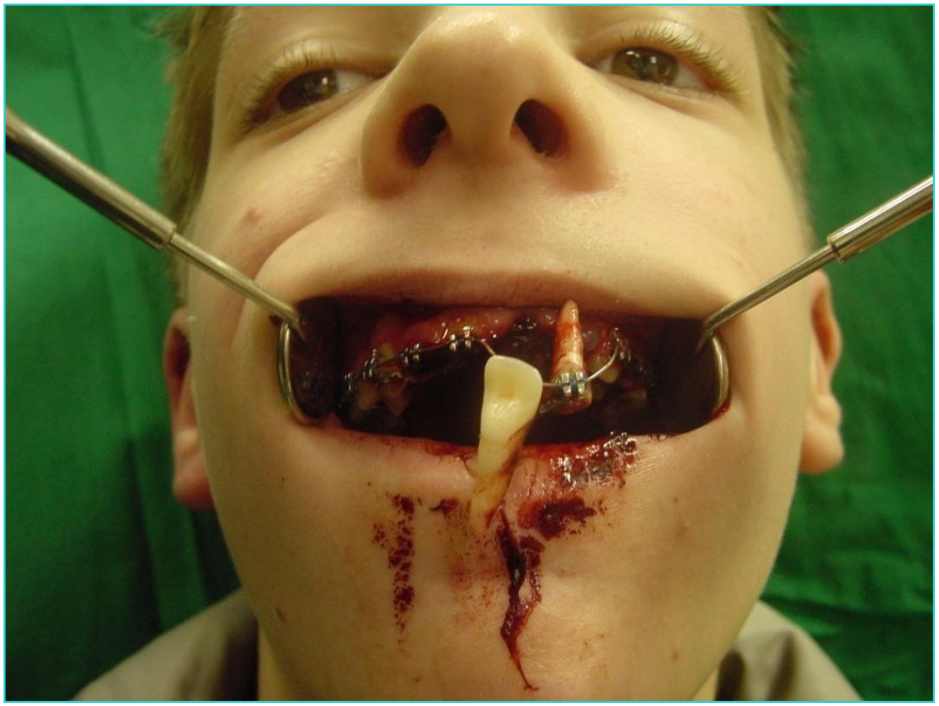
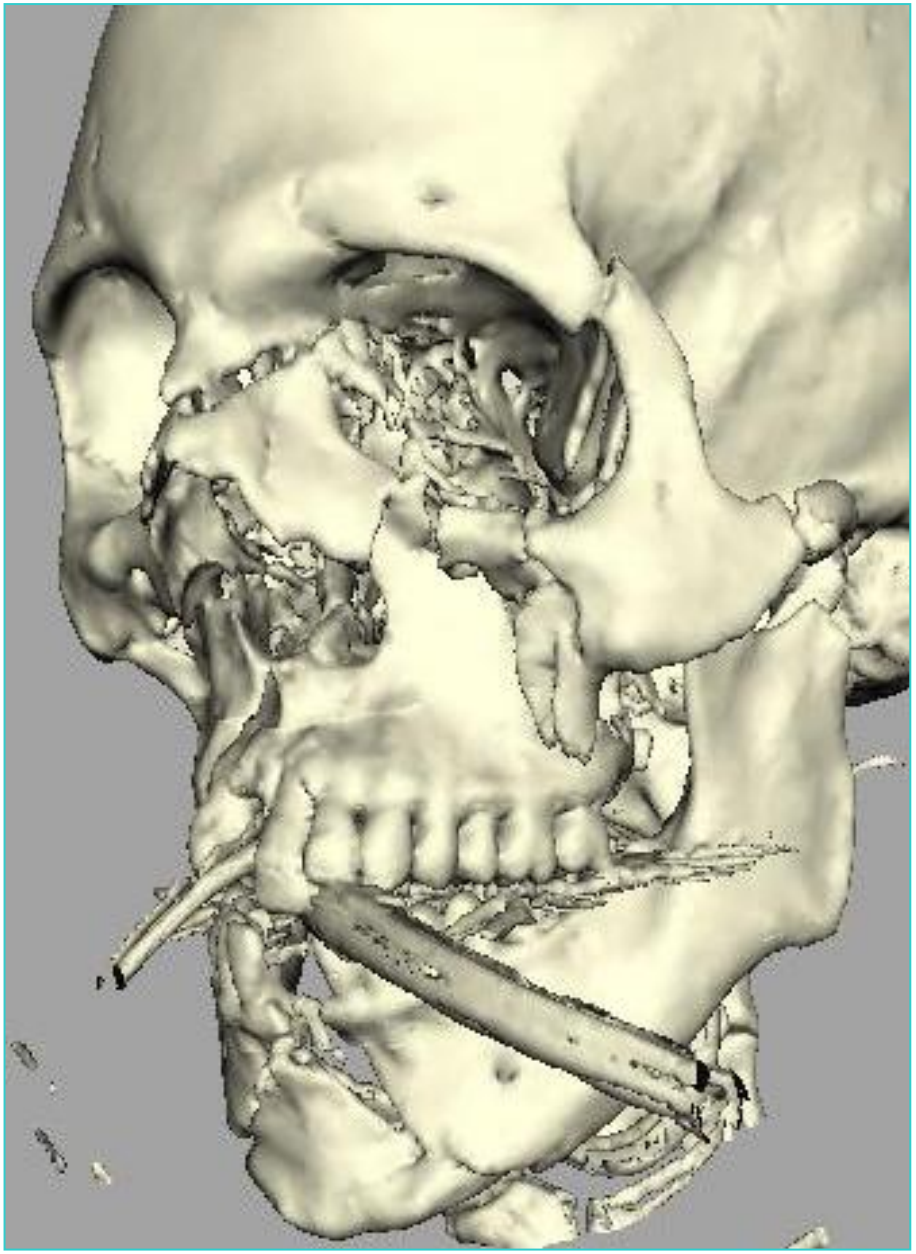
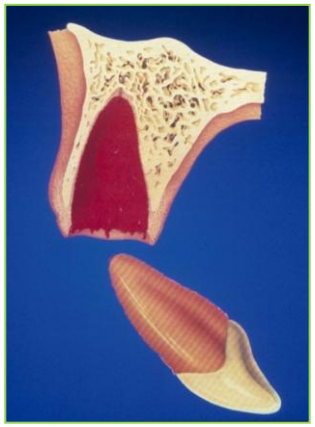
Van tandtrauma tot panfaciaal trauma: een overzicht

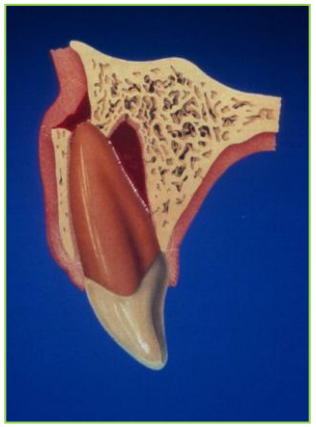




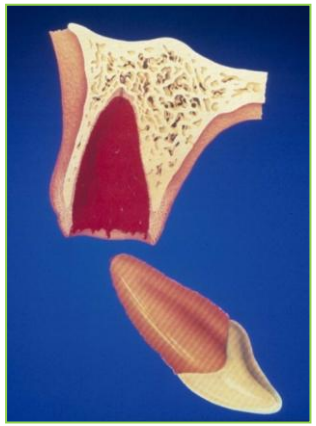
MKA

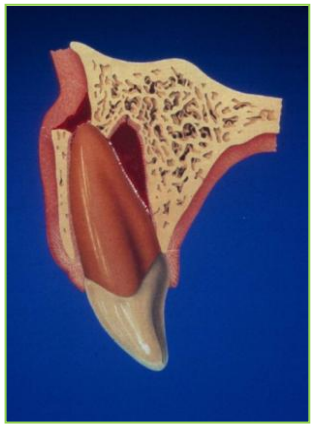


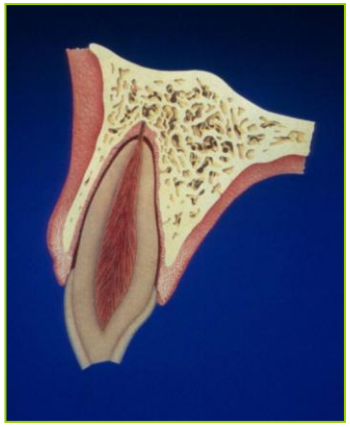
MKA
Mond

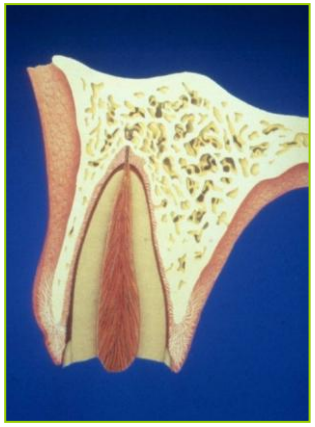


MKA
Mond

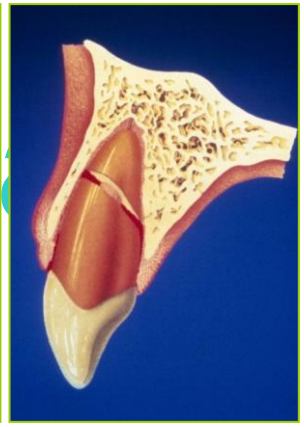


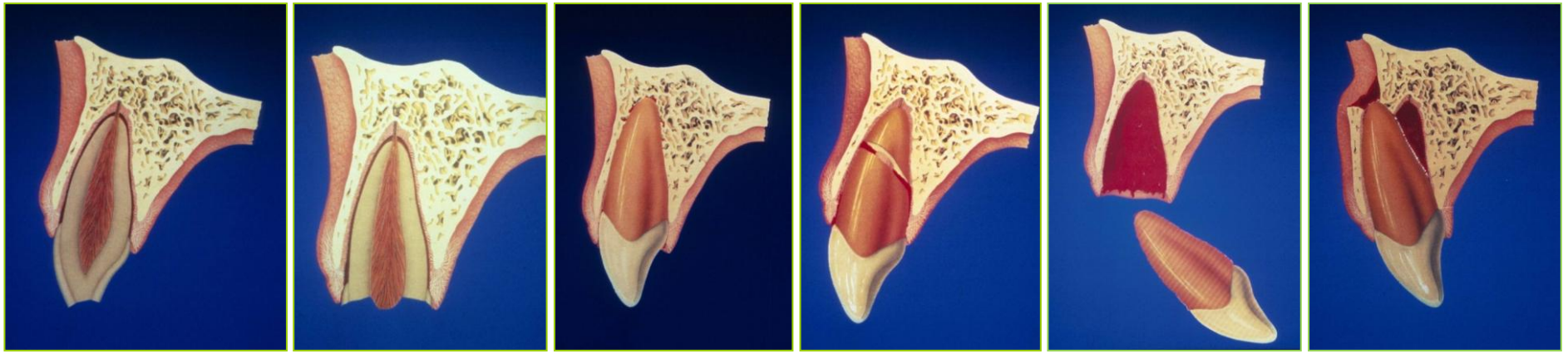


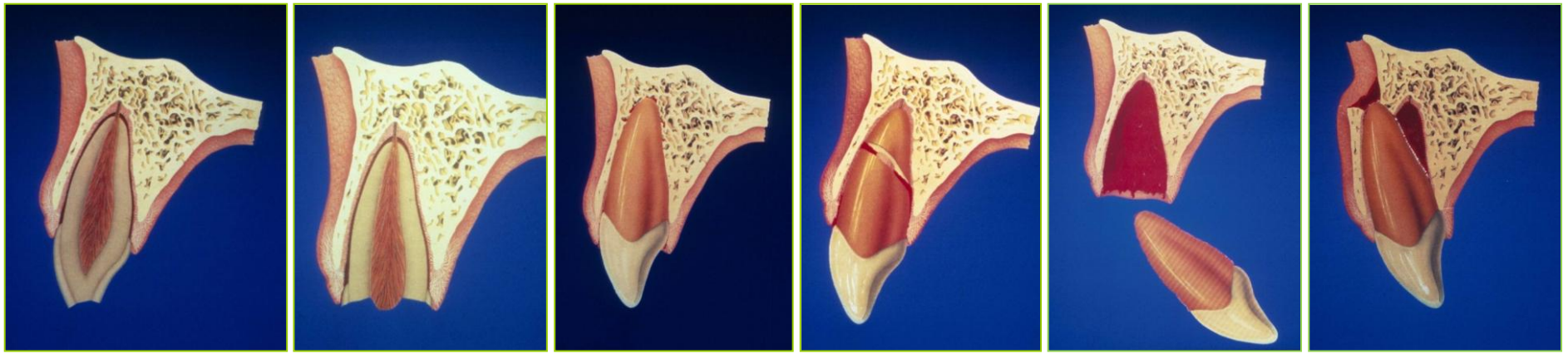




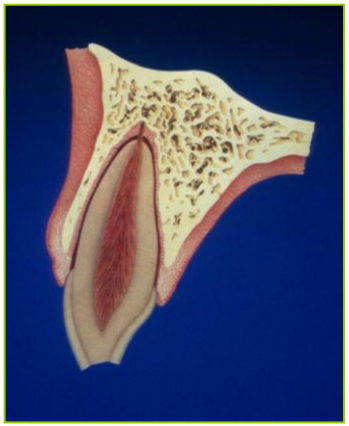
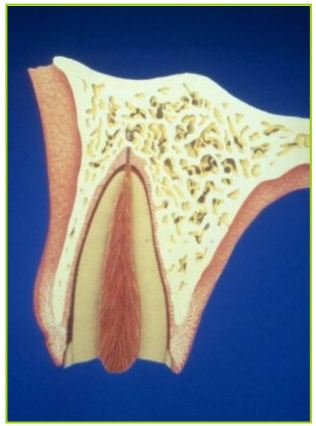


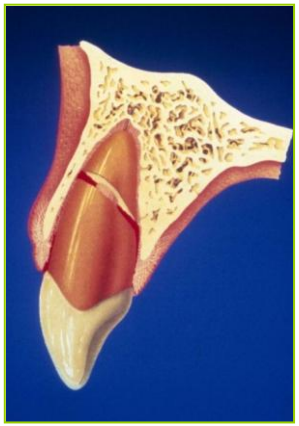
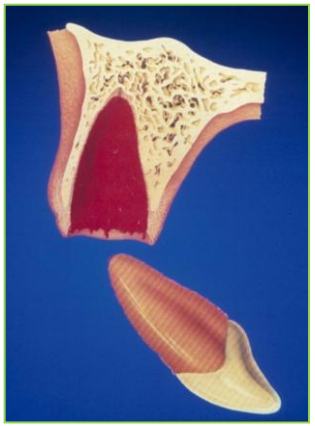






