

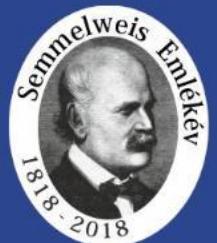
LESIONS REQUIRING SURGICAL TREATMENT IN THE ORAL CAVITY IN CHILDHOOD



SEMMELWEIS EGYETEM

Department of Paediatric Dentistry and Orthodontics

<http://semmelweis.hu>



Lesions requiring surgical treatment the oral cavity in childhood

- Dental inflammations (primary and permanent teeth)
- Developmental disturbances
 - Ankyloglossia
 - Enlarged labial frenulum
 - Accessory teeth
 - Missing germs
- Injury of primary teeth and it's consequences
 - dilaceratio
- Injuries of permanent teeth
 - Root fracture
 - Avulsion
- Impaction (canine, wisdom tooth)
- Anomalies or diseases of soft tissues

Surgical interventions

- **Special removal of teeth**
 - Radix
 - Supernumerary tooth
 - Impacted tooth
 - Injured tooth (eg.: radix fract.)
 - Dilaceration
- **Intervention after endodontic treatment (excochleation, resection of the apex)**
- **Operation of soft tissues**
 - Frenulectomy, frenulotomy (ankyloglossia/tongtie, enlarged labial frenum)
 - Incision
 - **Interventions to help orthodontic treatment**
 - Surgical exposure of impacted tooth (canine, incisor)
 - Preventive removal of wisdom-tooth
 - **Treatment of injured patient**
 - Wound of soft tissues (suture)
 - Bone fracture
- **Implantation, transplantation**
 - Because of developmental anomaly, injury or other cause

Mucocele

- Cyst of minor salivary gland
 - Two types:
 - Retention
 - Extravasation
- Painless
- Smooth surface
- Therapy: surgical removal

Ankyloglossia / tongue-tie

- Tongue-tie
- Disturbs speech and nutrition
- Therapy: frenulectomy, frenulotomy

Frenulotomy

- Surgical transection of a frenulum
- In local anaesthesia

Papilloma

- Benign tumor of the epidermis
- Painless
- Various shapes and sizes
- Most often appear on tongue, lip, bucca, palatum
- Therapy: surgical removal

Frenulectomy

- In local anaesthesia
- Excision of the frenulum
- Suture

Eruption cyst

- Cyst of the soft tissue during the eruption
- Usually no treatment is required
- Occasionally the eruption can be supported with surgical treatment

Labium duplex

- Aesthetic problem
- Therapy: plastic surgery

Periapical inflammation from the 74 tooth

- Trepanation of the primary tooth
- Incision of the swelling on the punctum maximum

