

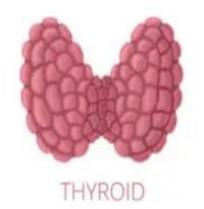


**Phil Knight** 





Tekrarlayan enfeksiyonlar
Sık antibiotik kullanımı
Solunum allerjileri
Besin ve soğuk ile anafilaksiler
Eklem ağrıları
Bel ağrıları, sabah tutuklulukları
Lomber herniler operasyonlar
Otoimmun hastalıklar





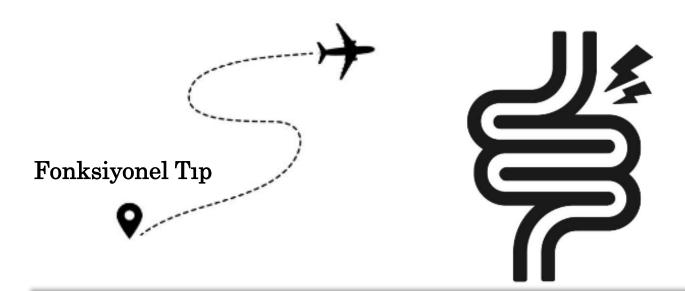




Analjezikler Steroidler Antihistaminikler Adrenalinler







Review

> Int J Mol Sci. 2024 Mar 13;25(6):3242. doi: 10.3390/ijms25063242.

Role of the Gut Microbiota in Osteoarthritis, Rheumatoid Arthritis, and Spondylarthritis: An Update on the Gut-Joint Axis

Umile Giuseppe Longo <sup>1 2</sup>, Alberto Lalli <sup>1 2</sup>, Benedetta Bandini <sup>1 2</sup>, Roberto de Sire <sup>3 4</sup>, Silvia Angeletti <sup>5</sup>, Sebastien Lustig <sup>6</sup>, Antonio Ammendolia <sup>7 8</sup>, Nicolaas Cyrillus Budhiparama <sup>9</sup>, Alessandro de Sire <sup>7 8</sup>

Affiliations + expand

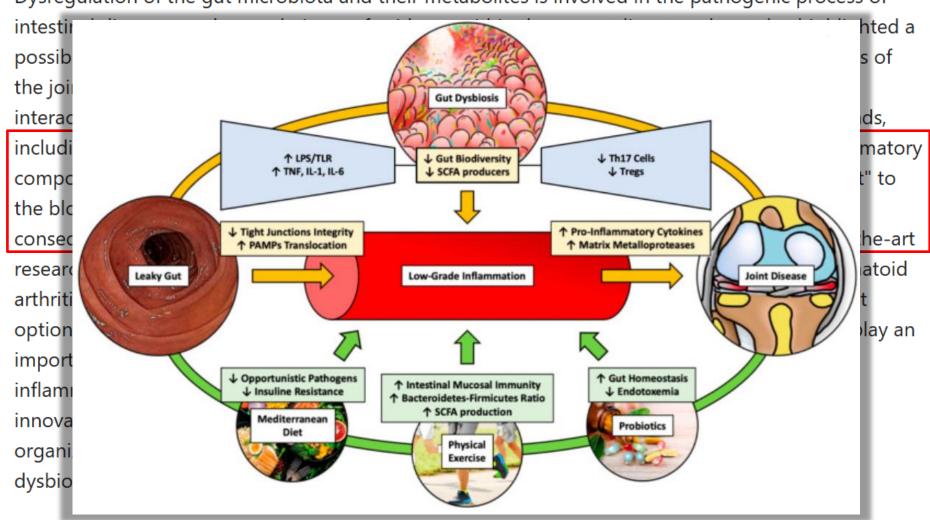
PMID: 38542216 PMCID: PMC10970477 DOI: 10.3390/ijms25063242



### **Abstract**

### Role of the Gut Microbiota in Osteoarthritis, Rheumatoid Arthritis, and Spondylarthritis: An Update on the Gut-Joint Axis

Dysregulation of the gut microbiota and their metabolites is involved in the pathogenic process of



