

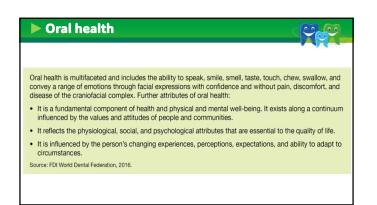
🕨 Kesehatan Gigi dan Mulut pada Anak

Gingivitis terjadi pada >50% balita ⇔ meningkat hampir 100% saat pubertas (AAPD)

- Karies gigi dan komplikasinya terjadi pada 42% anak usia 2-11 tahun
- $\circ~$ Kesehatan gigi yang buruk ⇔ memengaruhi perkembangan dan pertumbuhan anak ≈ kebiasaan makan, pernapasan yang tepat, berbicara, bersosialisasi

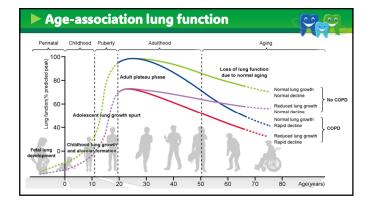
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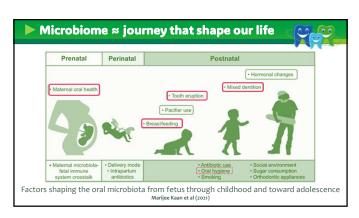
Gangguan perkembangan kognitif Kondisi medis kronis Malnutrisi dan kondisi lain yang dapat dicegah Konsekuensi psikososial







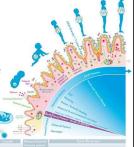


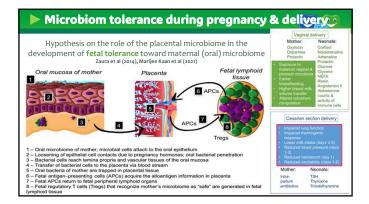


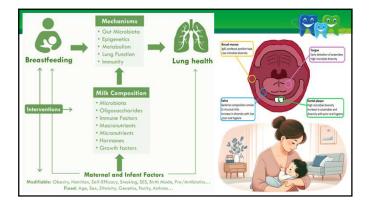
Oral microbiome

- After the gut, mouth has the second largest and most diverse microbiota
- Different bacteria populate different areas of the oral cavity
- Every individual has a unique oral microbiome

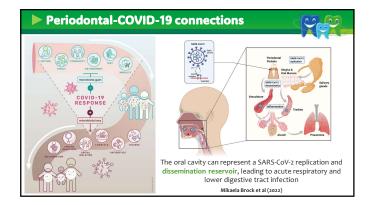
Launched in 2010, <u>The Human Oral Microbiome</u> <u>Database</u> offers a repository of oral bacterial genome sequences, featuring 772 prokaryotic species

