### Surgical treatment of non-erupted third molars

#### Semmelweis University, Budapest Department of Oral, Dental and Maxillofacial Surgery

The points of local analgesia, at the removal of third molars

- Vasoconstrictor containing anaesthetic solution
- Anaesthetic solution with long duration
- Nerve block, and infiltration as well

# Possible difficulties with local analgesia of third molars

- Inflammation
- Limited mouth opening /trismus/
- Prolonged surgical interventions





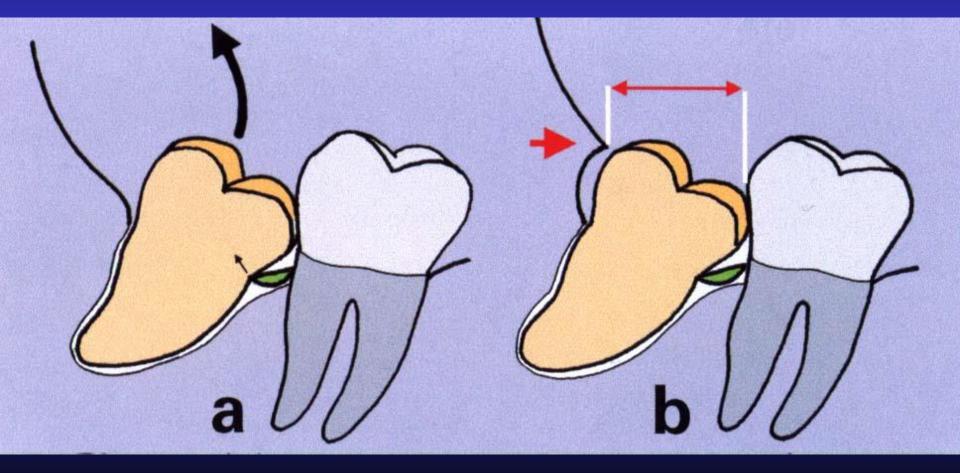








### Possible removal of mandibular third molar with elevator



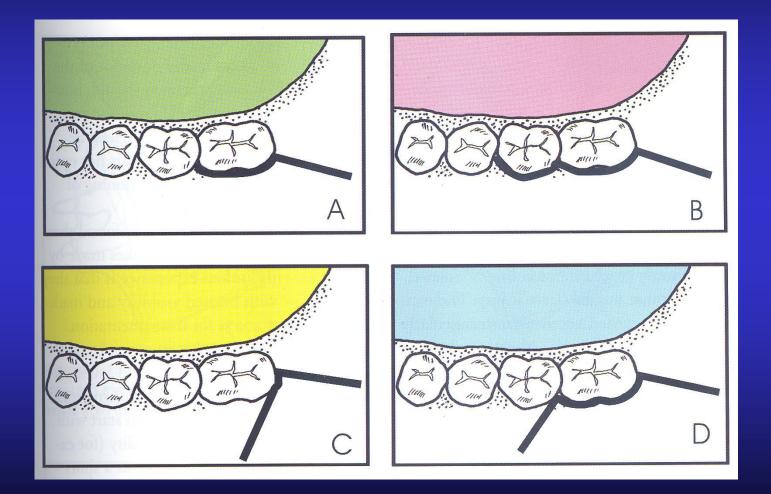




The usual surgical steps for removal of mandibular third molars

#### • Flap design

#### **Mucoperiosteal flap for surgical access of mandibular third molar**



The usual surgical steps for removal of mandibular third molars

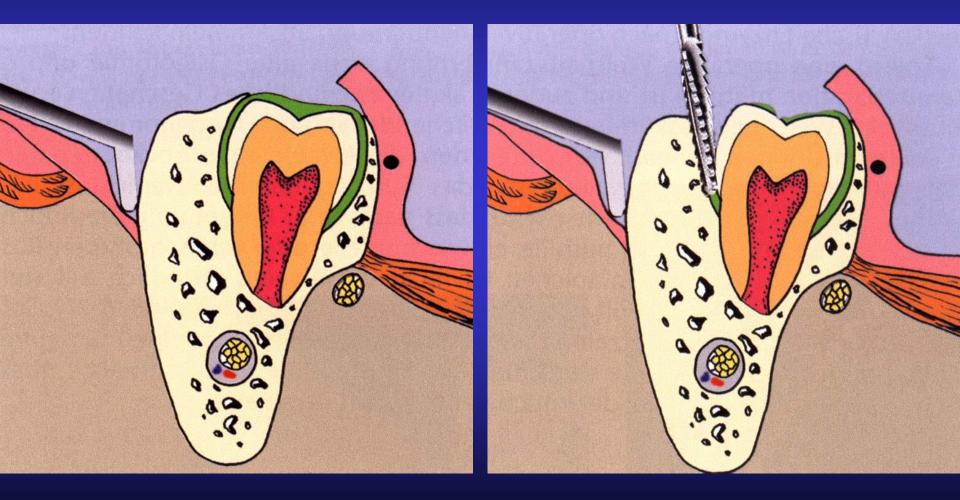
• Flap design

# • Liberation of the crown from the bone

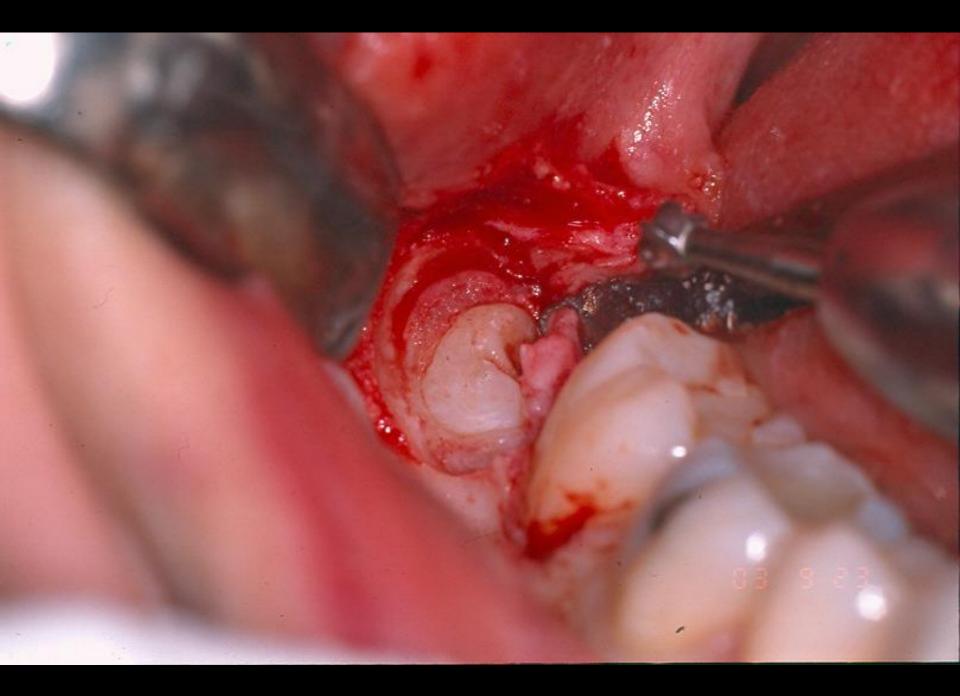
## Bone removal by round bur over the third molar



