026. We performed a cross-sectional study of 666 NP bacterial samples collected from children with AOM (median age 14.9 months) and tested for RSV and SP. SP carriage was determined by PCR. RSV carriage was determined by RT-PCR. The effectiveness of pneumococcal conjugate vaccine (PCV13) was assessed in children aged 12-24 months who received pneumococcal conjugate vaccine (PCV13) in 2024-2025.

Results
 • 666 NP bacteriological samples were collected from children with AOM (median age 14.9 months).
 • Among them, 503 (75.5%) underwent viral testing of whom 307 (61%) carried SP.
 • SP carriage: 69.8% of RSV+ cases (60/86) and 59.2% of RSV- cases (245/414) (p = 0.067).
 • Among children aged 12-24 months, SP carriage was significantly more frequent in RSV+ than RSV- cases (39/49, 79.6% vs. 112/204, 54.9%) (p = 0.002).
 • The distribution of serotypes showed some differences according to the RSV status:
 • 138 (21.7%) for children RSV+ and 42% for children RSV- (p=0.06).
 • 138 (21.7%) for children RSV+ and 5% for children RSV- (p=0.05).
 • 96 (14.7%) for children RSV+ and 0.8% for children RSV- (p=0.05).
 • 96 (14.7%) for children RSV+ and 0.8% for children RSV- (p=0.05).
 • The effectiveness of pneumococcal conjugate vaccine (PCV13) was assessed in children aged 12-24 months who received pneumococcal conjugate vaccine (PCV13) in 2024-2025:
 • 74.5% (24/32) for children who received pneumococcal conjugate vaccine (PCV13) in 2024-2025.
 • 26.2% (11/42) for children aged 12-24 months who received pneumococcal conjugate vaccine (PCV13) in 2024-2025.

Conclusions
 These data suggest an association between RSV infection and pneumococcal carriage in children with AOM. The impact of pneumococcal conjugate vaccine (PCV13) on RSV carriage is limited to the first year following immunization, whereas in older children a potentially negative effect may occur.

Acknowledgments
 • Participating clinicians of ACTV and AFPA
 • The National Reference Center for Pneumococci

Effectiveness > 1 an

Etude Flore nasopharyngée : OMA, VRS/pneumo



- 666 NP bacteriological samples were collected from children with AOM (median age 14.9 months).
- Among them, 503 (75.5%) underwent viral testing of whom 307 (61%) carried SP.
- SP carriage: 69.8% of RSV+ cases (60/86) and 59.2% of RSV- cases (245/414) (p = 0.067).
- Among children aged 12–24 months, SP carriage was significantly more frequent in RSV+ than RSV- cases (39/49, 79.6% vs. 112/204, 54.9%; p = 0.002).

	6-11 months N=243 (36.5)	12-24 months N=326 (49)	25-36 months N=97 (14.6)
Viral testing	170 (70)	255 (78.2)	78 (80.4)
SP carriage	111 (65.3)	152 (59.6)	44 (56.4)
Influenza-positive	8 (4.7)	16 (6.3)	7 (9)
RSV-positive	23 (13.5)	49 (19.2)	14 (18)

RSV IN ACUTE OTITIS MEDIA LINKS WITH PNEUMOCOCCAL CARRIAGE AND RSV IMMUNIZATION STRATEGIES
Robert Cohen, Emmanuel Hertz, Naima Ouldali, Stéphanie Bouché, Catherine Gaultier, David Etienne, Emmanuelle Pons, Corinne Levy

ACTV, AFPA, National Reference Center for pneumococci, CHU Sainte-Justine, Robert Debré Hospital, Paris, France

Background
The link between pneumococcal OIT and RSV is based on established pathophysiological mechanisms and studies reporting a strong temporal association between the two infections. Since SP and RSV are widespread viruses in acute otitis media (AOM), one aim of this study is to describe their association.

Results
• 566 NP bacteriological samples were collected from children with AOM (median age 14 months).
• Among them, 553 (75.5%) underwent viral testing of whom 307 (55%) carried SP.
• SP carriage: 88.8% of RSV+ cases (95/86) and 59.2% of RSV- cases (242/414) ($p < 0.005$).
• Among children aged 12-24 months, SP carriage was significantly more frequent in RSV+ than RSV- cases (95/86, 79.7% vs. 122/206, 59.2%) ($p < 0.005$).
• The distribution of serotypes showed some differences according the RSV status:
• 11A: 21.7% for children RSV+ and 12% for children RSV- ($p=0.06$),
• 23A: 1.7% for children RSV+ and 9% for children RSV- ($p=0.05$),
• 35B: 0% for children RSV+ and 6.9% for children RSV- ($p=0.03$),
• 9N: 0.8% for children RSV+ and 5% for children RSV- ($p=0.05$).
• The effectiveness of nirsevimab on acute otitis media was:
• 74.1% [28.9 ; 90.6] for children who received nirsevimab in 2025-2026
• -26.3% [-71.9; 7.2] for children aged 12-24 months who received nirsevimab in 2024-2025
• -63.0% [-100; -8.5] for children aged 25-36 months who received nirsevimab in 2024-2025

Conclusions
These data suggest an association between RSV infection and pneumococcal carriage in children with AOM. The impact of nirsevimab on AOM RSV-associated cases is limited in the first year following immunization, whereas in older children a potentially negative effect was observed.

