**Supplemental Digital Content 2**. Sensitivity analysis of diarrhea variable comparing different definitions of diarrhea for analysis of infant secretor status, maternal secretor status, and breastfeeding on diarrheal illness from birth to 18 months of age in the ALSPAC cohort

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| **Maternal-Infant *FUT2* Secretor Statusd** | **Association with Infant Diarrheaa****OR (95% CI)b** |
| 0-6 months ≥ 1 episode 1330/4962 (26.8%) | 0-6 months ≥ 2 episode 370/4920 (7.5%) | 6-18 months ≥ 1 episodes 2377/4661 (51.0%) | 6-18 months ≥ 2 episodes 1102/4661 (23.6%) |
| **Breastfed at 6 months** |
|  Mother **–** Infant **–**  | 1.00 (0.66, 1.48) | 0.64 (0.22, 1.50) | **0.56 (0.41, 0.77)\*\*\*** | **0.54 (0.35, 0.81)\*\*** |
|  Mother **+** Infant **–**  | 0.85 (0.55, 1.28) | 0.93 (0.37, 1.99) | **0.66 (0.48, 0.89)\*\*** | **0.67 (0.44, 0.98)\*** |
|  Mother – Infant +  | 0.71 (0.45, 1.06) | 1.04 (0.46, 2.08) | 0.77 (0.58, 1.03) | 0.87 (0.61, 1.22) |
|  Mother + Infant + | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| **Not Breastfed at 6 months** |
|  Mother **–** Infant **–**  | 0.89 (0.70, 1.11) | 1.01 (0.69, 1.45) | **0.75 (0.60, 0.93)\*\*** | **0.76 (0.58, 0.99)\*** |
|  Mother **+** Infant **–**  | 0.86 (0.68, 1.09) | 1.23 (0.85, 1.73) | **0.66 (0.52, 0.82)\*\*\*** | 0.82 (0.63, 1.07) |
|  Mother **–** Infant **+**  | **1.26 (1.01, 1.57)\*** | 1.23 (0.86, 1.72) | 0.94 (0.75, 1.17) | 0.88 (0.68, 1.14) |
|  Mother + Infant + | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |

Maternal and infant secretor status and infant diarrhea in the ALSPAC cohort from 0-6 and 6-18 months. aComparison between diarrhea defined as ≥ 1 vs. ≥ 2 episodes at 0-6 and 6-18 months. Estimates are from logistic regression models mutually adjusted for infant *FUT2*, mother *FUT2* and breastfeeding. bOR, odds ratio; CI, confidence interval; c*FUT2*, fucosyltransferase-2. dMother-infant dyads are classified according to *FUT2* secretor status based on their rs601338 genotype (- indicates homozygous AA non-secretor; + indicates GA or GG secretor). \*p<0.05, \*\*p<0.01, \*\*\*p<0.001