

Definition of classification

The systemic collection of data or knowledge and its arrangement in sequential manner in order to facilitate its understanding or knowledge.

Used for a variety of applications:

- Identification of the etiology and understanding of the pathology
- knowledge-based and decision support system
- statistical analysis of diseases and therapeutic actions
- direct surveillance of epidemic or pandemic outbreaks
- Predict treatment outcomes

Historical developement

- ➤ Until 1920: after clinical symptoms. Eg.: "Pyorrhoe alveolaris"
- From 1930 until 1970: classical pathology paradigm. Eg.: degenerative or destructive periodontal disease: "*Periodontosis*"
- > From 1980: infection-host response paradigm
- ➤ Modern classifications: combines every aspects

Clinical charasteristics paradigm

G.V. Black classification (1889):

- Constitutional gingivitis
- Painfull form of gingivitis
- Simple gingivitis
- Inflammation of the periodontal membrane due to calculus
- Suppurative pericementitis

Classical pathology paradigm

Gottlieb and Orban histopathological surveys

Orban classification (1942):

- 1. Inflammation
- 2. Degeneration (periodontosis)
- 3. Atrophy
- 4. Hypertrophia
- 5. Pathologic reaction produced by occlusal trauma

Infection-inflammatory respons principles

- Robert Koch (1876): Germ theory
- W.D. Miller (1880's): 3 factors are considered as ethiological factor: a, bacterias; b, local irritating factors; c, systemic predisposition
- Löe et al.: experimental gingivitis
- 1977-78: "host-parasite interactions" paradigms
- Page and Schroeder's classification

Infection-inflammatory respons principles

Classification of the World Workshop in Clinical Periodontics (modifications of Page and Schreoder's) 1989:

- Adult periodontitis
- II. Early onset periodontitis
 - 1. Prepubertal periodontitis
 - a. Generalised
 - b. Localised
 - **2.** Juvenile periodontitis
 - Generalised
 - 2. Localised
 - 3. Rapidly progrediating periodontitis
- III. Periodontitis associated with systemic diseases
- IV. Necrotising ulcerative periodontitis
- V. Refractory periodontitis

PREVIOUS CLASSIFICATION

- American Association of Periodontology (AAP)
- >Focuses:
 - Ethiology: dental plaque?
 - Localisation: gingiva or attaching apparatus
 - Ongoing disease: inactive or progressing
 - Background: local factors or systemic factors

International Workshop for a Classification of Periodontal Disease and Conditions

Ann Periodontol 1999; 4:1-7

CURRENT CLASSIFICATION

American Academy of Periodontology (AAP) and European Federation of Periodontology (EFP)

2017 Chicago:

A NEW CLASSIFICATION OF PERIODONTAL AND PERI-IMPLANT DISEASES AND CONDITIONS

Focuses (in addition to 1999's classification):

- Distinguish: healthy vs. diseased
- Includes peri-implant diseases and conditions
- Concern: severity, complexity and progression

G Caton J, Armitage G, Berglundh T, Chapple ILC, Jepsen S, S Kornman K, L Mealey B, Papapanou PN, Sanz M, S Tonetti M. A new classification scheme for periodontal and peri-implant diseases and conditions - Introduction and key changes from the 1999 classification. *J Clin Periodontol*. 2018 Jun;45 Suppl 20:S1-S8

A NEW CLASSIFICATION OF PERIODONTAL AND PERI-IMPLANT DISEASES AND CONDITIONS

Periodontal Health, Gingival Diseases and Conditions

- · Periodontal and Gingival Health
- · Gingivitis: Dental-Biofilm Induced
- · Gingival Diseases: Non-Dental Biofilm Induced

Periodontitis

- Necrotizing Periodontal Diseases
- Periodontitis
- · Periodontitis as a Manifestation of Systemic Disease

Other conditions Affecting the Periodontium

- Systemic Diseases or Conditions Affecting the Periodontal Supporting Tissues
- Periodontal Abscesses and Endo-Periodontal Lesions
- Mucogingival Deformities and Conditions
- Traumatic Occlusal Forces
- Tooth and Prosthesis Related Factors