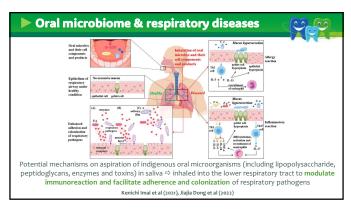


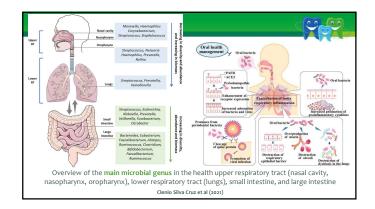


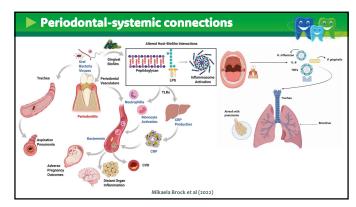


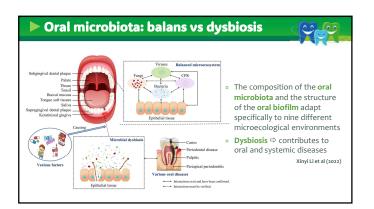


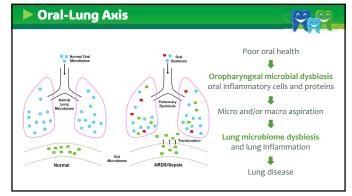






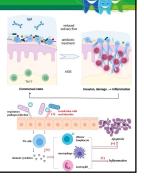


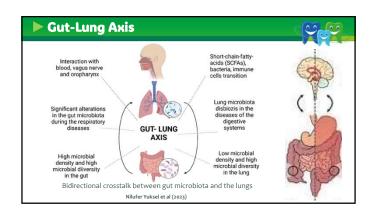


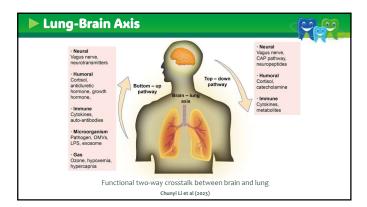


Pathogenesis

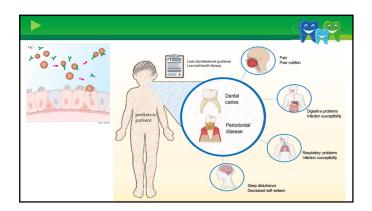
- By aspiration of oral pathogen in the lungs
- By action of periodontal disease-associated enzyme in saliva on the mucosal surfaces to promote adhesion and colonization by respiratory pathogens
- By periodontal disease associated enzymes, which may destroy protective salivary pellicles
- By cytokines originating from periodontal tissues, which may alter epithelium to promote infection by respiratory pathogens

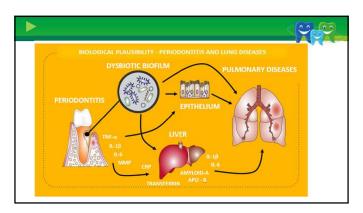


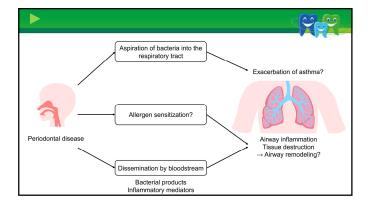


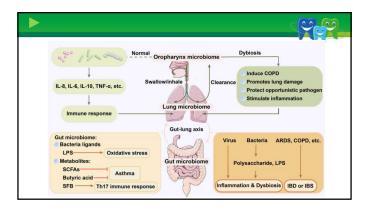


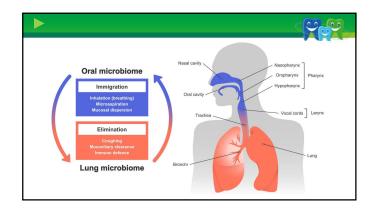


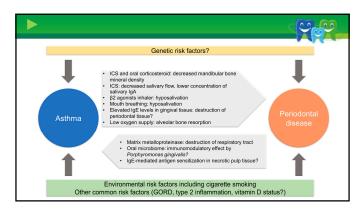


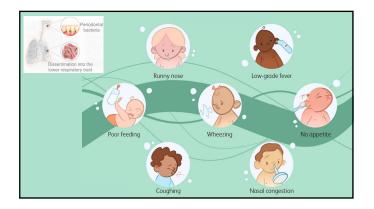


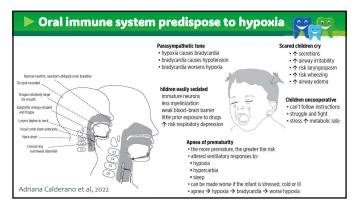




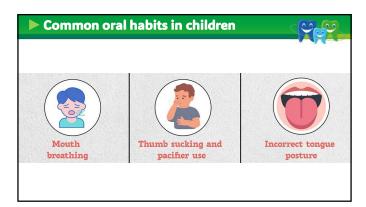






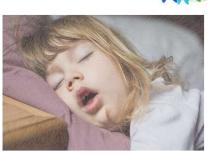






Mouth breathing due to nasal obstructions Mouth breathing due to nasal obstructions

- Anatomic deformities
 ① Deviated septum
 ② Turbinate hypertrophy
 ③ Concha bullosa
- Atopy
- Nasal Mass or Polyp
- Enlarged Adenoids
- vasomotor Rhinitis

