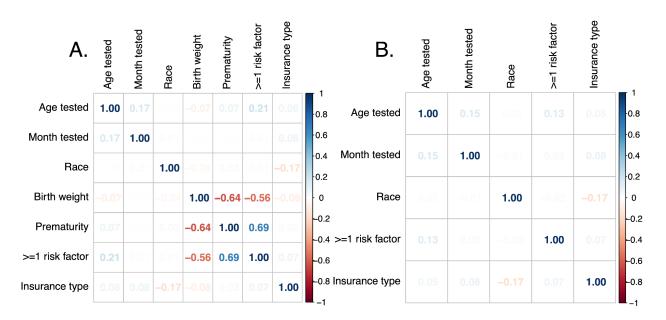
# Real-World Effectiveness of Nirsevimab Against Respiratory Syncytial Virus: A Test-Negative Case-Control Study

# **Supplementary Materials**

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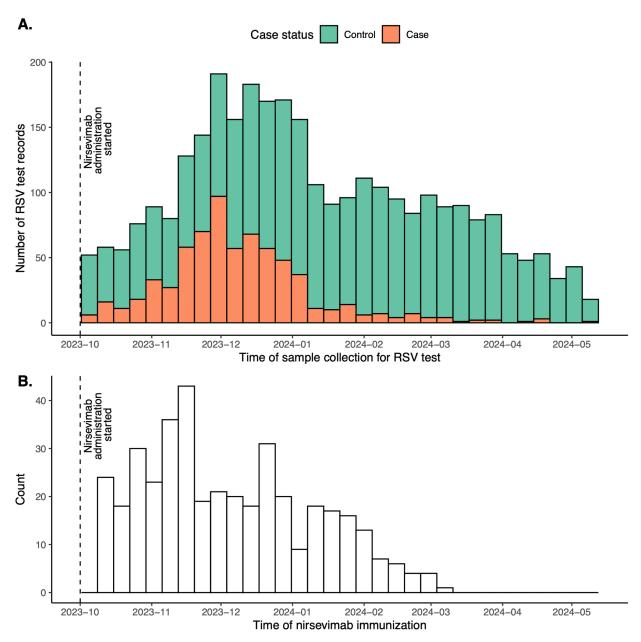
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### SECTION 1. SUPPLEMENTAL FIGURES REFERENCED IN THE MAIN MANUSCRIPT

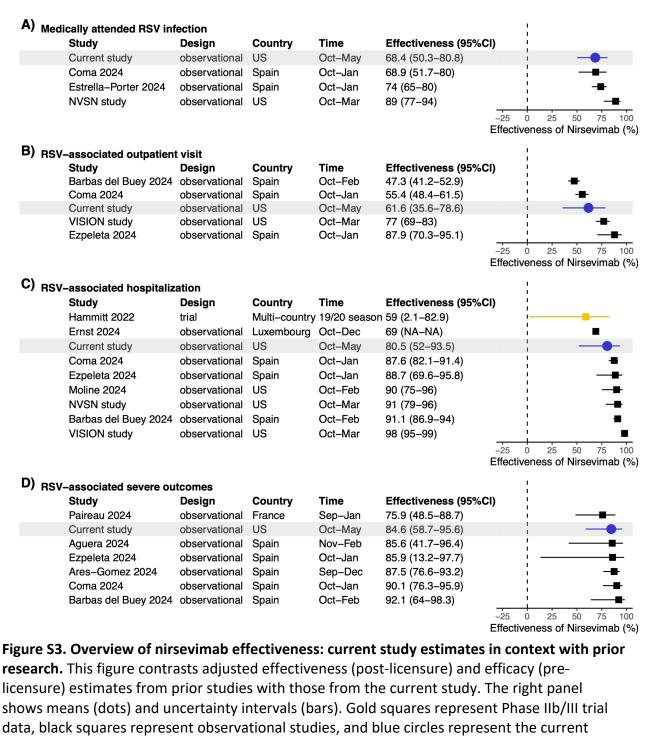
Figure S1. Correlation between potential confounders in the test-negative case-control analysis. Multivariate logistic regression was used to estimate nirsevimab effectiveness against various clinical outcomes. Potential confounders were selected using backward selection from variables in the initial model (panel A), including age at testing (<3, 3-5, 6-8, 9-11, ≥12 months), calendar month of testing, race/ethnicity, birth weight, prematurity (gestational age <37 weeks), presence of at least one risk factor (see Table S1), and insurance type (private, public, uninsured). The numbers show the correlation coefficients between any of the two variables, and a value larger than 0.5 was defined as a moderate or strong correlation. Due to collinearity between low birth weight and prematurity, and high rates of missing data (~25%), only the "at least one risk factor" variable was retained (panel B).