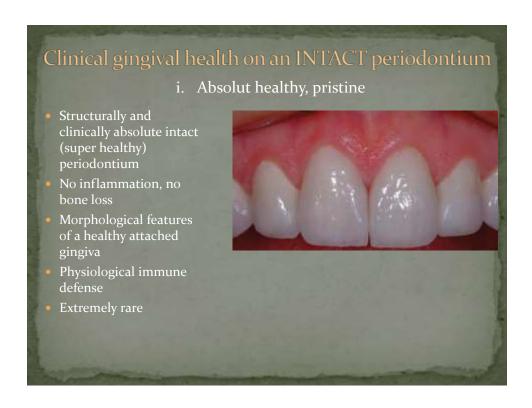
Peri-implant diseases and conditions

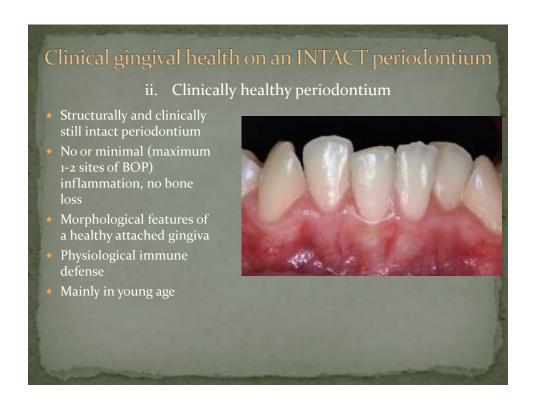
- · Peri-implant Health
- Peri-implant Mucositis
- · Peri-implantitis
- · Peri-implant Soft and hard Tissue Deficiencies

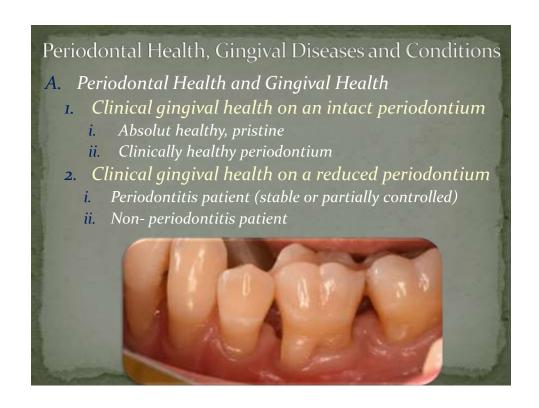
Periodontal Health, Gingival Diseases and Conditions

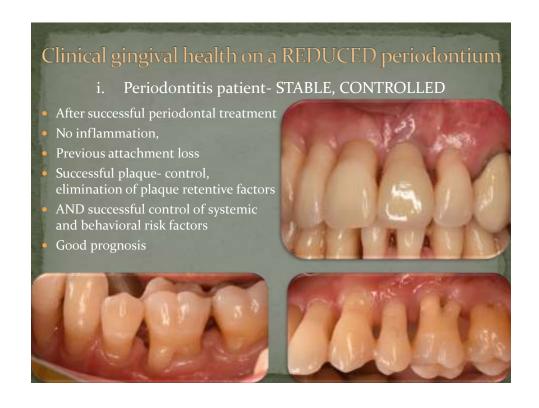
- 4. Periodontal Health and Gingival Health
 - 1. Clinical gingival health on an intact periodontium
 - 2. Clinical gingival health on a reduced periodontium
- B. Gingivitis- dental biofilm induced
 - 1. Associated with dental biofilm alone
 - **2.** Mediated by systemic or local risk factors
 - 3. Drug-influenced gingival enlargements
- C. Gingival diseases- non-dental biofilm induced
 - 1. Genetic/ developmental disorders
 - **2.** Specific infection
 - 3. Inflammatory and immune conditions
 - 4. Reactive processes
 - 5. Neoplasms
 - 6. Endocrine, nutritional & metabolic diseases
 - 7. Traumatic lesions (iatrogenic, accidental)
 - **8**. Gingival pigmentation

