

0789/#1962**E-poster discussion session 10: EAP -
miscellaneous late breakers 02****A partly fermented infant formula with a specific
prebiotic mixture, postbiotics including 3'-GL and
human milk oligosaccharide 2'-FL is well tolerated
in healthy term infants****Y. Vandenplas^{1*}, M. Arciszewska², B. Pajek³, V. Pokhylo⁴,
V. Klymenko⁵, S. Schoen⁶, A. Cetinyurek Yavuz⁶, K. Mulder⁶,
R. Porcel Rubio⁷**¹Paediatric Department, Kidz Health Castle, UZ Brussels, Brussels, Belgium²Poliklinika Ginekologiczno-Poloznicza Sp. Z. O. O Sp. K, Bialystok, Poland³Niepubliczny Zakład Lecznictwa Ambulatoryjnego (NZLA) Michalkowice Jarosz i partnerzy Spolka Lekarska, Siemianowice-Slaskie, Poland⁴"Ukrainian medical stomatological academy", Neonatology, Poltava, Ukraine⁵Kharkiv National Medical University, City Children's Clinical Hospital No.19, Kharkiv, Ukraine⁶Danone Nutricia Research, Utrecht, Netherlands⁷Hospital Quironsalud, Pediatria, Barcelona, Spain**BACKGROUND AND AIMS**

This study evaluated tolerability of a newly developed partly fermented infant formula (IF) with postbiotics including 3'-Galactosyllactose (3'-GL), a specific prebiotic mixture, 2'Fucosyllactose (2'-FL) and milk fat in healthy term infants.

METHODS

In a randomised, multi-country, double-blind, prospective, controlled study, fully formula fed infants ≤ 14 days of age were randomised to receive until 17 weeks of age: A) experimental IF containing 26% fermented formula with postbiotics derived from LactofidusTM fermentation process (including 3'-GL), 0.8g/100ml short-chain galacto-oligosaccharides and long-chain

fructo-oligosaccharides (scGOS/lcFOS (9:1)), 0.1g/100ml human milk oligosaccharide 2'-FL, and 50% milk fat or B) control IF with 0.8g/100ml scGOS/lcFOS (9:1). Fully breastfed infants served as reference. Every month parents completed a 7-day diary on their infants' regurgitation and vomiting occurrence, and stool characteristics.

RESULTS

No statistically significant differences were observed between 107 subjects in the experimental and 104 in the control group. According to the diary the incidence of ≥ 3 regurgitations on multiple days was highest at 2 months of age (23% of subjects in experimental, 26% in control group); the incidence of 'multiple days with vomiting' was highest at study start (experimental: 27%, control: 30%); average daily stool frequency decreased from study start (median, experimental and control group: 2.6) to study end (experimental: 1.4, control: 1.3); most subjects had a mean 'soft' stool consistency during the study (experimental: 69-80%, control: 75-81%).

CONCLUSION

A partly fermented infant formula with postbiotics including 3'-GL, a specific prebiotic mixture of scGOS/lcFOS, 2'-FL and milk fat is well tolerated by healthy term infants.