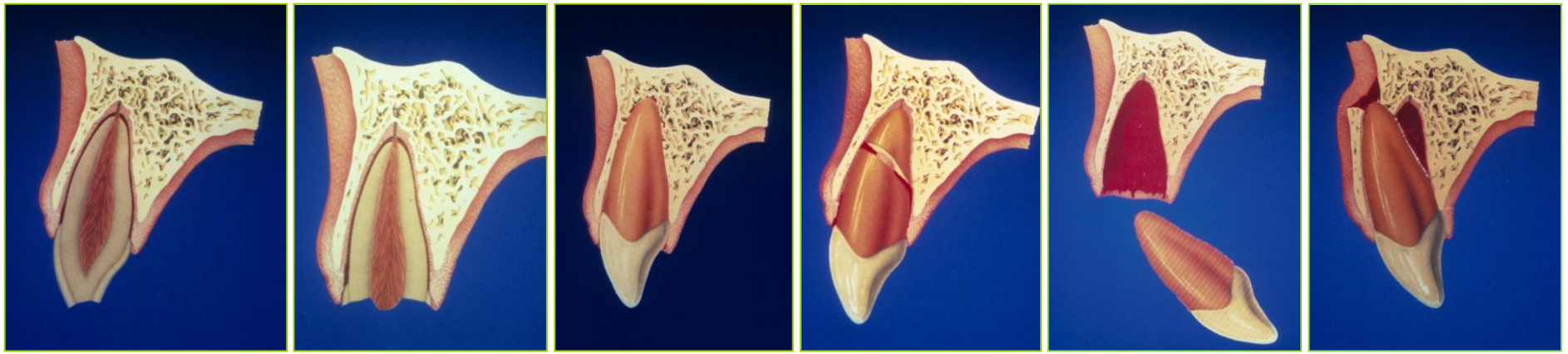


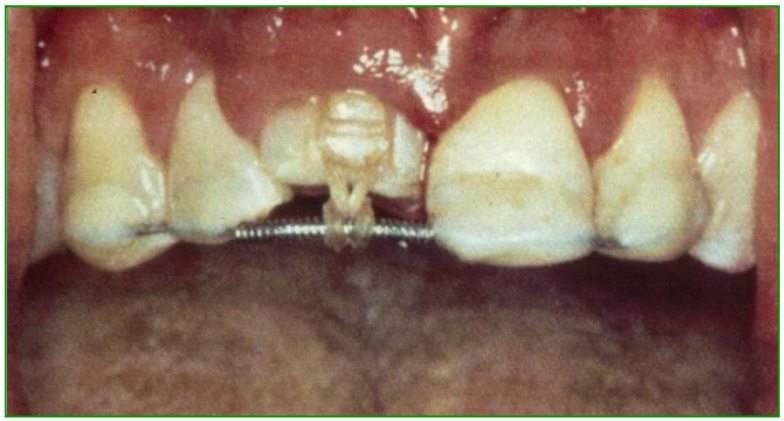



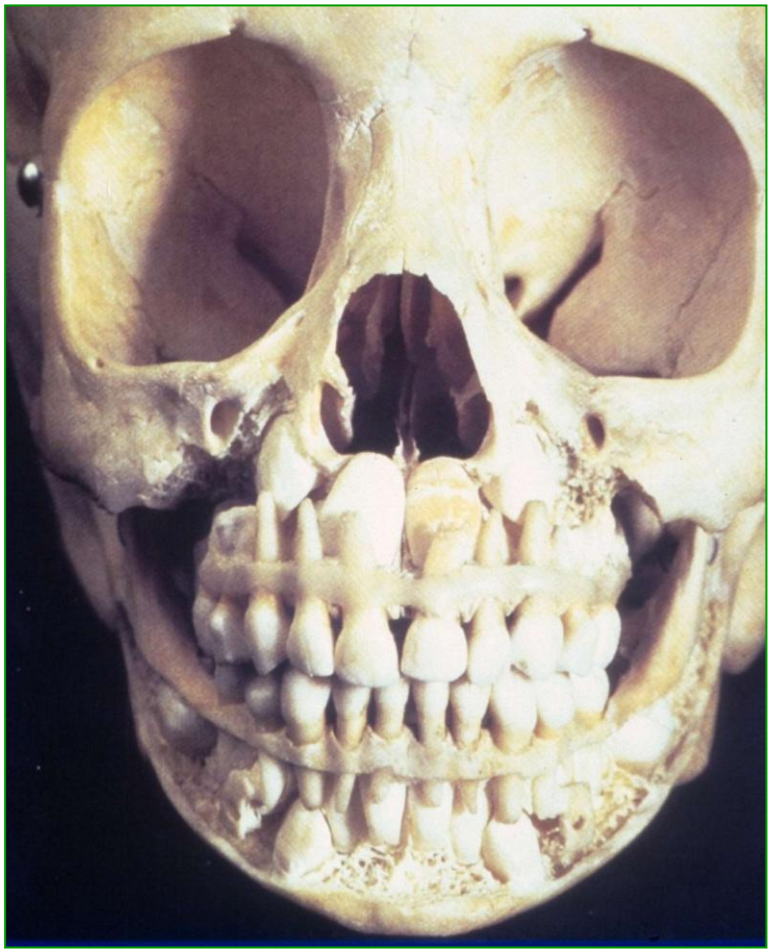


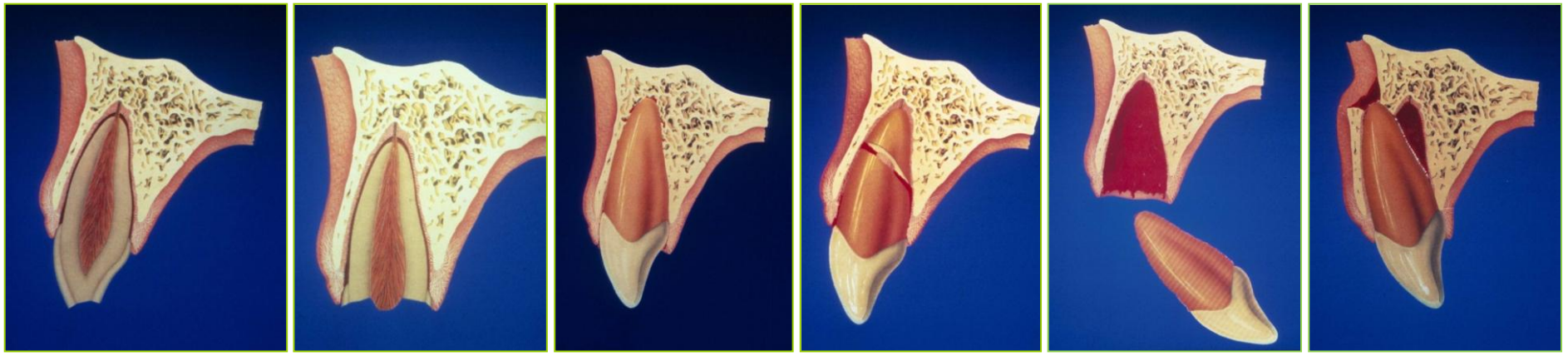




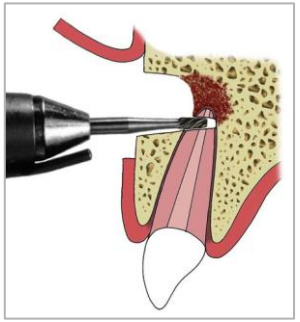




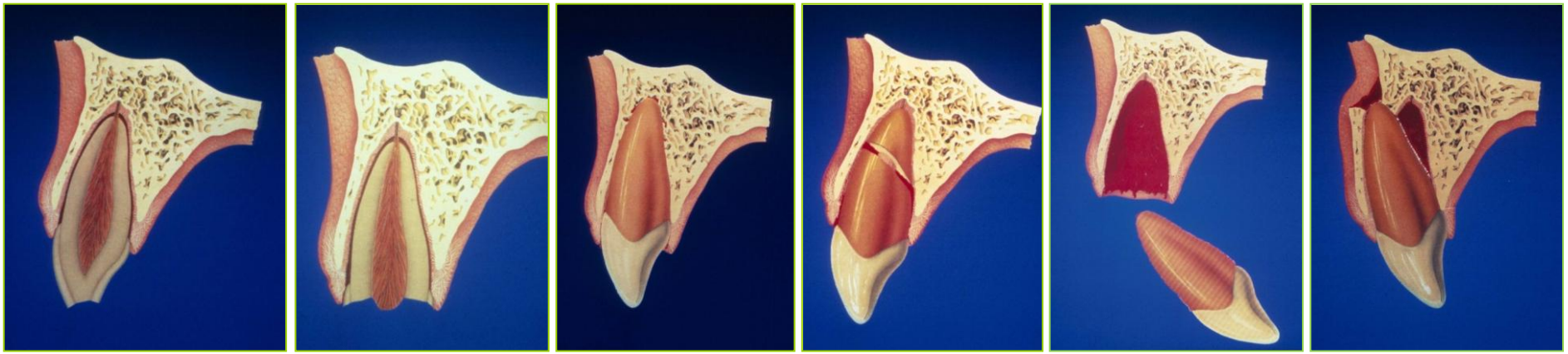






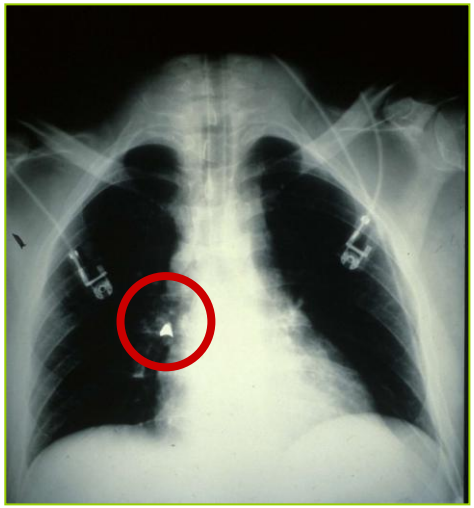


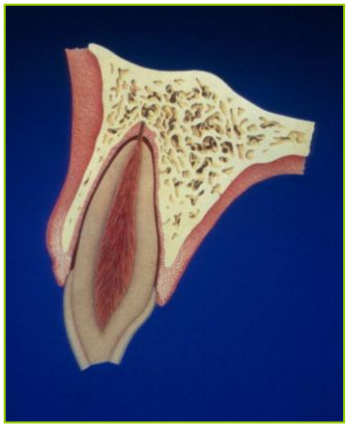
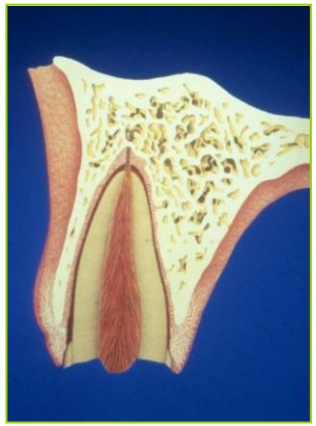


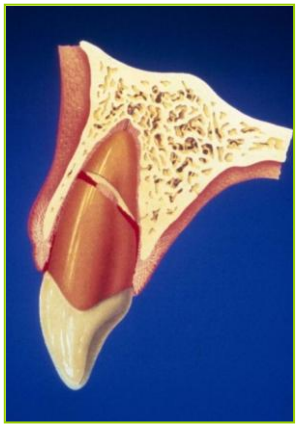
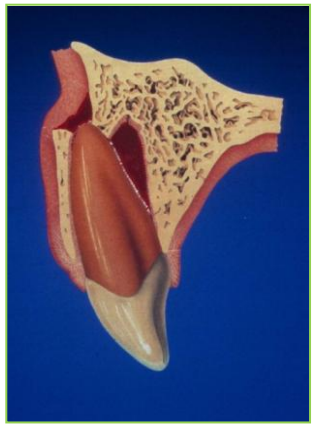






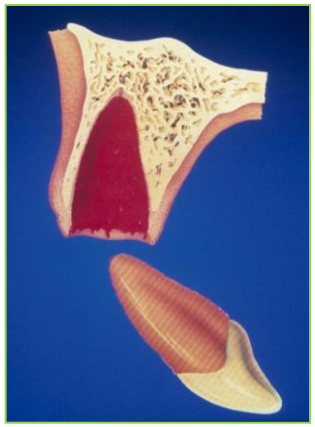








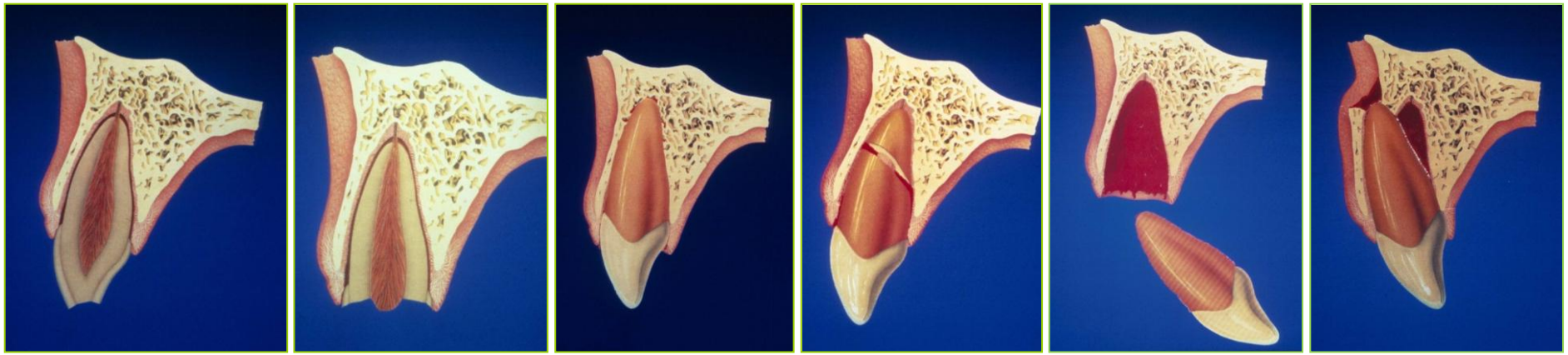
replantation of avulsed teeth





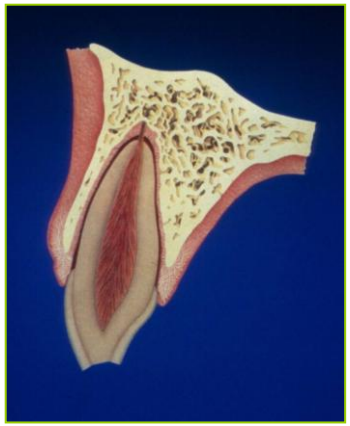
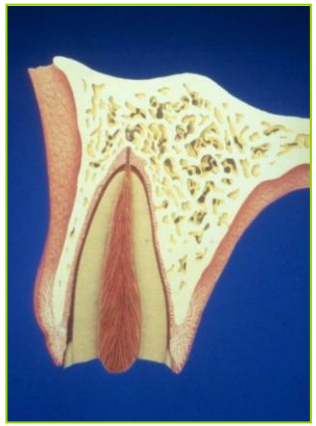


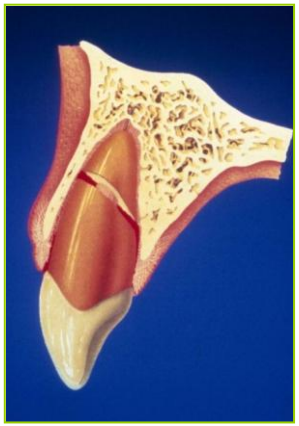
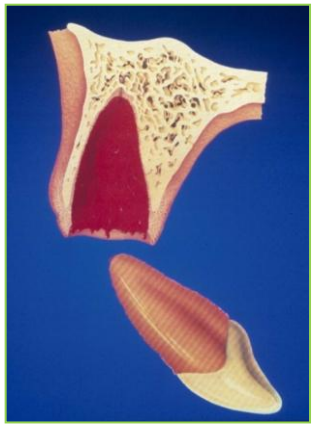


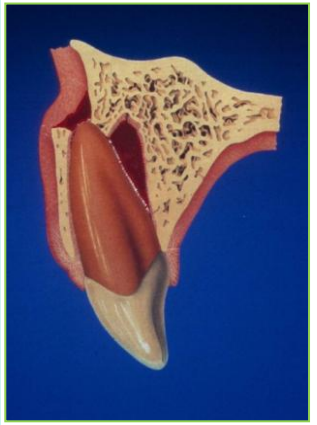




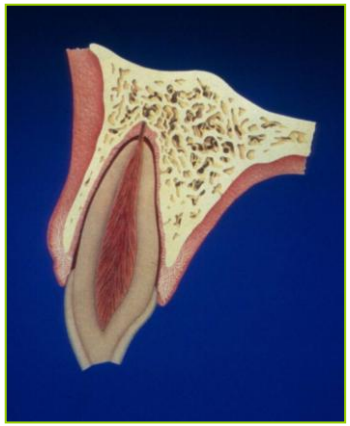
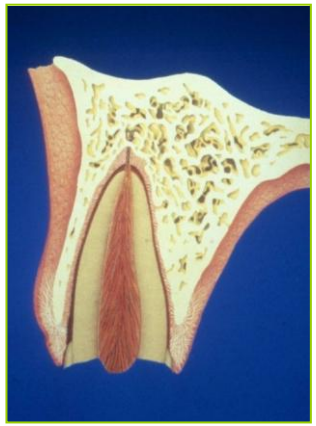