### Bone removal around the crown of third molar by fissure bur



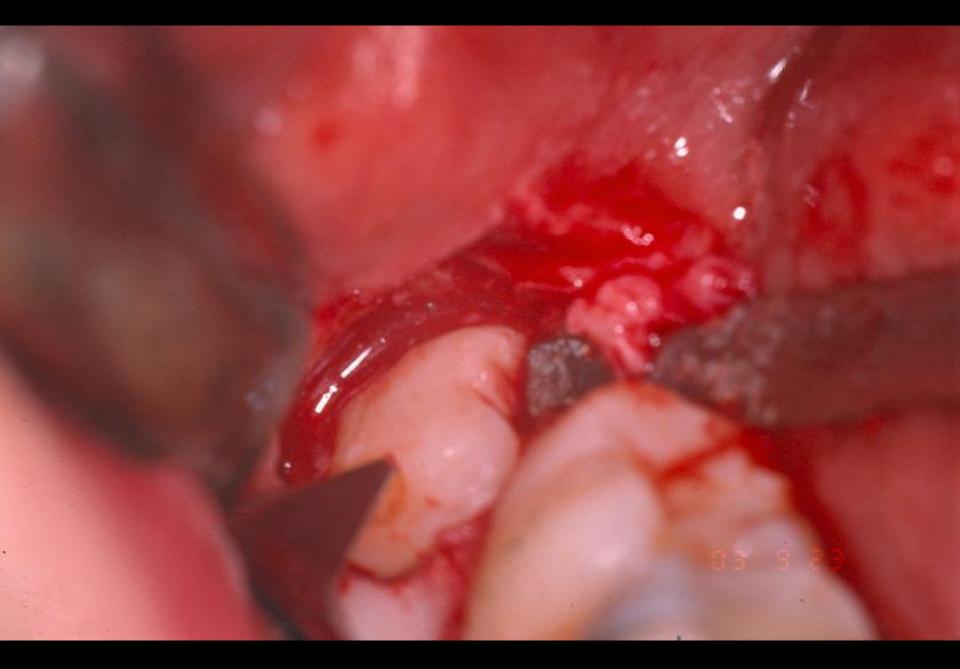


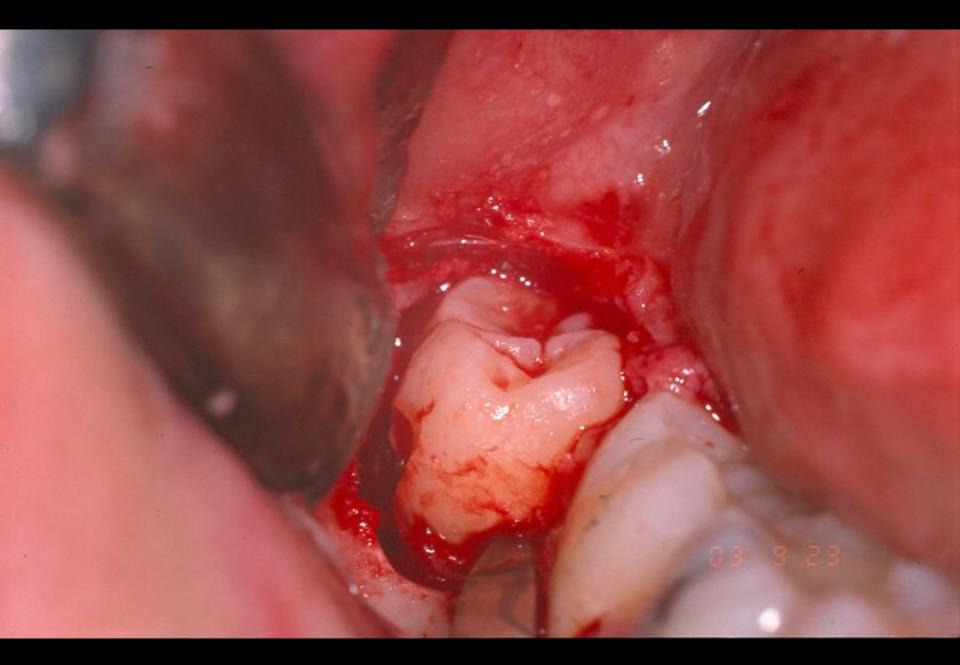


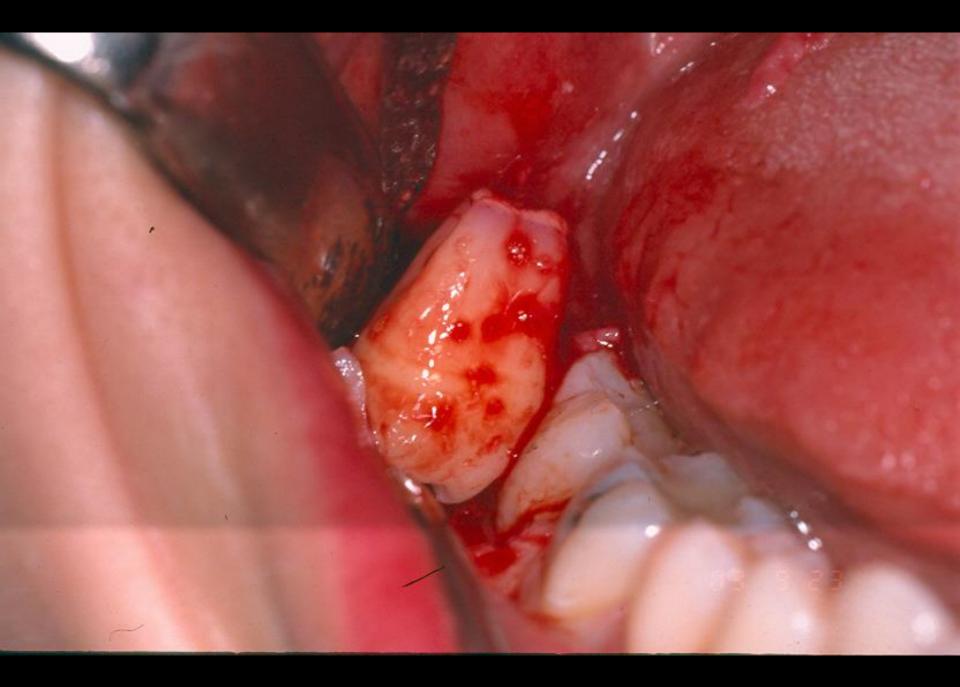