Periostitis→abscess from the 36 tooth

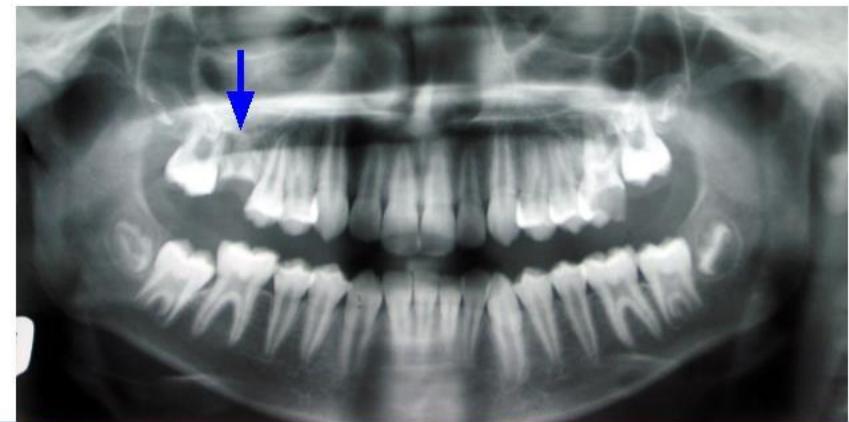
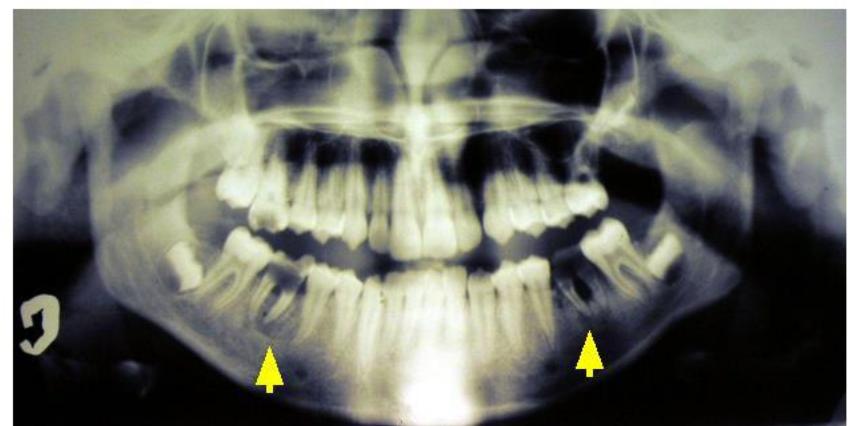
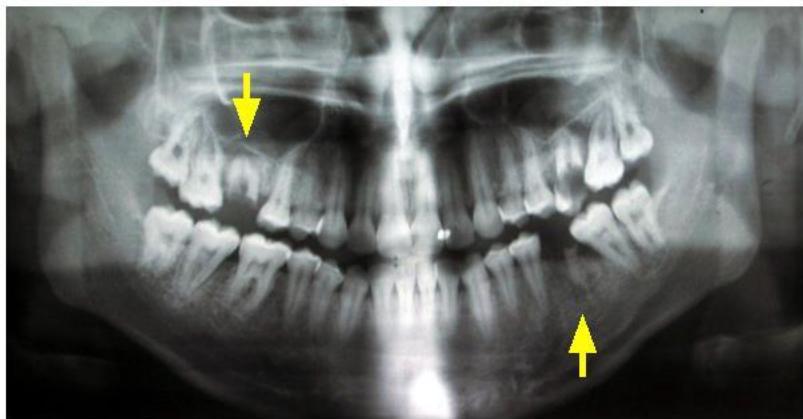
- In local anaesthesia
- Intra/extraloral incision
- Drainage
 - Intraoral: gauze strip
 - Extraloral: rubber strip

Parodontal abscess

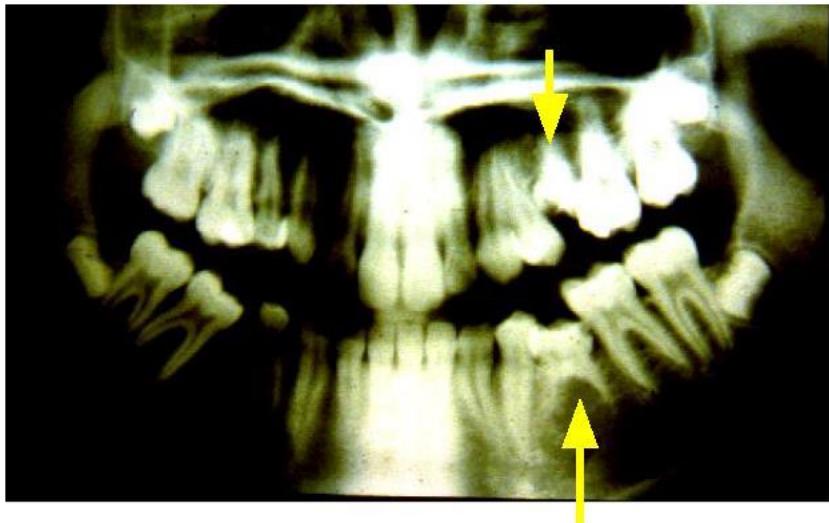
In local anaesthesia
Drainage through the ostium
of parodontal pocket



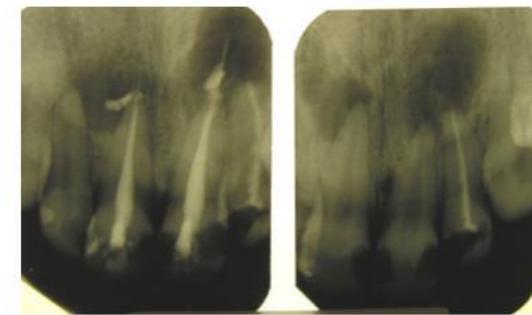
Radices of first permanent molars



Secunder infraocclusion of primary molars



Apicoectomy



- In case of non-healing periodontal inflammation
- In local anaesthesia
- Open the gum tissue and the bone
- Remove the apical third of the tooth and the inflamed tissue
- Make a root-end filling
- Sutures are placed in the gingiva
- Can be supplemented with GBR