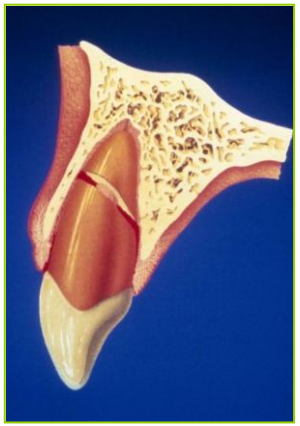
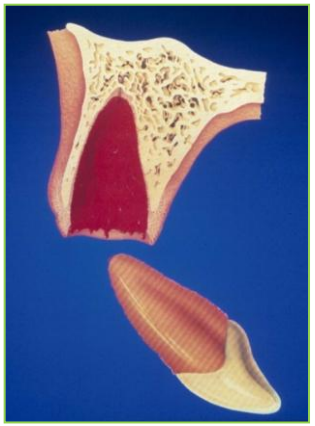
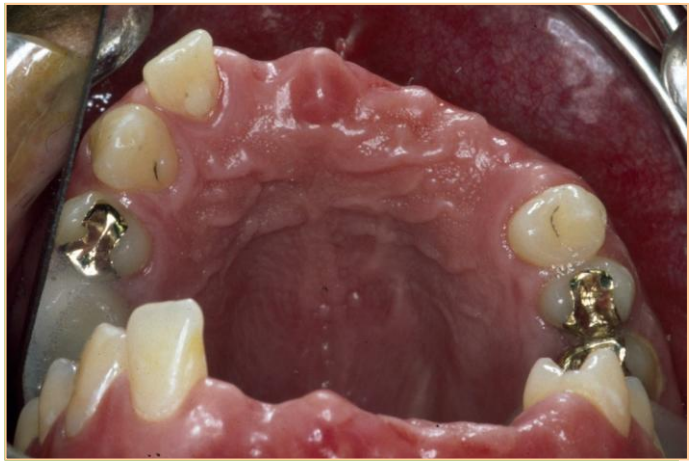



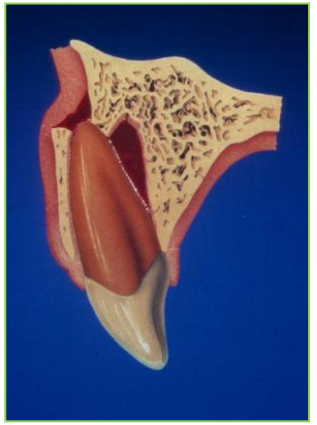
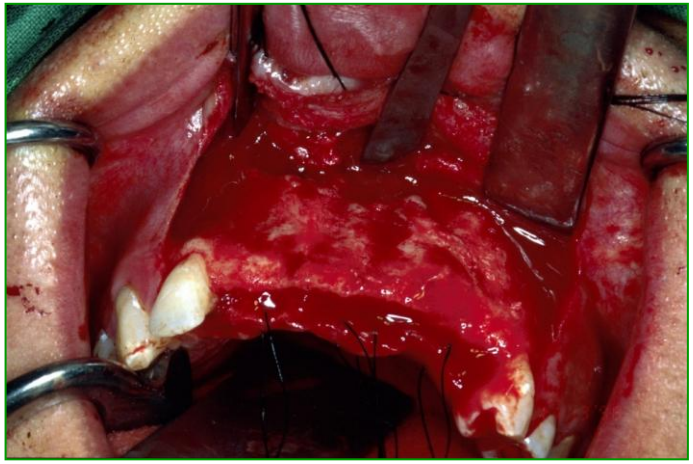
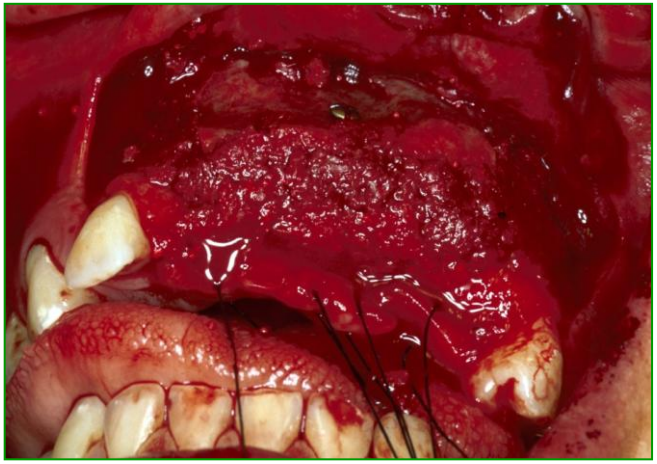



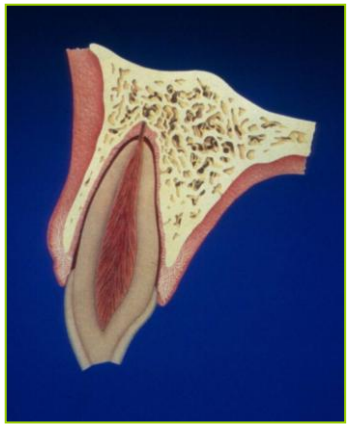
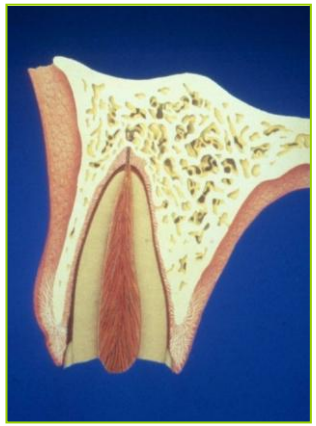



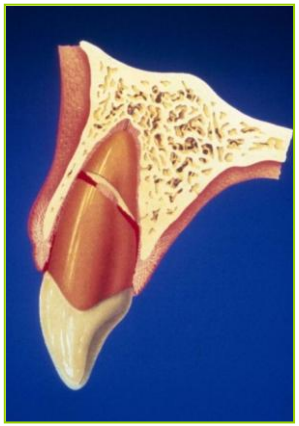
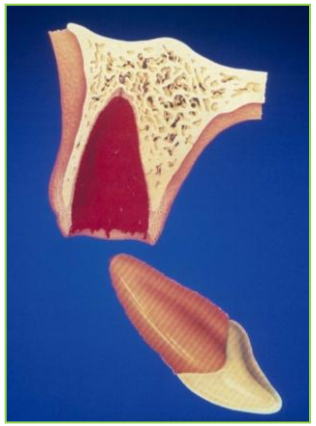
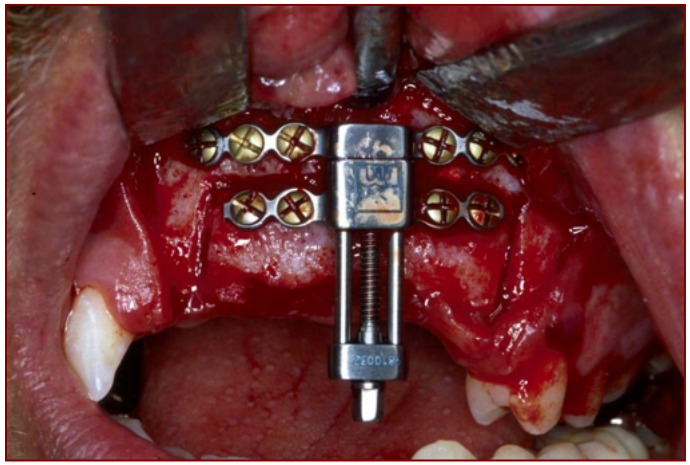
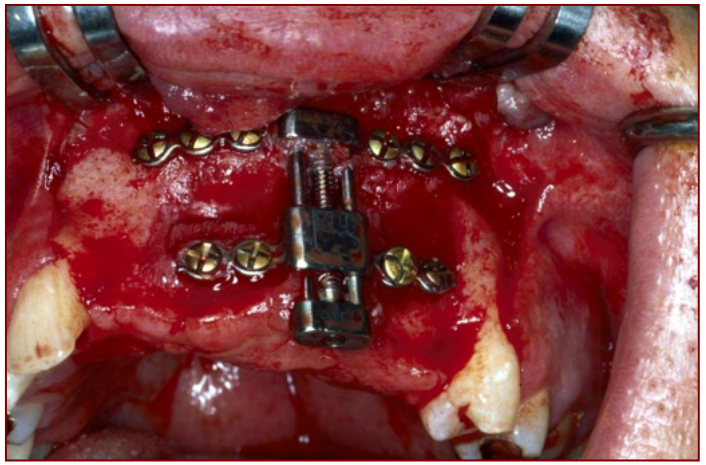
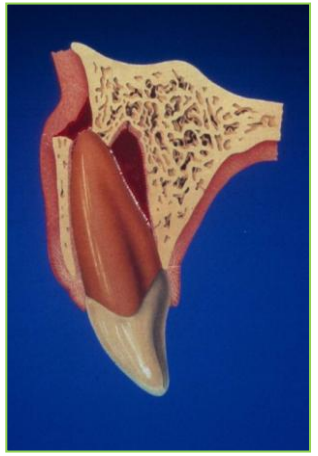
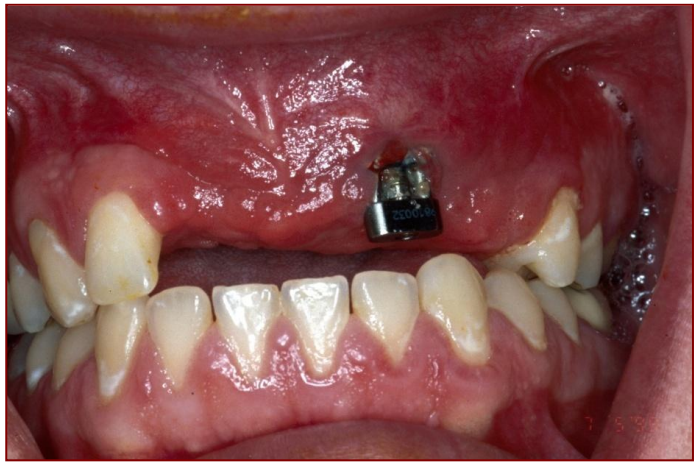
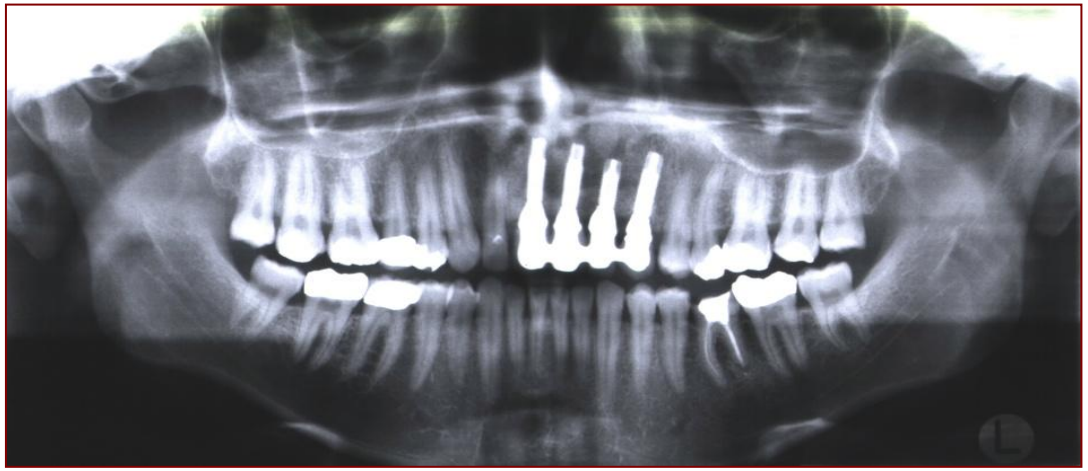


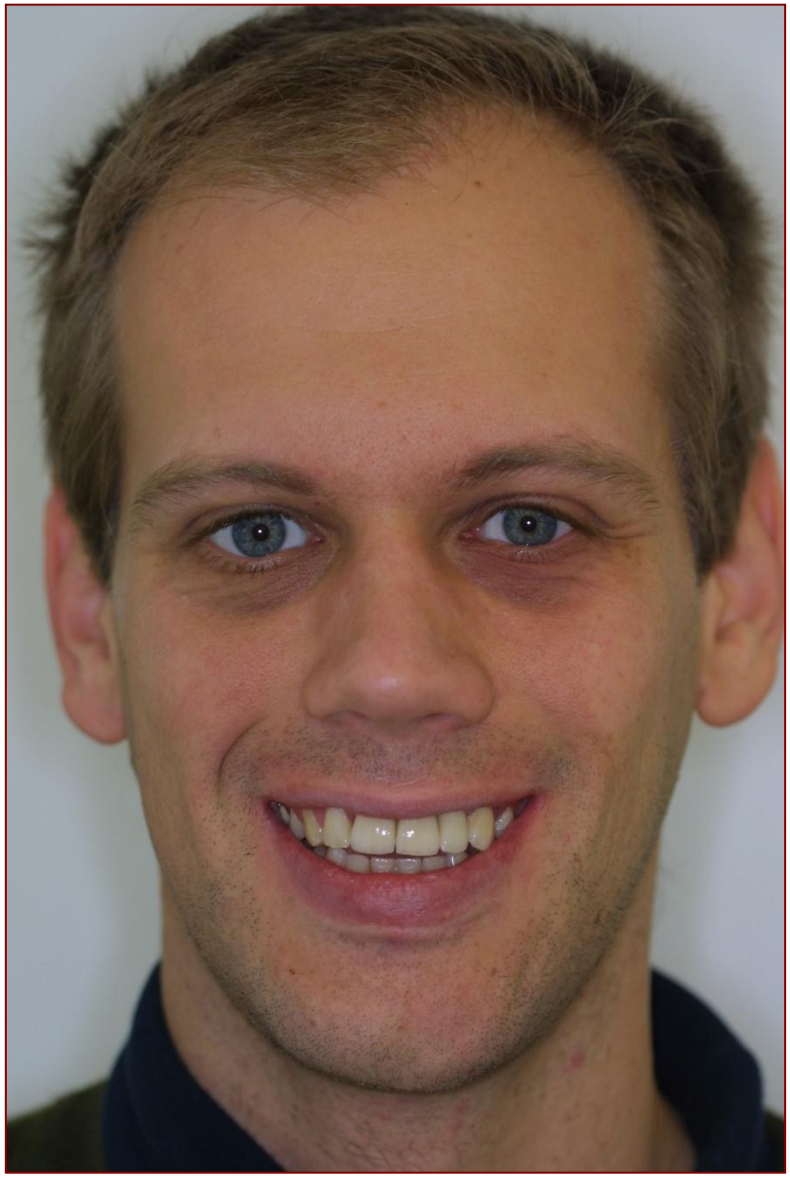



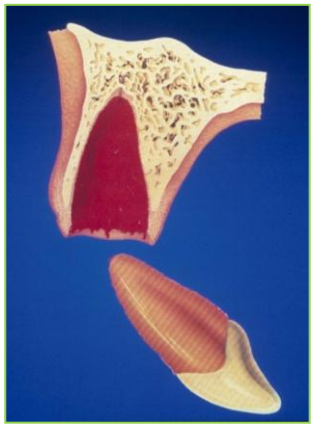




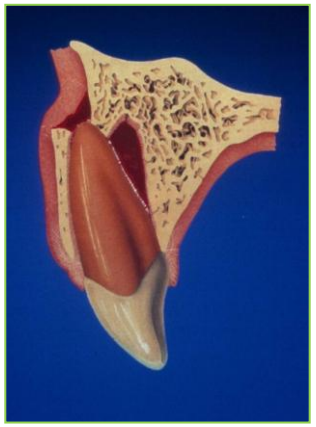














MKA
Mond



$$E_{kin} = \frac{1}{2} mv^2$$

= massa

= snelheid

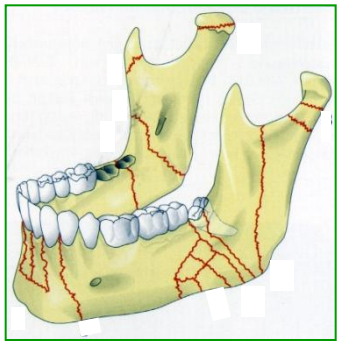
$$E_{kin} = \frac{1}{2} mv^2$$

	m = klein	m = groot
v = klein	Kneuzing	Plet-trauma
v = groot	Schot-wonde	Verkeers-ongeval