**>** J Clin Med. 2019 May 16;8(5):693. doi: 10.3390/jcm8050693.

## Gut Microbial Composition and Function Are Altered in Patients with Early Rheumatoid Arthritis

Yunju Jeong <sup>1</sup> <sup>2</sup>, Ji-Won Kim <sup>3</sup>, Hyun Ju You <sup>4</sup> <sup>5</sup>, Sang-Jun Park <sup>6</sup>, Jennifer Lee <sup>7</sup>, Ji Hyeon Ju <sup>8</sup>, Myeong Soo Park <sup>9</sup>, Hui Jin <sup>10</sup>, Mi-La Cho <sup>11</sup>, Bin Kwon <sup>12</sup>, Sung-Hwan Park <sup>13</sup>, Geun Eog Ji <sup>14</sup> <sup>15</sup>

Affiliations + expand

PMID: 31100891 PMCID: PMC6572219 DOI: 10.3390/jcm8050693



Romatoid artritli hastaların Sağlıklı kontrol grubuna göre Bağırsak bakteriyal çeşitliliğinde azalma





Peki bu insanların bifidobakterileri neden azalmış?



Observational Study > Ital J Pediatr. 2020 Apr 15;46(1):45. doi: 10.1186/s13052-020-0794-8.

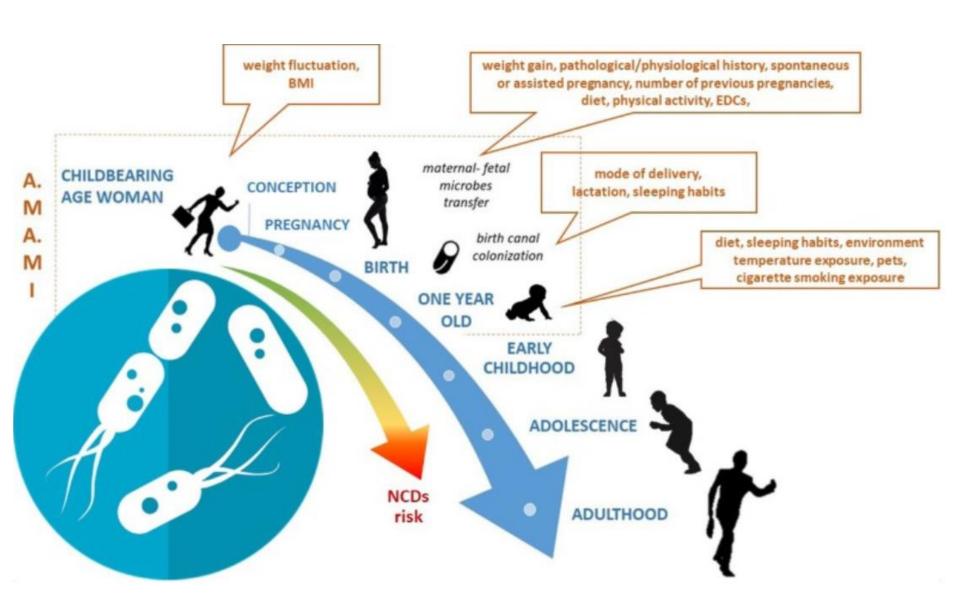
## Prenatal and postnatal determinants in shaping offspring's microbiome in the first 1000 days: study protocol and preliminary results at one month of life

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Benedetta Raspini <sup>1</sup>, Debora Porri <sup>2</sup>, Rachele De Giuseppe <sup>2</sup>, Marcello Chieppa <sup>3</sup> <sup>4</sup>, Marina Liso <sup>3</sup>,
Rosa Maria Cerbo <sup>5</sup>, Elisa Civardi <sup>5</sup>, Francesca Garofoli <sup>5</sup>, Maria Cristina Monti <sup>6</sup>, Mirco Vacca <sup>7</sup>,
Maria De Angelis 7, Hellas Cena 2 8
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Affiliations + expand