Supernumerary tooth

- dens supplementarius
- dens supernumerarius
- mesiodens
- paramolar/perimolar
- distomolar/retromolar



Supernumerary tooth

- Obstruct the eruption of the other teeth
- Disturbs the occlusion
- Aesthetic problem

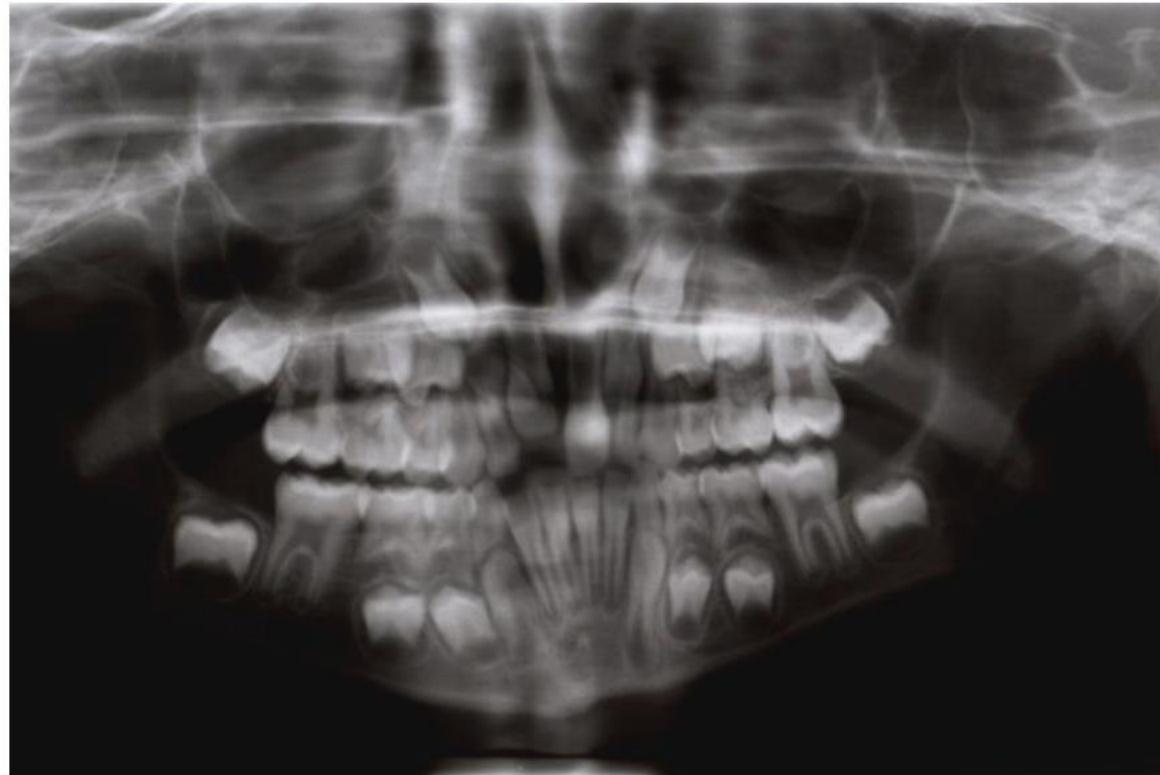
Supernumerary tooth

- Therapy:
 - Remove the supernumerary tooth
 - Waiting for spontaneous eruption of the impacted tooth or surgical exposure of the tooth and orthodontic traction