$$E_{kin} = \frac{1}{2} mv^2$$

	m = klein	m = groot
v = klein	Fractuur	Fractuur
v = groot	Fractuur	Fractuur

$E_{kin} = \frac{1}{2} mv^2$

	m = klein	m = groot
v = klein		
v = groot		



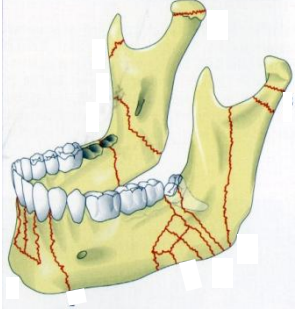
v = klein

m = klein



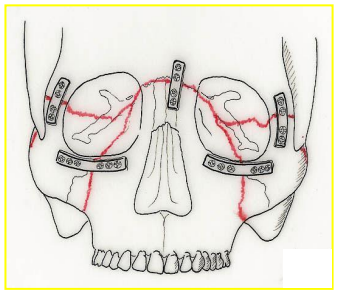
v = klein

m = klein



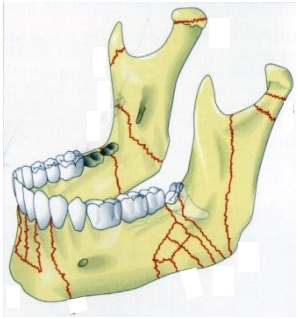
Onderkaakfracturen





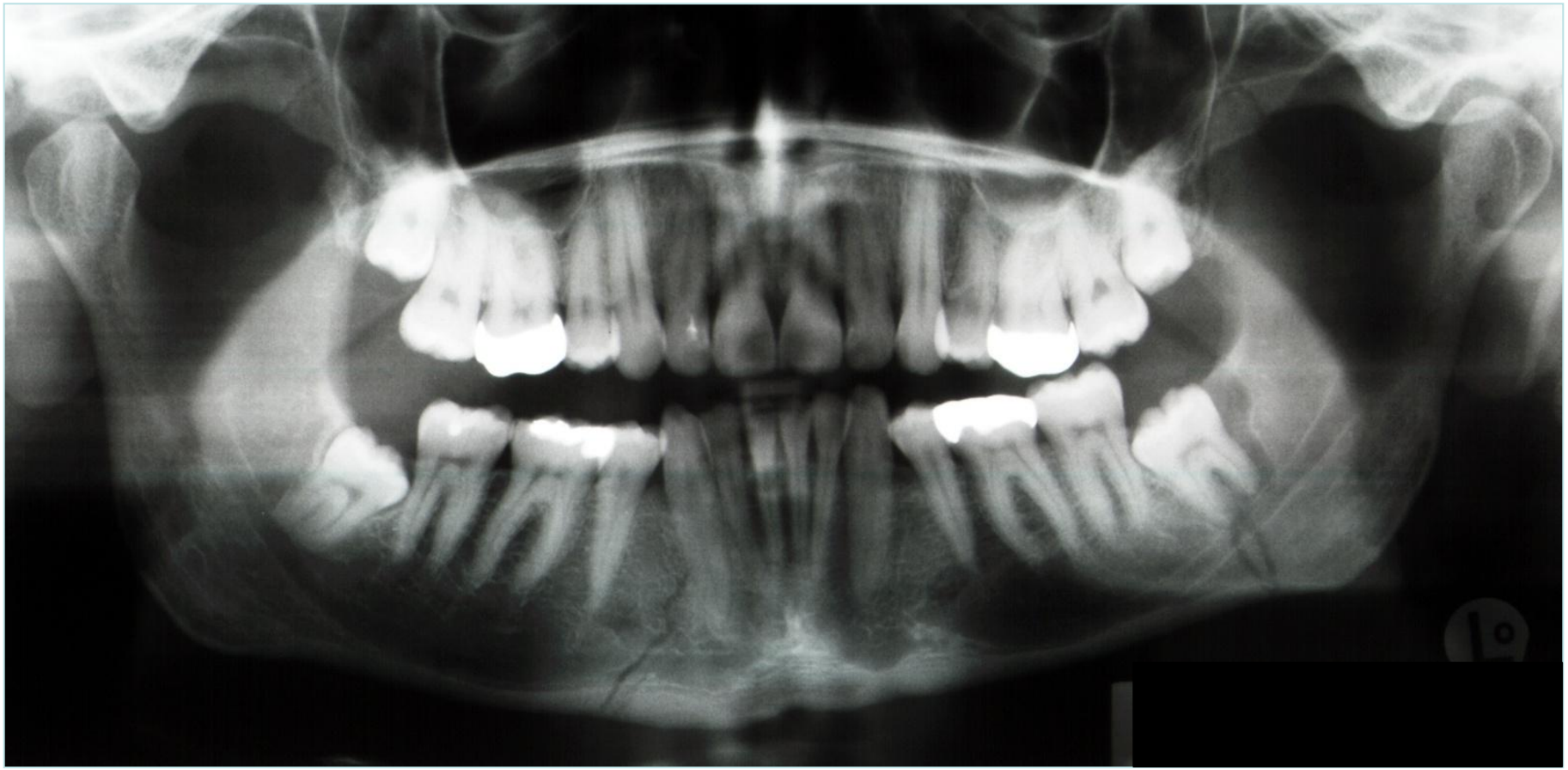
Middengezichtsfracturen

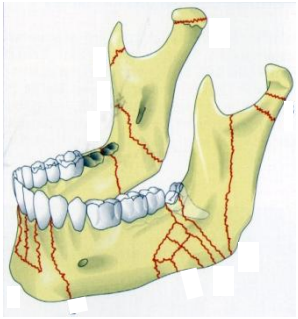




Onderkaakfracturen



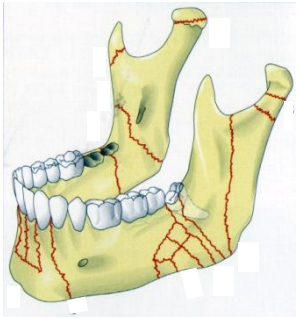




Onderkaakfracturen



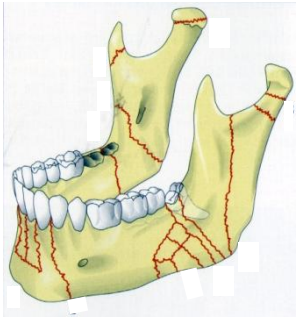
Deel I. Kenmerken



Onderkaakfracturen



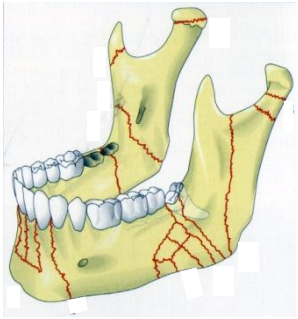
Deel II. Röntgenonderzoek



Onderkaakfracturen



Deel III. Therapie



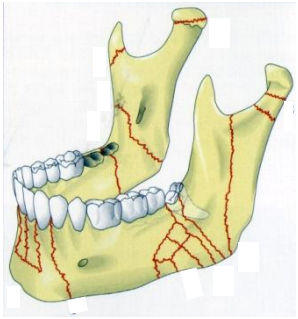
Onderkaakfracturen



Deel I. Kenmerken

= Leidraad voor

Anamnese & Klinisch onderzoek



Onderkaakfracturen



Deel I. Kenmerken

Localisatie van een fractuur

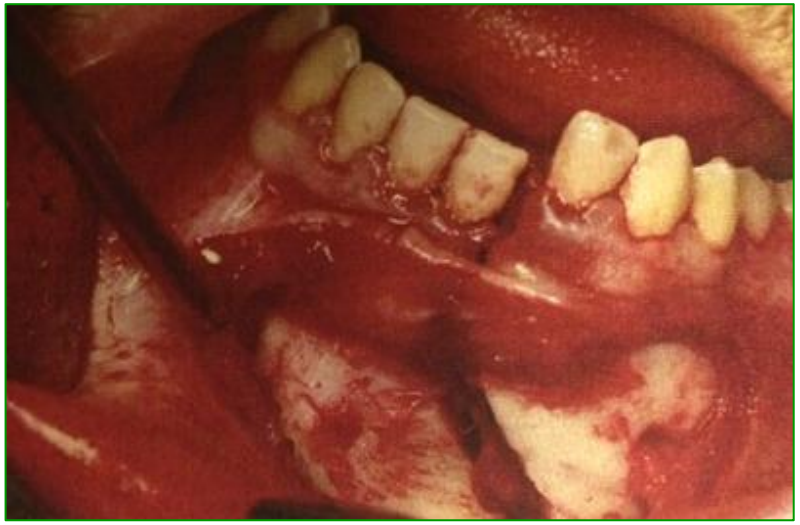
is logisch!

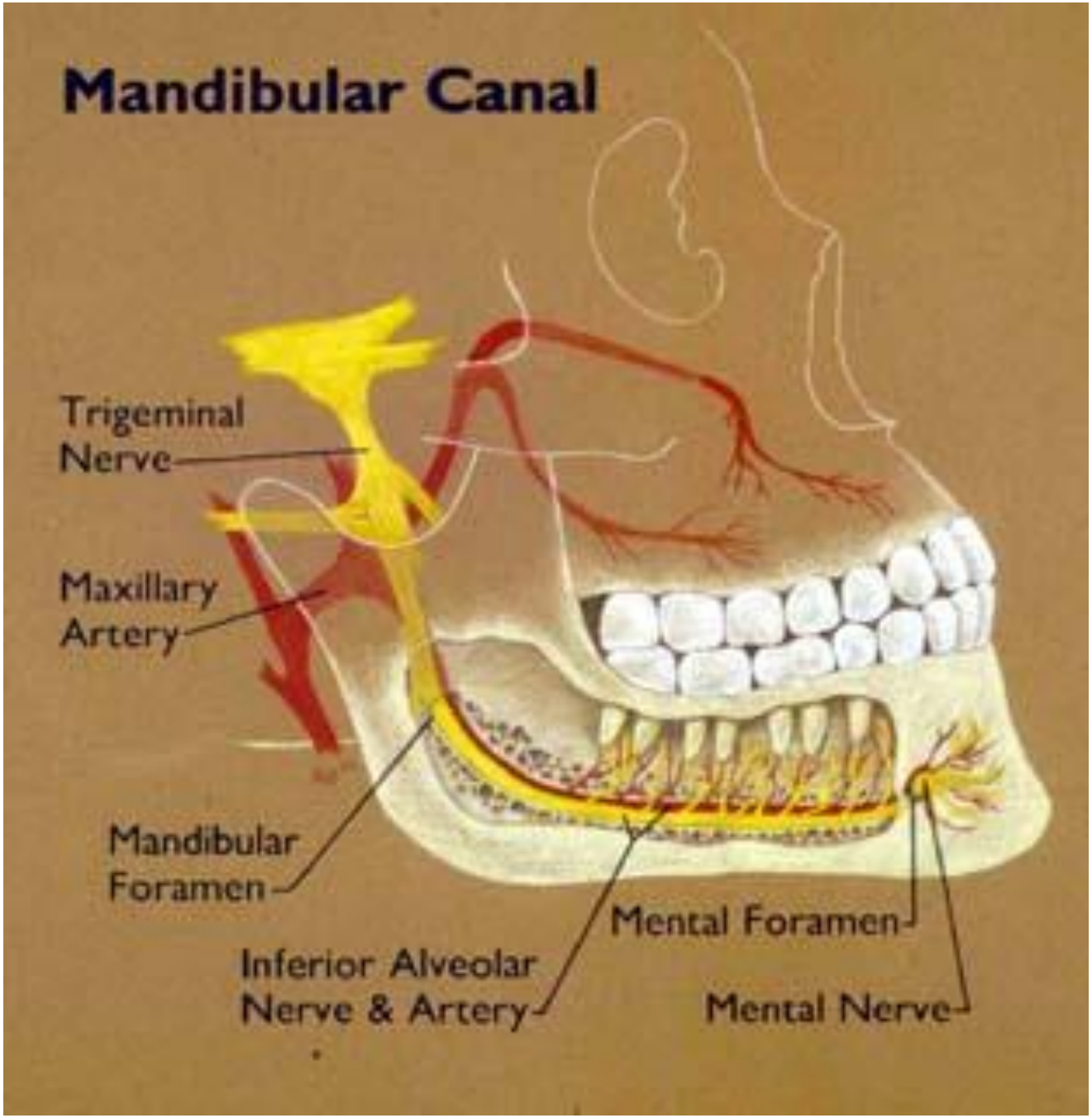
Occlusie

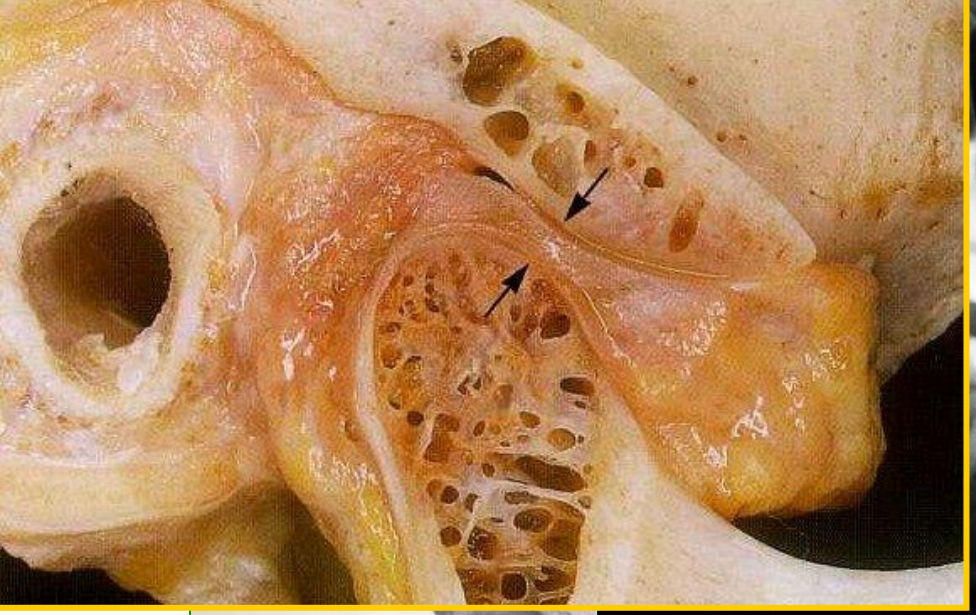




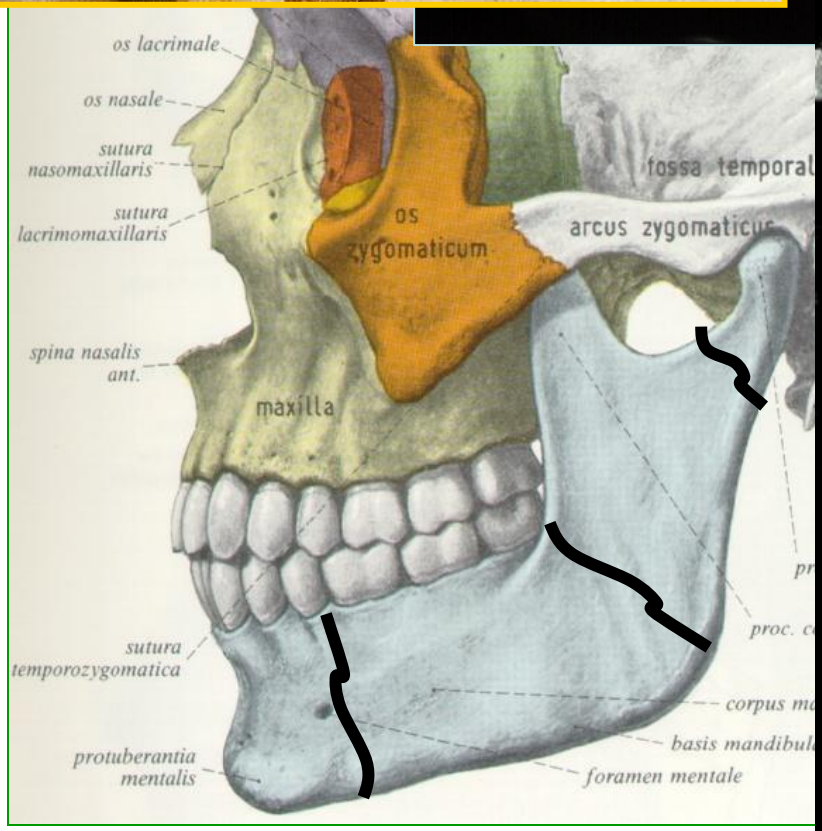




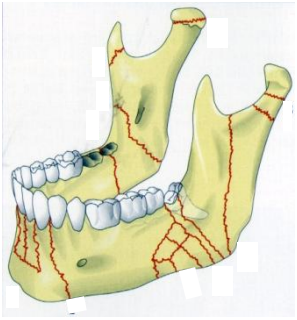

Mandibular Canal
Trigeminal Nerve
Maxillary Artery
Mandibular Foramen
Inferior Alveolar Nerve & Artery
Mental Foramen
Mental Nerve






os lacrimale
os nasale
sutura nasomaxillaris
sutura lacrimomaxillaris
os zygomaticum
fossa temporal
arcus zygomaticus
spina nasalis ant.
maxilla
sutura temporozygomatica
protuberantia mentalis
foramen mentale





