Oral and maxillofacial surgery II.

Anaesthesia Suture

Pain control - anaesthesia Indications

Surgical treatment

Also for:

Preparation of cavities

Preparation for crowns

Endodontic treatment

Principles of anaesthesia

Blocking of transfer of excitation on nerve fibers

Eletric potential of nerve fibers

Excitaion goes through depolarization – repolarization

Perception of pain is stopped

Anaesthesia

- General anaesthesia
- Analgesia (inhalation, sedation)
- Hypnosis
- Local anaesthesia

Drugs

- Articain 4% with epinephrine 1: 200 000
- Articain 4% with epinephrin 1:100 000
- Mepivacain 3%plain
- Prilocaine 4% with epinephrine 1:200 000
- Prilocaine plain
- Lidocain spray 10%
- Xylocain spray 10%

Benefits of local anaesthesia

Comfort for the patient

 Haemostasis (addtion of epinephrin – hormone of suprarenal gland – arteficial)

Operator efficiency

Anaesthesia

Topical (spray,liquid) applied on mucosa By injection

- Infiltration
- Nerve block
- Intraligamentar
- Intrapulpal anaesthesia

Contraindications

Allergy

Serious systemic diseases (blood circulation)

Antithrombotic therapy, coagulopathy – nerve blocked anaesthesia

Infiltration

The drug is delivered by infiltration of soft tissues using syringe and needle.

Infiltration anaesthesia

Suitable for - indications

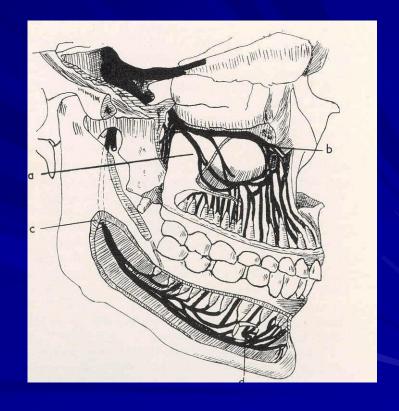
- simple extractions in maxilla, mandibular incisors, canines
- soft tissue surgery

Infiltration

- Syringe
- Short needle

Raise lip or cheek
The puncture is situated into mucosa appr.
1cm from fornix vestibuli. Do not touch
periosteum.

- > Foramen mandibulare
- > Foramen mentale
- Foramen palatinum majus
- > Foramen incisivum
- > Foramen infraorbitale
- > Tuber maxillae