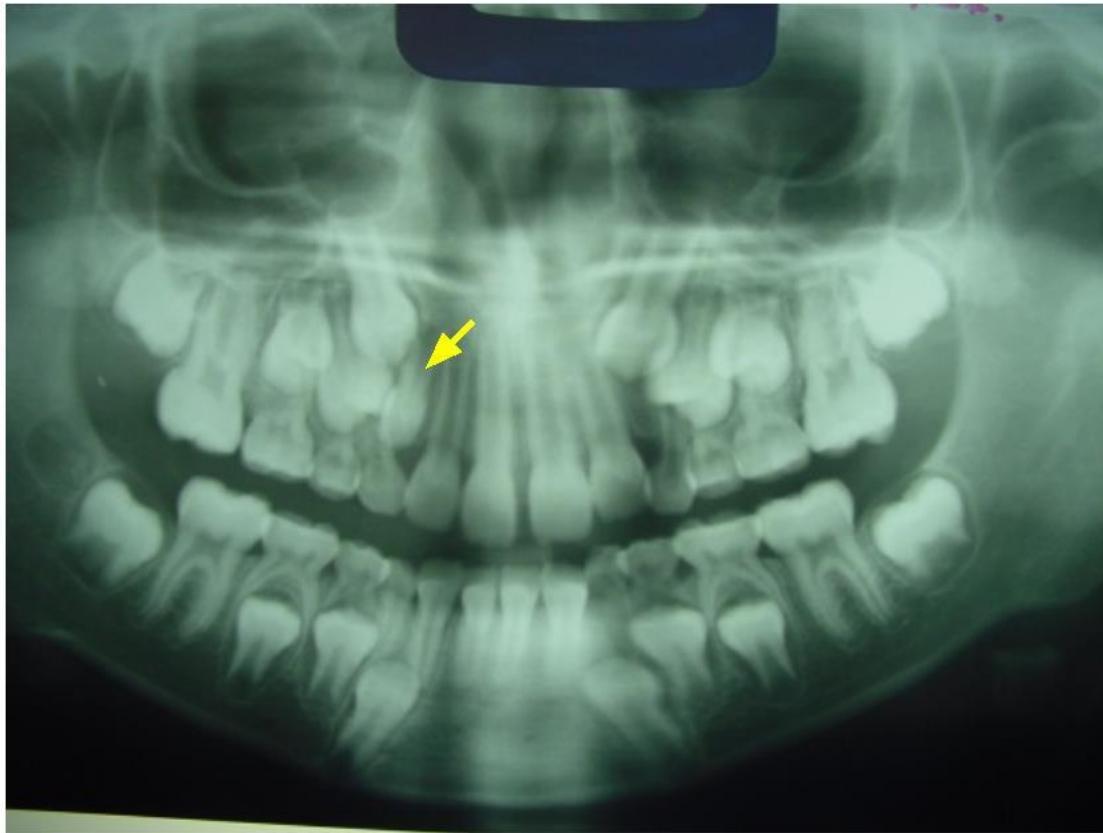
Removal of accessory tooth (paramolar, distomolar)