Indeling onderkaakfracturen

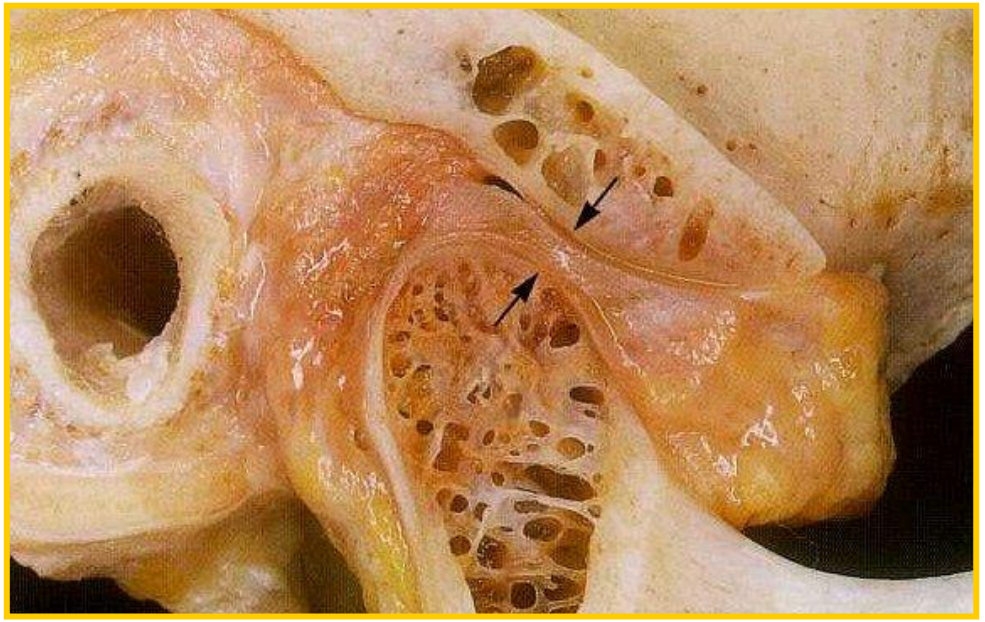


- intracapsulaire fractuur (capitulum)
- subcondylaire fractuur (collum) 20 %
- processus coronoideus fractuur
- ramus fractuur
- angulus fractuur 25 %
- corpusfractuur 50 %

Collumfractuur

- Asymmetrie: pre-auriculaire zwelling
- Deviatie naar gefractureerde zijde
- Bewegingsbeperking mandibula
- Pijn bij openen / oorpijn
- Vaak malocclusie
- (soms bloed uit oor)



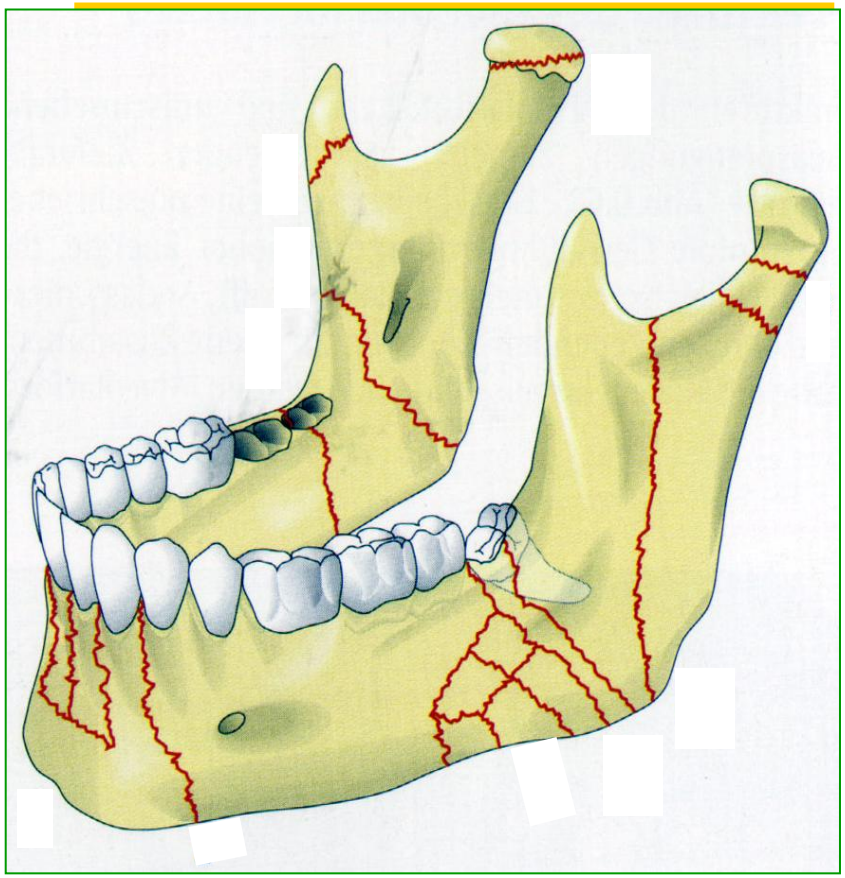


Angulusfractuur



Angulusfractuur

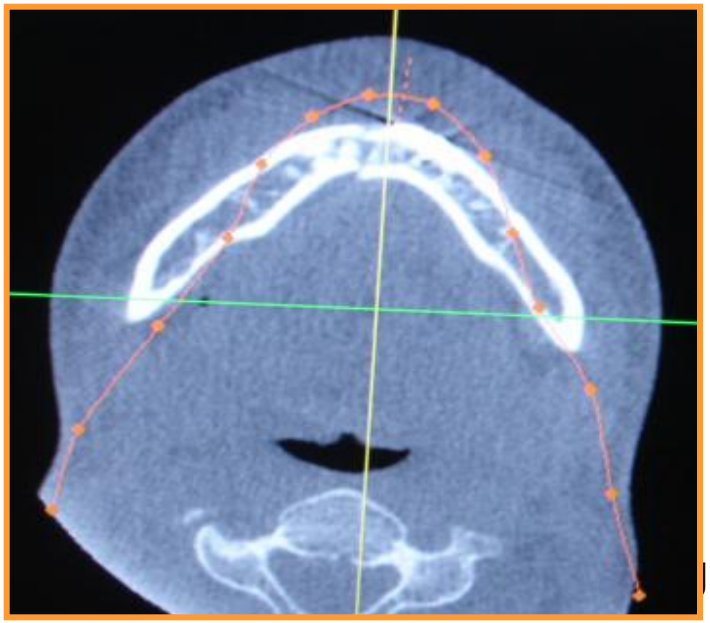


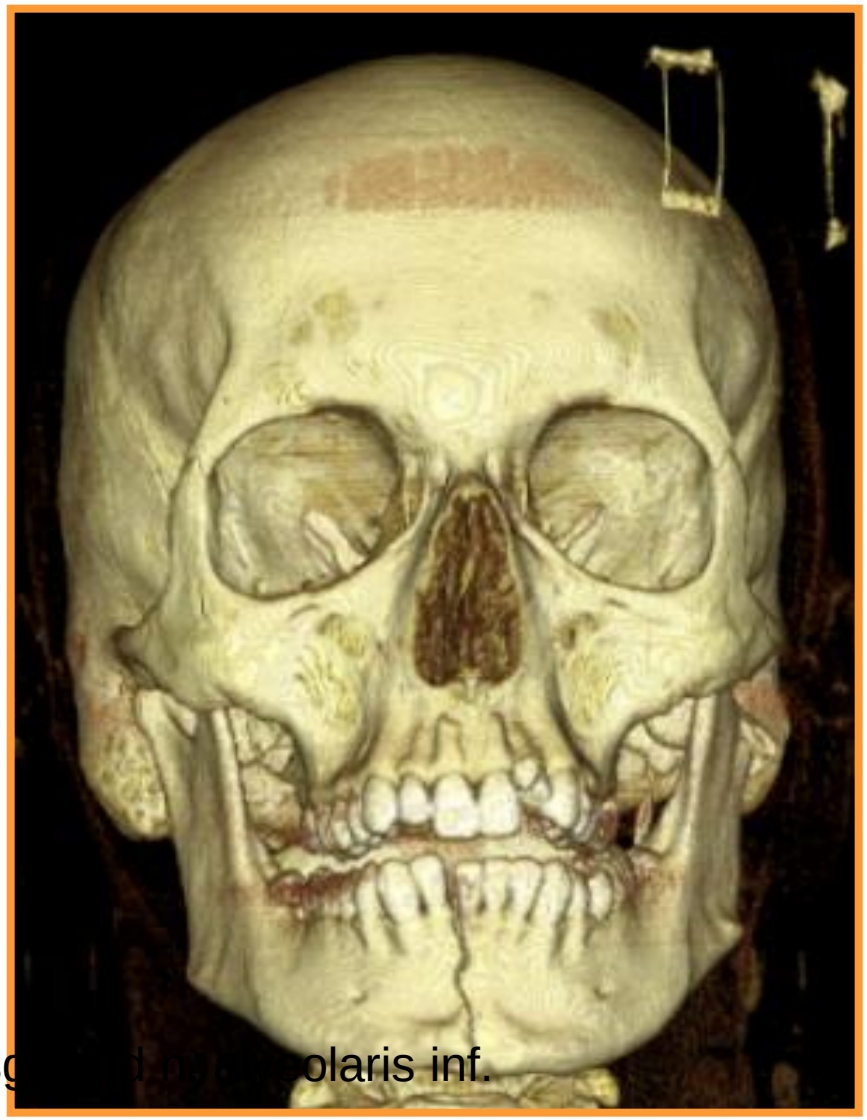


- Trismus
- (evt.) Malocclusie
- Paresthesie / Anesthesie in het verzorgingsgebied n. alveolaris inferior

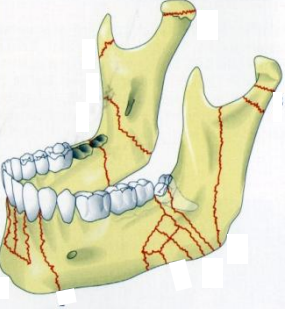
Corpusfractuur

- Mediaan / Paramediaan
- Faciale asymmetrie
- [Crepitatie]
- Hematoom buccale omslagplooi
- Hematoom mondbodem





ingsg d n. olaris inf.



Atypische Onderkaakfracturen



E189 Bosch GWS 24-230 Profi - Haakse slijper, 2400 Watt MERK: Bosch

Elektrisch gereedschap - Haakse slijpers - Bosch GWS 24-230 Profi - Haakse slijper, 2400 Watt
Artikelcode: B137298

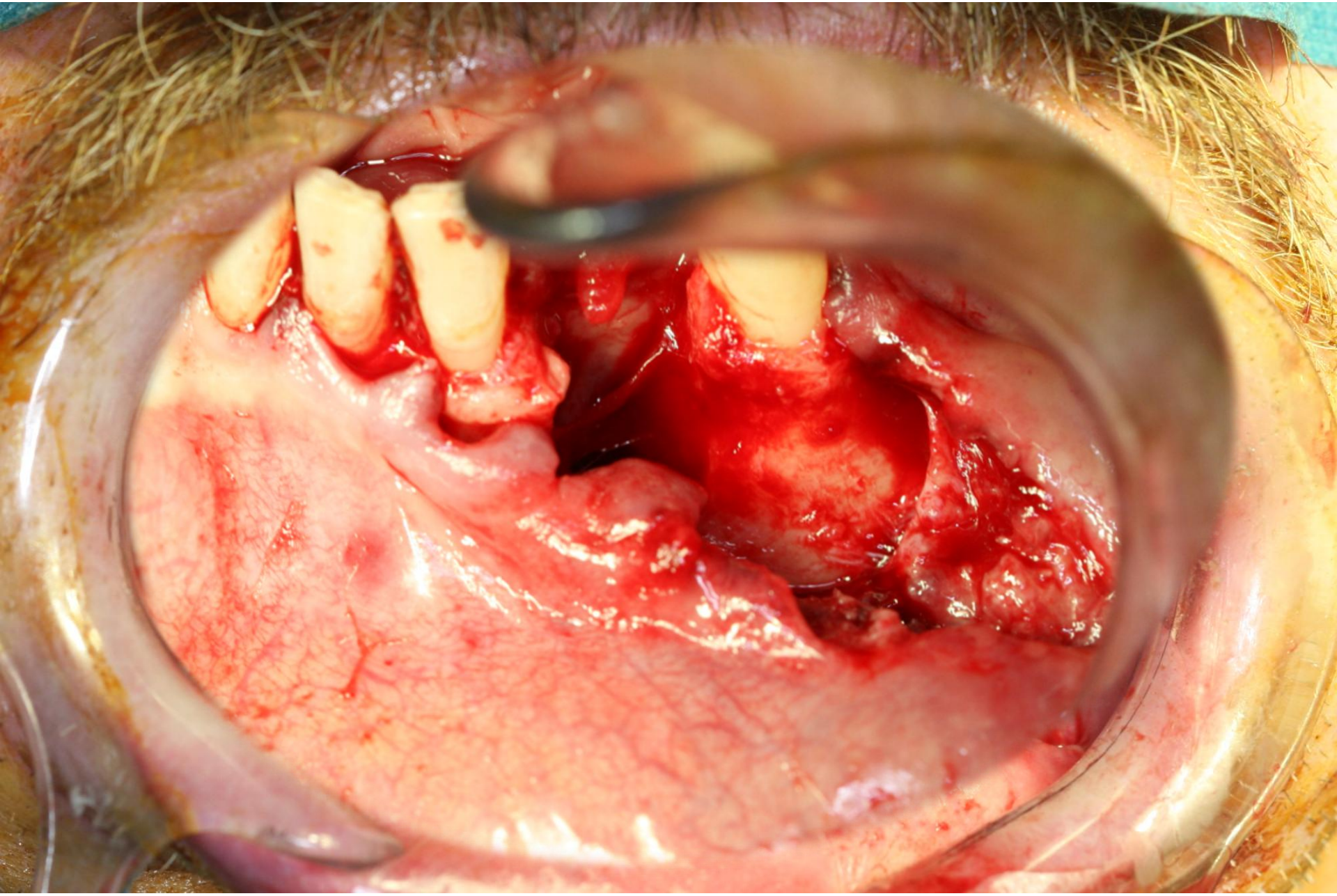


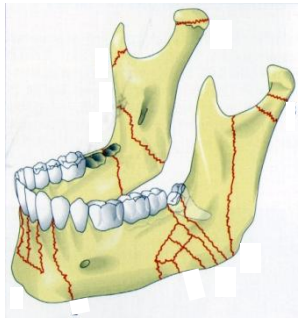
Technische specificaties - GWS 24-230 Profi: - Nominaal vermogen: 2400 Watt - Asvergrendeling - Onbelast toerental: 6500 1/min - Slijpschijf-Ø: 23 cm - Schroefdraad slijp-as: M 14 - Spanmoer - Montageflens - Beschermkap Gewicht : - 4,4kg