Table 1: Serotype distribution

	0-12 months	12-24 months	25-36 months
SP carriage	370 (79)	255 (78.2)	78 (80.4)
SP carriage positive	112 (89.3)	121 (89.6)	44 (84.6)
SP carriage negative	8 (6.7)	14 (10.4)	3 (6)
SP carriage	12 (12.5)	45 (52.3)	14 (18)

Table 2: Serotype distribution by RSV status

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 3: Effectiveness of nirsevimab

	2025-2026	2024-2025
SP carriage	121 (74.1)	137 (63.0)
SP carriage positive	44 (28.9)	137 (63.0)
SP carriage negative	77 (49.6)	137 (63.0)

Table 4: Serotype distribution by RSV status and nirsevimab

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
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SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 5: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
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Table 6: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
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Table 7: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
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SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 8: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
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SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 9: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
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SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 10: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 11: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 12: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 13: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 14: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 15: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 16: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 17: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 18: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 19: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 20: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-
SP carriage positive	14 (28.6)	134 (8)	-
SP carriage negative	7 (14.3)	134 (8)	-
SP carriage	20 (20)	47 (23.1)	50 (74.6)
SP carriage positive	8 (40)	47 (23.1)	50 (74.6)
SP carriage negative	12 (60)	47 (23.1)	50 (74.6)

Table 21: Serotype distribution by RSV status and nirsevimab (continued)

	0-12 months	12-24 months	25-36 months
SP carriage	192 (89.6)	122 (59.1)	137 (71.4)
SP carriage positive	64 (82.9)	41 (52.8)	2 (8.7)
SP carriage negative	12 (17.1)	81 (87.2)	135 (81.3)
SP carriage	21 (21.7)	134 (8)	-

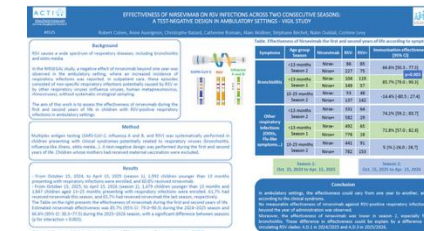
Effectiveness > 1 an

VIGIL : VRS toutes pathologies ambulatoires



Table. Effectiveness of Nirsevimab the first and second years of life according to symptoms

Symptoms	Age group Season	Nirsevimab	RSV-	RSV+	Immunisation effectiveness [95% CI]
Bronchiolites	<13 months Season 1	Nirse-	104	119	85.7% [79.0 ; 90.3]
		Nirse+	349	57	
	13-25 months Season 2	Nirse-	53	48	-14.4% [-80.5 ; 27.4]
		Nirse+	137	142	
Autres infections à VRS	<13 months Season 1	Nirse-	492	65	72.8% [57.0 ; 82.8]
		Nirse+	778	28	
	13-25 months Season 2	Nirse-	441	91	5.2% [-26.0 ; 28.7]
		Nirse+	782	153	



EFFECTIVENESS OF NIRSEVIMAB ON RSV INFECTIONS ACROSS TWO CONSECUTIVE SEASONS:
A TEST-NEGATIVE DESIGN IN AMBULATORY SETTINGS - VIGIL STUDY

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Effectiveness > 1 an

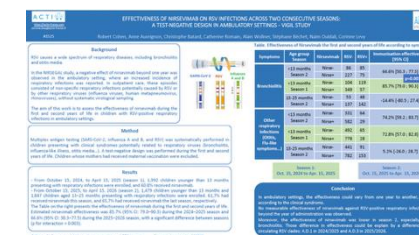
VIGIL : VRS toutes pathologies ambulatoires



Table. Effectiveness of Nirsevimab (1^{ère} année) 2024-25 vs 2025-26

Symptoms	Age group Season	Nirsevimab	RSV-	RSV+	Immunisation effectiveness [95% CI]
Bronchiolitis	<13 months Season 2	Nirse-	86	85	66.6% [50.3 ; 77.5]
		Nirse+	227	75	
	<13 months Season 1	Nirse-	104	119	85.7% [79.0 ; 90.3]
		Nirse+	349	57	
Other respiratory infections (Otitis, Flu-like symptoms...)	<13 months Season 2	Nirse-	331	64	74.2% [59.2 ; 83.7]
		Nirse+	582	29	
	<13 months Season 1	Nirse-	492	65	72.8% [57.0 ; 82.8]
		Nirse+	778	28	