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**Figure S2. RSV tests and nirsevimab doses during the study period.** Panel A shows the number of RSV tests, with orange bars for RSV-positive cases and green bars for RSV-negative controls. Panel B displays the number of nirsevimab doses administered. The vertical dashed line marks the start of nirsevimab administration in Connecticut (October 1, 2023).

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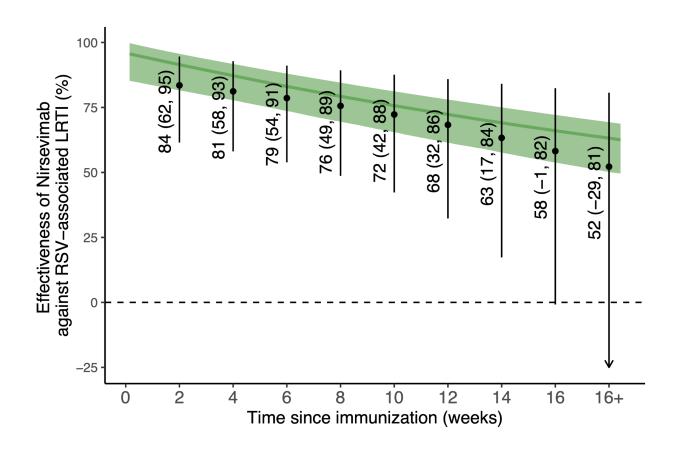
study (highlighted in gray). Ernst et al. 2024[1] did not report uncertainty intervals.

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Outcome prevented	RSV positive	RSV negative	Unadjusted Effectiveness (95%CI)	Adjusted Effectiveness (95%CI)	
Medically attended RSV infection			Effectiveness (95%CI)	Enectiveness (95%CI)	1
Not immunized	659	2101	REF	REF	
Immunized (50mg)	15	220	78.3 (64.3–87.7)	66 (42.1–81.4)	
Immunized (100mg)	6	89	78.5 (54.7–91.7)	72.7 (40.6-89.6)	· · · · · · · · · · · · · · · · · · ·
Immunized (any dosage)	21	309	78.3 (66.8–86.6)	68.4 (50.3-80.8)	<b>_</b> _
RSV-associated outpatient visit					
Not immunized	498	1760	REF	REF	
Immunized (50mg)	11	161	75.9 (57.2–87.7)	58.1 (21.5–79.5)	<b>_</b>
Immunized (100mg)	5	70	74.8 (43.1–91.2)	67.1 (22.9-88.8)	<b>_</b>
Immunized (any dosage)	16	231	75.5 (60.3–86)	61.6 (35.6–78.6)	·
RSV-associated hospitalization					
Not immunized	161	307	REF	REF	
Immunized (50mg)	4	51	85 (62.6–95.5)	77.8 (39.6–93.7)	
Immunized (100mg)	1	19	90 (51–99.4)	87.9 (34.3–99.4)	<b>_</b>
Immunized (any dosage)	5	70	86.4 (68.7–95.3)	80.5 (52–93.5)	· · · · · · · · · · · · · · · · · · ·
RSV-associated severe outcomes					
Not immunized	141	212	REF	REF	
Immunized (50mg)	3	60	92.5 (79.2–98.2)	84.7 (52.9–96.5)	<b>_</b>
Immunized (100mg)	1	18	91.6 (58.9–99.5)	85.8 (17.9–99.3)	<b>_</b>
Immunized (any dosage)	4	78	92.3 (80.9-97.7)	84.6 (58.7–95.6)	<b>_</b>
					0 25 50 75 100 Effectiveness of Nirsevimab (%)

**Figure S4. Effectiveness of nirsevimab against RSV infections by dose, clinical setting, and disease severity.** Square dots indicate mean effectiveness estimates, with horizontal lines representing 95% confidence intervals. All models adjusted for age and calendar month. Models for RSV-associated hospitalization and severe disease also accounted for the presence of underlying risk factors.