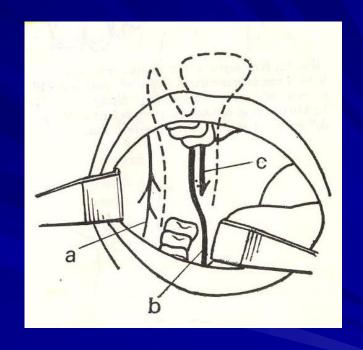


N. alveolaris inferior

Foramen mandibulare

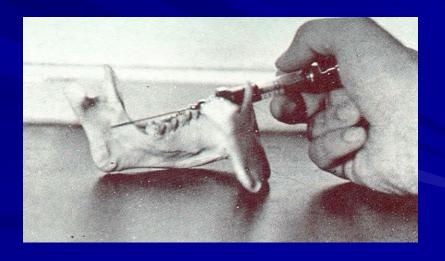


N. Alveolaris inferior N. lingualis



Nervus alveolaris inferior

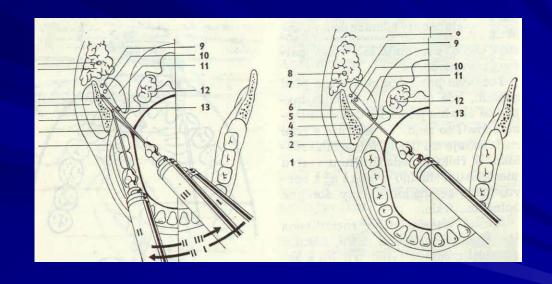
In sulcus colli mandibulae



N. alveolaris inferior

Indirect

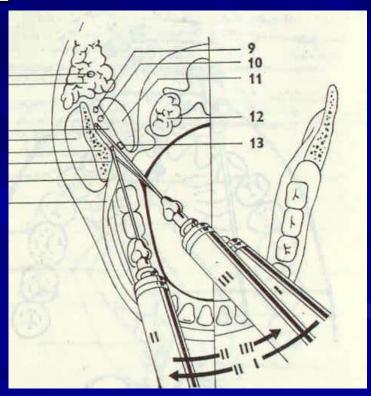
Direct



N. alveolaris inferior

Indirect

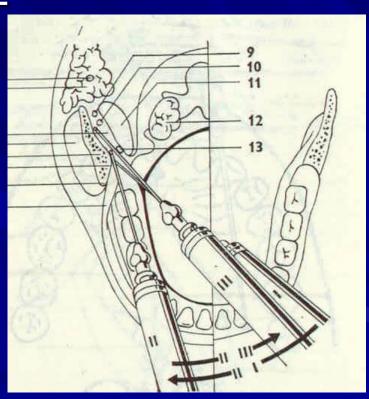
Put the forefinger on the occlusal surface Rotate inside (nail inside) 1 cm up occlusal surface the puncture is situated



N. alveolaris inferior

Indirect

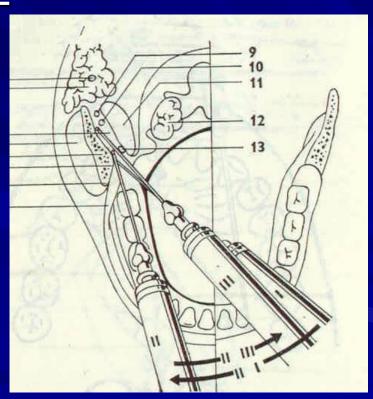
1. The needle goes behind the crista temporalis, the syringe on the opposite canine



N. alveolaris inferior

Indirect

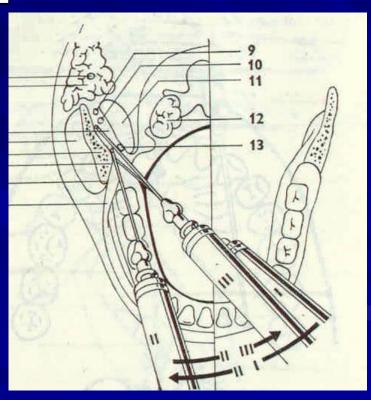
2. The needle goes deeper in the contact with the bone The syringe goes mesial



N. alveolaris inferior

Indirect

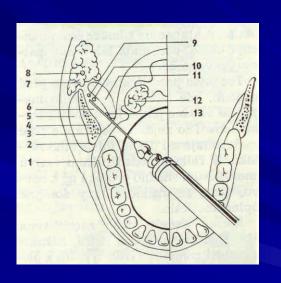
3. The contact with bone Is lost, the syringe goes back



N. alveolaris inferior

Direct

Put the forefinger on the occlusal surface Rotate inside (nail inside)



1,5 cm deep

N. alveolaris inferior

Area blocked

Molars Premolars Tongue

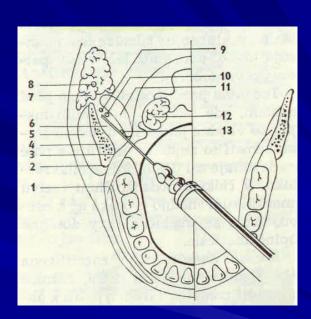
N. alveolaris inferior

Direct

- The puncture at the same place
- The syringe on opposite premolars
- ➤ The puncture goes into the small pink depression medial from crista temporalis and lateral from plica prerygomandibularis

1,5 cm deep

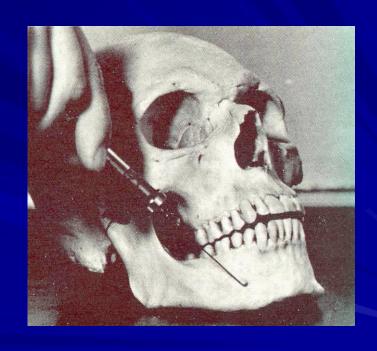
Molars, premolars, mucosa, skin, bone



N. mentalis

F. mentale

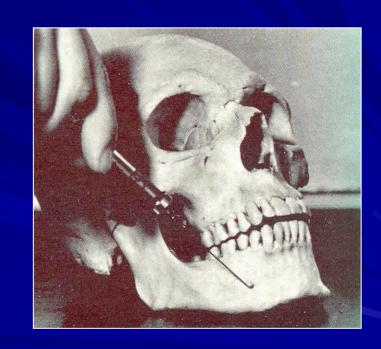
The puncture is situated behind he distal surface of 2nd premolar The needle goes between roots of premolars