- Titel: Bosch GWS 24-230 Profi - Haakse slijper, 2400 Watt
- Categorie: Elektrisch gereedschap - Haakse slijpers
- Typenummer: GWS 24-230 Profi
- EAN: 3165140304177

- Verzendkosten: 7,49
- Levertijd (indicatie): direct leverbaar (Klik op meer informatie voor de werkelijke voorraad)







Onderkaakfracturen



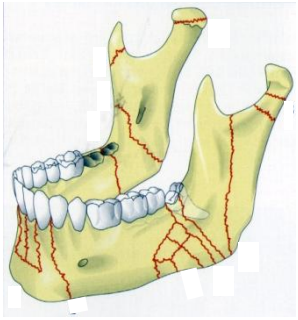
Deel II Röntgenonderzoek

De keuze van het uit te voeren

röntgenonderzoek wordt dan ook
= Ondersteuning van

bepaald door de info uit

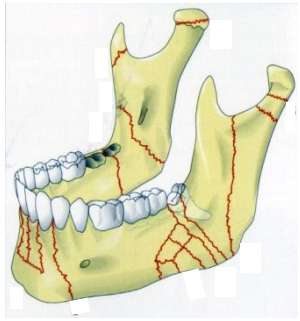
Anamnese & Klinisch onderzoek
Anamnese & Klinisch onderzoek



