

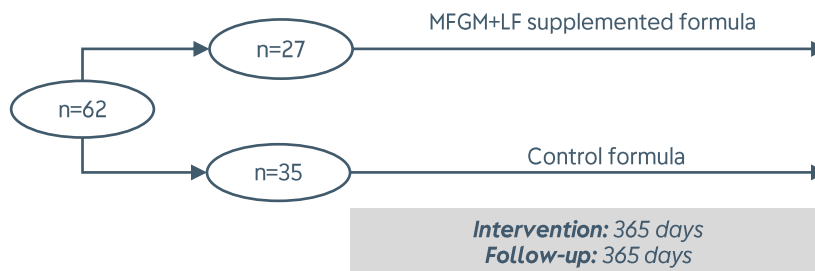
Effect of Bovine Milk Fat Globule Membrane and Lactoferrin in Infant Formula on Gut Microbiome and Metabolome at 4 Months of Age

Chichlowski M, Bokulich N, Harris CL, Wampler JL, Li F, Berseth CL, Rudolph C, Wu SS. *Curr Dev Nutr.* 2021 Apr 2;5(5):nzab027.

Objective: To compare microbiota and metabolite profiles in a subset of study participants

Inclusion Criteria

- Healthy term infants
- Gestational age at birth of 37-42 weeks
- 10-14 days old



ENDPOINTS	FINDINGS (MFGM+LF supplemented formula vs Control formula)
Stool microbiota	<ul style="list-style-type: none"> • More abundant <i>Bacteroides uniformis</i> and <i>Bacteroides plebeius</i> at 4 months
Metabolite profiles	<ul style="list-style-type: none"> • Lower fecal medium chain fatty acids, deoxycarnitine, and glycochenodeoxycholate • Higher fecal carbohydrates and steroids
Bayley-III scores	<ul style="list-style-type: none"> • Not published in this paper

Conclusion: MFGM+LF was associated with subtle differences in stool microbiome and metabolome by 4 months of age, including increased prevalence of *Bacteroides* species. Stool metabolite profiles may be consistent with altered microbial metabolism.