0-6 months

Smonths

Years

A closer look at diet and lifestyle factors that influence gut health in children

Human milk contains beneficial elements for the intestinal microbiota, such as human milk oligosaccharides, which stimulate the growth of gut microbiota bacteria such as Bifidobacterium

Breastfeeding

and Lactobacillus (2) Exclusive breastfeeding should be promoted for at least 4 months (3)



- Exclusive or predominant breastfeeding is a desirable goal for approximately 6 months (3)

infant formula, will help gastrointestinal maturation which is driven by the type of foods ingested: exposure to solids, transition from a high-fat, human milk or formula-based diet, to a high-carbohydrate diet (3)

When possible, frequent, on-demand breastfeeding until 2 years of age or beyond is recommended (3)



- by introducing small amounts of food, to be increased gradually as the child ages
- The frequency of meals should also increase as the child age:

Complementary feeding can be started

after 4 months and no later than 6 months,



becoming overweight or obese and developing noncommunicable diseases later in life (5)

Increase the consumption of fruit and vegetables to ensure an adequate daily

intake of dietary fibre (5)

should be a variety of adequate, safe and nutrient-dense complementary foods. This reduces the risk of



To promote diet diversity in children:



are ideal options to promote a healthy gut in children

Nuts and seeds for antioxidants, poly-unsaturated fats and fat-soluble vitamins (A, E, K)



1/4 of children worldwide drink

less than a glass of water per day (7)

for physiological reasons and for the adoption of healthy, sustainable

their thirst

What about a healthy, tasty and

Fruits for vitamins and minerals

Plain yogurt for protein, calcium,

phosphorus, vitamin B12 and live bacteria

Offer water regularly to children throughout the day without relying on them to signal

Associate water intake with "moments" such as wake up, breakfast, morning and afternoon

Make water accessible to children at all times

by using age-appropriate cups

Wholegrain cereals for longer lasting

colorful breakfast bowl?

energy and fiber

Environment, family and children's behavior may also influence gut health



Recent research suggests that certain gut microbiota compositions have been associated with specific behaviour patterns during child development. Findings suggest that the relationships within the family,

the child's food intake and eating behaviours may influence the gut microbiota (8)

4 approaches Role modeling

WATER

Medications

to build healthy eating habits in children

and support healthy gut development (9)

(such as avoiding restriction, promoting independent food choices and letting

Eating and sharing the same

meal and foods together

Healthy home food

environment

Pleasure of eating

Positive parental feeding

the child limit their portion size)

When children get sick, antibiotics or PPI (Proton Pump Inhibitors) may be prescribed to treat certain diseases. On the downside, they may have an impact on the gut microbiota and gut health. **Antibiotics**

Antibiotic treatment, especially if repeted during the first years of life can induce transient and sometimes persistent alterations to the adult gut microbiota called dysbiosis (11)

Appropriate testing to diagnose whether

infections are viral or bacterial can help

optimise antibiotic choice and dosage (12)

are prescribed to kill harmful bacteria, but they also affect the beneficial ones



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Children learn by mimetism of their

environment. Parents and grown-ups

Children with water-drinking

Children from households where sodas are often consumed are

3-times more likely to also drink

sodas than other children

parents are 38% more likely

are important role models (10)

to drink water

PPI

Research has shown that PPIs have

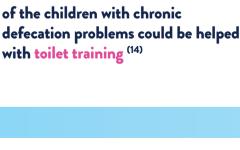
been associated with several health

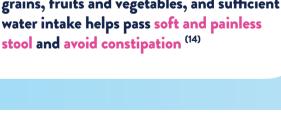
infection and hyperacidity after

discontinuation (13)

issue risks, including gastrointestinal

Constipation







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The Yogurt in Nutrition Initiative is funded by the Danone Institute

International and conducted in collaboration with the $\ensuremath{\mathsf{ASN}}$

doi:10.1016/j.mib.2015.07.007

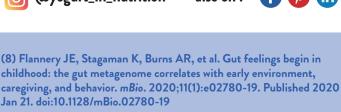
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A balanced diet that includes fibers, whole



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Complementary feeding

Around the age of 6 months, an infant's need for energy and nutrients starts to exceed what is provided by breast milk, and complementary foods are necessary (3,4). Introducing solid foods alongside breastmilk or





