Journal of Gastrointestinal & Digestive System
ISSN: 2161-069X
2020
Vol.10 No.6

The effect of lactobacillus reuteridsm 17938 in the intensity and frequency of functional abdominal pain based on Rome criteria iii in children aged 4 to 16 years old: A meta-analysis of randomized control trials

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Abstract

In a retrospective review of Pediatric patients who were diagnosed with ROME III defined-Functional Gastrointestinal Disorders, the most common diagnosis was Functional Abdominal Pain in 45%. Irritable bowel syndrome is the most encountered sub-type of abdominal pain-related functional gastrointestinal disorder. Female gender, psychological disorders, stress and traumatic life events affect prevalence. This study aims to assess the effect of Lactobacillus reuteri DSM 17938 in functional abdominal pain diagnosed based on Rome Criteria III in children aged 4 to 16 years old through a meta-analysis of Randomized Control Trials (RCTs) utilizing Lactobacillus reuteri DSM 17938 in Functional Abdominal Pain based on ROME Criteria III.

Electronic databases were searched. Qualified studies were reviewed through Revman 5.3. For continuous variables, the data were expressed as a mean difference (MD) or as a standardized mean difference (SMD) at 95% Confidence Intervals. In case of heterogeneity, random effects model was used. The primary outcomes of intensity of abdominal pain was assessed by using the Wong–Baker Faces scale while frequency was monitored through a diary done by either the patient or the parent. Lactobacillus reuteri at 2 x10^8 CFU shows significant reduction in the intensity of pain in 4 weeks. However, overall assessment of frequency of abdominal pain showed no significant difference in 4 weeks. Lactobacillus reuteri DSM 17938 can significantly decrease the intensity of Functional Abdominal Pain at 2 x 10^8 CFU in 4 weeks.

Biography:

Andrea B. Uy has completed her medical degree at the University of the East Ramon Magsaysay Memorial Medical Center, Inc. She took her post-graduate internship and subsequent Pediatric Residency Training at the Manila Doctors Hospital.

Speaker Publications:

1. "The effect of lactobacillus reuteridsm 17938 in the intensity and frequency of functional abdominal pain based on Rome criteria iii in children aged 4 to 16 years old: a meta-analysis of randomized control trials".

15th Euro-Global Gastroenterology Conference; Rome, Italy - June 24-25, 2020.

Abstract Citation:

Andrea B. Uy, The effect of lactobacillus reuteridsm 17938 in the intensity and frequency of functional abdominal pain based on Rome criteria iii in children aged 4 to 16 years old: a meta-analysis of randomized control trials, Gastro Congress 2020,15th Euro-Global Gastroenterology Conference; Rome, Italy - June 24-25, 2020 (https://europegastroenterology.gastroconferences.com/abstract/2020/the-effect-of-lactobacillus-reuteri-dsm-17938-in-the-intensity-and-frequency-of-functional-abdominal-pain-based-on-rome-criteria-iii-in-children-aged-4-to-16-years-old-a-meta-analysis-of-randomized-control-trials)