PMID: 32293504 PMCID: PMC7158098 DOI: 10.1186/s13052-020-0794-8







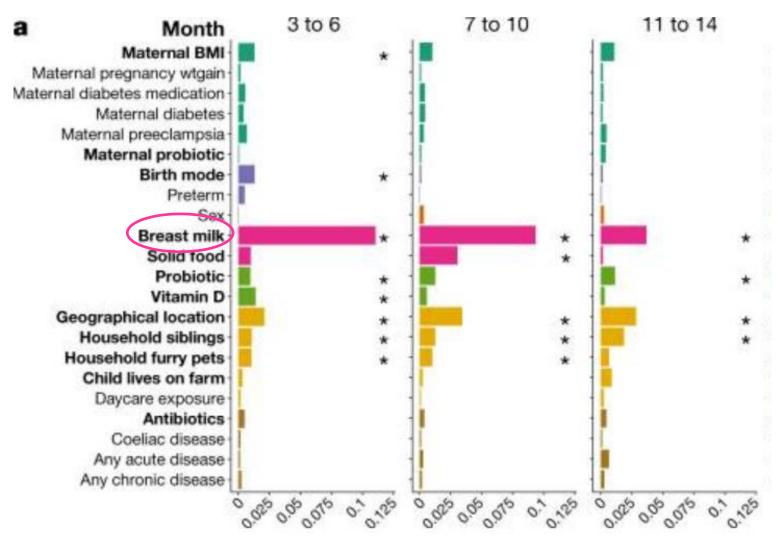
### Sinbiyotik Bir Besin olan Anne Sütü

Pre-biyotikler
Anne sütü
Oligosakkaritleri

**Pro-biyotikler**Bifidobacterium
Lactobacillus

Bir bebeğin mikrobiyotasının ANA belirleyicisi



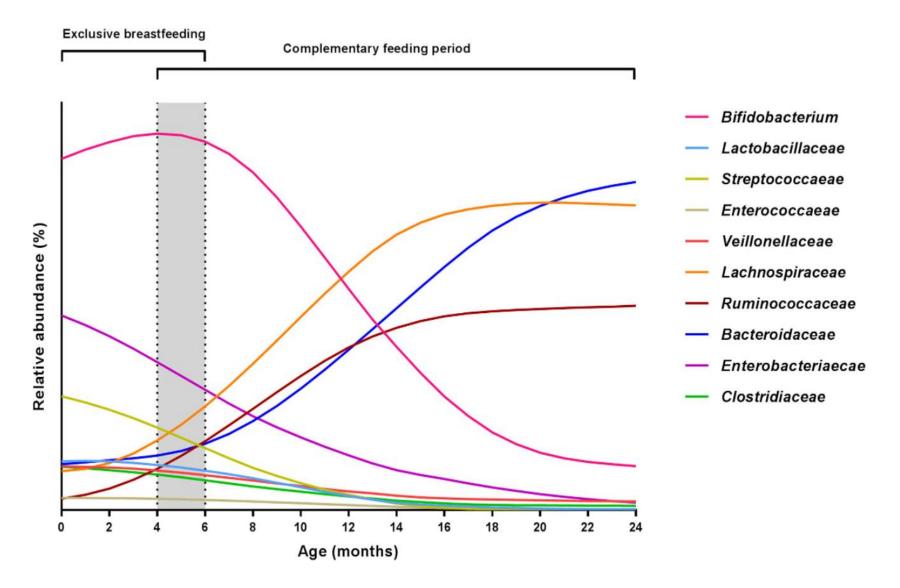


> Nature. 2018 Oct;562(7728):583-588. doi: 10.1038/s41586-018-0617-x. Epub 2018 Oct 24.

Temporal development of the gut microbiome in early childhood from the TEDDY study







Front. Microbiol., 2017

PMID: 28321211



### Gebelikteki Beslenme -> Bebekte Damak Hafızası



PMID: 30982867



Review > J Microbiol Biotechnol. 2024 Apr 28;34(4):747-756. doi: 10.4014/jmb.2312.12031.

Epub 2024 Feb 1.