# The usual surgical steps for removal of mandibular third molars

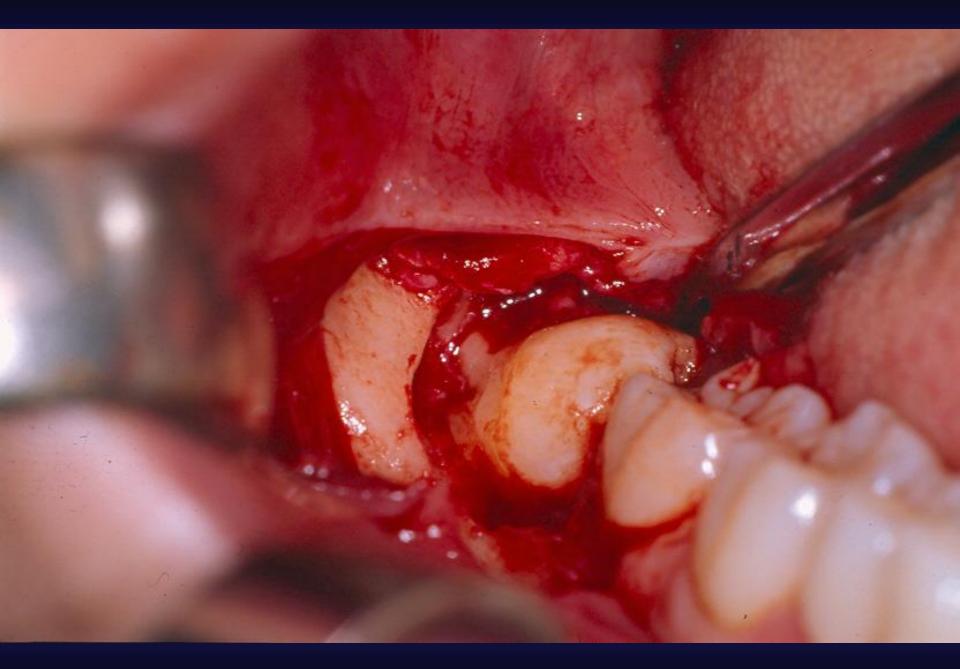
- Flap design
- Liberation of the crown from the bone