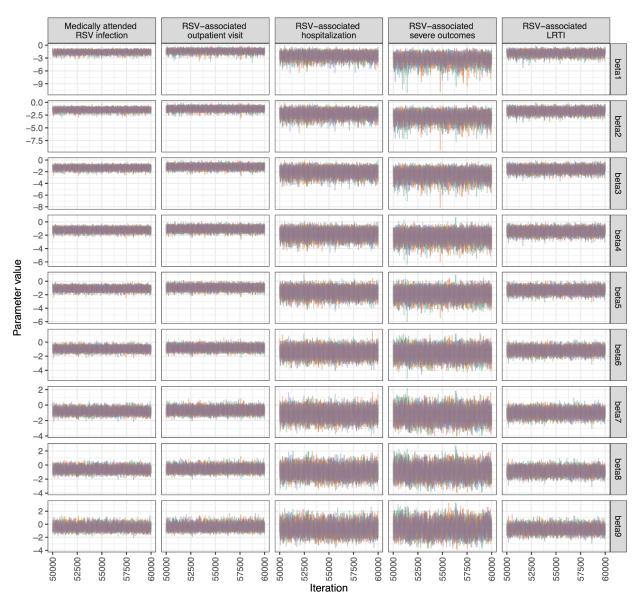
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**immunization.** The green curve and shaded area represent the median and 95% credible interval of the estimated efficacy of nirsevimab reported by Hodgson et al. [2], where efficacy over time was estimated using data from Phase IIb and Phase III trials in a survival model. The black dots denote the median estimates of nirsevimab's effectiveness in preventing RSV-associated LRTI from our current study, using the same endpoint as in Hodgson et al. for comparison [2]. The error bars show the 95% credible intervals for the estimates, and the labels provide the exact values.





Chain — 1 — 2 3

**Figure S6. Trace plots for the coefficients of waning effectiveness.** Trace plots for  $\beta_n$ (effectiveness coefficient for each biweek interval after nirsevimab immunization, n = 1, 2, 3, ...9) are displayed by the examined outcome. All parameters demonstrate good convergence. Iterations of the burn-in period (iterations 0-50,000) are excluded, and only the sampled iterations (50,000–60,000) are presented.

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## SECTION 2. SUPPLEMENTAL TABLES REFERENCED IN THE MAIN MANUSCRIPT

Acute respiratory illness (ARI)	Risk factors for severe RSV	Medically attended upper	Medically attended lower
[1]	diseases	respiratory infections (URTI)	respiratory infections (LRTI)
Acute onset (<10 days) illness that presents with at least two of the following: fever (measured or subjective), chills, rigors, myalgia, headache, sore throat, nausea or vomiting, diarrhea, fatigue, congestion, or one of the following: cough, shortness of breath, difficulty breathing, olfactory disorder, taste disorder, confusion, persistent chest pain, pale, gray, hypoxia, clinical or radiographic evidence of pneumonia or respiratory distress syndrome.	<ul> <li>Prematurity (gestational age less than 37 weeks)</li> <li>Anemia</li> <li>Immunodeficiency</li> <li>Cardiac abnormalities</li> <li>Pulmonary diseases</li> <li>Down syndrome</li> <li>Low birth weight (&lt; 2,500 grams)</li> </ul>	<ul> <li>Difficulty breathing</li> <li>Cough</li> <li>Croup</li> <li>Pain in throat / sore throat</li> <li>Nasal congestion</li> <li>Acute obstructive laryngitis</li> <li>Laryngeal stridor</li> <li>Pharyngitis</li> <li>Nasopharyngitis</li> <li>Otitis media</li> <li>Reactive airway diseases</li> <li>Upper respiratory tract infections recorded problem list with or without specifying pathogen</li> </ul>	<ul> <li>Wheezing</li> <li>Bronchiolitis</li> <li>Bronchospasm</li> <li>Laryngotracheobronchiti s</li> <li>Acute chest syndrome</li> <li>Pneumonia</li> <li>Hypoxia</li> <li>Hypoxemia</li> <li>Lower respiratory tract infections recorded in the problem list with or without specifying pathogen</li> </ul>

