Oro-Antral Fistulae

Oro-antral fistula represent a surgical challenge

• • • Etiology

- Extraction & instrumentation around upper teeth
- Facial trauma
- Infection as osteomyelitis and syphilitic gumma
- Surgery in the upper jaw
 - Large cysts
 - Tumors
 - Facial fracture
- Bizarre causes

Signs & Symptoms of OAF

o Recent OAF

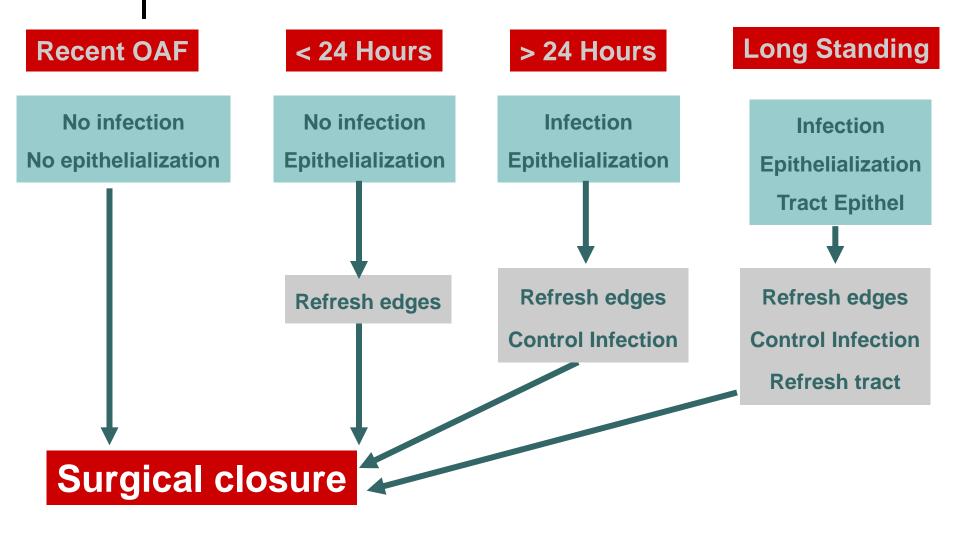
- Regurgitation of fluid from the nose
- Inability to blow out the cheek
- Unilateral nasal epistaxis
- Alteration in vocal sounds
- When small test for communication
 - Nose blowing test
 - Silver probe
 - Suction test



o Late (Old) OAF

- Unilateral nasal discharge
- Bad taste and smell
- Acute or chronic sinusitis
- Sinus polyps
- Plowing test produce pus

Management of OAF



Surgical Closure of OAF

o Success

- Control infection
- Good designed flap
- Good suturing
- Good drainage

o Failure

- Infection
- Suturing under tension
- Inadequate edge refreshment
- Depletating conditions

o Requirement of Flap

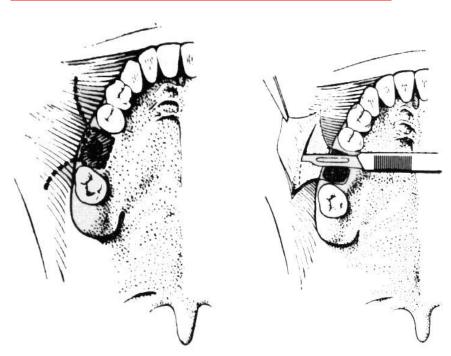
- Good blood supply
- Cover defect without tension
- Suture line on sound bone
- Adjacent teeth covered by bone

o Post-operative Care

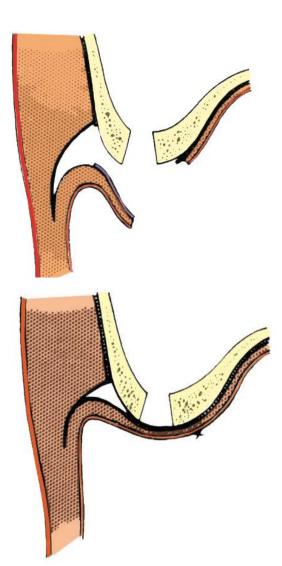
- No smoking
- No nose blowing
- Antibiotics & analgesics
- Nasal antrostomy