#### Tooth removal: with forceps with elevator with dissection











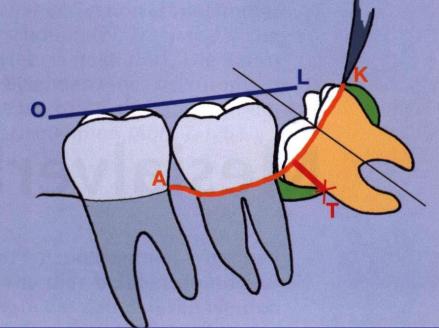




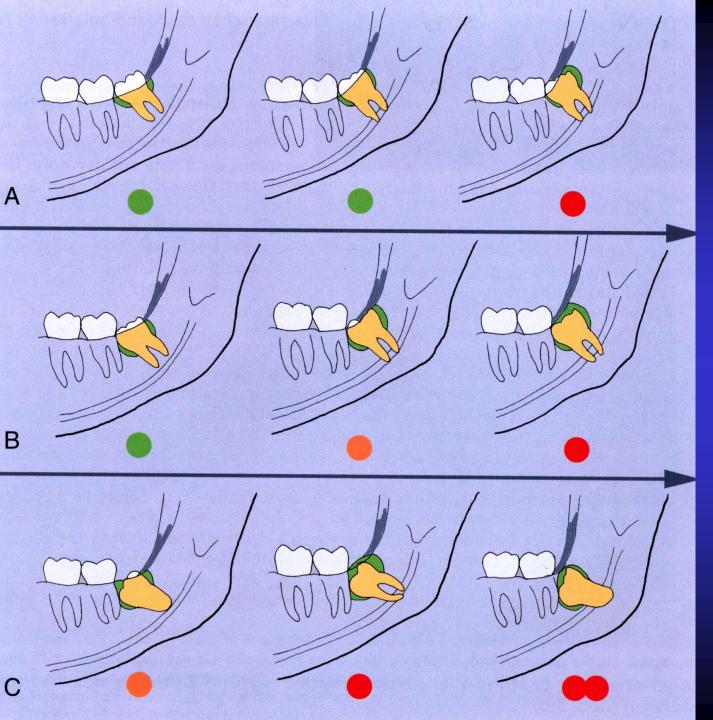
The surgical know-how of removal of third molars in different types of impaction

# Schematic illustration of the evaluation of the OP pictures





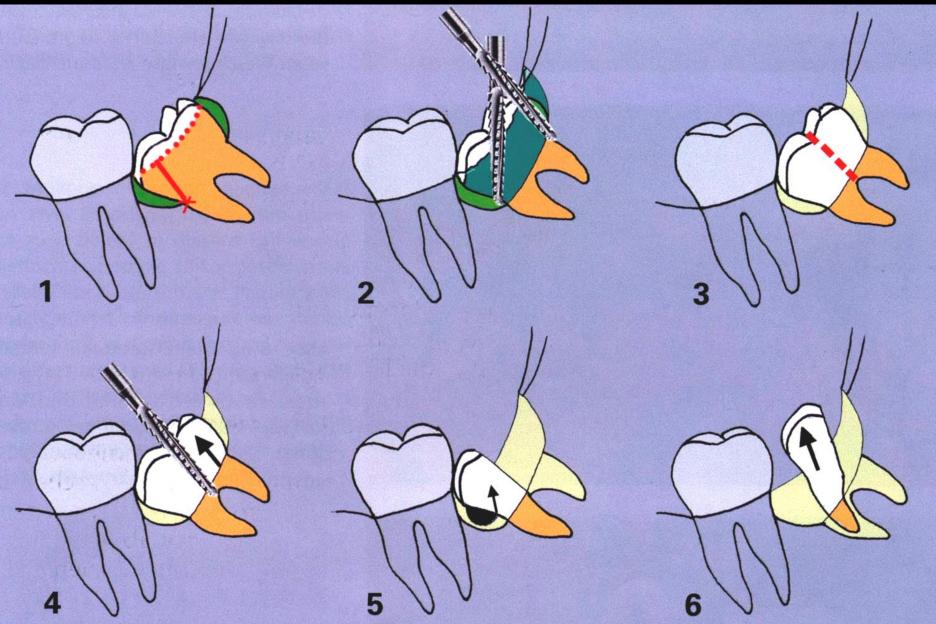
O L = occlusion line A K = depth of retention T = cemento-enamel junction

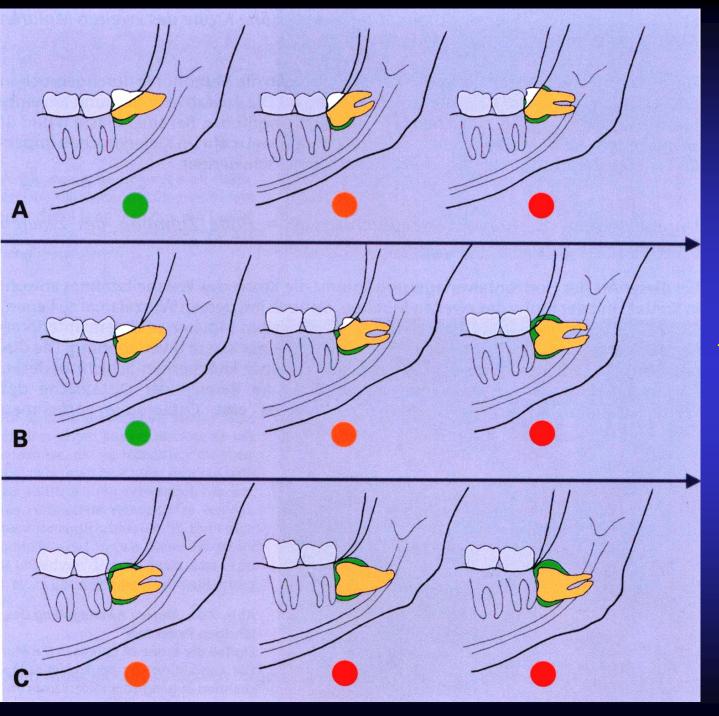


The grades of difficulty of removal of third molar in <u>mesio-angular</u> impaction