### Diet-Induced Gut Dysbiosis and Leaky Gut Syndrome

Yu-Rim Chae <sup>1 2</sup>, Yu Ra Lee <sup>1</sup>, Young-Soo Kim <sup>2</sup>, Ho-Young Park <sup>1 3</sup>

Affiliations + expand

PMID: 38321650 PMCID: PMC11091682 DOI: 10.4014/jmb.2312.12031

## Besinler bağırsak mikrobiyota değişikliğine neden olarak Geçirgen bağırsak sendromunun neden olmakta



Doymuş Yağ ve Rafine karbonhidrattan zengin diyetlerin Tight junction proteinlerinin yapışmasını zayıflattığı bulunmuş



## Çocuk şekerle ne zaman tanıştı?







1.5 yaş Büyüme gelişme geriliği Tekrarlayan bronşiolit , Egzema

Biberonla kola içiyor



## Fazla şeker tüketimi:

Diş çürükleri Yetersiz beslenme Diyet çeşitliliğinin azalması

Obezite Tip 2 diyabet Kardiyovasküler hastalıklar



PMID: 28922262



## Diş Çürükleri



> Microorganisms. 2024 Jun 18;12(6):1225. doi: 10.3390/microorganisms12061225.

### Periodontal Inflammation and Dysbiosis Relate to Microbial Changes in the Gut

Angela R Kamer <sup>1</sup>, Smruti Pushalkar <sup>2</sup>, Babak Hamidi <sup>1</sup>, Malvin N Janal <sup>3</sup>, Vera Tang <sup>1</sup>, Kumar Raghava Chowdary Annam <sup>1</sup>, Leena Palomo <sup>1</sup>, Deepthi Gulivindala <sup>1</sup>, Lidia Glodzik <sup>4</sup>, Deepak Saxena <sup>5</sup>

Affiliations + expand

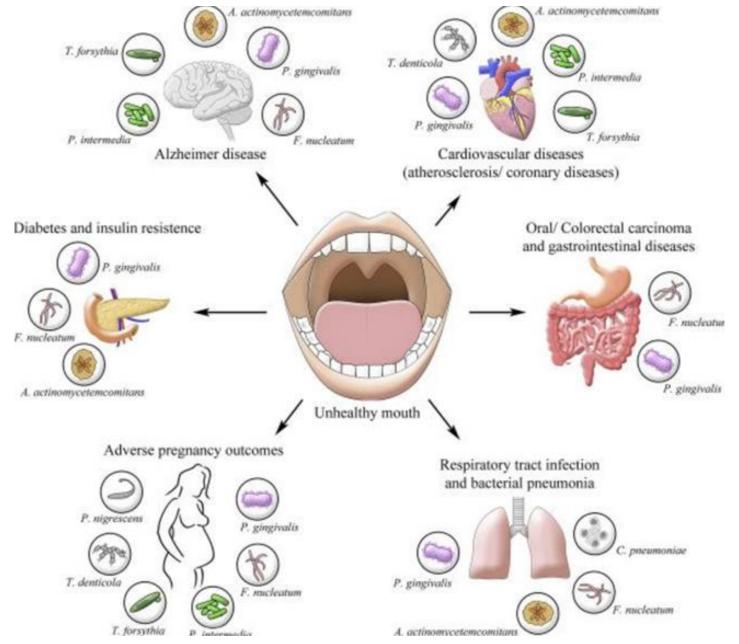
PMID: 38930608 PMCID: PMC11205299 DOI: 10.3390/microorganisms12061225

### Periodontal hastalık, disbiyozis zemininde kronik inflamatuar bir hastalıktır



Periodontal inflamasyon ve subgingival mikrobiyota Bağırsak bakteriyel değişikliklerine katkıda bulunuyor





pr. Nagehan Katipoğlu

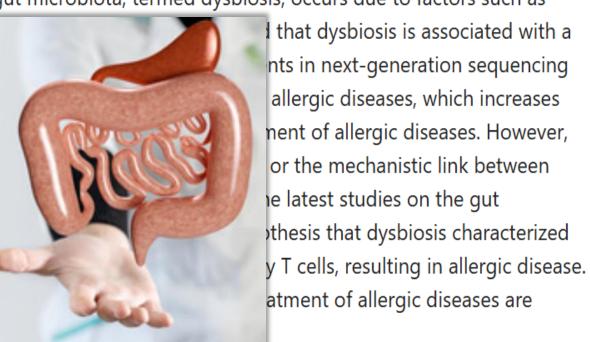
PMID: 30987702

### Gut microbiota and allergic diseases in children

### Abstract

The gut microbiota resides in the human gastrointestinal tract, where it plays an important role in maintaining host health. The human gut microbiota is established by the age of 3 years. Studies have revealed that an imbalance in the gut microbiota, termed dysbiosis, occurs due to factors such as