#### Table S1. Definition of key clinical outcomes and risk factors

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**Table S2. Variable selection for the multivariable logistic regression models.** The first row for each outcome presents the full model with all potential confounders. In each subsequent row, one variable is removed per step, with the final row showing the confounders included in the final model. Immunization status was included a priori in all models, and the final model was selected based on the lowest Akaike information criterion (AIC) score.

Outcome	Confounders	AIC
	age_tested + month_tested + race_ethnicity + atleastone_risk_factor + insurance_type	2,853.0
Madically attanded DCV	- race_ethnicity	2,849.0
Medically attended RSV infection	- insurance_type	2,846.8
Intection	- atleastone_risk_factor	2,845.1
	(Final model: age_tested + month_tested)	2,845.1
	age_tested + month_tested + race_ethnicity + atleastone_risk_factor + insurance_type	2,242.0
RSV-associated	- race_ethnicity	2,238.1
outpatient visit	- insurance_type	2,236.3
	- atleastone_risk_factor	2 225 6
	(Final model: age_tested + month_tested)	2,235.6
	age_tested + month_tested + race_ethnicity + atleastone_risk_factor + insurance_type	555.2
RSV-associated	- race_ethnicity	552.1
hospitalization	- insurance_type	550.4
	(Final model: age_tested + month_tested + atleastone_risk_factor)	550.4
	age_tested + month_tested + race_ethnicity + atleastone_risk_factor + insurance_type	425.4
RSV-associated severe	- race_ethnicity	419.5
outcomes	- insurance_type (Final model: age_tested + month_tested + atleastone_risk_factor)	419.0
	age_tested + month_tested + race_ethnicity + atleastone_risk_factor + insurance_type	836.7
	- race_ethnicity	830.7
RSV-associated LRTI	- insurance type	
	(Final model: age tested + month tested + atleastone risk factor)	829.4
RSV-associated LRTI	age_tested + month_tested + race_ethnicity + atleastone_risk_factor + insurance_type	297.7
	- race_ethnicity	293.9
hospitalization	- insurance_type	293.0
	(Final model: age_tested + month_tested + atleastone_risk_factor)	255.0

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Characteristic	<b>Overall</b> , N = 3,090 <sup>1</sup>	<b>Immunized</b> , N = 330 <sup>1</sup>	Unimmunized, N = 2,760 <sup>1</sup>	Standardized Mean Difference <sup>1</sup>
Sex				0.03
Female	1,317 (42.6%)	138 (41.8%)	1,179 (42.7%)	
Male	1,772 (57.3%)	192 (58.2%)	1,580 (57.2%)	
(Missing)	1 (0.0%)	0 (0.0%)	1 (0.0%)	
Age at testing (months)				-0.84
Median (IQR)	6.7 (3.6, 9.7)	3.4 (1.8, 6.0)	7.1 (4.1, 10.0)	
Race and ethnicity				0.32
Hispanic	1,328 (43.0%)	138 (41.8%)	1,190 (43.1%)	
White non-Hispanic	820 (26.5%)	68 (20.6%)	752 (27.2%)	
Black non-Hispanic	533 (17.2%)	86 (26.1%)	447 (16.2%)	
Other non-Hispanic <sup>2</sup>	161 (5.2%)	24 (7.3%)	137 (5.0%)	
Unknown	248 (8.0%)	14 (4.2%)	234 (8.5%)	
Birth weight				-0.3
Median (IQR)	3,214.3 (2,824.9, 3,563.8)	3,099.6 (2,575.6, 3,483.7)	3,234.4 (2,875.0, 3,573.7)	
(Missing)	783 (25.3%)	26 (7.9%)	757 (27.4%)	
Gestational age < 37 weeks	418 (13.5%)	90 (27.3%)	328 (11.9%)	0.63
(Missing)	757 (24.5%)	22 (6.7%)	735 (26.6%)	
Pulmonary diseases	156 (5.0%)	19 (5.8%)	137 (5.0%)	0.04
Cardiac diseases	152 (4.9%)	33 (10.0%)	119 (4.3%)	0.22
Anemia	94 (3.0%)	11 (3.3%)	83 (3.0%)	0.02
Having at least one risk factor <sup>3</sup>	750 (24.3%)	123 (37.3%)	627 (22.7%)	0.32
Insurance type				0.24
Private	983 (31.8%)	78 (23.6%)	905 (32.8%)	
Public	2,088 (67.6%)	252 (76.4%)	1,836 (66.5%)	
Uninsured	19 (0.6%)	0 (0.0%)	19 (0.7%)	