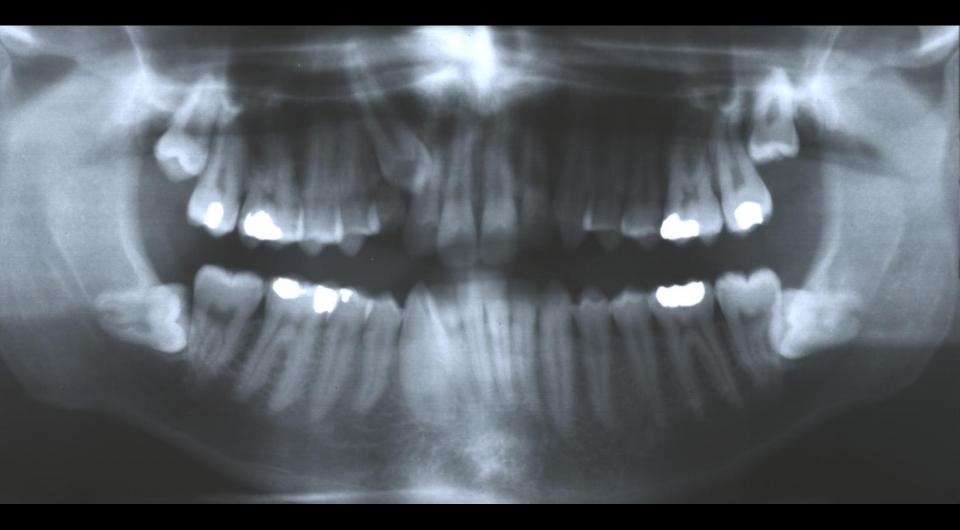


#### The technique of removal of third molar in <u>mesio-angular</u> impaction



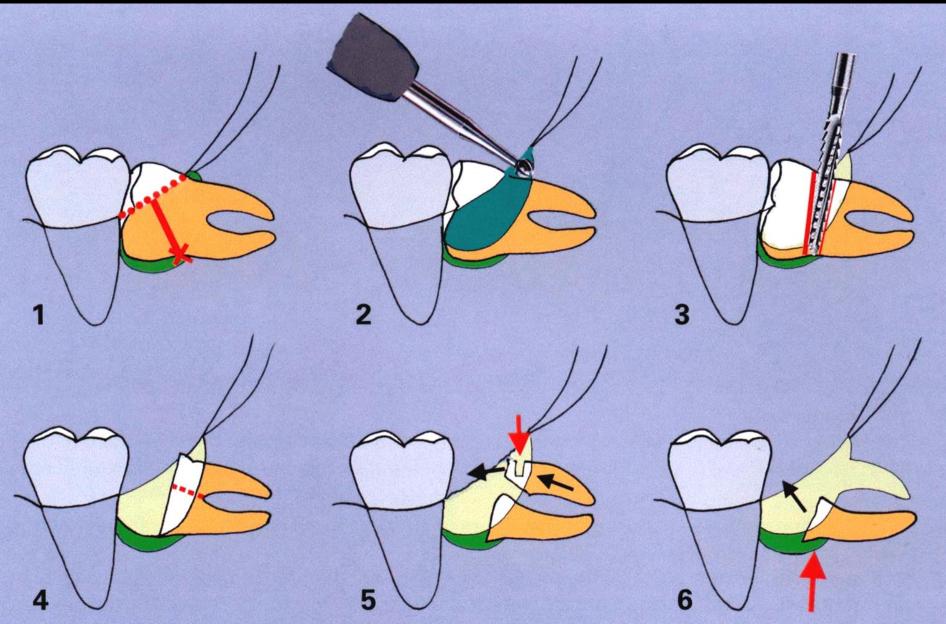


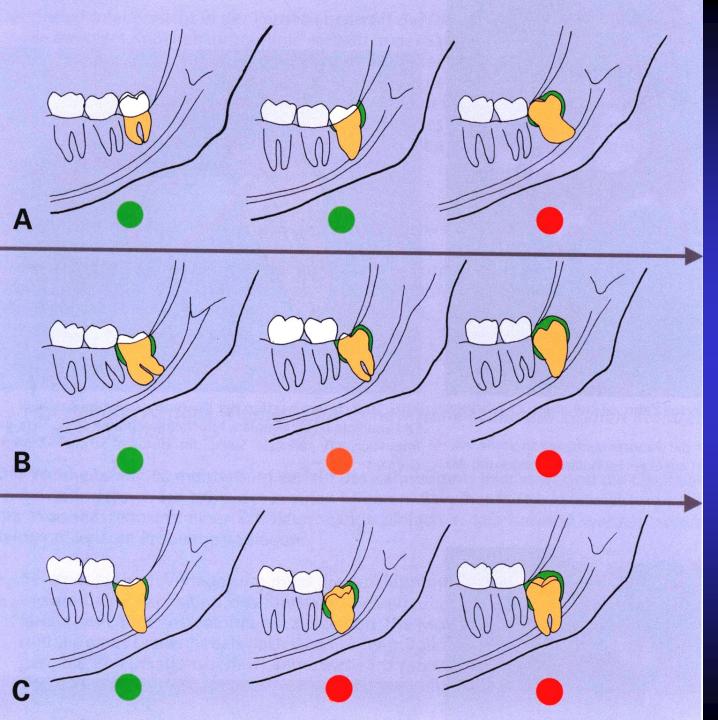
The grades of difficulty of removal of third molar in <u>horizontal</u> impaction