N. mentalis

F. mentale

The puncture is situated behind the distal surface of 2nd premolar. The needle goes between roots of premolars, From up to down Forward and mesial



Premolars and canine, mucosa, skin.

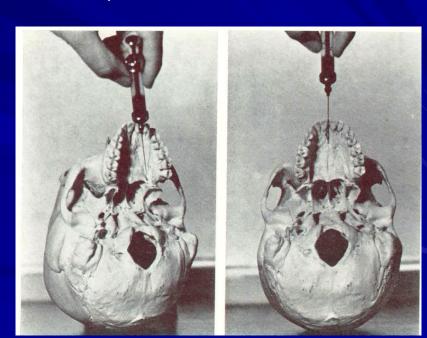
Foramen palatinum majus

Distal surface of l.st molar

The puncture is

0,5-1 cm before

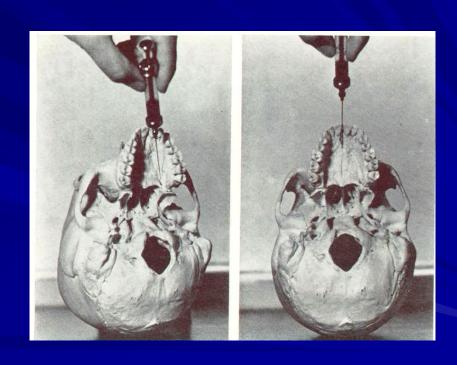
Half of palate



Foramen incisivum

Nervus incisivus Papilla incisiva Next tu papilla, mesial direction

Triangular area behind incisors



Anaesthesia on f. infraorbitale

- Find the margo infraorbitalis
- Raise the lip
- The puncture is sitruated between canine and 1st premolar
- The needle goes to the region (appr 1 cm below margo infraorbitalis)

Anaesthesia on tuber maxillae

- The durg si delivered on tuber maxillae
- Tje puncture is situated behind 2nd molar (distal surface), goes behind and upper around tuber maxillae.

Intraligamentar

- Special syringe (pen or gun)
- The needle is introduced into periodontal space – few drops on anaesthetic

Indication: single extraction, preparation, pulp exstirpation





Intrapulpal

Exstirpation of the pulp – additional step.

Anaesthesia - complications

Bleeding

Breakage og needle

Heamatoma

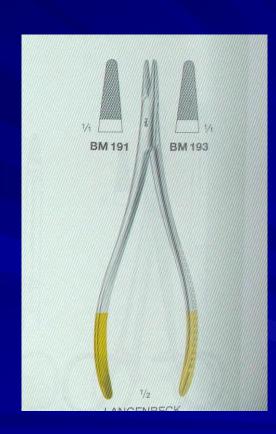
Allergy (swelling, collaps)

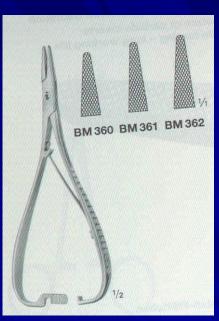
Patient's history is needed !!!

Suture

Suture material Silk,nylon Needels

- bent, rounded
- straightNeedle holders
- autofix
- -without fixation

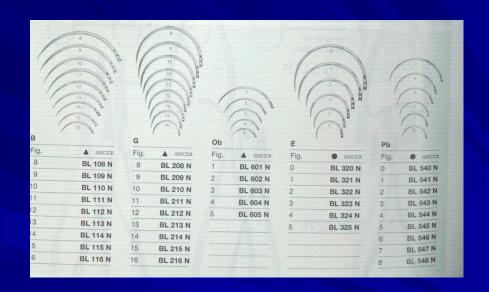




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Tweerers – tissue forceps

