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Xyloglucan for the treatment of acute gastroenteritis in children: results of a randomized, controlled, open-label, parallel group, multicentre, national clinical trial

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1 Introduction

Film-forming agents as xyloglucan are cu although data from randomized studies are of these products in acute diarrhea or patients.

2 Specific objective

To assess the efficacy, safety and time xyloglucan in children with acute gastroen (ORS).

4 Results

A total of 36 patients (58.3% girls; age: 13.9% \leq 1 years, 47.2% 1-5 years) were included (n = 18 in each group). The group treated with xyloglucan and ORS had a better evolution in almost all parameters than the group receiving ORS alone.

A faster onset of action was observed in the xyloglucan group compared with the control group (Figures 1 and 2). At 6 hours, xyloglucan produce a statistically significant higher decrease in the number of type 7 stools (0.11 vs 0.44; p = 0.027) (Figure 1A).



At days 3 and 5, xyloglucan was also able to produce a statistically significant higher reduction of type 6 and 7 stools in comparison with ORS alone (Figures 1B and 2A).

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In comparison with the control group, the percentage of patients with type 6 and 7 stools was always lower in the xyloglucan group from day 1 to day 5, being statistically



A better evolution of nausea, vomiting and abdominal pain was also recorded for the xyloglucan group (Figure 3). Xyloglucan plus ORS was safe and well tolerated, without the occurrence of adverse events throughout the study.

Patients and Methods

nis randomized, controlled, open-label, parallel group, multicentre, clinical trial included ildren (from 3 months to 12 years old) with acute gastroenteritis of infectious origin.

nildren were randomized to receive a 5-day treatment. Both control and active groups ceived ORS and active group also received xyloglucan (Xilaplus®) (one sachet/8 hours in ildren younger than 3 years and 2 sachets/8 hours in children between 3 and 12 years). arrheal symptoms, including number and characteristics of stools (on Bristol scale), and fety were assessed in 3 visits (baseline, at 2 and 5 days), and by fulfillment of a diary card by e parents.



Xyloglucan is a fast, efficacious and safe option for the treatment of acute gastroenteritis in children, with a rapid onset of action in reducing diarrheal symptoms.

