

Supplementary Online Content

McEvoy CT, Schilling D, Clay N, et al. Vitamin C supplementation for pregnant women and pulmonary function in their newborn infants: a randomized clinical trial. *JAMA*. doi:10.1001/jama.2014.5217.

eTable 1. Multiple Imputation Analyses of Respiratory Outcomes in Offspring (Adjusting for Gestational Age at Randomization, Birth Weight, and Gestational Age <37 Weeks)

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

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Newborn Pulmonary Function Testing

	Adjusted Mean Difference 95% CI for difference in treated groups (Vitamin C – Placebo)	Adjusted p value for treatment groups
Respiratory rate (bpm)	-0.15 (-4.10, 3.80)	0.941
TPTEF:TE	0.036 (0.010, 0.061)	0.007
Crs/kg (mL/cmH ₂ O/kg)	0.12 (0.03, 0.20)	0.010
Total Crs (mL/cmH ₂ O)	0.32 (0.01, 0.63)	0.040

Clinical Respiratory Outcomes in Infants Through One Year of Age

	Adjusted Odds Ratio/ Relative Risk (95% CI)	Adjusted p value
At least one episode of wheeze (%)	OR= 0.43 (0.20, 0.94)	0.033
Medication for wheeze (%)	RR= 0.59 (0.28, 1.22)	0.154

Odds ratio provided for wheeze outcome when adjusting for gestational age at randomization, birth weight, and gestational age <37 weeks due to lack of convergence using log-link with multiple imputation data.

Abbreviations: TPTEF:TE, ratio of time to peak tidal expiratory flow to expiratory time; Crs, respiratory compliance.

Imputation model predictors were gestational age at randomization, treatment group (vitamin C versus placebo), race, maternal asthma, insurance status (private vs Medicaid), number of children, and whether the mother smoked ≥ 10 cigarettes per day (yes or no).

In addition to missing a very small amount of primary outcome data (due to technically unacceptable measurements as shown in CONSORT diagram) for the newborn PFTs, 20 of the 179 randomized patients were lost to follow-up prior to delivery and we did not have birth weight or gestational age data for 12 of these 20 patients. Therefore 167 patients were included in the imputation analyses shown in this table.