cesarean delivery and antibiotic higher risk of future onset of alle methods have revealed the prese attention on the relationship bet there is no unified perspective or dysbiosis and the onset of allerg microbiota in children with allerg by fewer butyric acid-producing Further studies on correcting dyswarranted.





### Allergology International

ALLERGOLOGY INTERNATIONAL

journal homepage: http://www.elsevier.com/locate/alit

Furthermore, the maternal gut microbiota might determine the transcriptional profile of the fetal intestinal microbiota.<sup>20</sup> Importantly, children born through vaginal delivery acquire abundant bacteria residing in the vagina and perianal area, which accelerates the establishment of the gut microbiota. According to a study

after weaning, changing towards an adult-like gut microbiota by the age of 3 years. The microbiota established by the age of 3 years is maintained through adulthood. Importantly, dysbiosis that develops during the early stages of life may remain into adulthood.<sup>23</sup>

microbiota.<sup>22</sup> The dominant phylum in the adult gut microbiota was Firmicutes, including Lactobacillales and Clostridiales, while it was Actinobacteria, including Bifidobacteriales, in the gut microbiota of 1-year-olds. The proportion of Actinobacteria decreases after weaning, changing towards an adult-like gut microbiota by the age of 3 years. The microbiota established by the age of 3 years is maintained through adulthood. Importantly, dysbiosis that develops during the early stages of life may remain into adulthood.<sup>23</sup>

Therefore, it is important to establish a favorable gut microbiota during infancy.<sup>24</sup>



### Hijyen Hipotezi

## Hay fever, hygiene, and household size

David P Strachan

Department of
Epidemiology and
Population Sciences,
London School of
Hygiene and Tropical
Medicine, London
WC1E 7HT

David P Strachan, MRCP, lecturer in epidemiology

Br Med J 1989;299:1259-60

Hay fever has been described as a "post industrial revolution epidemic," and successive morbidity surveys from British general practice suggest that its report of "hay fever or allergic rhinitis in the past 12 months" at age 11; (c) parental recall of "eczema in the first year of life" elicited when the child was 7. Cross tabulations were performed with the SAS statistical package, and multiple logistic regression models were fitted with the LR program in the BMDP statistical package.

Of the 16 perinatal, social, and environmental factors studied the most striking associations with hay fever were those for family size and position in the

> 1. The table shows that at both by fever was inversely related to in the household at age 11

### Hijyenik ortam allerji için risk faktörü

paper suggests a possible explanation for these trends over time.

#### Subjects, methods, and results

I studied the epidemiology of hay fever in a national sample of 17 414 British children born during one week in March 1958 and followed up to the age of 23 years (the National Child Development Study). Three outcomes were investigated: (a) self reported "hay fever during the past 12 months" at age 23; (b) parental

(when it is assumed most families were complete). When prevalence figures were adjusted by multiple logistic regression for other significant determinants of hay fever in this cohort (see table) the associations with numbers of older and younger children in the household persisted. These trends in adjusted prevalence were independent of one another and each was significant (p<0.01, see table), but the trends by number of older children were significantly steeper ( $\chi^2=11.6$ , df=1, p<0.01 at age 11;  $\chi^2=19.5$ , df=1, p<0.01 at age 23). A further analysis of hay fever occurring at 23 by birth