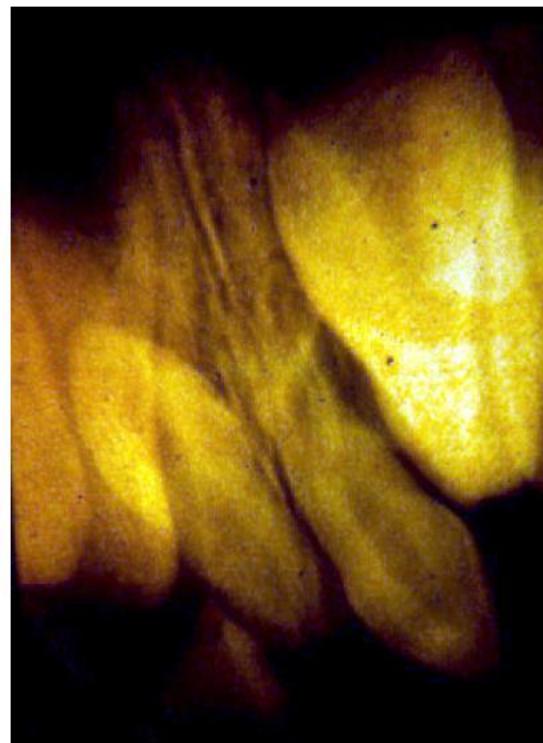
Removal of supernumerary tooth



Removal of supernumerary tooth



Removal of mesiodentes and orthodontic treatment



Removal of supernumerary tooth



Spontaneous eruption of 21 tooth

After the removal of a supernumerary tooth



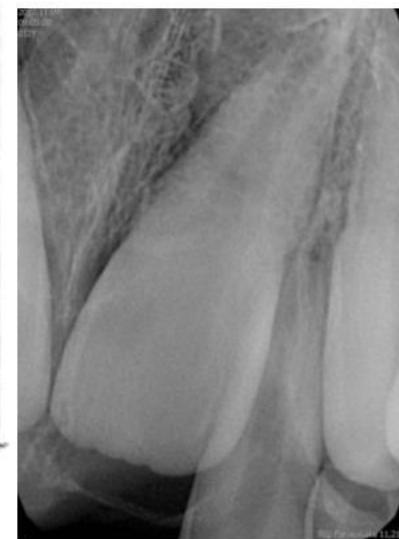
Case of Dr. Adrienn
Auth

Supernumerary teeth



3 months later

Case of Dr. Adrienn
Auth



Case of Dr. Adrienn
Auth

Intrusion of 51



Surgical removal of intruded 51 under general anaesthesia

Non-cooperated children can be treated under general anaesthesia

Case of Dr. Adrienn
Auth

Dilaceration

- Crown is oblique or encounter with the root in angle (angulatio)
- Reason: trauma of the same primary teeth
- Upper incisors



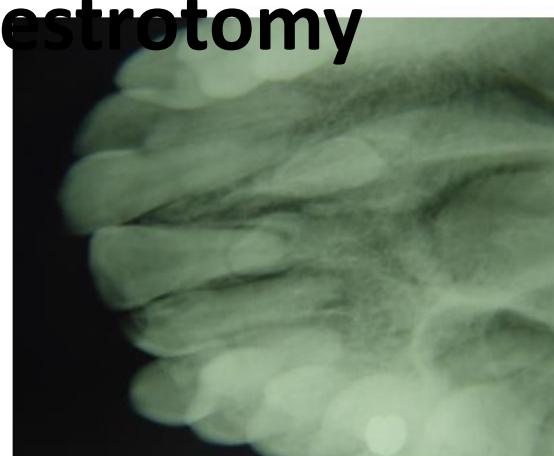
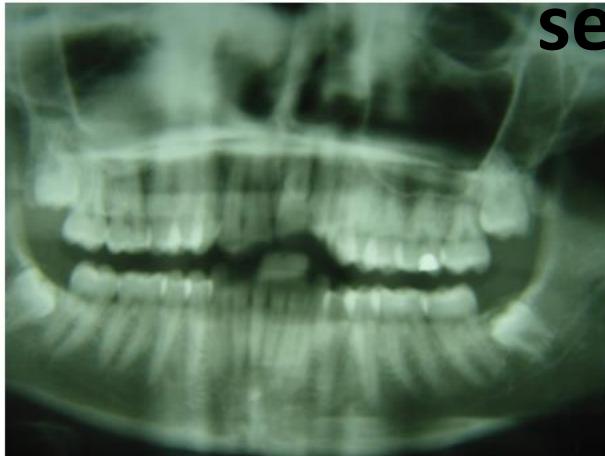
in childhood

Avulsion of 11 tooth, replantation, root canal filling, excochleation, augmentation



Fracture of proc. alv. + avulsion

sequestrotomy



Processus alv. fracture due to a
trauma

Remove the part of the fractured
processus

Sofort implantation, augmentation and resorbable membrane

Immediate implantation after a trauma with a loss of a tooth

Root fracture of 11 tooth (anamnesis: fixed orthodontic appliance)

The missing tooth can be replaced with an orthodontic appliance

Implantation

Over 18 years

Agenesis of 12,22 teeth



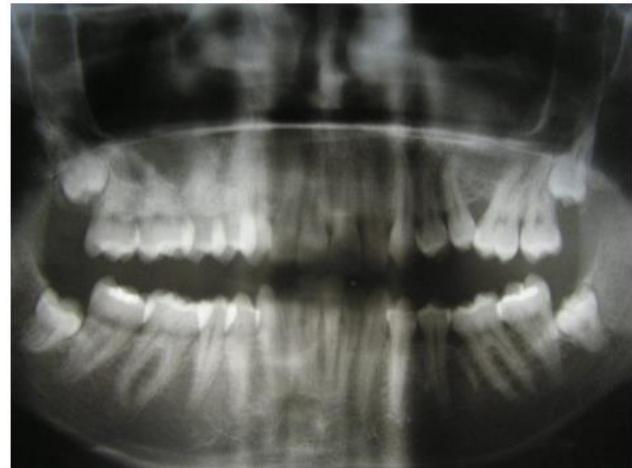
Orthodontic treatment for preparing place



Removal of wisdom tooth

- In local anaesthesia
- Open the gingiva and the bone
- Remove the tooth
- suture





Impacted 13 tooth

- In local anaesthesia
- Surgical exposure of the impacted tooth and orthodontic traction



