











Periodontal abscess classification

AAP 1999 (location)

- Gingival abscess
- Periodontal abscess
- Pericoronal abscess

AAP/EFP 2018 (Etiology)

Gingival abscess + Periodontal abscess

= periodontal abscess















PERIODONTAL ABSCESS

ETIOLOGICAL FACTORS

PERIODONTITS PATIENTS

- Acute infection from bacteria in subgingival biofilm in periodontal pocket
- Pre-existing periodontal pocket
 - Marginal closure of deep periodontal pocket
 - Deep tortuous pocket
 - Furcation involvement
- · Bacteria virulence
- Decrease host defense

NON-PERIODONTITS PATIENTS

- Acute infection from bacteria coming from another local source
- Previously non-diseased sites
 - Foreign body impaction
 - Alterations of root surface

AAP/EFP 2018









PERIODONTAL ABSCESS IN PERIODONTITS PATIENTS

· Acute exacerbation

- · Untreated periodontitis
- · Non-responsive to therapy periodontitis
- Supportive periodontal therpy

After treatment

- · Scaling and root planing
 - : dislodge calculus fragments could be pushed into tissue
 - : remaining calculus in deep pocket area
- Surgical periodontal therapy
 - presence of foreign bodies such as menbrane, sutures, piece of periodontal pack
- · Systemic antibiotic
 - : without appropriate subgingival debridement
 - : probably related to overgrowth of opportunistic bacteria
- · Other drug: Nifedipine









PERIODONTAL ABSCESS IN NON-PERIODONTITS PATIENTS

- · Impaction of foreign bodies
 - Dental floss, tooth pick or popcorn hulls
 - Orthodontic elastic, rubber dam
- · Harmful habits
 - Wire or nail biting and clenching
- Orthodontic factors
 - Inadequate orthodontic forces
 - Crossbite
- Gingival enlargement

Alterations of the root surface

- Severe anatomical alterations
 - : invaginated tooth , dens evaginatus
- Minor anatomical alteration
 - : enamel pearl , developmental groove
- latrogenic conditions
 - : Perforations
- Severe root damage.
 - : Fissure or fracture , crack tooth syndrome
- External root resorption







Differential diagnosis

- Other odontogenic abscess
 - Dento-alveolar abscess
 - Pericoronitis
 - Endo-perio abscess
- Tumor lesions
- Abscess after surgical procedure









	Periodontal Abscess	Pulpal Abscess
History	Periodontal disease Periodontal treatment Previous antibiotic therapy	Caries , Fracture , Tooth wear Restorative treatment Endodontic treatment
Clinical findings	Swelling usually includes gingival tissue, with an occasional fistula Pain is usually dull and localized. Vital pulp Board wide pocket	Swelling is often localized to the apex, with a fistulous tract Pain is often severe Nonvital pulp Deep narrow pocket
Radiographic findings	Alveolar crestal bone loss Angular bone loss Furcation involvement	Apical radiolucency Endodontic or post perforation









Management

Immediate management

• Space infection

Initial management

- pain relief
- control the spread of infection
- establish drainage

Definitive therapy

Restored function and esthetic







Initial management

- Drainage **
- Debridement (Scaling and Root planing)
- Systemic antibiotics
- Tooth removal hopeless







Drainage



Anesthesia

- Delayed onset
- Nerve block
- LA at uninfected tissue



<u>Drainage</u>

- Through the pocket
- Through incision







Debridement



- Remove foreign bodies
- Subgingival calculus
- Granulation tissue



Periodontal surgery

- Large residual lesion
- Poorly accessible
- Remove remaining calculus





Antibiotic therapy



- Cellulitis
- Fever
- Regional lymphadenopathy
- Immunocompromised status
- Deep inaccessible pocket

Antibiotic of choice

"High-dose short-course"

Amoxicillin

• 1g loading dose, 500 mg t.i.d. For 3 days

Allergy to **B-lactam drugs Clindamycin**

600 mg loading dose, 300 mg q.i.d. for 3 days

Azithromycin (or Clarithromycin)

1g loading dose, 500 mg q.i.d. for 3 days







Extraction

Hopeless prognosis

- Bone support <25%
- PD > 6mm
- Second to third degree mobility
- Furcation involvement III

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