Geniş ailede büyüyen Kardeş sayısı fazla olan Küçük kardeşler DAHA AZ ALLERJİK



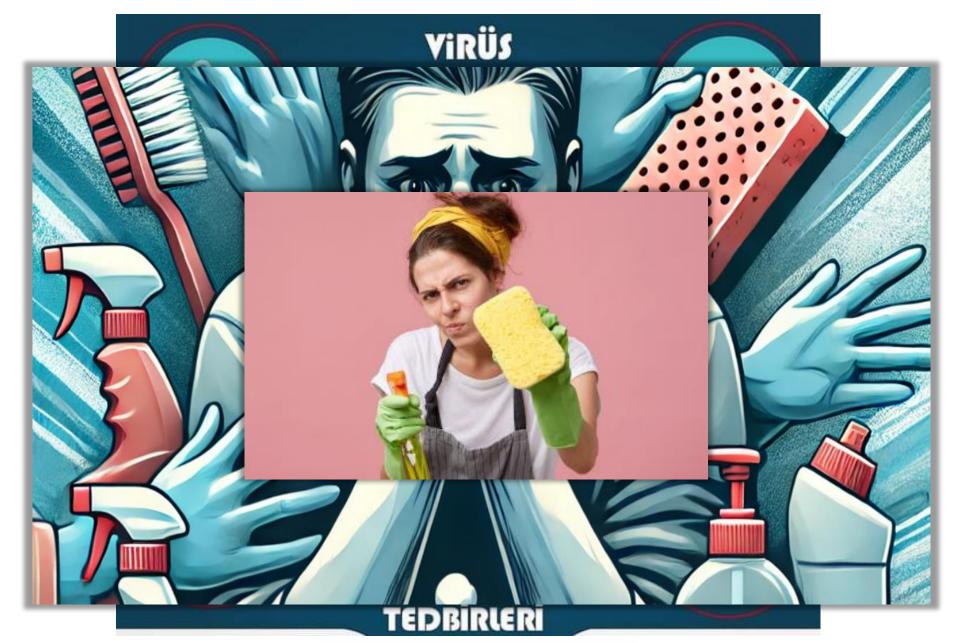


Çok sayıda Epidemiyolojik çalışma Hijyen hipotezini destekledi

Çiftlikte büyüyen
Toprakla temas eden
Evlerinde evcil hayvan besleyen
Erken yaşta kreşe başlayan
Daha düşük alerji insidansı

Bagırsak mikrobiyotasındaki köklü degisiklikler döneminde Çevredeki çesitli mikroorganizmalara maruz kalmanın Gelecekte alerjik hastalık geçirme riskinin düsmesine katkı saglıyor'

Dr.Nacehan Katipoõlu



> Nat Commun. 2024 Apr 2;15(1):2830. doi: 10.1038/s41467-024-47176-w.

# Incident allergic diseases in post-COVID-19 condition: multinational cohort studies from South Korea, Japan and the UK

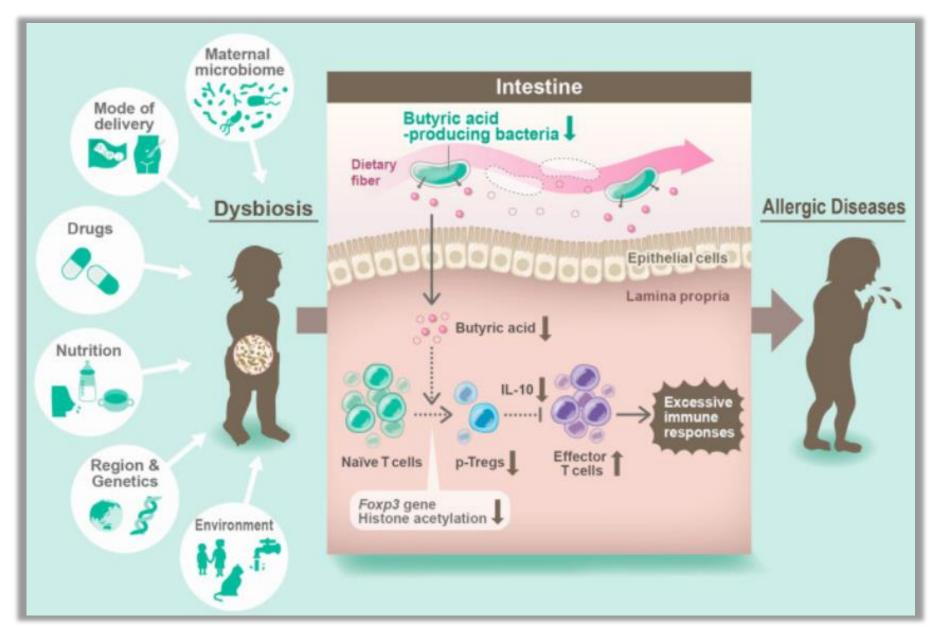
Jiyeon Oh <sup># 1</sup>, Myeongcheol Lee <sup># 2 3</sup>, Minji Kim <sup># 2 3</sup>, Hyeon Jin Kim <sup># 2 3</sup>, Seung Won Lee <sup>4</sup>, Sang Youl Rhee <sup>2 5</sup>, Ai Koyanagi <sup>6</sup>, Lee Smith <sup>7</sup>, Min Seo Kim <sup>8</sup>, Hayeon Lee <sup>9 10</sup>, Jinseok Lee <sup>11 12</sup>, Dong Keon Yon <sup>13 14 15 16</sup>

