Neurodevelopmental outcomes of healthy Chinese term infants fed infant formula enriched in bovine milk fat globule membrane for 12 months - A randomized controlled trial

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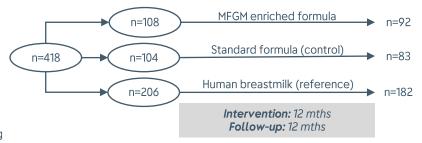
Objective: To evaluate the effect of MFGM-enriched formula on neurodevelopment and growth of healthy terms infants over 12 months

Inclusion Criteria

- · Healthy newborns
- Gestational age: 37-41 wks
- Birthweight: 2.5-4 kg
- Intention to predominantly breastfeed (>90%) or formula feed (>60%)

Exclusion Criteria

- APGAR <7
- Obvious cerebral or major birth defects or genetic disease
- Mothers not expected to comply with exclusive breastfeeding or formula feeding



ENDPOINTS	FINDINGS (MFGM enriched formula vs standard formula)
Neurodevelopment	 Bayley-III Higher social-emotional and general adaptive scores No difference in cognitive, motor and language scores improves short term memory
Growth	No difference in weight, length or head circumference
Biochemical	Higher serum ganglioside level No difference in trace elements



Conclusions: MFGM supplementation in early life supports adequate growth, increased serum gangliosides concentration and improves some measures of cognitive development in Chinese infants.