#### The technique of removal of third molar in <u>horizontal</u> impaction

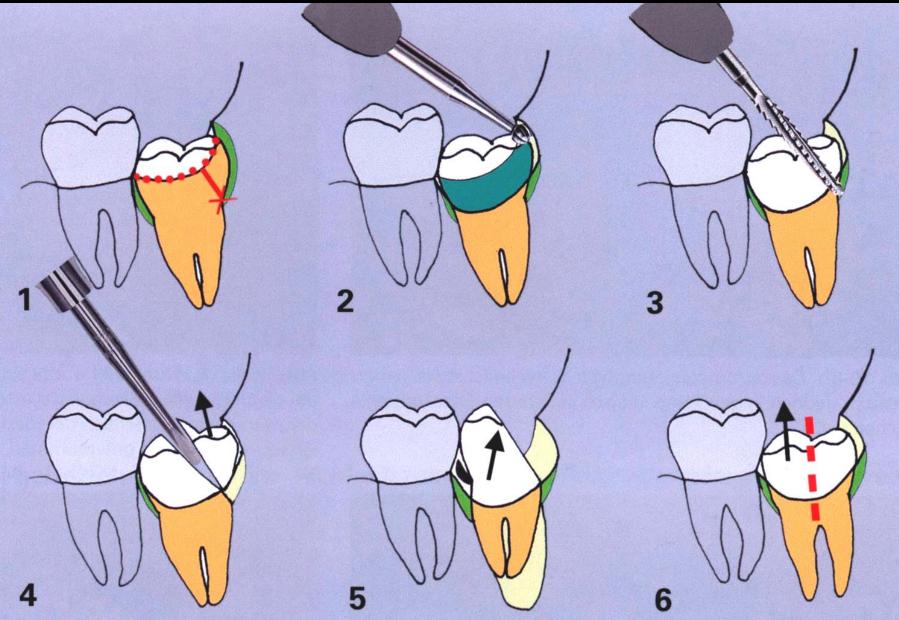


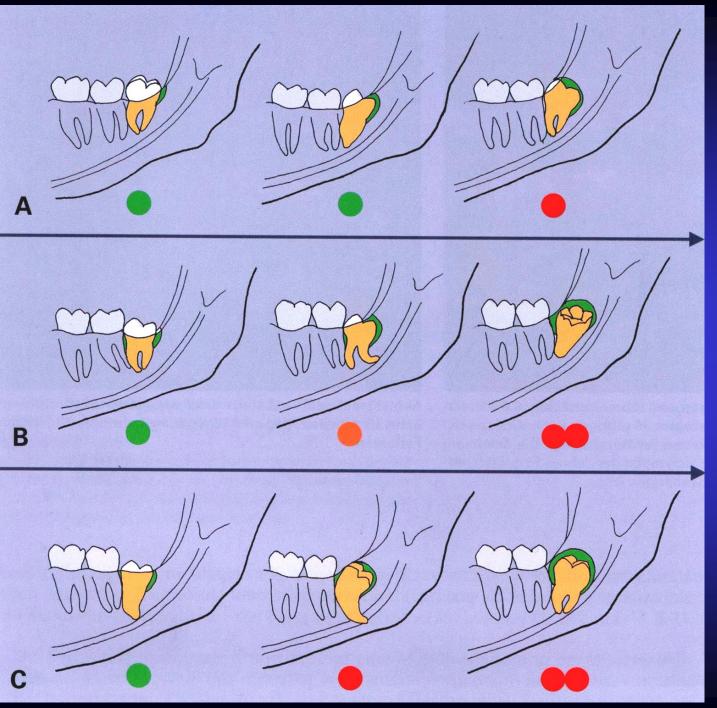


The grades of difficulty of removal of third molar in <u>vertical</u> impaction

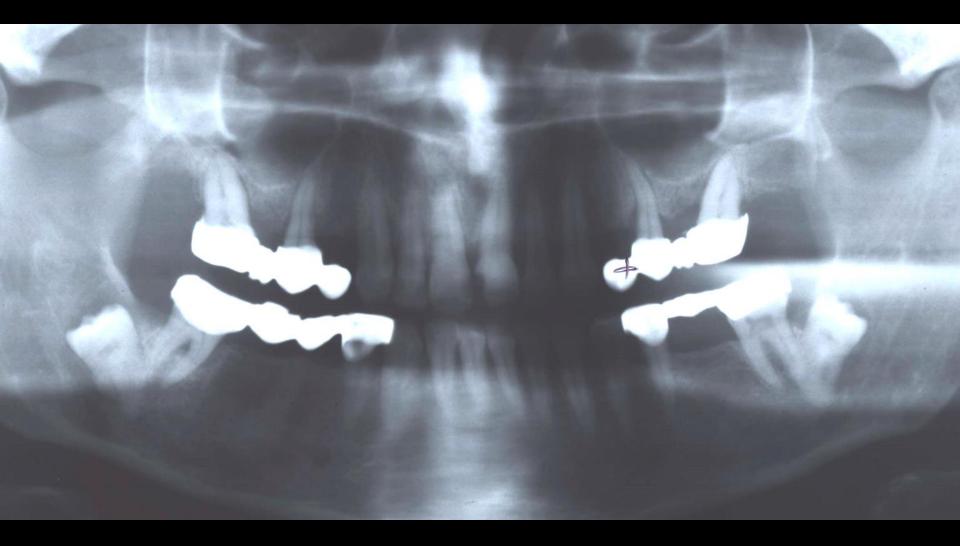


## The technique of removal of third molar in <u>vertical</u> impaction

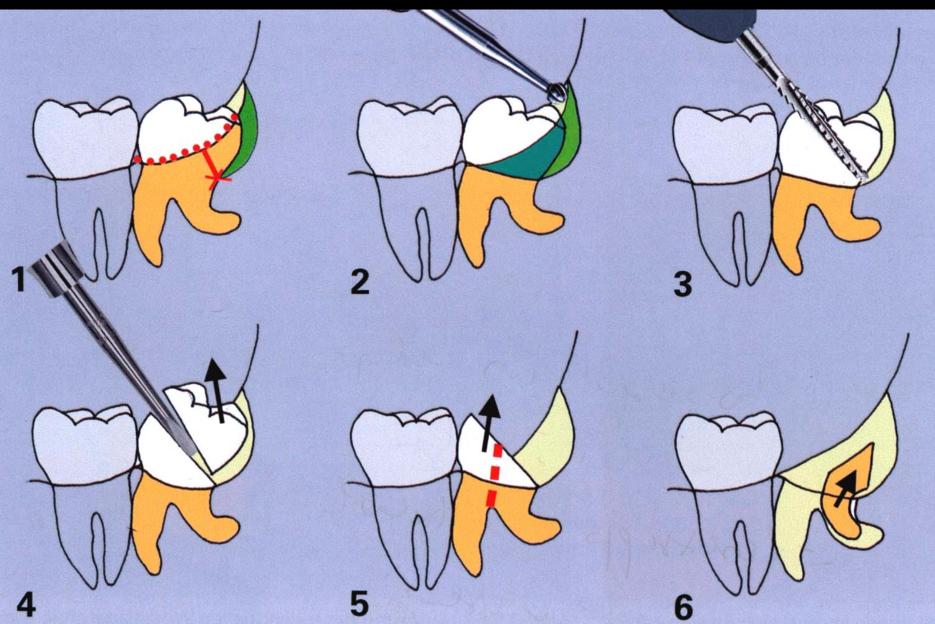




The grades of difficulty of removal of third molar in <u>disto-angular</u> impaction



## The technique of removal of third molar in <u>disto-angular</u> impaction



## The usual surgical steps for removal of mandibular third molars

- Flap design
