Exercise: Perform a simple participant-level search with MAL-ED and GEMS data

MAL-ED is a longitudinal cohort study that enrolled infants and followed them for at least 2 years. How do *Giardia* test results compare between kids that were exclusively breastfed for <1 month and those exclusively breastfed for >=5 months?

How many participants were exclusively breastfed for <1 month? _____ [1]
How many observations of *Giardia* infection occurred within participants exclusively breastfed for <1 month? _____ Proportion: _____ [2]

How many participants were exclusively breastfed for >=5 months? _____ [3]
How many observations of *Giardia* infection occurred within participants exclusively breastfed for >=5 months? _____ Proportion: _____ [4]

How do other pathogens compare? Try looking at *Campylobacter:*

How many observations of *Campylobacter* infection occurred within participants exclusively breastfed for <1 month? _____ Proportion: _____ [5]

How many observations of *Campylobacter* infection occurred within participants exclusively breastfed for >=5 months? _____ Proportion: _____ [6]

How do these results compare to GEMS? GEMS is a case-control study that enrolled children with moderate to severe diarrhea as cases.

How many participants were exclusively breastfed at enrollment? _____ [7]
How many observations of *Giardia* infection occurred within participants exclusively breastfed? _____ Proportion: _____ [8]

How many participants were not breastfed at enrollment? _____ [9]
How many observations of *Giardia* infection occurred within participants not breastfed? _____ Proportion: _____ [10]

What other factors might you want to control for when trying to understand the relationship between breastfeeding and enteric infections? Would you control for the same factors in both MAL-ED and GEMS?

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[1] 1033
[2] 3525 (60%)
[3] 130
[4] 236 (4%)
[5] 6045 (32%)
[6] 937 (35%)
[7] 1815
[8] 229 (4%)
[9] 6788
[10] 2337 (44%)