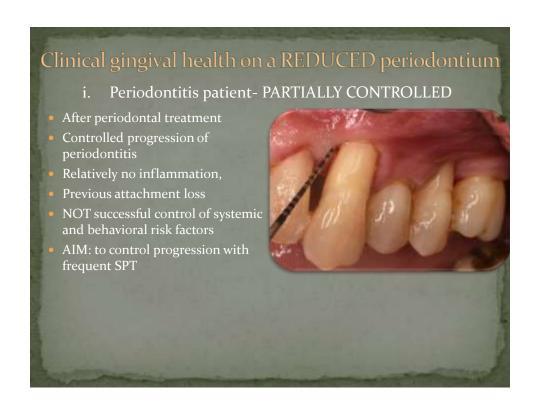
Periodontal Health, Gingival Diseases and Conditions A. Periodontal Health and Gingival Health 1. Clinical gingival health on an intact periodontium i. Absolut healthy, pristine ii. Clinically healthy periodontium 2. Clinical gingival health on a reduced periodontium i. Periodontitis patient (stable or partially controlled) ii. Non- periodontitis patient

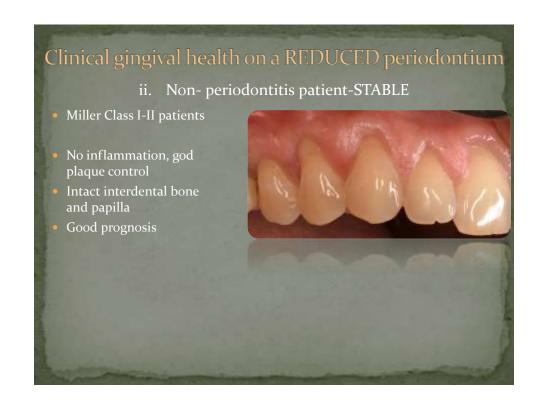








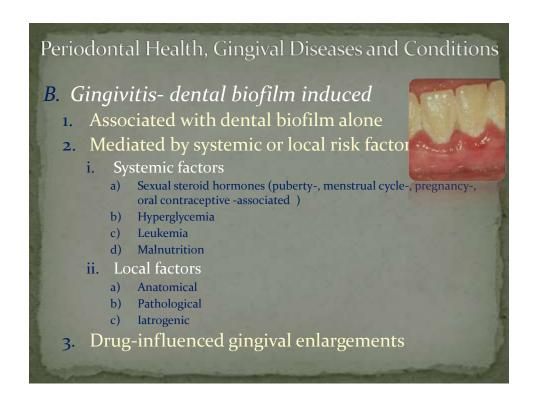




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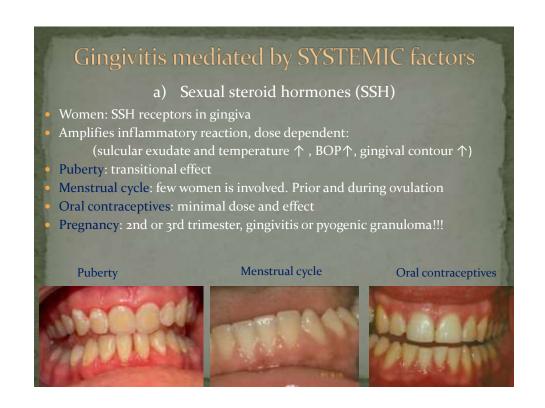
Caracteristic of gingivitis- dental biofilm induced 1. PLAQUE PRESENT AT GINGIVAL MARGIN 2. DISEASE BEGINS AT THE GINGIVAL MARGIN 3. CHANGE IN GINGIVAL COLOR RUBOR 4. CHANGE IN GINGIVAL CONTOUR TUMOR 5. SULCULAR TEMPERATURE CHANGE CALOR 6. INCREASED GINGIVAL EXUDATE DOLOR? 7. BLEEDING UPON PROVOCATION FUNCTIO LAESA 8. ABSENCE OF ATTACHMENT LOSS 9. ABSENCE OF BONE LOSS 10. HISTOLOGICAL CHANGES 11. REVERSIBLE WITH PLAQUE REMOVAL



