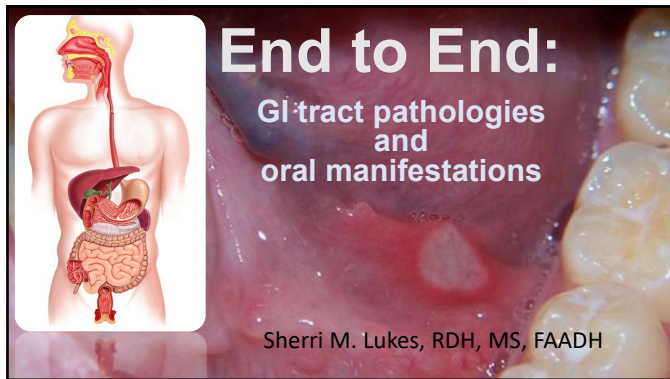
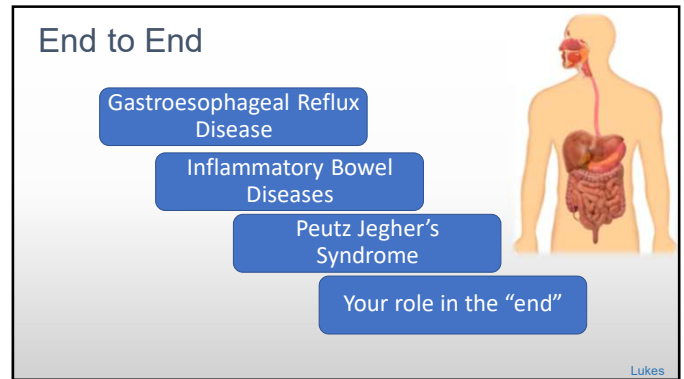




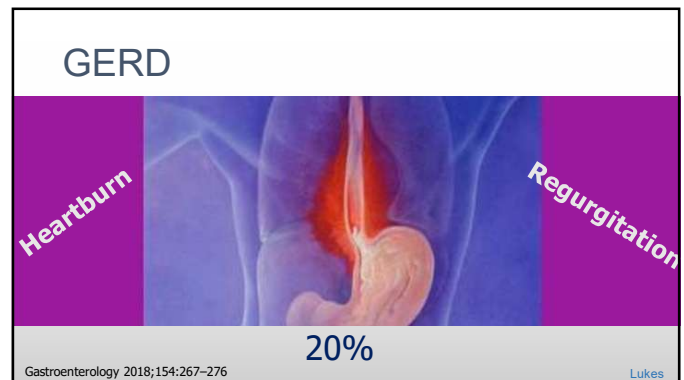
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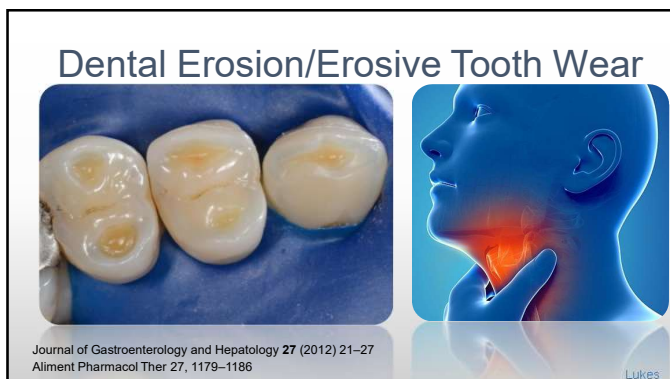
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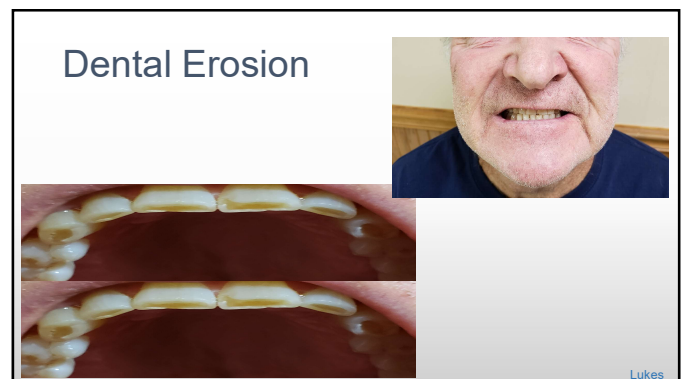
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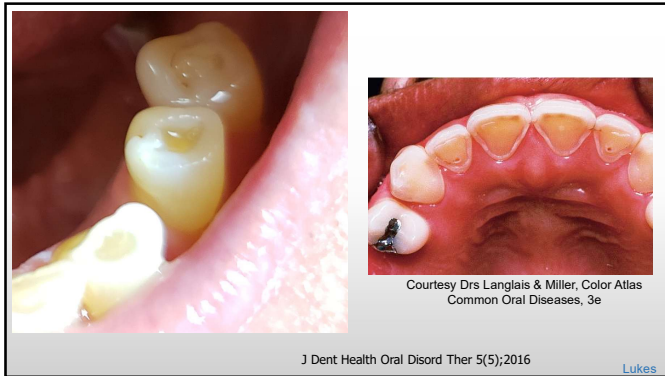
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32