Affiliations + expand

PMID: 38565542 PMCID: PMC10987608 DOI: 10.1038/s41467-024-47176-w







PMID: 35314107

Review > Front Cell Infect Microbiol. 2020 Nov 24:10:572912. doi: 10.3389/fcimb.2020.572912. eCollection 2020.

### Antibiotics as Major Disruptors of Gut Microbiota

Advances in culture-independent research techniques have led to an increased understanding of the gut microbiota and the role it plays in health and disease. The intestine is populated by a complex microbial community that is organized around a network of metabolic interdependencies. It is now understood that the gut microbiota is vital for normal development and functioning of the human body, especially for the priming and maturation of the adaptive immune system. Antibiotic use can have several negative effects on the gut microbiota, including reduced species diversity, altered metabolic activity, and the selection of antibiotic-resistant organisms, which in turn can lead to antibiotic-associated diarrhea and recurrent *Clostridioides difficile* infections. There is also evidence that early childhood exposure to antibiotics can lead to several gastrointestinal, immunologic, and neurocognitive conditions. The increase in the use of antibiotics in recent years suggests that these problems are likely to become more acute or more prevalent in the future. Continued research into the structure and function of the gut microbiota is required to address this challenge.





### Medical Clinics of North America



Volume 90, Issue 6, November 2006, Pages 1049-1076

## Antibiotics—Past, Present, and Future

Nancy Khardori MD, PhD 🖰 🖾

Department of Internal Medicine, Southern Illinois University School of Medicine, PO Box 19636, Springfield, IL 62794-9636, USA





**>** Nature. 2011 Aug 24;476(7361):393-4. doi: 10.1038/476393a.

## Antibiotic overuse: Stop the killing of beneficial bacteria

Martin Blaser 1

Concerns about antibiotics focus on bacterial resistance – but permanent changes to our protective flora could have more serious consequences, says Martin Blaser.





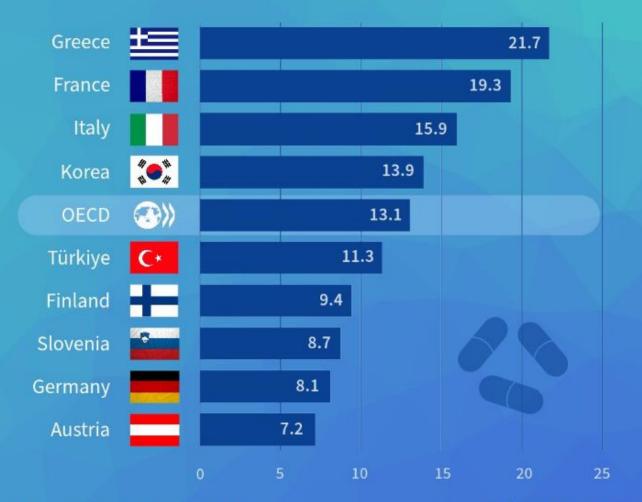


### OVERUSE OF ANTIBIOTICS



## **Antibiotic** prescriptions

Defined daily doses per thousand population per day, selected OECD countries, 2021 (or nearest year)



Source: OECD Health Statistics 2023, ECDC 2023 (for EU/EEA countries).