- Liberation of the crown from the bone
- Tooth removal: with forceps with elevator

with dissection

Wound cleaning
Wound closure

The principles of wound treatment after removal of mandibular third molars

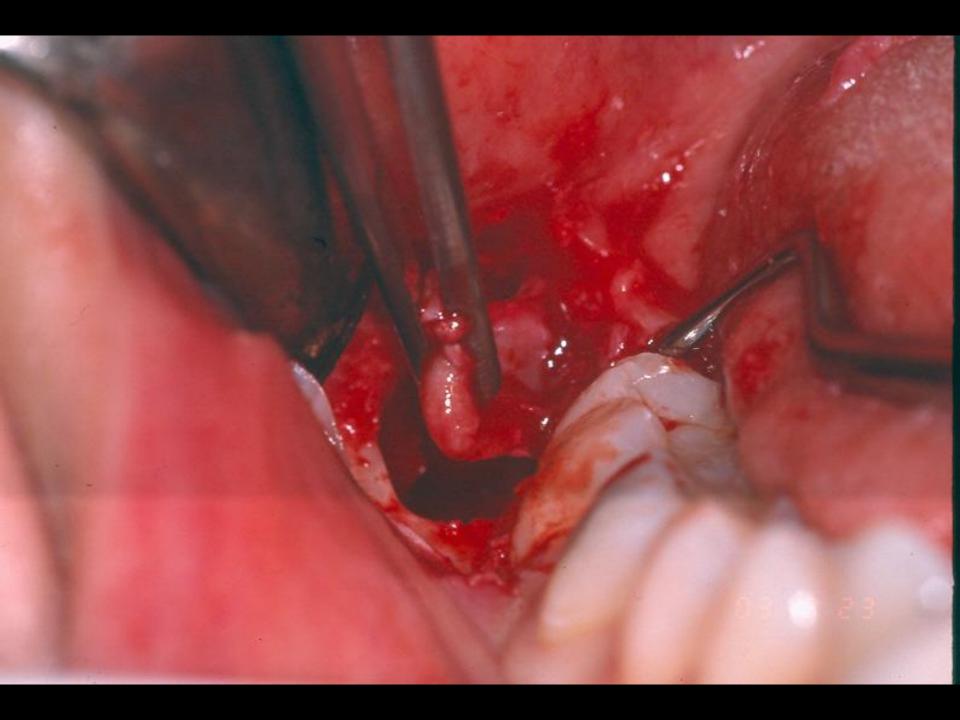
- Removing of remnants of follicular sac
- Wound cleaning
- Wound closure eventually with drainage
- Physiotherapy
- Antibiotic prophylaxis

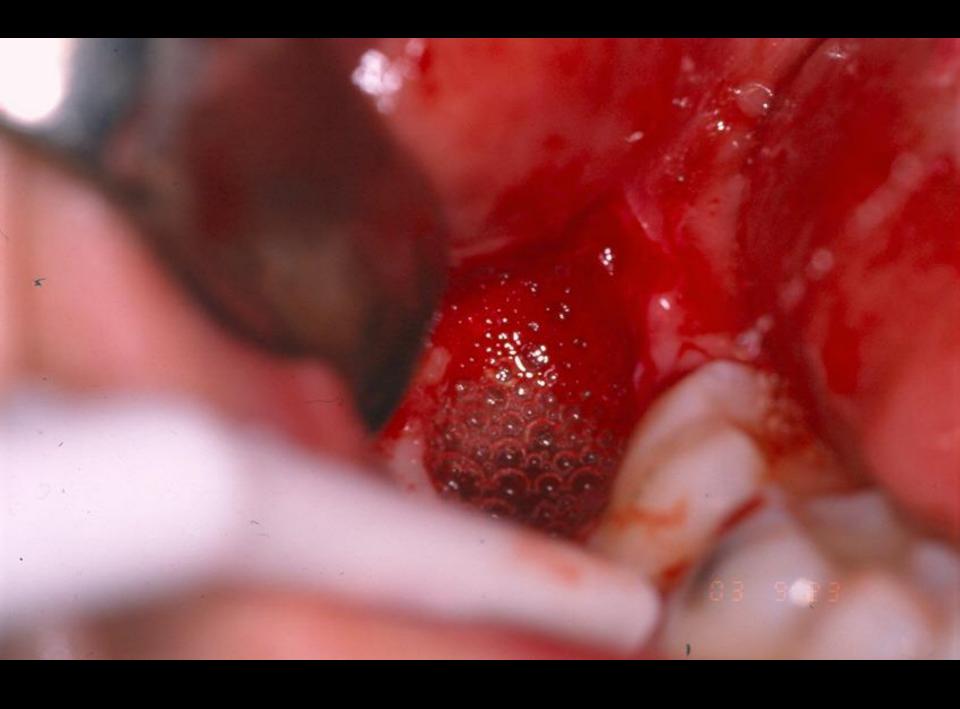
The principles of wound treatment after removal of mandibular third molars