#### Table S3. Comparison of immunized and unimmunized patients.

Data are presented as median (IQR) for continuous measures and n/total (%) for categorical measures.

<sup>1</sup>Standardized mean difference: the difference in means between case and control participants in units of the pooled SD. Covariates with an absolute standardized mean difference greater than 0.2 were considered to have important imbalances.

<sup>2</sup>Inclusing Asian, Pacific Islander, Middle Eastern or Northern American, American Indian, or Native American by self-reporting.

<sup>3</sup>Have at least one of the following conditions recorded in the infant's medical history or diagnosis records: 1) Anemia; 2) Immunodeficiency (e.g. transplantation history, leukemia, etc.); 3) Cardiac diseases (including congenital heart diseases diagnosed at birth or any reporting of heart conditions); 4) Pulmonary diseases; 5) Down syndrome; 6) Small for gestational age (birth weight < 2,500 grams); 7) Prematurity (gestational age less than 37 weeks).

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## Table S4. Clinical characteristics of RSV-positive cases

Characteristic	<b>Overall</b> , N = 680 <sup>1</sup>	Unimmunized, N = 659	Immunized, N = 21 <sup>1</sup>
Hospital admission	166 (24.4%)	161 (24.4%)	5 (23.8%)
Duration of hospitalization (days)			
Median (IQR)	1.0 (1.0, 2.0)	1.0 (1.0, 2.0)	3.0 (2.0, 3.0)
N missing (% missing)	514 (75.6%)	498 (75.6%)	16 (76.2%)
ICU admission	23 (3.4%)	22 (3.3%)	1 (4.8%)
Duration of ICU admission (days)			
Median (IQR)	3.1 (1.8, 7.3)	3.5 (1.8, 7.4)	2.4 (2.4, 2.4)
N missing (% missing)	657 (96.6%)	637 (96.7%)	20 (95.2%)
Required high-flow oxygen support	145 (21.3%)	141 (21.4%)	4 (19.0%)
Upper respiratory tract infection (URTI) <sup>2</sup>	229 (33.7%)	221 (33.5%)	8 (38.1%)
Lower respiratory tract infection (LRTI) <sup>3</sup>	361 (53.1%)	350 (53.1%)	11 (52.4%)
Fever (> 38°C/100.4°F)	239 (35.1%)	235 (35.7%)	4 (19.0%)
Cough	98 (14.4%)	94 (14.3%)	4 (19.0%)
Wheezing	9 (1.3%)	9 (1.4%)	0 (0.0%)
Breathing difficulties	3 (0.4%)	3 (0.5%)	0 (0.0%)
Bronchiolitis	349 (51.3%)	338 (51.3%)	11 (52.4%)
Sepsis	2 (0.3%)	2 (0.3%)	0 (0.0%)

<sup>1</sup>Data are presented as median (IQR) for continuous measures and n/total (%) for categorical measures.