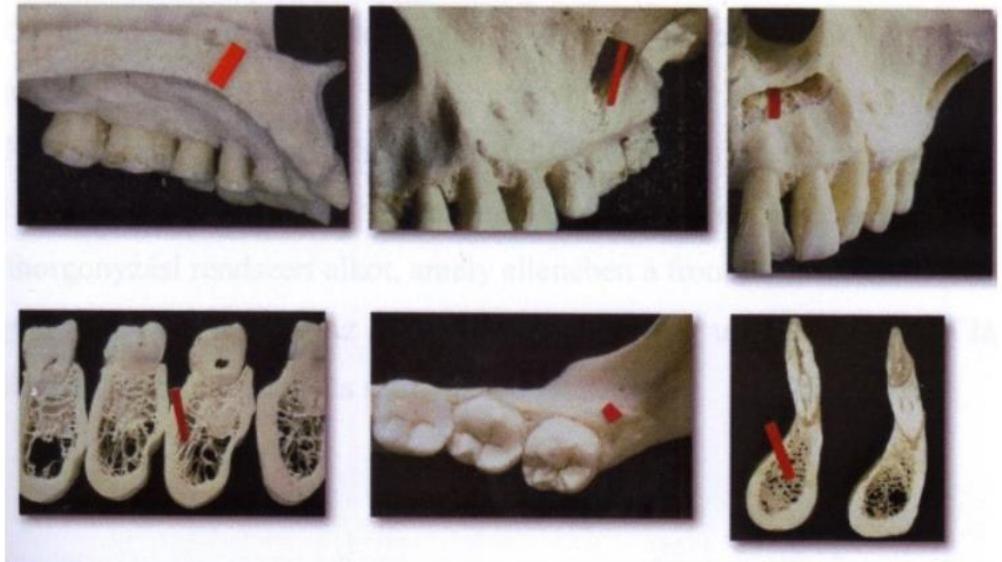
Impacted

13



Case of dr. Dominika Magyar

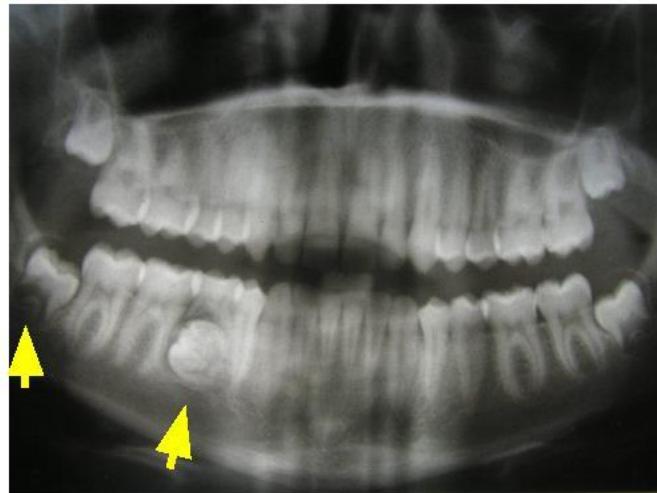
Temporary anchorage (in orthodontics)



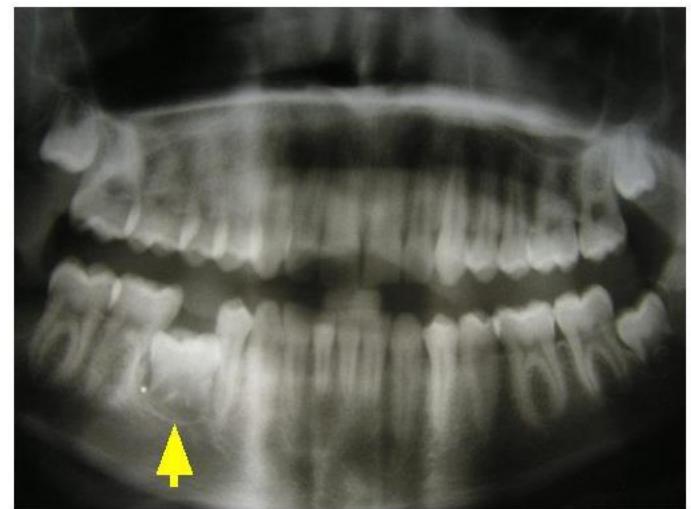
**Impl. with osseointegration
(palatum)**

**Mini implant without
osseointegration**

Autotransplantation



**removal of the 85 tooth
and the odontoma
transplantation of the 48
tooth**



Thank you for your attention!

