This decision support tool is effective as of October 2016. For more information or to provide feedback on this or any other decision support tool, email certifiedpractice@crnbc.ca

ADULT DENTAL ABSCESS

DEFINITION
Infection of the soft tissue surrounding a tooth or gum.

Potential Causes
Progressive dental decay causing pulpitis from gram-positive anaerobes and Bacteroides, Streptococcus viridans

Predisposing Risk Factors
- Dental caries
- Poor dental hygiene
- Dental trauma

Typical Findings of Dental Abscess

History
- Localized, constant, deep, throbbing pain
- Pain worsens with mastication or exposure to extreme temperatures
- Tooth may be mobile
- Gingival or facial swelling and tenderness (or both) may be present
- Fever (rare but possible)

Physical Assessment
- Facial swelling may be present
- Carious tooth
- Tooth tender when tapped
- Gingival edema and erythema
- Tooth may be loose
- Anterior cervical nodes enlarged and tender
- Breath odour
- Fever

Diagnostic Tests
- If uncomplicated, none

CRNBC monitors and revises the CRNBC certified practice decision support tools (DSTs) every two years and as necessary based on best practices. The information provided in the DSTs is considered current as of the date of publication. CRNBC-certified nurses (RN(C)s are responsible for ensuring they refer to the most current DSTs.

The DSTs are not intended to replace the RN(C)s professional responsibility to exercise independent clinical judgment and use evidence to support competent, ethical care. The RN(C) must consult with or refer to a physician or nurse practitioner as appropriate, or whenever a course of action deviates from the DST.

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MANAGEMENT AND INTERVENTIONS

Goals of Treatment
- Relieve symptoms
- Prevent spread of infection

Non Pharmacologic Interventions
- Warm saline rinses (1 tsp in 1 cup of warm water) qid
- Ice pack wrapped in a towel against the cheek to reduce pain and swelling

PHARMA COLOGIC INTERVENTIONS

- Analgesics for mild to moderate pain:
  - Acetaminophen 325mg, 1-2 tabs po q4-6h prn, or
  - Ibuprofen 200mg, 1-2 tabs po q4-6h prn

- Oral antibiotic therapy:
  - Penicillin VK 300mg, 1-2 tabs po qid for 7 days
  - Amoxicillin 500mg, po bid or tid for 5 days

- For clients with penicillin allergy:
  - Clindamycin 150-300 mg, po qid for 7 days

Note: Clindamycin can cause pseudomembranous colitis with diarrhea, severe abdominal cramps and blood or mucous in the stool. Do not use if there is a history of gastrointestinal disease. Clients must be advised to seek medical attention immediately if they experience persistent diarrhea, stomach pain or cramping, or notice blood or mucous in the stool during and following treatment with clindamycin.

Pregnant and Breastfeeding Women
- Acetaminophen, Penicillin VK and Clindamycin may be used as listed above
- Do not use Ibuprofen

Potential Complications
- Cellulitis
- Recurrent abscess formation
- Systemic infection
- Osteomyelitis
- Sepsis
Client Education and Discharge Information
- Counsel client about appropriate use of medications (dosage and side effects)
- Recommend dietary modifications as indicated – limit consumption of sugary drinks
- Recommend dental hygiene or improvement to dental hygiene
- Make dental appointment

Consultation and/or Referral
- Consult a physician or nurse practitioner if a large fluctuant abscess is present
- Refer if client is acutely ill, if the infection has spread to the soft tissues of the neck, or if there is no response in 48-72 hours
- Refer immediately if facial swelling beyond midline or client has intractable pain
- Refer to a dentist for definitive therapy

Monitoring and Follow-Up
Follow up in 48-72 hours

Documentation
As per agency policy
REFERENCES

More recent editions of any of the items in the Reference List may have been published since this DST was published. If you have a newer version, please use it.


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