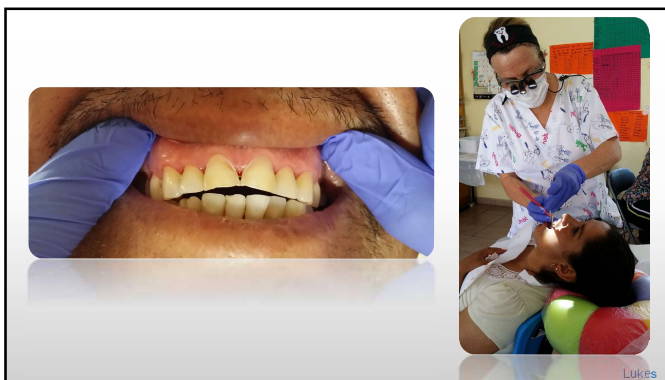
33



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Interventions-Erosive Tooth Wear

- ✓ Stimulation and/or substitution of salivary secretions
- ✓ Diet modifications
- ✓ Physical barriers
- ✓ Refrain from brushing immediately after reflux episode
- ✓ Fluoride (stannous)
- ✓ Hypersensitivity products
- ✓ Sealants/minimally invasive restorations



Courtesy Drs Langlais & Miller, Color Atlas Common Oral Diseases, 3e

Gastroenterology 2018;154:267-276

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Stannous fluoride toothpastes



European Archives of Paediatric Dentistry. 2019; (20); 517-527

May 2014 Monographs in oral science. 25:244-252

Amorphous Calcium Phosphate (ACP) Casein Phosphopeptide (CPP)



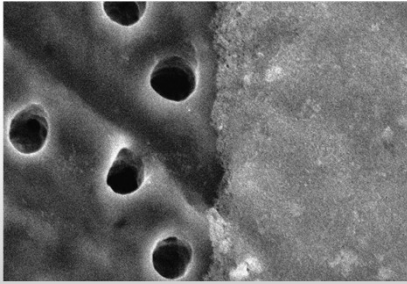
38



May 2014 Monographs in oral science 25:244-252

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Hypersensitivity



Lukes

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Other oral manifestations

Aphthous type ulcerations
Burning mouth
Palatal erythema
Xerostomia



J Dent Health Oral Disord Ther. (2016). 5(5)
J Dentistry. (2008). 36;268-271

Lukes

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Treatment???



Lukes

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Aphthous type ulcerations



J Dent Health Oral Disord Ther. (2016). 5(5)
J Dentistry. (2008). 36;268-271

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OTC remedies

Coating agents
Topical anesthetics
Nonsteroidal anti-inflammatory agents
Chemical cautery agents



https://www.aaom.com/index.php?option=com_content&view=article&id=86:canker-sores-treatment&catid=22:patient-condition-information&Itemid=120