<sup>2,3</sup> See Table S1 for definitions of URTI and LRTI.

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Sensitivity Analysis	Exposure	Cases	Controls	Unadjusted effectiveness (95% CI)	Adjusted effectiveness (95% CI)	
Alternative Exposure Definitions*						
	Immunized	365	1363	11 (-5.6-25)	-7 (-28.8-11)	
Hepatitis B vaccine as 'sham' exposure	Unimmunized	315	1047			
Immunized ≤ 7 days before testing	Immunized	20	297	78.4 (66.7-86.8)	66.7 (47.2-80)	
	Unimmunized	660	2113			
Alternative Case Definition <sup>+</sup>	·				·	
RSV-associated LRTI <sup>1</sup>	Immunized	11	57	82.1 (66.6-91.2)	71.7 (42-87.1)	
	Unimmunized	350	325	82.1 (00.0-91.2)		
	Immunized	5	22	04 5 (52 2 04)		
RSV-associated LRTI hospitalization	Unimmunized	145	118	- 81.5 (53.3-94)	67.4 (-2.3-90.9)	
Alternative Control Definition*					·	
Only positive for other viruses as controls <sup>2</sup>	Immunized	21	27	79.7 (63.3-88.9)	78.2 (54.8-89.7	
Only positive for other viruses as controls-	Unimmunized	659	172			
Alternative Sample Selection*	1		,	1		
Exclude high-risk infants <sup>3</sup>	Immunized	21	304	77.7 (65.8-86.2)	68 (49.8-80.6)	
	Unimmunized	541	1745			
Exclude infants with pre-existing	Immunized	17	247	77.3 (63.3-86.9)	66.6 (44.6-81)	
immunity <sup>4</sup>	Unimmunized	265	874			

#### Table S5. Sensitivity Analysis.

<sup>1</sup>Lower respiratory tract infection (LRTI): see definition in Table S1.

<sup>2</sup> Other viruses: Influenza A, influenza B, adenovirus, rhinovirus, and parainfluenza.

<sup>3</sup> Excluded infants older than 8 months.

<sup>4</sup> Excluded infants whose mother was immunized by RSV maternal vaccine and infants possibly exposed during the last RSV season (born before July 1st, 2023).

\*Effectiveness against medically attended RSV infection, adjusted for age tested and calendar month.

+ Effectiveness against RSV-associated LRTI or LRTI hospitalization, adjusted for age tested, calendar month, and having at least one risk factor.

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#### SECTION 3. SUPPLEMENTAL METHODS

## Estimating the effectiveness of nirsevimab over time

We evaluated the waning of nirsevimab's protective effect over time using a logistic regression model within a Bayesian framework. For the *j*th test record in our dataset, the observed case status (i.e., whether the patient tested positive or negative for RSV) followed a Bernoulli distribution, such that

 $Case\_Status_i \sim Bernoulli(p_i).$ 

The time between vaccination with nirsevimab and sample collection for RSV testing was categorized into nine bi-weekly intervals (2, 4, 6, ... >16 weeks). To incorporate this variable in the regression model, we created dummy variables to represent each time category (*time\_since\_vax<sub>jn</sub>*,  $n = 1,2,3 \dots 9$ ). For example, if an individual was vaccinated 0-2 weeks before testing, *time\_since\_vax<sub>j1</sub>* = 1 and *time\_since\_vax<sub>jn</sub>* = 0 for  $n = 2,3, \dots 9$ . For an unvaccinated individual, all the dummy variables *time\_since\_vax<sub>jn</sub>* ( $n = 1,2,3, \dots 9$ ) took the value of 0. The probability of testing positive,  $p_j$ , was modeled using a multivariate logistic regression framework as follows:

$$logit(p_j) = \beta_0 + \sum_{n=1}^{N} \beta_n time\_since\_vax_{jn} + \sum_{m=1}^{M} \gamma_m Z_{jm}$$

where  $Z_{jm}$  represents potential confounders (e.g., age at testing, month of testing, risk factors), and  $\gamma_m$  is the coefficients for the confounders.

