# Novel almond and buckwheat plant-based pediatric nutrition drinks support weight gain and improve gastrointestinal symptoms: retrospective analysis of a parent survey.

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## **Background and Aims**

The purpose of this study was to assess weight gain, child's acceptance, and parent perception of nutrition-related symptoms before and after consuming a novel plant-based toddler and/or kids drink [Else Nutrition].

### Methods

Data collected from two waves of a cross sectional consumer survey, administered by a 3rd party vendor, were analyzed retrospectively. Repeat consumers who ordered product via company's website received an invitation to participate in an online survey. Questions were adapted from a validated pediatric questionnaire

(ROME IV) and modified to also address usage, intake volume, demographics, and anthropometrics. Results are presented as relative frequencies and percentages.

# Results

Most subjects (n=648, mean age  $2.1\pm1.3$  years) consumed between I-3 servings per day (mean intake  $2.9\pm3.5$  servings per day) for an average of  $5.3\pm3.2$  months. The most common reasons for choosing the products were a plant-based lifest—yle or preferred ingredients (~70%) and clinical reasons

 $(\sim 30\%)$  (table I). Poor weight gain was reported by 17% of respondents, with 81% reporting resolution of issue and normal weight gain following use (figure 1, p<0.001). Stool consistency was evaluated using Bristol Stool Form Scale with trend toward more normal shape stools following use. Over 90% were satisfied with their child's acceptance of the product and intended to continue use.

Table 1: Demographic data of consumers

	Gender (M/F)	361/287 (55.7%/44.3%)
Age groups	<1 year 1-2 years 2-3 years 3 years and up	42 (6.5%) 337 (52%) 166 (25.6%) 103 (15.9%)
Reasons for choosing Else	Lifestyle Medical condition	71% 29%
Former product use	Dairy based formula Plant based formula Plant based drink Hypoallergenic formula	42% 29% 57% 17%

Figure 1: Poor weight gain rates on previous formula were reduced following use of Else nutritional drink (n=648

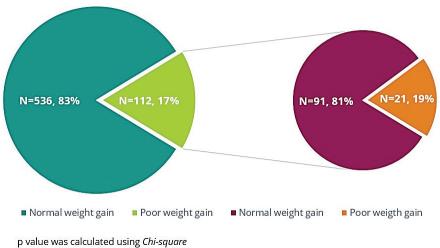
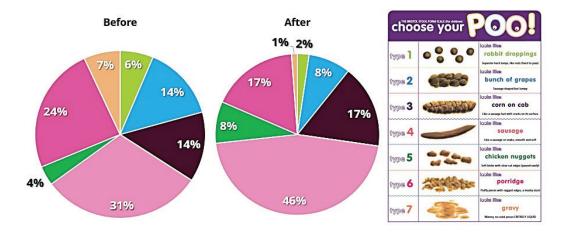


Table 2: Z-scores and percentile calculated using PediTools\* for all participants with available data before and since using Else products

	Before using Else formula	Since using Else formula	
Z-score	-0.19	0.15	P=0.01
Percentile	49%	54%	P=0.0003

<sup>\*</sup>Chou JH et al., J Med Internet Res 2020;22(1):e16204

Figure 2: Stool consistency reported by parents from the second wave survey (n=348)



# Conclusion

This novel nutritional drink is well accepted and fulfills an important gap for parents desiring plant-based nutrition for their children. It appears to support normal growth in children and toddlers; however, prospective clinical trials are needed.

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