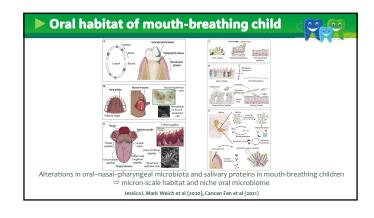


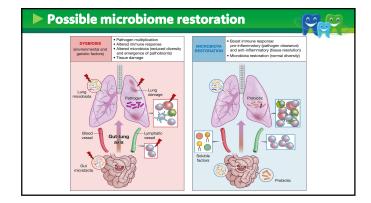
Common issues caused by mouth breathing Co...Co

- Improper Facial Development
- Bad Posture
 ⇒ misalignment of neck—spine—body and muscle tension
- Sleep Disordered Breathing ⇔ restless sleep, restless leg syndrome, snoring, trouble falling or staying asleep, frequent night wakings, sleepwalking
- o Obstructive Sleep Apnea
- Teeth Grinding And Clenching
- ADHD and ADD ≈ about 40% of kids who have sleep disordered breathing issues also develop ADHD, ADD, or a learning disability

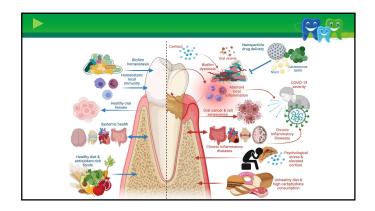
Nose breating is better than mouth breathing

- Keeps child's face in a natural position ⇒ optimal for proper development of face structurally, functionally, and aesthetically
- Breathing through the nose means your child gets the nitric acid ≈ chemical that only produced in the nasal passage
- Nasal breathing takes in more oxygen vs mouth breathing ⇔ improves sleeping and brain activity ≈ especially important for rapidly-developing brains
- Nose breathing promotes deeper breathing ⇔ child who mouth breath are more prone to shallow breathing and respiratory problems
- Since 50% of what's in the mouth goes to the gut, mouth breathing can lead to **digestive issues**





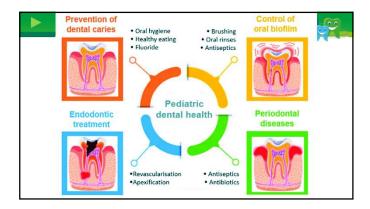




Oral care regimen

- Breastfeeding provides the best nutrition for babies
- From 6 months of age infants should be introduced to drinking from a free-flow cup
- » From age 1 year feeding from a **bottle should be discouraged**
- Limit intake of **free sugar** and or any medication
- Eat a healthy diet high in of fruits and vegetables
 more fiber means more saliva
- Rinse mouth with water after every meal

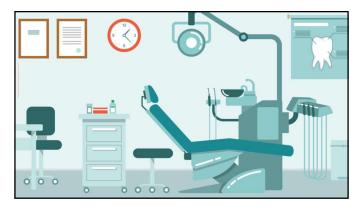




Oral care regimen	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
 As soon as teeth erupt in the mouth, brush them twic toothpaste – a flat smear of toothpaste up to 3 years 	

- amount of toothpaste thereafter
 From 3 years onwards, at least twice a day, brush with a soft-bristle brush and toothpaste for a full two minutes ⇔ make sure to clean along gumlines
- and tooripaste for a function influes → make sure to clean along gumines and tongue ≈ to maintain fluoride concentration levels, spit out after brushing, do not rinse mouth
- Parents or carers should brush or supervise toothbrushing until the age of 7 years
- Floss regularly to remove plaque and leftover food
- On a regular basis, visit the dentist for a checkup and cleaning





▶ Take home messages ☺

- Dental caries, periodontitis and gingivitis, dental malocclusion, dental trauma, and some oral soft tissue lesions are among the most common oral disorders in children ⇔ if these problems remain untreated, they can have long-term effects on the orofacial system, chewing and speaking abilities, oral health-related quality of life, and overall health status ⇔ early diagnosis and management of these conditions necessitate being aware of the clinical manifestations of each disease at every age.
- Implementing preventive intervention, accurate diagnosis, proper treatment, and performing regular follow-ups are among the key factors for eliminating harmful long-life consequences of poor oral and dental health status in children and adolescents.