Onderkaakfracturen

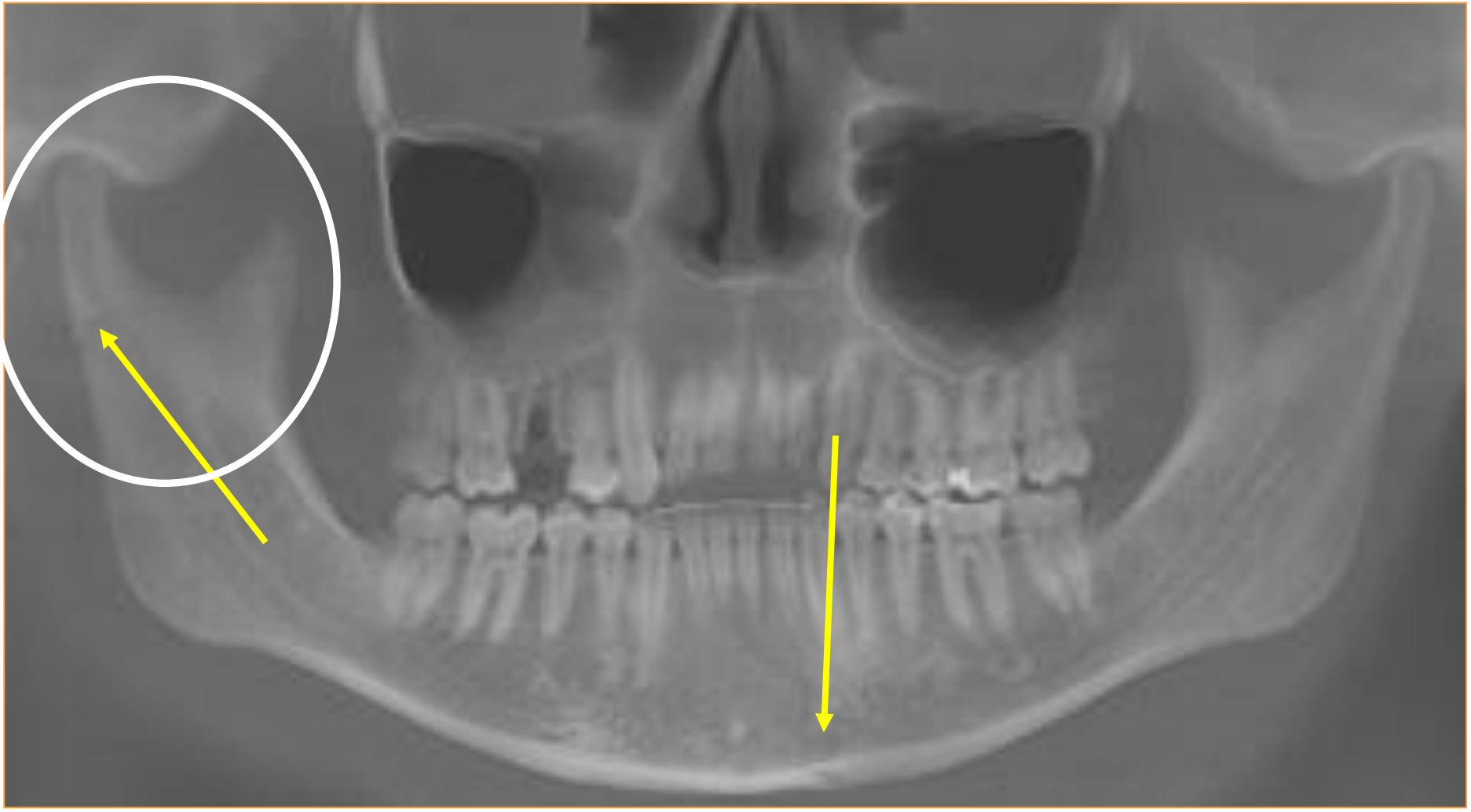


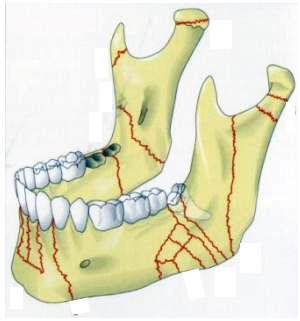




Cone beam CT

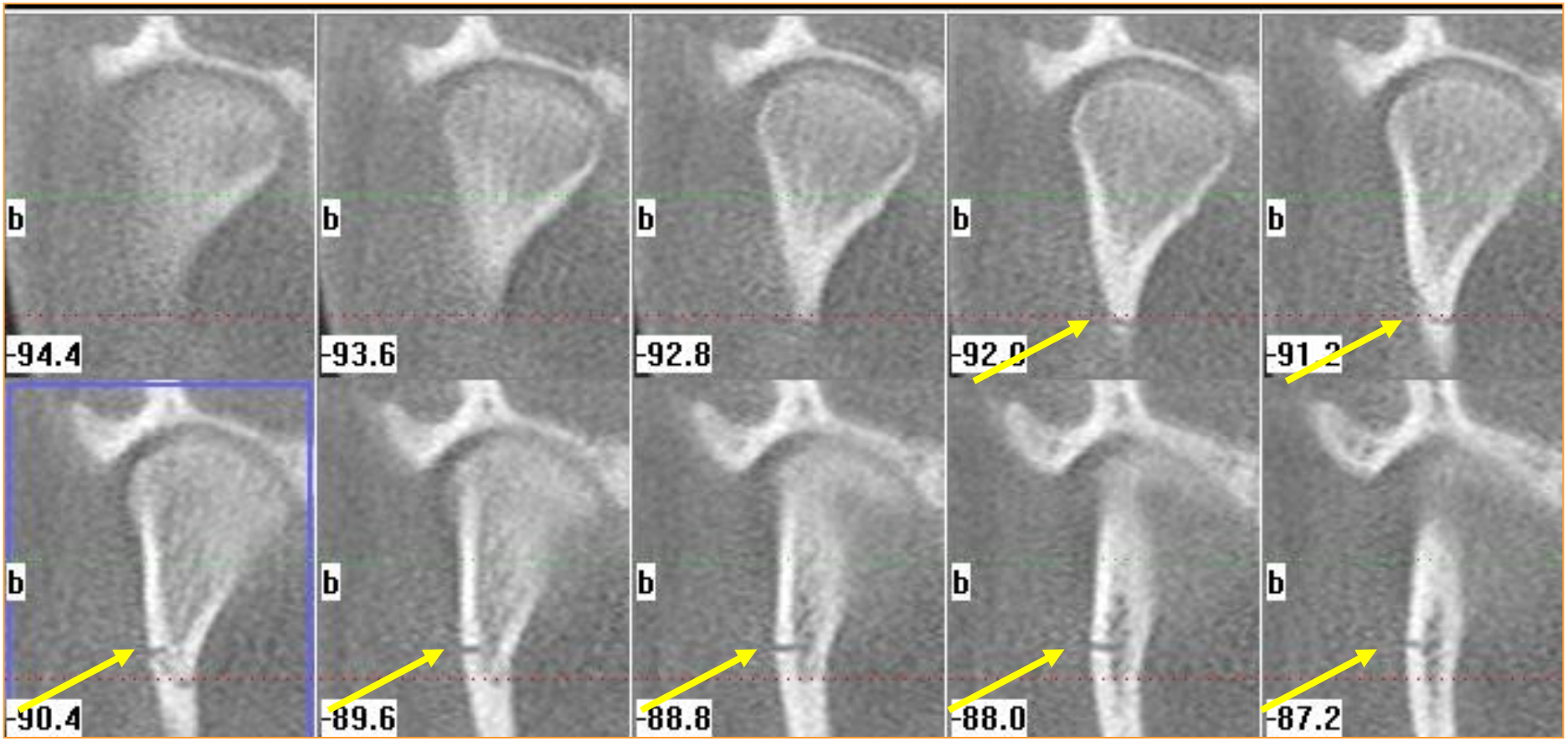


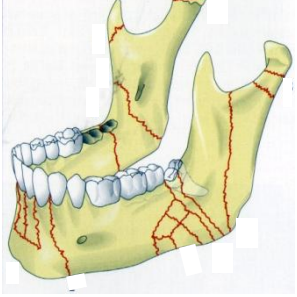




Onderkaakfracturen



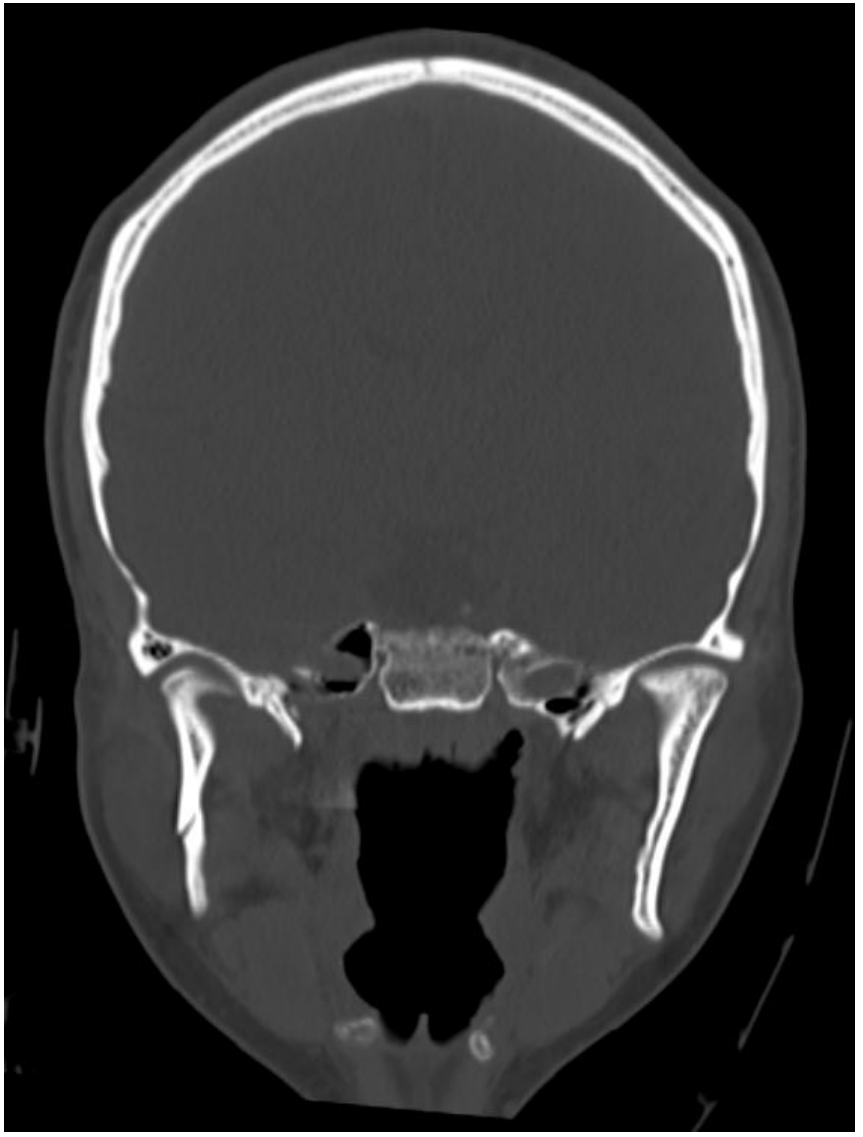


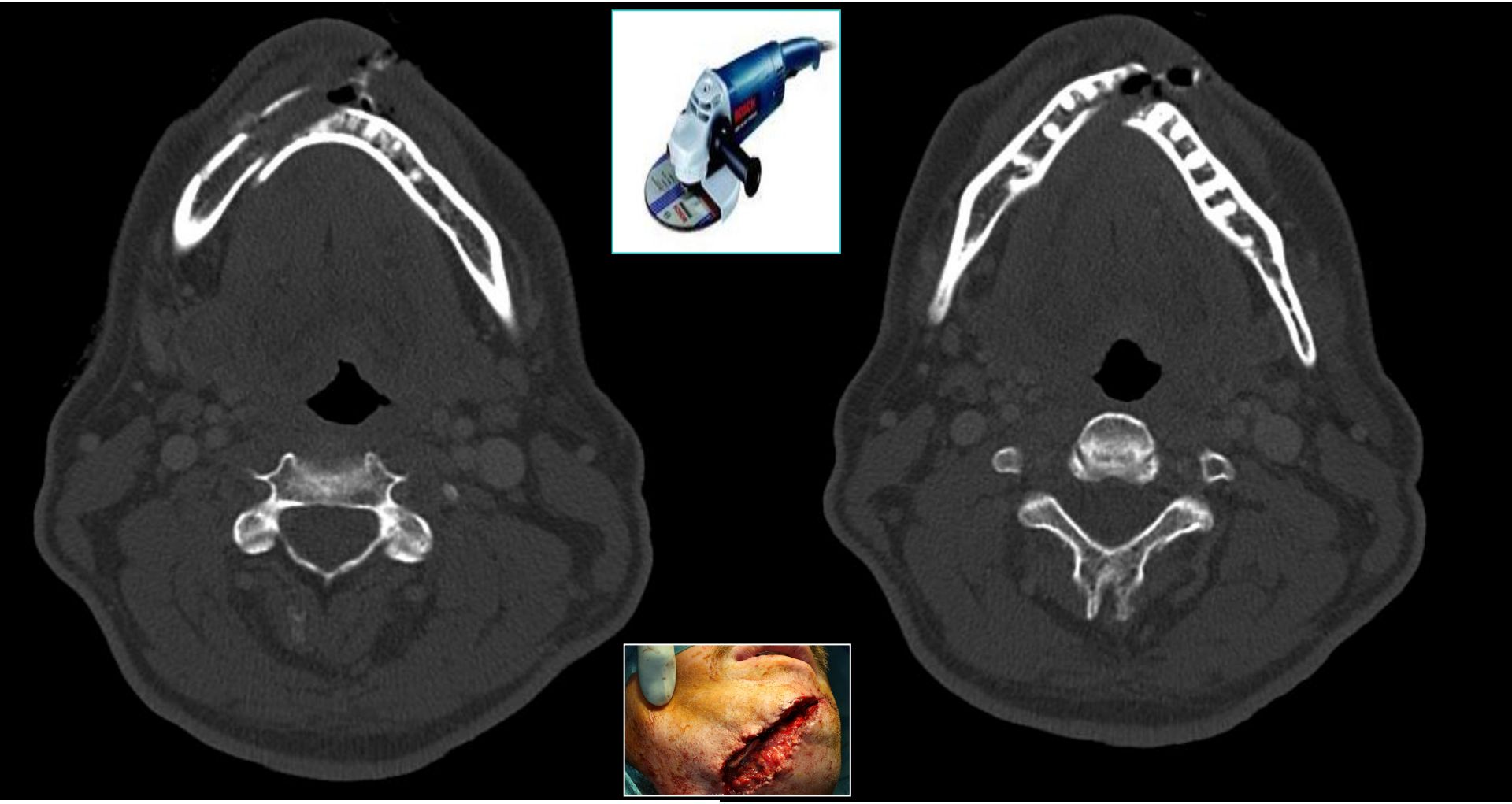


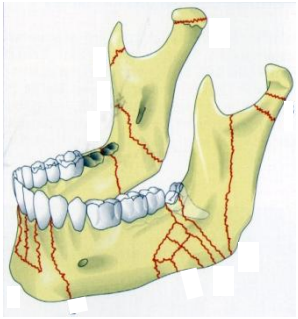
CT











Onderkaakfracturen



Deel III. Therapie

Reponeren

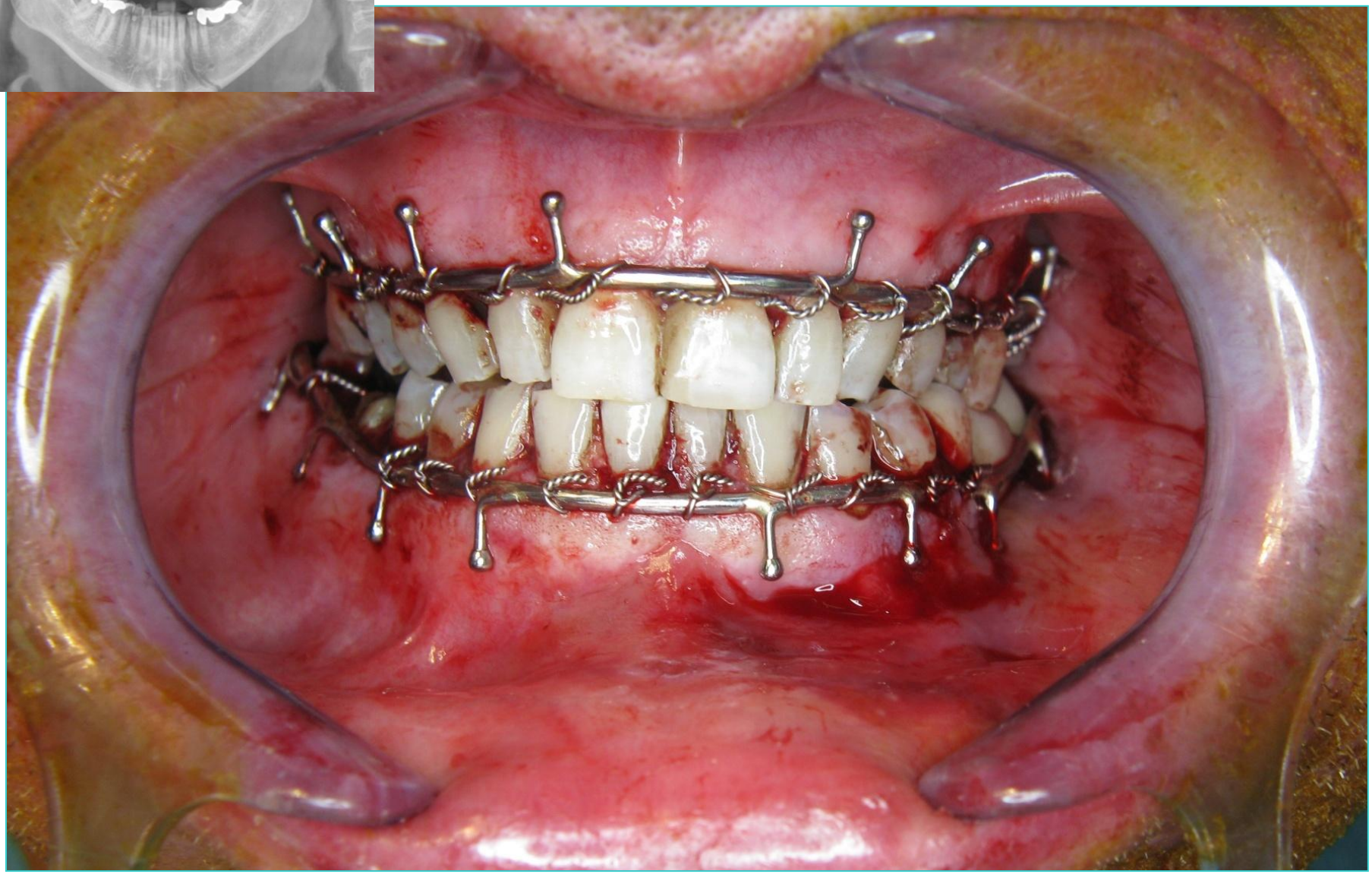
Fixeren



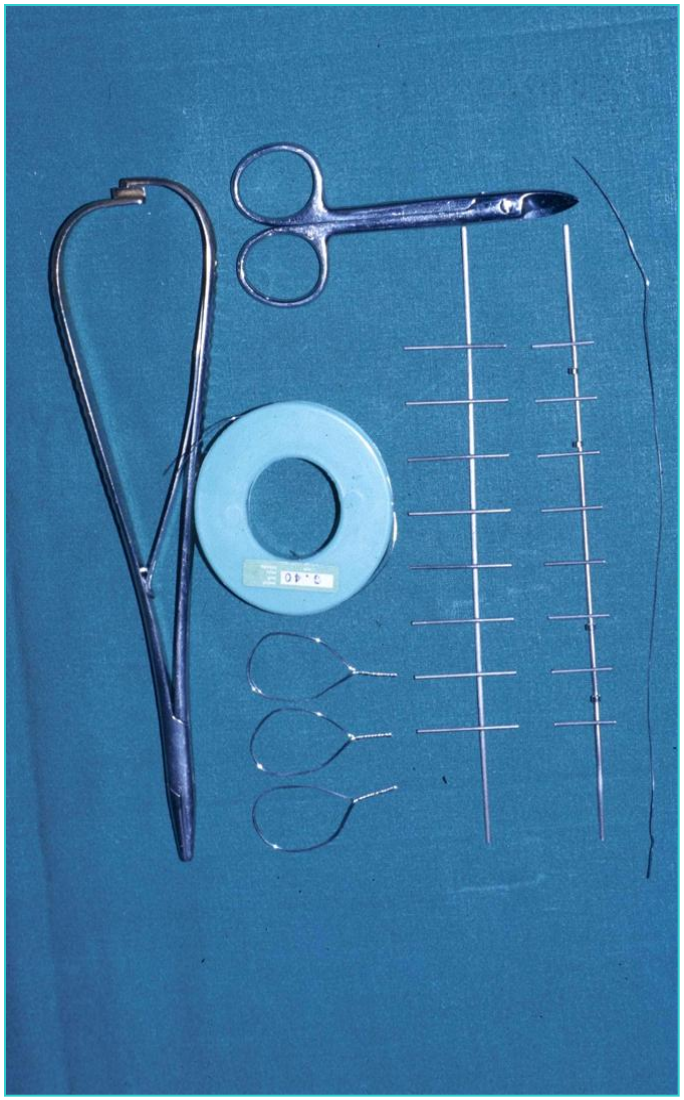




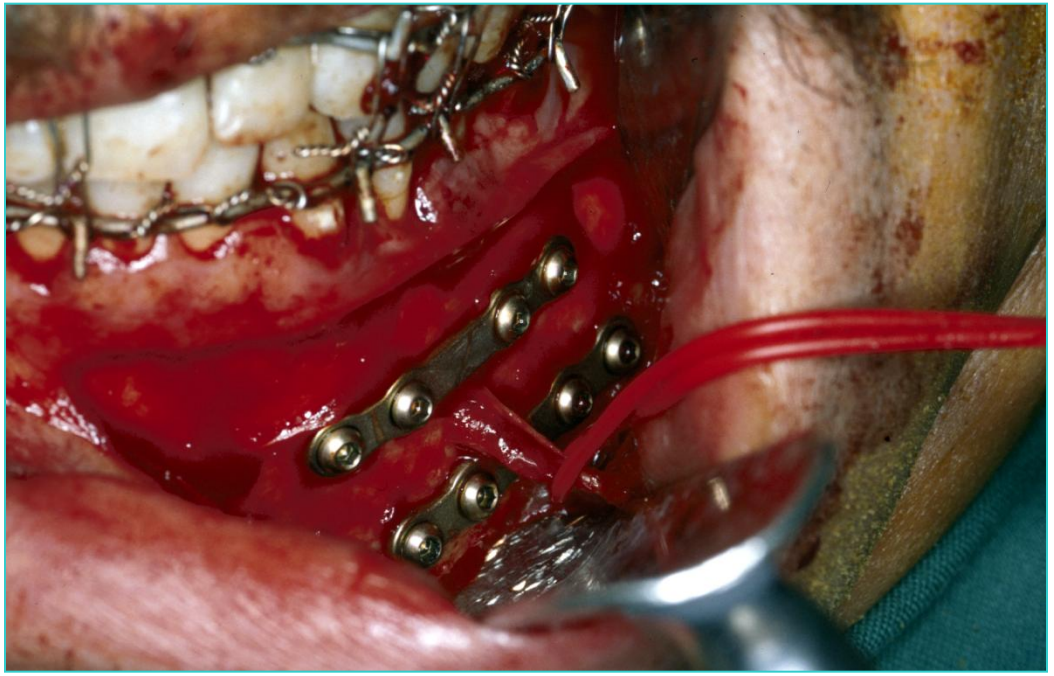


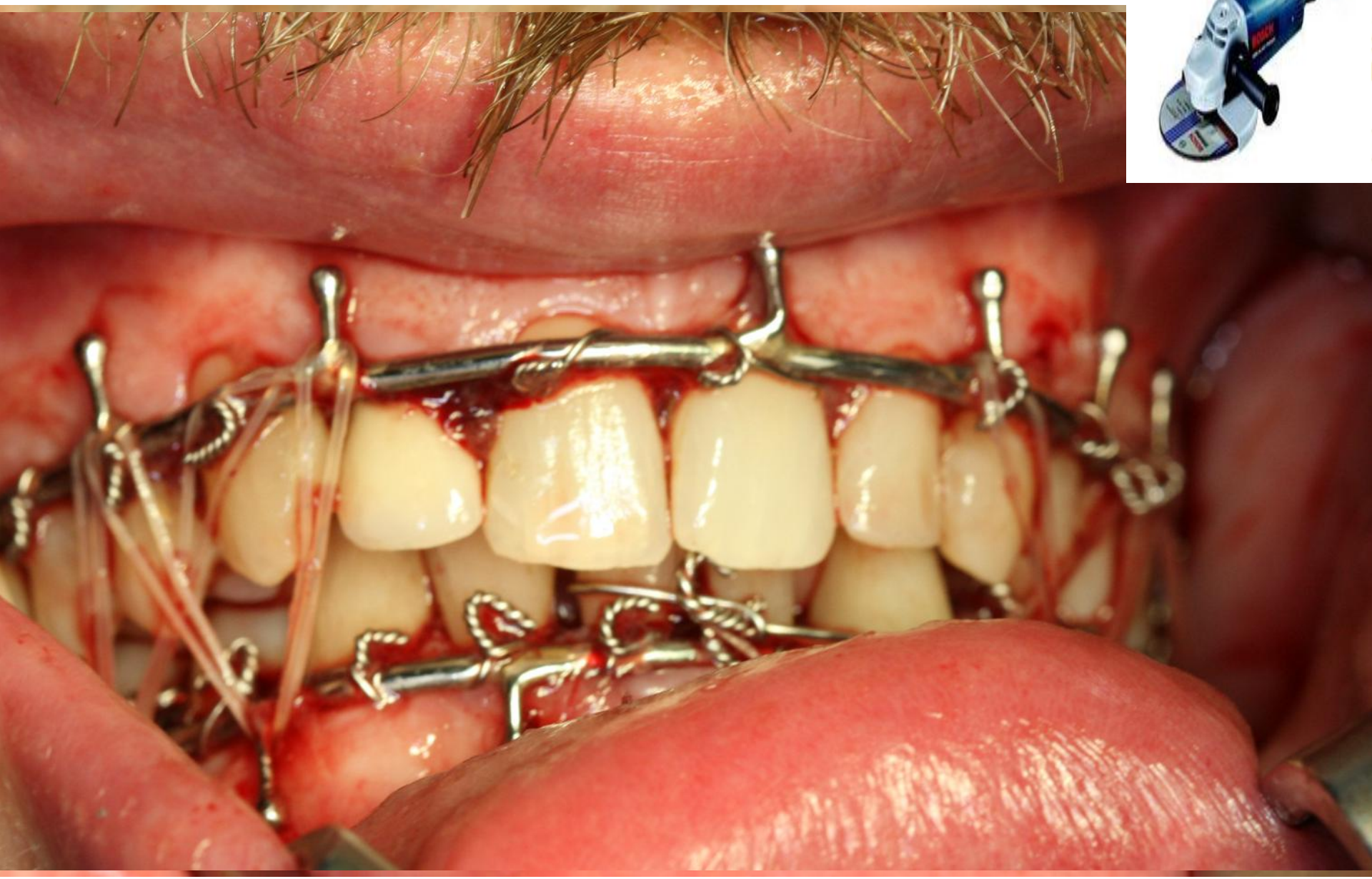


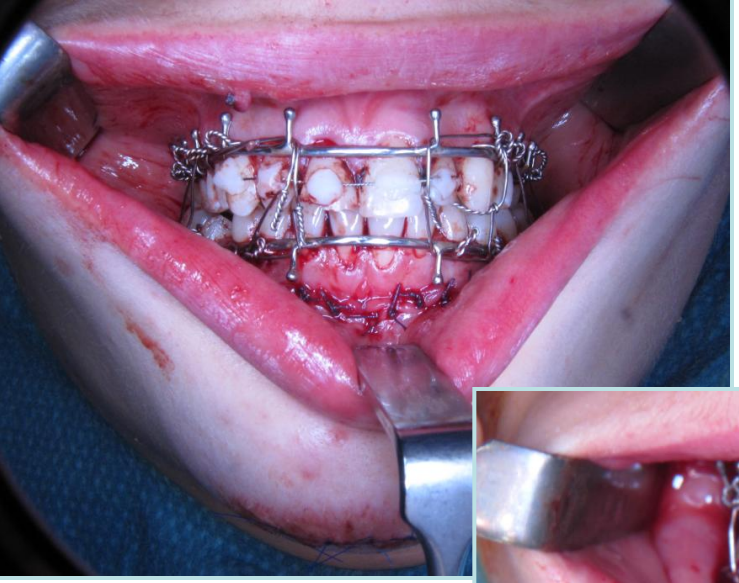
Therapie



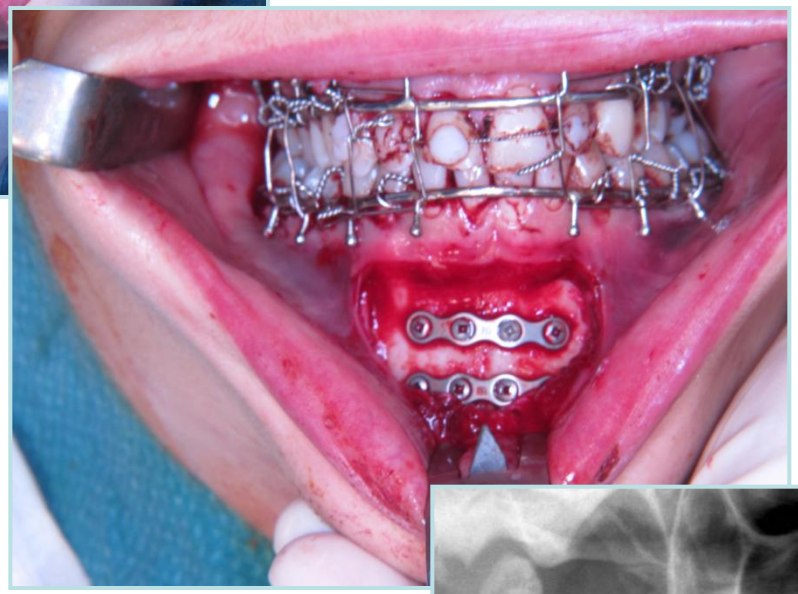


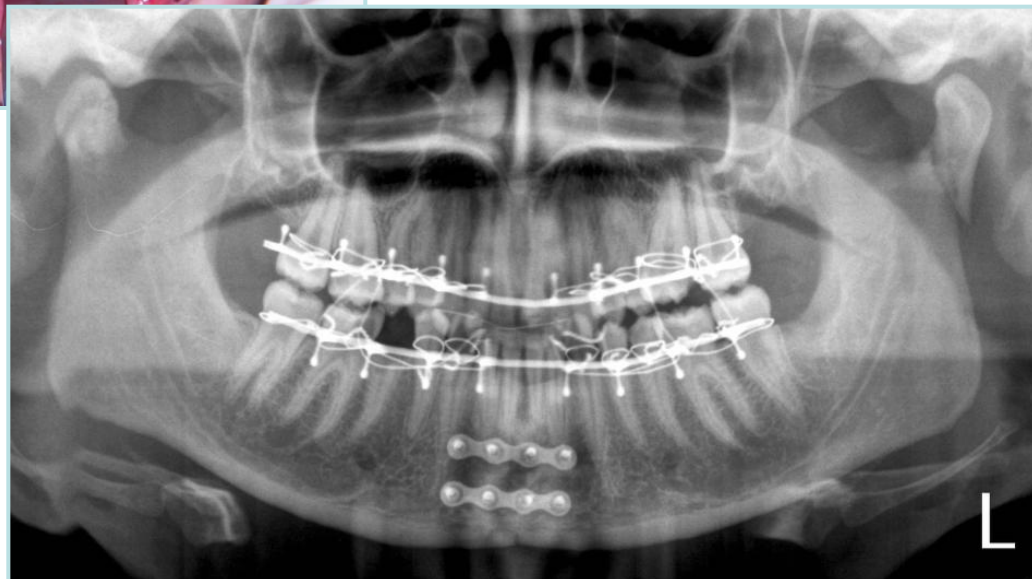


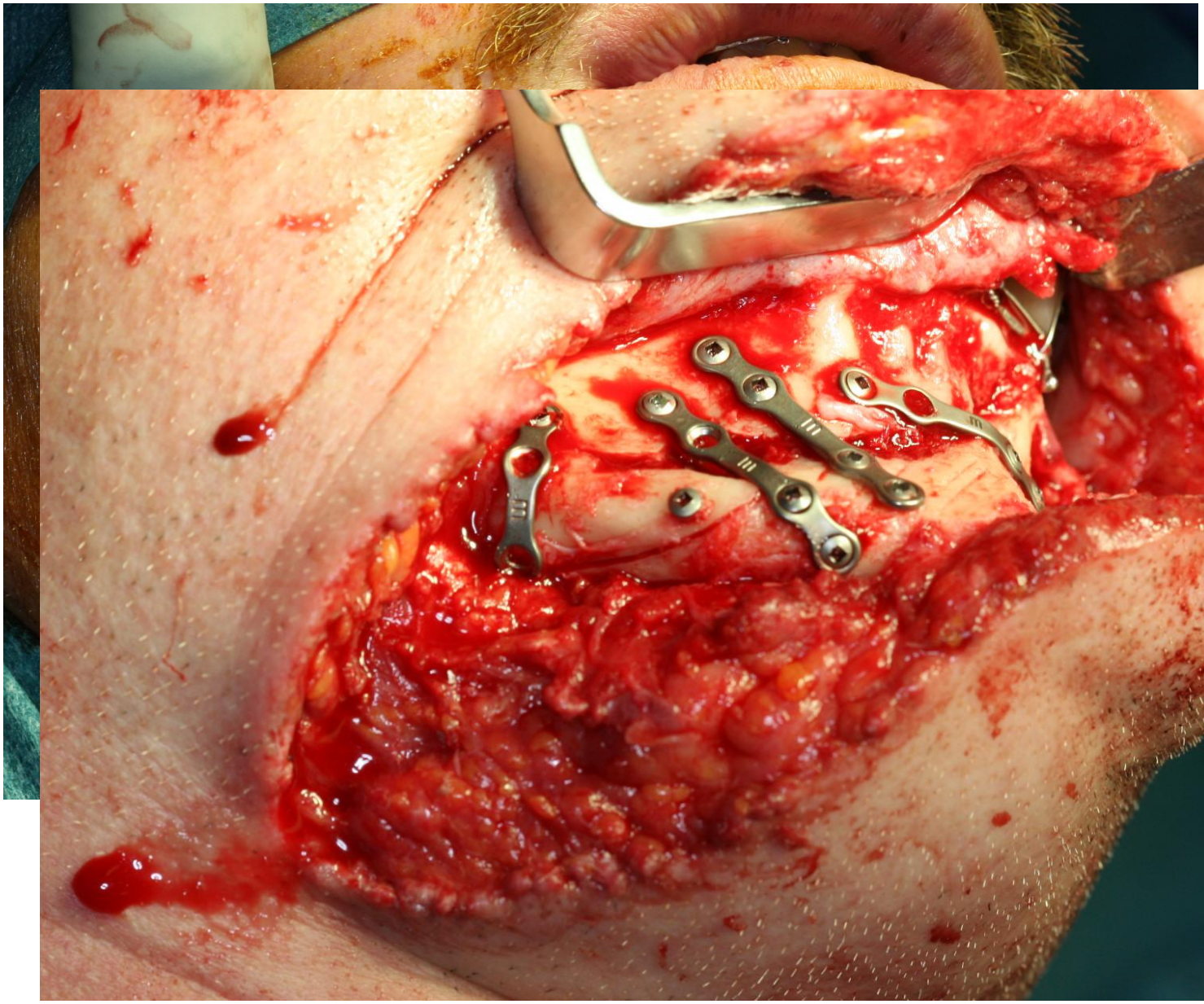









L