Lukes

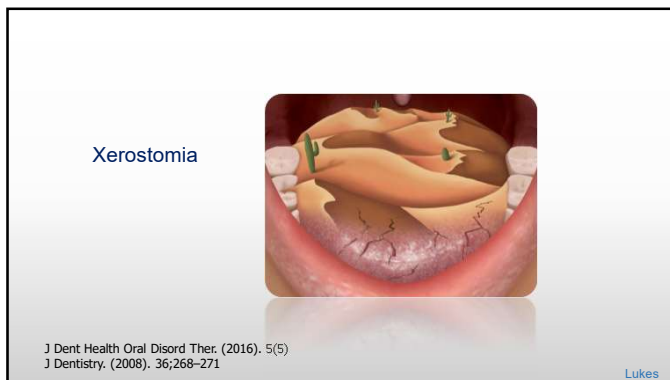
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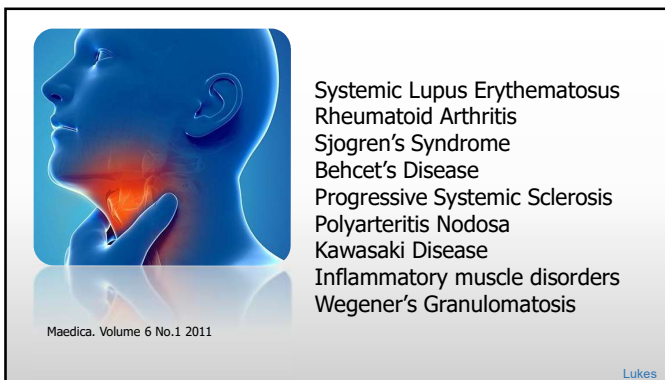
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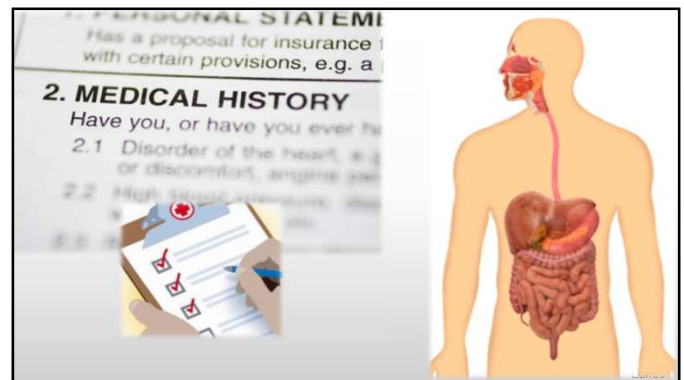
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57



58



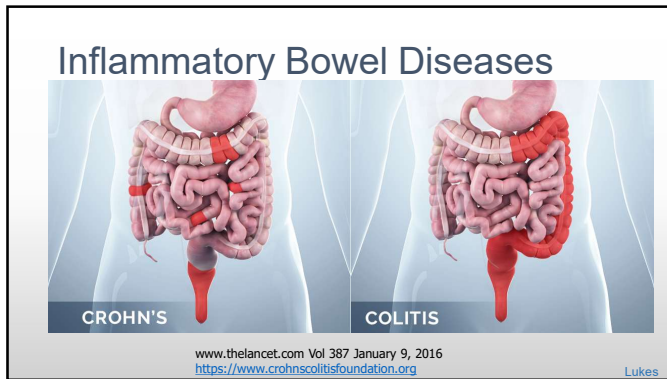
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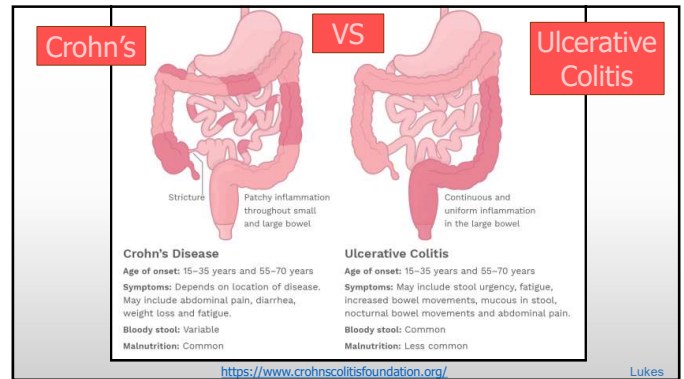
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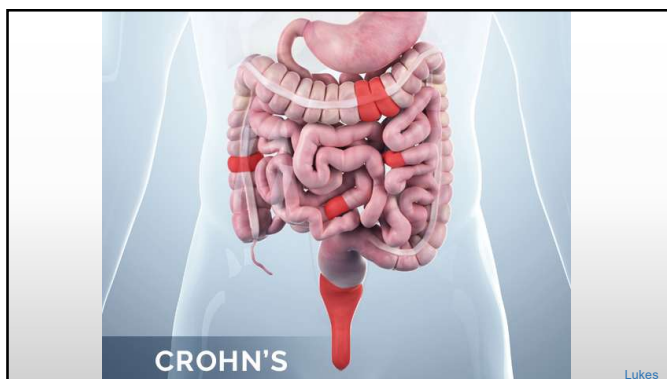
Key features	Crohn's disease	Ulcerative colitis
Histologic findings	Transmural inflammation, presence of granulomas	Mucosal and submucosal inflammation, polymorphonuclear cells aggregate
Endoscopic findings	Discontinuous lesions, strictures, linear ulcerations	Continuous lesions, presence of crypts, formation of residual mucosal tissue

