

# Bovine complex milk lipid containing gangliosides for prevention of rotavirus infection and diarrhoea in northern Indian infants

Poppitt SD, McGregor RA, Wiessing KR, Goyal VK, Chitkara AJ, Gupta S, Palmano K, Kuhn-Sherlock B, McConnell MA. J Pediatr Gastroenterol Nutr. 2014 Aug;59(2):167-71.

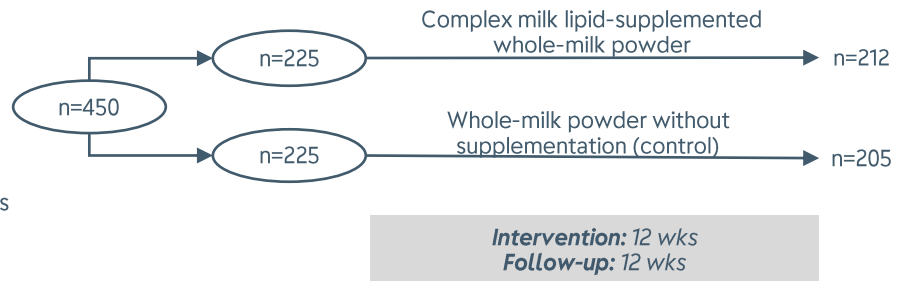
**Objective:** To assess acceptability and efficacy of a high-ganglioside complex milk lipid for prevention of rota-virus infection

**Inclusion Criteria**

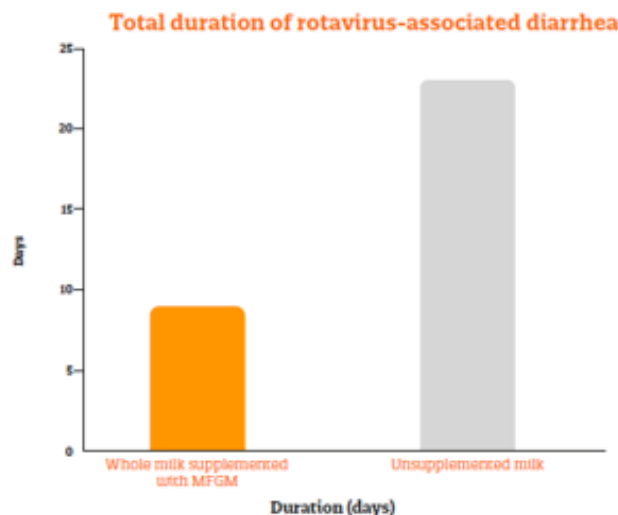
- 8-24 mths old
- Living at home within community setting
- Located near designated study sites

**Exclusion Criteria**

- Prior vaccination for rotavirus
- Allergy to milk or dairy products
- Serious medical condition including prolonged hospitalization for diarrhoea



ENDPOINTS	FINDINGS (Complex milk lipid group vs control group)
Immune Health	<ul style="list-style-type: none"> <li>• Rotavirus-associated diarrhoea               <ul style="list-style-type: none"> <li>- Shorter <b>duration</b></li> <li>- No difference in no. of <b>episodes</b> and <b>severity</b></li> </ul> </li> <li>• Rotavirus infection               <ul style="list-style-type: none"> <li>- No difference in <b>total duration</b> of having rotavirus</li> <li>- No difference in <b>rotavirus load</b></li> </ul> </li> <li>• All-cause diarrhoea               <ul style="list-style-type: none"> <li>- No difference in no. of <b>episodes</b>, <b>duration</b> and <b>severity</b></li> </ul> </li> </ul>
Acceptability	<ul style="list-style-type: none"> <li>• No difference in <b>adverse events</b></li> </ul>



**Conclusion:**

- The unexpectedly low incidence of RV throughout the present trial hampered the main objective of the trial to assess the efficacy of the intervention to prevent rotavirus associated diarrhoea
- Further clinical trials against a higher background of seasonal prevalence are necessary to assess the efficacy of nutritional interventions as an alternative preventive measure for infants in whom rotavirus vaccination is not accessible.