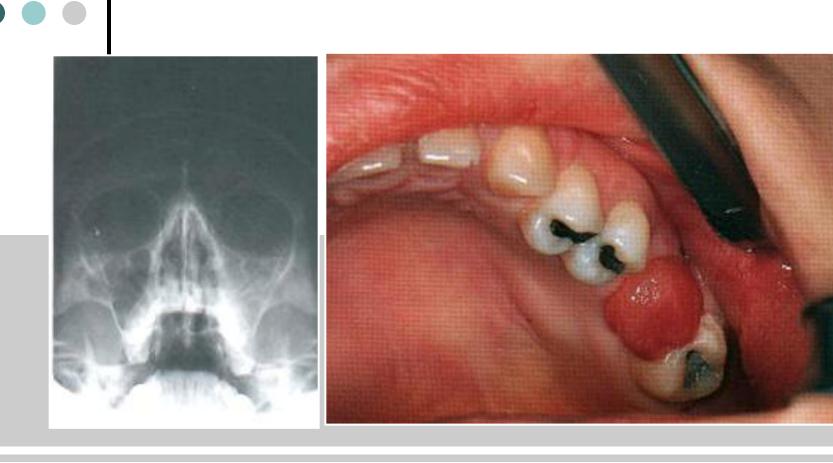
Surgical Techniques for Closure of OAF

1. Buccal Advancement Flap



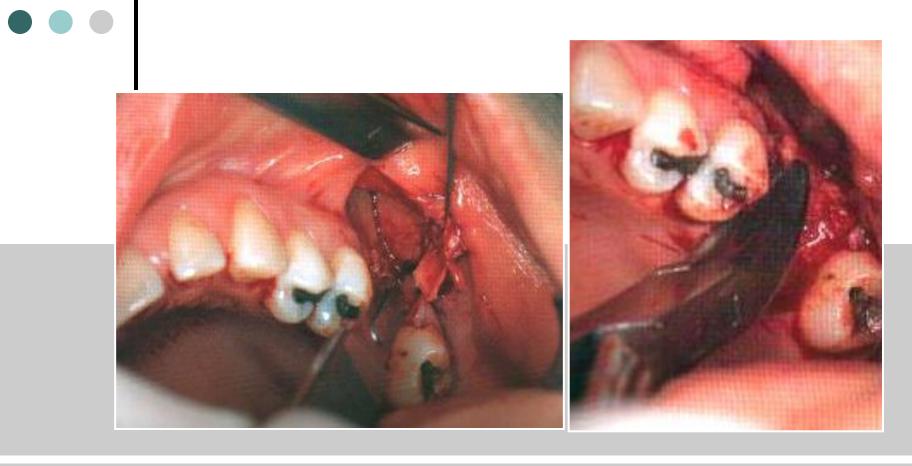
- Suitable for patients with partial dentures the fit of which may be affected by palatal flap
- May cause obliteration of the buccal sulcus





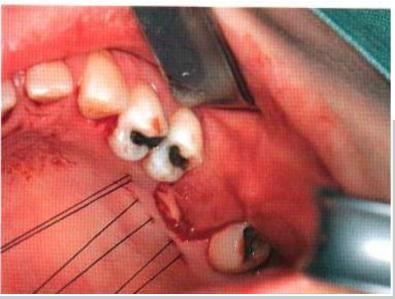








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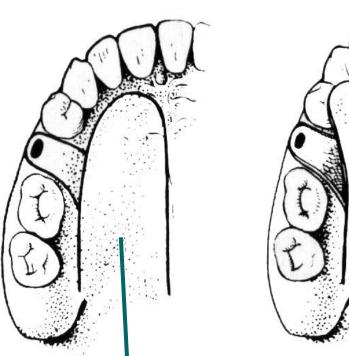




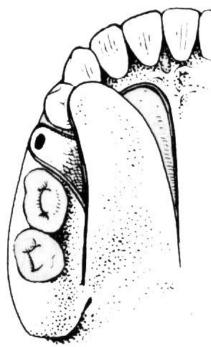
• • • Factors which Complicate Closure of OAF

- Duration of the OAF
- When the root of the adjacent tooth form a wall of the fistula
- Size of the bony defect
- The presence of infection