Due to the waning nature of passive immunity, we assumed that nirsevimab's effectiveness had a non-increasing trend over time. To reflect this in the model, we imposed a monotonic structure on the regression coefficients  $\beta_n$ 's, such that

$$\beta_{n+1} = \beta_n + d_{n+1}, n = 1, 3, \dots 9$$
$$d_{n+1} \sim Normal(0, \sigma_d^2)T(0, )$$
$$\sigma_d^2 \sim Inverse \ Gamma(0.01, 0.01)$$

T(0, ) represents truncation at 0, allowing  $d_{n+1}$  to take only non-negative values. For  $\beta_1$  (coefficient for the effectiveness 0-2 weeks after vaccination), we used a weakly informative prior distribution:

$$\beta_1 \sim Normal(0, 100^2)$$

We examined effectiveness over time against various clinical endpoints. The model for each endpoint was fitted separately in the rjags package in R version 4.3.1, in which we collected

10,000 samples from the posterior distribution after discarding the first 50,000 samples in the burn-in period. Convergence was evaluated using trace plots (Figure S6). The estimated effectiveness of nirsevimab after a given period of time (for time interval n) since immunization  $IE_n$  was calculated as

$$IE_n = (1 - e^{\beta_n}) * 100\%, n = 1, 2, ... 9$$

Medians and 95% quantile-based credible intervals were calculated from the collected posterior samples.

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## STROBE Statement—Checklist of items that should be included in reports of *casecontrol studies*

	Item No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	1,3
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	3
Introduction			
Background/rationa le	2	Explain the scientific background and rationale for the investigation being reported	4
Objectives	3	State specific objectives, including any prespecified hypotheses	4
Methods			•
Study design	4	Present key elements of study design early in the paper	4
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	4-5
Participants	6	(a) Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls	5
		(b) For matched studies, give matching criteria and the number of controls per case	NA
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	5
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	5
Bias	9	Describe any efforts to address potential sources of bias	5-6
Study size	10	Explain how the study size was arrived at	5
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	5
Statistical methods	12	( <i>a</i> ) Describe all statistical methods, including those used to control for confounding	5-6
		(b) Describe any methods used to examine subgroups and interactions	NA
		(c) Explain how missing data were addressed	NA
		(d) If applicable, explain how matching of cases and controls was addressed	NA
		(e) Describe any sensitivity analyses	6
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	7
		(b) Give reasons for non-participation at each stage	NA
		(c) Consider use of a flow diagram	10
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	7, 14
		(b) Indicate number of participants with missing data for each variable of interest	14
Outcome data	15*	Report numbers in each exposure category, or summary measures of exposure	14

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Main results		16 (a) Give unadjusted estimates and, if applicable, confounder-adjusted	7,11
		estimates and their precision (eg, 95% confidence interval). Make clear which	
		confounders were adjusted for and why they were included	
		(b) Report category boundaries when continuous variables were categorized	NA
		(c) If relevant, consider translating estimates of relative risk into absolute risk	NA
		for a meaningful time period	
Other	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity	8
analyses		analyses	
Discussion			
Key results	18	Summarise key results with reference to study objectives	8
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or	9
		imprecision. Discuss both direction and magnitude of any potential bias	
Interpretatio	20	Give a cautious overall interpretation of results considering objectives, limitations,	9
n		multiplicity of analyses, results from similar studies, and other relevant evidence	
Generalisabili	21	Discuss the generalisability (external validity) of the study results	9
ty			
Other informa	tion		
Funding	22	Give the source of funding and the role of the funders for the present study and, if	1
		applicable, for the original study on which the present article is based	1

\*Give information separately for cases and controls.

**Note:** An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at http://www.strobe-statement.org.

## SECTION 4. SUPPLEMENTAL REFERENCES

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- 2. Hodgson, D., et al., Protecting infants against RSV disease: an impact and costeffectiveness comparison of long-acting monoclonal antibodies and maternal vaccination. Lancet Reg Health Eur, 2024. 38: p. 100829.
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