Lukes

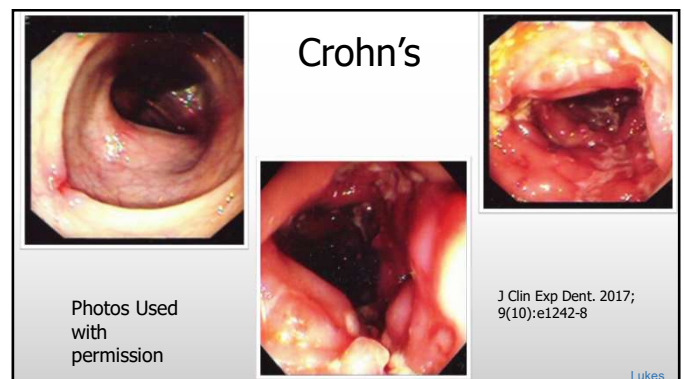
65



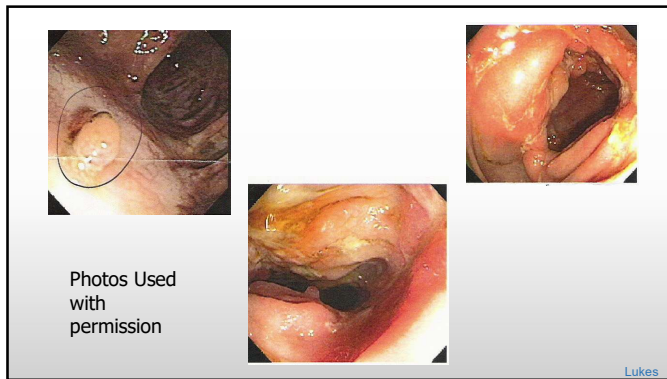
66



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68



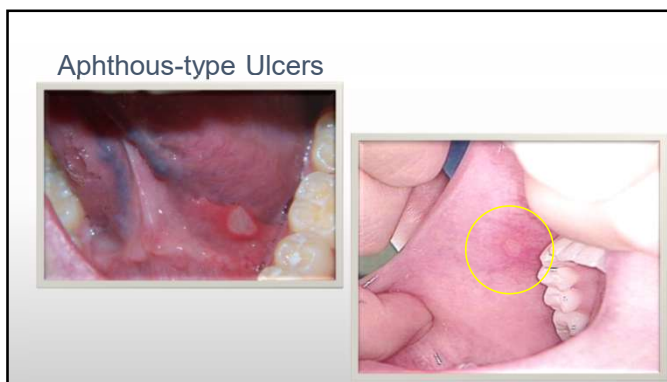
69

Oral lesions-Crohn's

- Aphthous type ulcerations
- Cobblestone mucosa
- Lip/facial swelling
- Orofacial granulomatosis
- Mucosal tags
- Xerostomia
- Angular cheilitis
- Glossitis