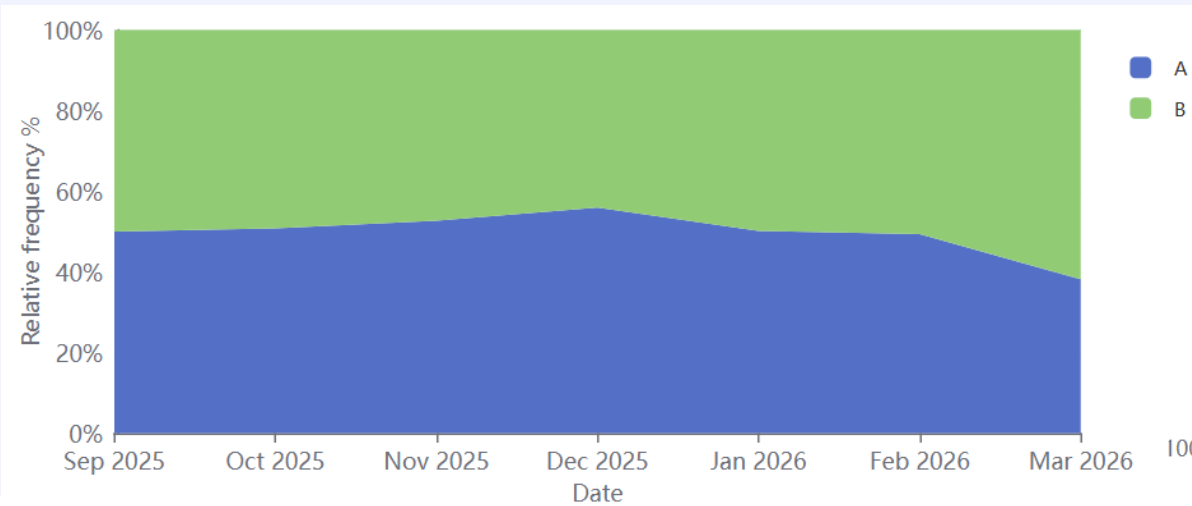
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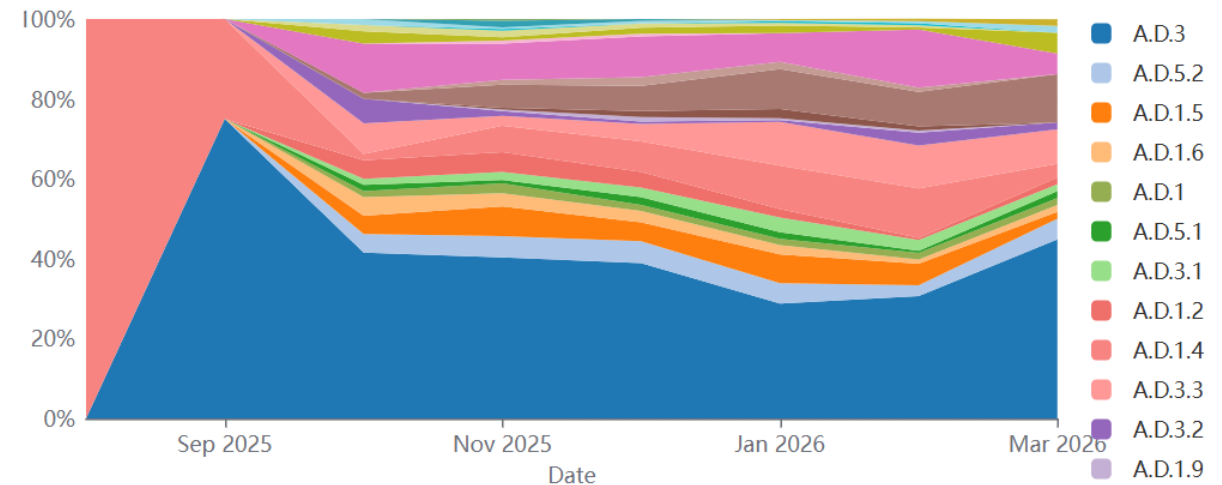
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Circulation des clades de VRS (CNR)



Risque d'échec d'immunisation avec clade A.D.3 > aux autres ?



Take-home messages

- Nous disposons désormais de 3 produits et 2 stratégies efficaces contre les infections précoces à VRS.
- L'objectif prioritaire reste la prévention des bronchiolites hospitalisées, en particulier en réanimation, pendant les premiers mois de vie.
- Un bénéfice sur les bronchiolites ambulatoires et d'autres infections liées au VRS est plausible, doit être confirmée dans le temps.
- Pour la vaccination maternelle, l'enjeu est de vacciner tôt dans la fenêtre recommandée : idéalement 32–33 SA (un peu plus tôt ?
- La surveillance doit rester continue : épidémiologie, virologie, effectiveness, échecs d'immunisation et impact sur les infections bactériennes.