Çocuklarda Bağırsak Sağlığını Koruyucu Büyüme Hedefi Sadece Sağlıklı Bir Çocukluk Geçirilmesi İçin Değil



## Her erişkin zamanında çocuktu!!



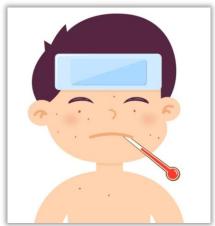


## Yıl 2022...

4 yaş erkekTekrarlayan ateş4 haftada bir tonsilit40-41 derece ateşAcil servis başvuruları

Son 1 yılda; 3 kez IM penisilin 11 kez oral AB

Büyüme gelişme iyi İştahı iyi







eriodic ever phthous stomatitis haryngitis denitis







Periyodik ateş sendromları;

Mikroorganizmaların uyarısı olmadan

Otoinflamasyonun neden olduğu

Bir grup hastalıktır

Doğal immun yanıtın primer disfonksiyonu



# Oto-inflamasyon varsa <u>Anti-inflamatuar hayat olmalı</u>



### **Anti-inflamatur Beslenme**



Yeşil yapraklılar Kırmızı meyveler Sebze suları Baharatlar-Tohumlar Kuruyemişler Zeytinyağı

Rafine tahıllar Fast-food Margarin Kızartmalar Paketli gıdalar İnek Süt





### 2022 Ocak:

Anti-inflamatuar Beslenmeye geçiş

### 2025 Ocak:

3 yıldır takipli

7 yaşında

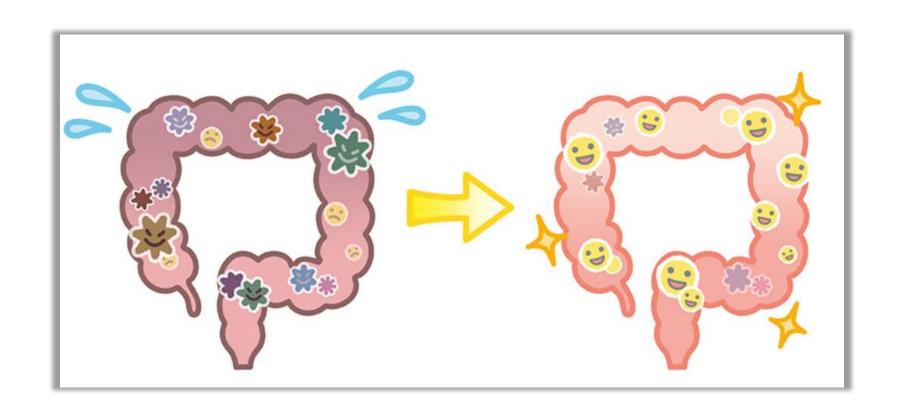
2. Sınıf öğrencisi

5 yaşında okula başladı



3 yıldır PFAPA atak yok Antibiyotik yok Hastalık yok





## THE POWER OF THE FIRST 1,000 DAYS

The right nutrition in the 1,000 days between a woman's pregnancy and her child's second birthday builds the foundation for a child's ability to grow, learn and thrive.



Babies developing in the womb draw all of their nutrients from their mother. If mom lacks key nutrients, so will her baby, putting the child's future health and development at risk.



### Infancy: Birth to 6 months

Breast milk is superfood for babies. Not only is it the best nutrition an infant can get, but it also serves as the first immunization against illness and disease.



### Toddlerhood: 6 months to 2 years

of healthy foods are an essential complement to breast milk to ensure healthy growth and brain development.

The impact of good nutrition early in life can reach far into the future.

Children who get the right nutrition in their first 1,000 days:

#### ARE 10x MORE

likely to overcome the most life-threatening childhood





4.6 more

4. more





Go on to earn

21<sub>%</sub> more



Are more likely as adults to have healthier families



#### SOURCES

- 1. Save the Children, Nutrition in the First 1,000 Days: State of the World's Mothers 2012.
- 2. Hoddinott, J. et al "Adult consequences of growth failure in early childhood." American Society for Nutrition, 2013.
- 3. Ibid.
- 4. Ibid.



www.thousanddays.org