Aliment Pharmacol Ther 2003; 18: 949-962

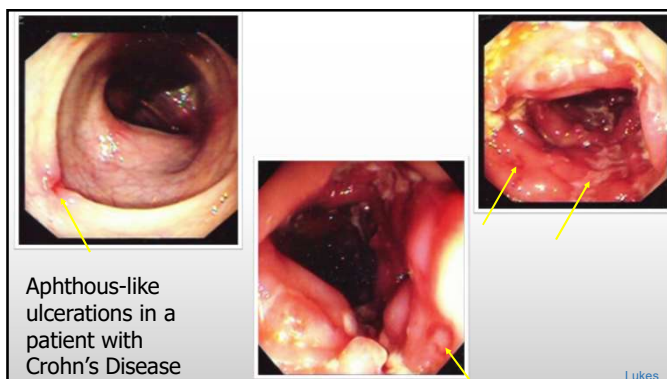
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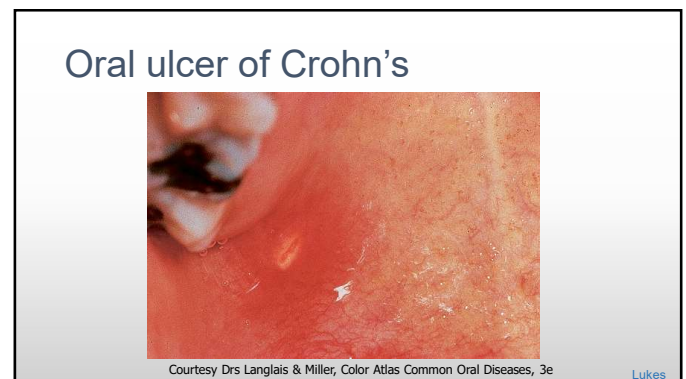
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Oral ulcer of Crohn's



wikipedia.org/wiki/Crohn

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Cobblestoning



Crohn's

Courtesy Drs Langlais & Miller, Color Atlas Common Oral Diseases, 3e



Inflammatory fibrous hyperplasia

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Facial and/or lip swelling



Courtesy Dr. Bicuspid.com. Used with permission.



Courtesy Drs Langlais & Miller, Color Atlas Common Oral Diseases, 3e

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Angular cheilitis



Courtesy Drs Langlais & Miller, Color Atlas Common Oral Diseases, 3e



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Xerostomia

Granulomatous inflammation of salivary glands

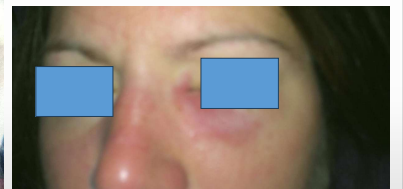
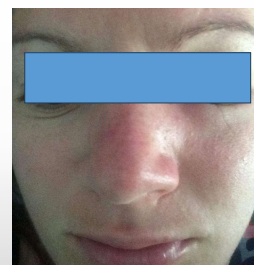
Medications



Pedersen A.M.L. (2015) Diseases Causing Oral Dryness. In: Carpenter G. (eds) Dry Mouth

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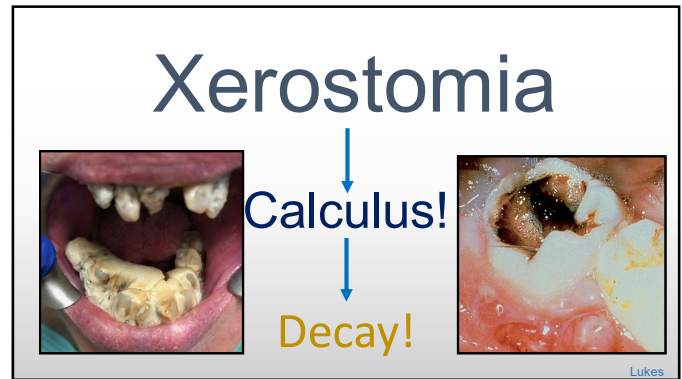
Photos, Used with permission