Removing of remnants of follicular sac
Wound cleaning

## The remnants of follicular sac around third molar

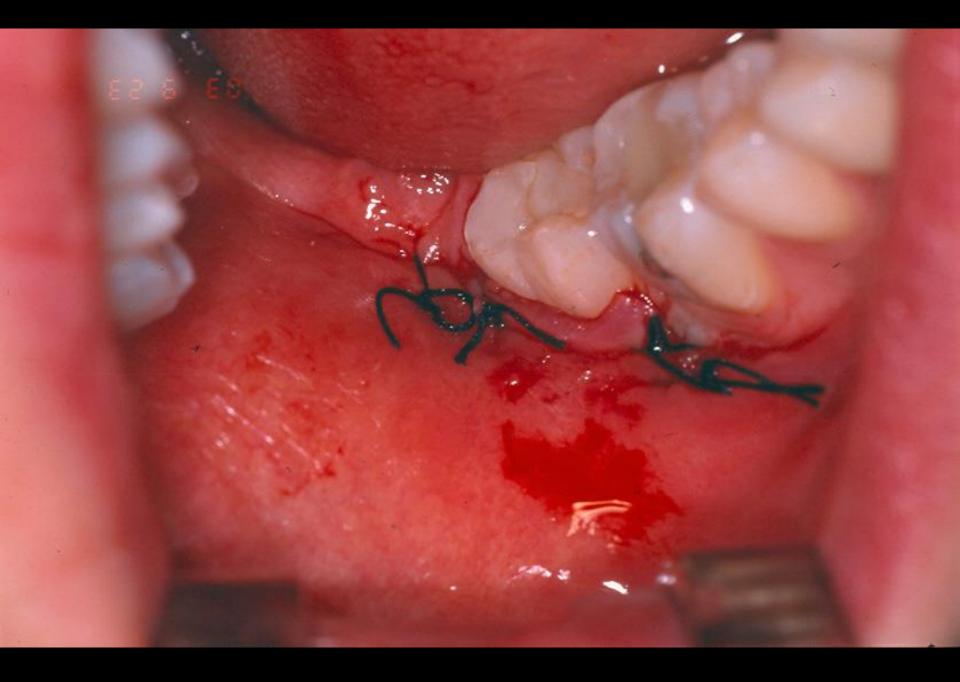


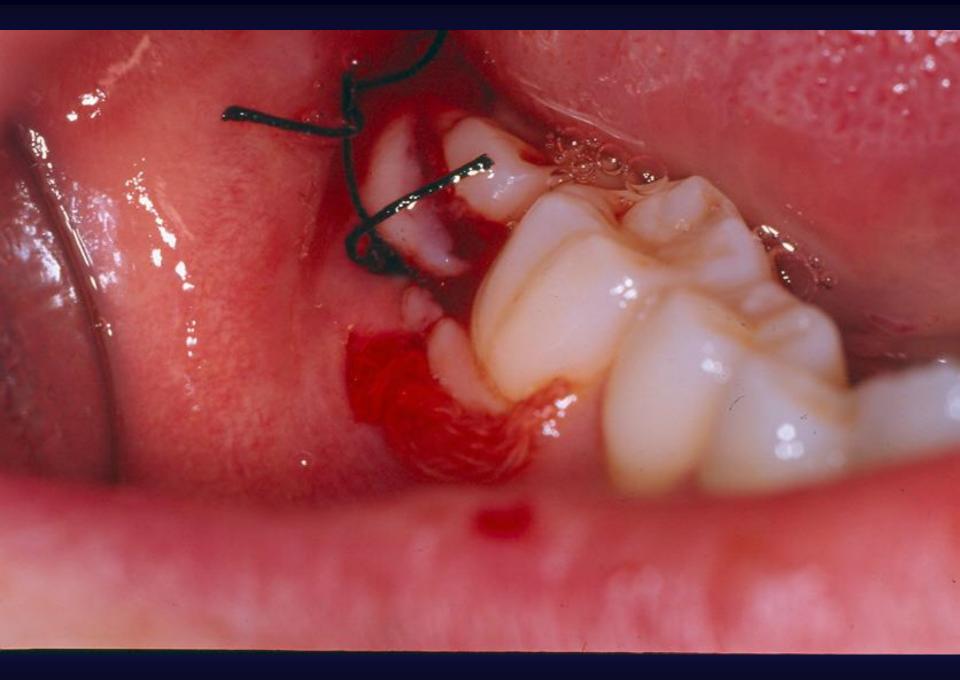




The principles of wound treatment after removal of mandibular third molars

- Removing of remnants of follicular sac
- Wound cleaning
- Wound closure eventually with drainage





The principles of wound treatment after removal of mandibular third molars

- Removing of remnants of follicular sac
- Wound cleaning
- Wound closure eventually with drainage
- Physiotherapy
- Antibiotic prophylaxis

**Complications of removal of mandibular third molars** 

- Alveolar osteitis /Dry socket/
- Injury of 2 molar
- Fracture of root
- Fracture of mandible
- Nerve injury