## **Supplementary Online Content**

McEvoy CT, Shorey-Kendrick LE, Milner K, et al. Effect of vitamin C supplementation for pregnant smokers on offspring airway function and wheeze at age 5 years: follow-up of a randomized clinical trial. *JAMA Pediatr*. Published online November 21, 2022. doi:10.1001/jamapediatrics.2022.4401

eTable 1. Wheeze Outcome Variables eReferences eTable 2. Characteristics of Children With Completed 12-Month and 5-Year Pulmonary and/or Airway Function Test Results

This supplementary material has been provided by the authors to give readers additional information about their work.

## eTable 1. Wheeze Outcome Variables

The wheeze outcome quantified between the child's 4<sup>th</sup> and 6<sup>th</sup> birthday was obtained from the following specific questions contained on the standardized respiratory questionnaire<sup>1,2</sup> which was administered quarterly to the child's primary caretaker. A positive response to any of these questions on one or more respiratory questionnaire was recorded as a positive for the wheeze outcome. (The numbers below refer to the question number on the respiratory questionnaire and are organized by source: parental report; healthcare provider; medication use)

Field Label	Response Required/ Composite Notes (which to count)	
PARENTAL REPORT		
1. Since [birth/the last time we talked] has your child had wheezing or whistling in his/her chest?	Any yes, ever. Include an overall count of individuals that answered yes as well as a second count of individuals that reported yes 2 or more times	
14. Has child had any of the following illnesses?	14c. Bronchitis=1 (Yes)	
	14d. Bronchiolitis=1 (Yes)	
HEALTHCARE PROVIDER		
2. Since [birth/the last time we talked] has a health care provider said that your child has wheezy or asthmatic bronchitis?	Response = 1 (Yes)	
3. Since [birth/the last time we talked] has a health care provider said that your child has asthma?	Response = 1 (Yes)	
18. Reason for hospitalization code	Response = 3 (Bronchitis) or 4 (Bronchiolitis) or 5 (Wheezing) or 8 (Asthma/asthma exacerbation)	
19. Not counting hospitalizations, has [CHILD] been seen by a doctor or health care provider because of problems with wheezing, asthma, or wheezy or asthmatic bronchitis, since [birth/the last time we talked]? Include visits to an emergency room, a doctor's office, urgent care, or clinic.	Response = 1 (Yes)	
MEDICATION USE	·	
4a. Since the last time we talked, OR in the last 12 months, which of the following types of medication has child been given?	4a1. Bronchodilator inhalers/nebulizers, pills, or syrups= 1 (Yes)	
	4a2. Steroid inhalers/nebulizers= 1 (Yes)	
	4a3. Leukotriene modifiers=1 (Yes)	
	4a4. Steroid pills or liquids= 1 (Yes)	

Field Label	Response Required/ Composite Notes (which to count)	
	4a6a. If other, specify medication types. Refer to wheeze_med1=1 (Checked)	
10b. Has child been given any medicine for a cough when he/she did not have a cold?	10b1a. Bronchodilator inhalers/nebulizers, pills, or syrups= 1 (Yes)	
	10b1b. Steroid inhalers/nebulizers= 1 (Yes)	
	10b1c. Leukotriene modifiers=1 (Yes)	
	10b1d. Steroid pills or liquids= 1 (Yes)	
	10b1f . If other, specify medication types. Refer to wheeze_med1=1 (Checked)	
17. Specify other medications [1]	refer to wheeze_med1= 1 (Checked)	
18c. Nebulizer/Inhaler (breathing) Treatment in Hospital?	Response = 1 (Yes)	
If Other medication was used, medication was	Response = 1 (Yes)	

[1] Other medications: albuterol, albuterol nebulizer, pills, or syrups, steroid inhalers, nebulizers, leukotriene modifiers, steroid pills or liquids

## eReferences

1. Ferris BG. Epidemiology Standardization Project (American Thoracic Society). *Am Rev Respir Dis* 1978;118:1-120.

2. Litonjua AA, Carey VJ, Laranjo N et al. Effect of Prenatal Supplementation With Vitamin D on Asthma or Recurrent Wheezing in Offspring by Age 3 Years: The VDAART Randomized Clinical Trial. *JAMA* 2016;315(4):362-370.

	12 Month AFT	5 Year AFT
	(n=202)	(n=192)
Race, n (%)		
White	162 (80.2)	151 (78.6)
Non-white	40 (19.8)	41 (21.4)
Ethnicity, n (%)		
Hispanic or Latino	8 (4.0)	5 (2.6)
Non-Hispanic or Latino	193 (95.5)	186 (96.9)
Unknown or not reported	1 (0.5)	1 (0.5)
Gestational age at randomization (weeks), Mean (SD)	18.3 (2.9)	18.3 (2.8)
Public Health Insurance, n (%)	173 (85.6)	167 (87.0)
Maternal Education, of ≤ High School, n (%)	122 (60.4)	110 (57.3)
Maternal asthma, n (%)	67 (33.2)	63 (32.8)
Gestational age at birth (weeks), Mean (SD)	38.3 (1.8)	38.3 (1.8)
Infant birthweight (kg), Mean (SD)	3107.2 (527)	3127 (526)
Female sex, n (%)	98 (48.5)	96 (50.0)

**eTable 2.** Characteristics of Children With Completed 12-Month and 5-Year Pulmonary and/or Airway Function Test Results