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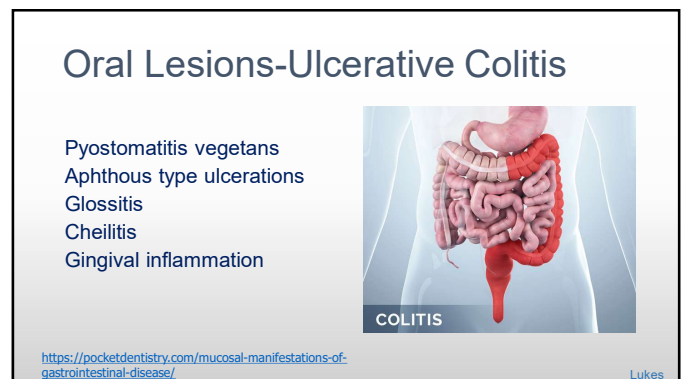
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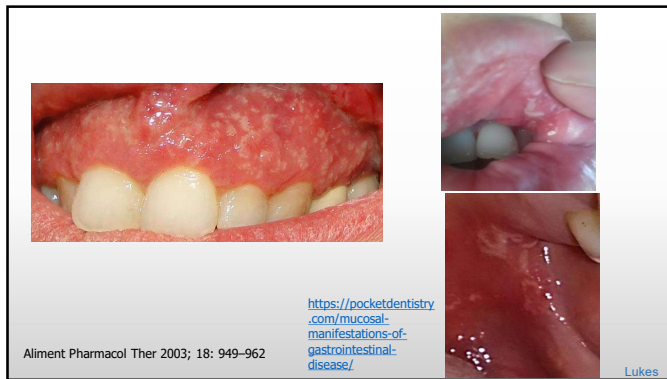
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88



89

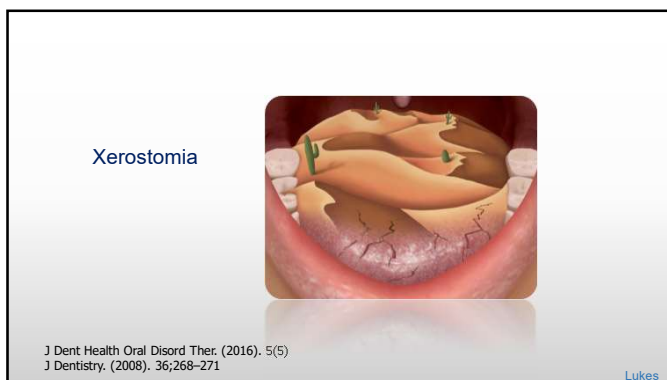
Treatment-oral lesions

Management of Systemic Condition
Topical steroid gels
OTC rinses/medicaments

CROHN'S COLITIS

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What is it?

- Autoimmune, genetic disorder
- 1% of US Population: at least 3 million Americans
- Undiagnosed CD ranges from 50-80%
- Early diagnosis reduces the risk of developing another autoimmune disorder
- No medication for tx
- Tx is gluten free diet

J. Clin. Med. **2023**, 12, 3874

Lukes

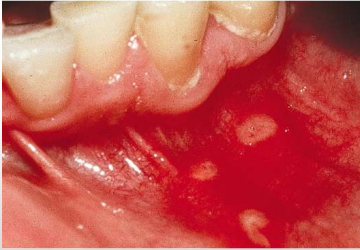
99

Food allergy	Food intolerance
Immune response to food protein	Difficulty digesting carbohydrate
Symptoms range from mild to severe	Signs and symptoms include gas, bloating, cramping, diarrhea
Minute amounts can cause life-threatening reaction	Small amounts are tolerated
Strict avoidance necessary	Avoidance is unnecessary

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Oral Manifestations-aphthous types ulcerations



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Enamel hypoplasia



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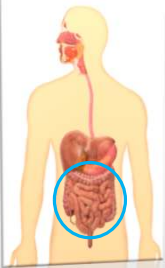


https://commons.wikimedia.org/wiki/File:Enamel_celiac.jpg

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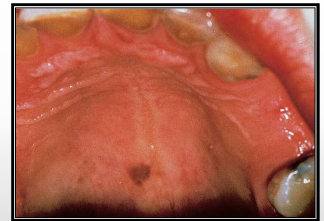
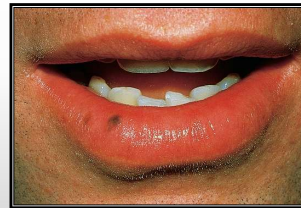
End to End Peutz Jegher's Syndrome



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Oral Melanotic Macule



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Hereditary Intestinal Polyposis