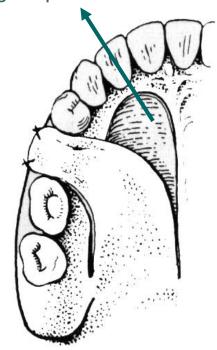
2. Palatal Pedicle Flap



Palatal mucosa is thicker, firmer and has better blood supply

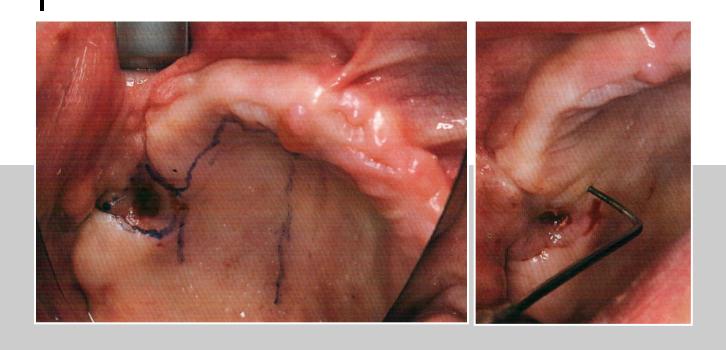


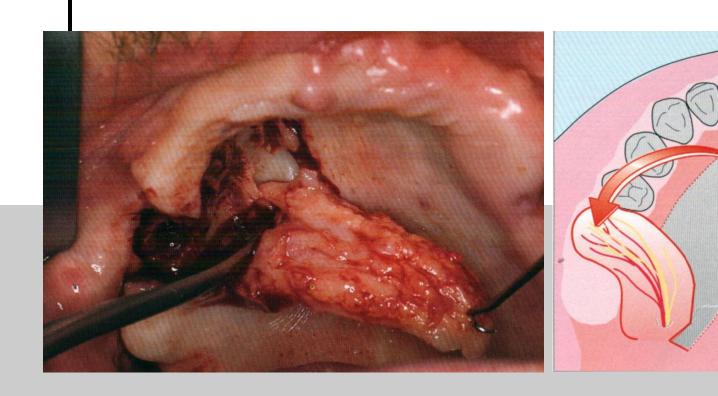
Raw palatal area covered by surgical pack

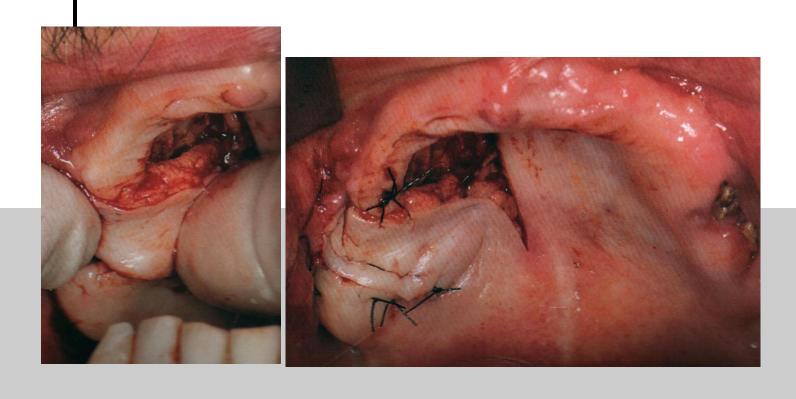


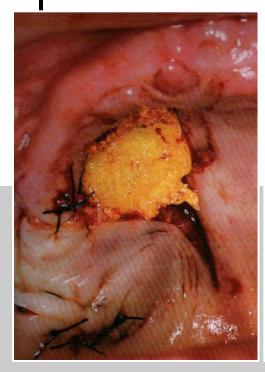
Some deformities in the palatal mucosa may occur

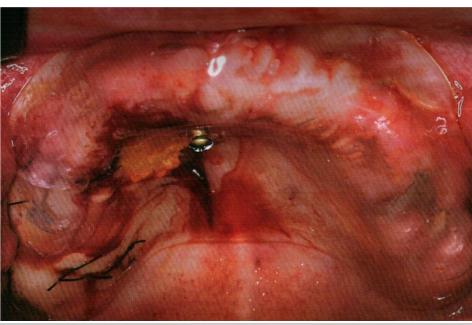


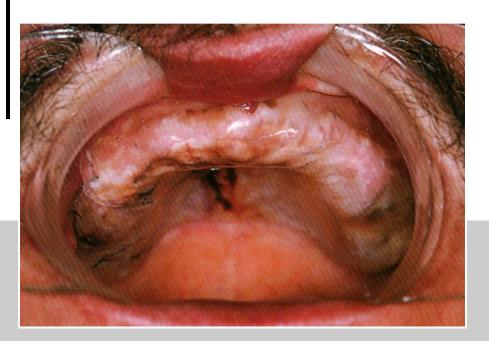












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