

How Can Preterm Infants Benefit From Human Milk Oligosaccharides

Up to 50% of preterm babies suffer from feeding intolerance¹

Feeding intolerance is linked to:



Immaturity of the GI system^{1,2}



Disturbed gut microbiota^{3,4}

Goal in neonatal care:

Achieving timely enteral feeding is critical to support healthy growth and development, including the GI tract^{2,5}



First evidence suggests HMOs may reduce morbidity and mortality in preterm infants



Reduced incidence, severity and mortality of NEC*6,7



Reduced risk of gut microbiota dysbiosis**8

Preterm infants may have insufficient HMO intake

Mother's own milk



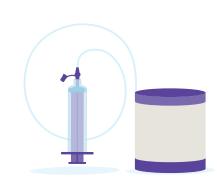
HMO levels may be reduced9

Donor human milk



Pasteurisation and sterilisation reduce HMO levels in human milk^{10,11}

Alternative feedings



Do not currently contain HMOs

HMOs Help the Immune Defenses in 4 Main Ways¹²

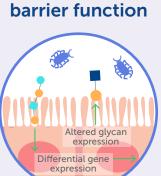




Prevents pathogen adhesion in the gut



Strengthens gut

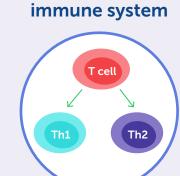


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Symbol Key:

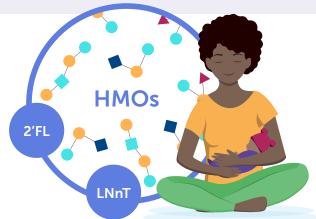
Educates the developing

Glycan on



Evidence suggests that HMOs, 2'FL and LNnT, support timely full enteral feeding and early postnatal growth 13***

Supplementing 2'FL and LNnT supports adequate growth outcomes, in line with Fenton growth standards for preterm infants¹³



Improved* body length vs control



Similar **body weight** vs control



Improved** head
circumference vs control



*Day 14, Day 21: p<0.05. **at Discharge: p<0.01

Using 2'FL and LNnT, the mean time to reach full enteral feeding was 2 days shorter^{13‡}





HMO (2'FL, LNnT) supplement



‡Time to reach full enteral feeding is a reliable indicator of feeding tolerance

Preterm infants are a vulnerable group of neonates which may have insufficient HMO intake. Supplementing the HMO 2'FL and LNnT supports early full enteral feeding and adequate growth in preterm infants.