<https://emedicine.medscape.com/article/182006-overview>

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Peutz-Jegher's Syndrome

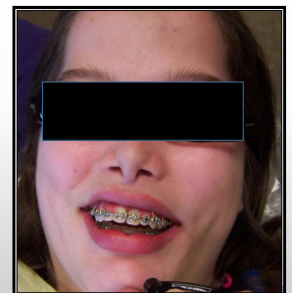
Etiology: hereditary

Perioral and intraoral pigmentation

Pigmentation on hands and feet

Risk of GI Adenocarcinoma or tumors of other organs

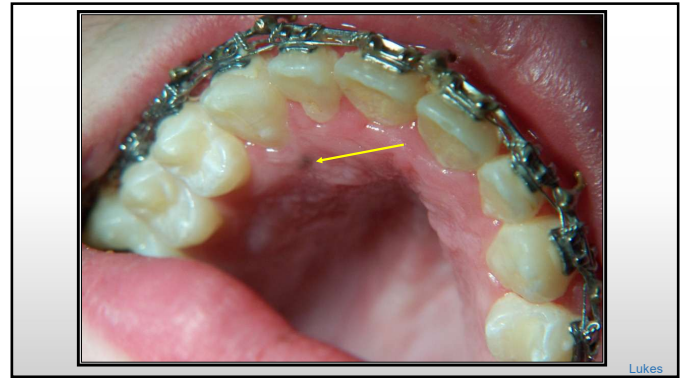
TX: Monitor polyps
(no tx pigmentation)



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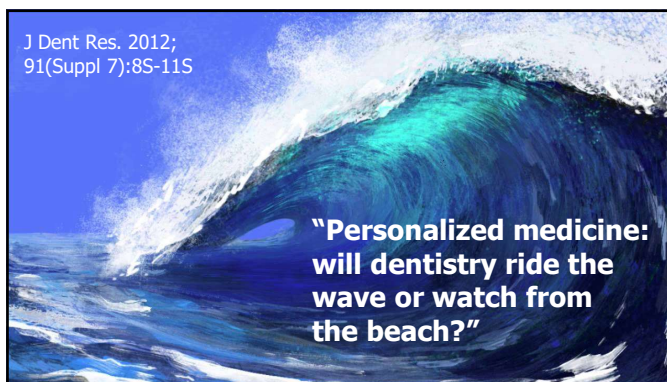
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A balanced microbiota is essential for oral health

Microbiota:
 The microorganisms that inhabit a particular environment, such as the skin, the mouth or the gastrointestinal tract, of an organism.

Probiotics:
 Live microorganisms that, when administered in adequate amounts, confer a health benefit on the host.

- All bacteria is not bad - it is important to have a balance of good and bad bacteria; killing all bacteria is not the answer
- Dysbiosis, or an imbalanced microbiota, can lead to inflammation & oral health issues
- Adding beneficial probiotic bacteria is a new frontier in dentistry

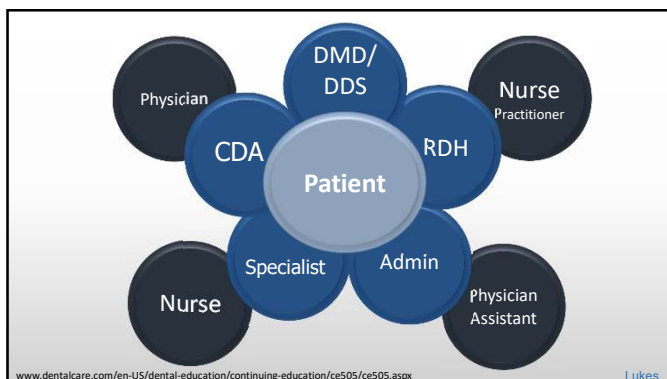
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Clinical studies have shown positive effects*

	GINGIVITIS	PERIODONTITIS	PERIMPLANTITIS	CARIES
PLAQUE INDEX	✓	✓	✓	
GINGIVAL INDEX	✓			
BLEEDING ON PROBING	✓	✓	✓	
PROBING POCKET DEPTH	✓	✓	✓	
MODIFIED BLEEDING INDEX			✓	
CLINICAL ATTACHMENT LEVEL	✓	✓		
VOLUME OF CREVICULAR FLUID	✓			
REDUCTION OF INFLAMMATORY CYTOKINES	✓	✓	✓	✓
INHIBITION OF PATHOGENIC BACTERIA	✓	✓	✓	✓
# OF SITES IN NEED OF SURGERY		✓	✓	
CARIES AND CARIES RISK				✓
REDUCTION OF: <i>S. MUTANS</i> ; <i>P. GINGIVALIS</i> ; <i>S. SOBRINUS</i>				✓

*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

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Approved provider through December 31, 2020

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