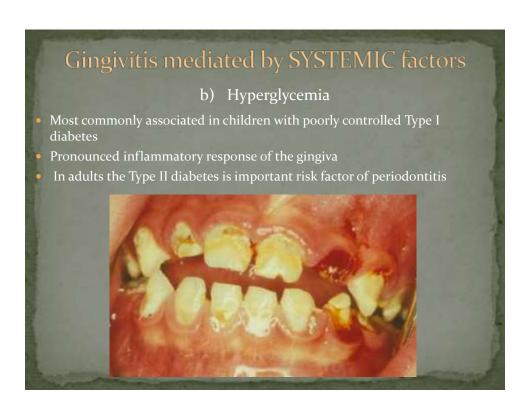


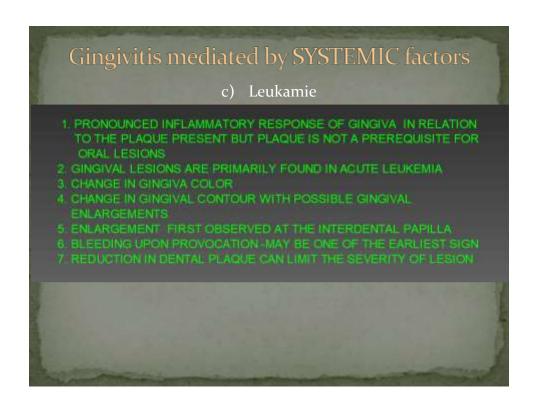
Periodontal Health, Gingival Diseases and Conditions B. Gingivitis- dental biofilm induced 1. Associated with dental biofilm alone 2. Mediated by systemic or local risk factors i. Systemic factors a) Sexual steroid hormones (puberty-, menstrual cycle-, pregnancy-, oral contraceptive -associated)

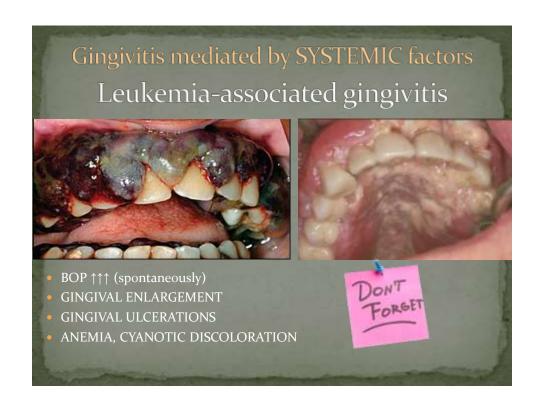
- b) Hyperglycemia
- c) Leukemia
- d) Malnutrition
- ii. Local factors
 - a) Anatomical
 - b) Pathological
 - c) latrogenic
- 3. Drug-influenced gingival enlargements



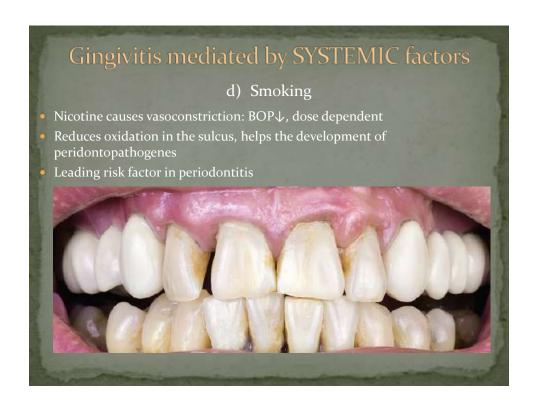








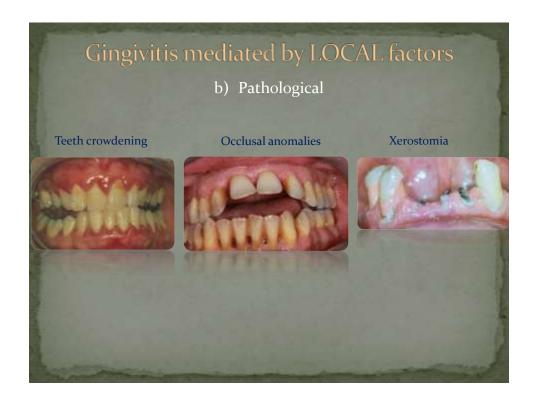


























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