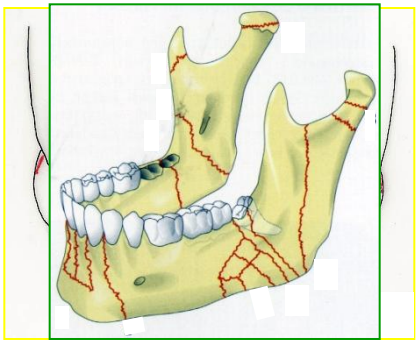


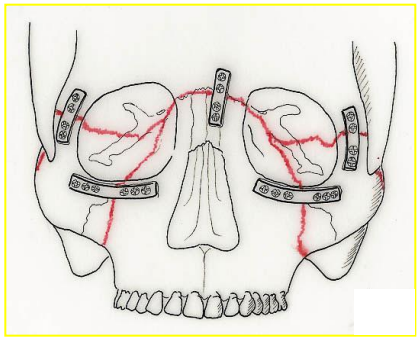






$E_{kin} = \frac{1}{2} mv^2$

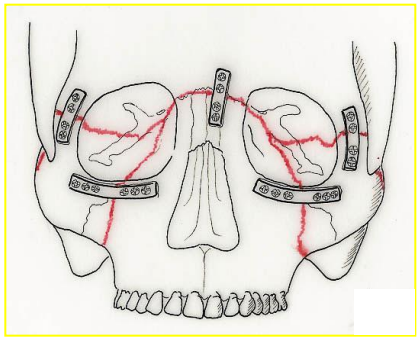
	m = klein	m = groot
v = klein		
v = groot		



Middengezichtsfracturen



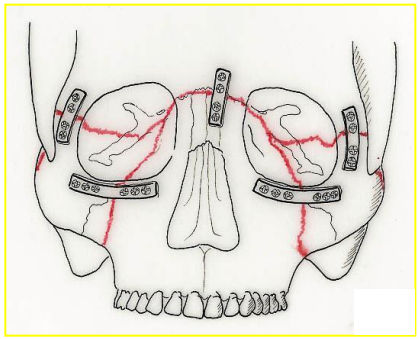
Deel I. Kenmerken



Middengezichtsfracturen



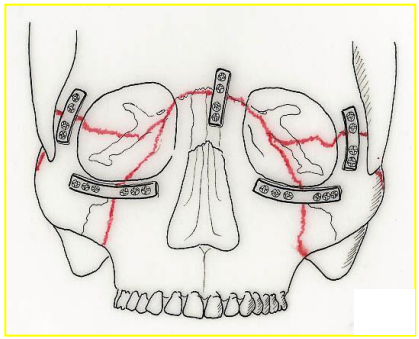
Deel II. Röntgenonderzoek



Middengezichtsfracturen



Deel III. Behandeling



Middengezichtsfracturen

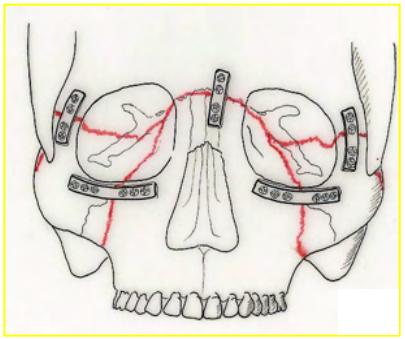


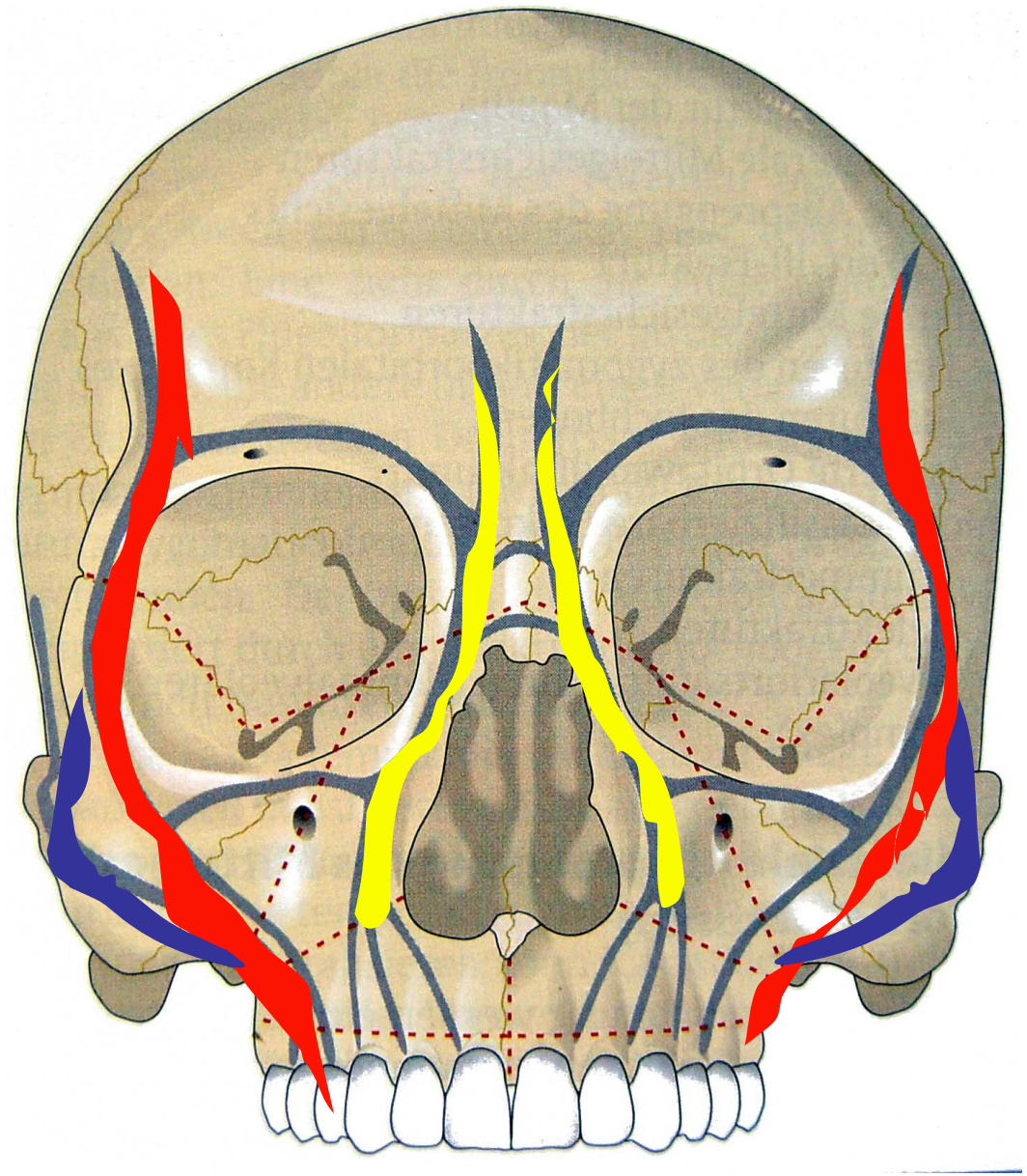
Deel I. Kenmerken

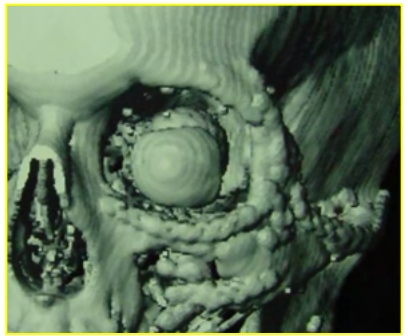
Localisatie van een fractuur

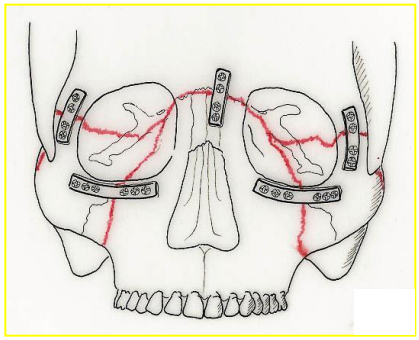
is logisch!

Middengezichtsfracturen





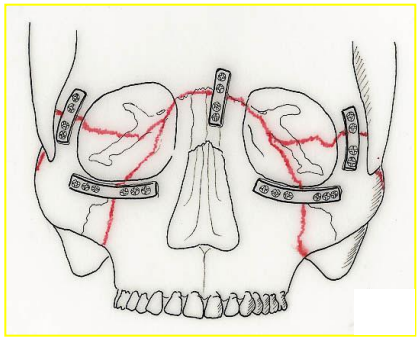




Indeling

Middengezichtsfracturen





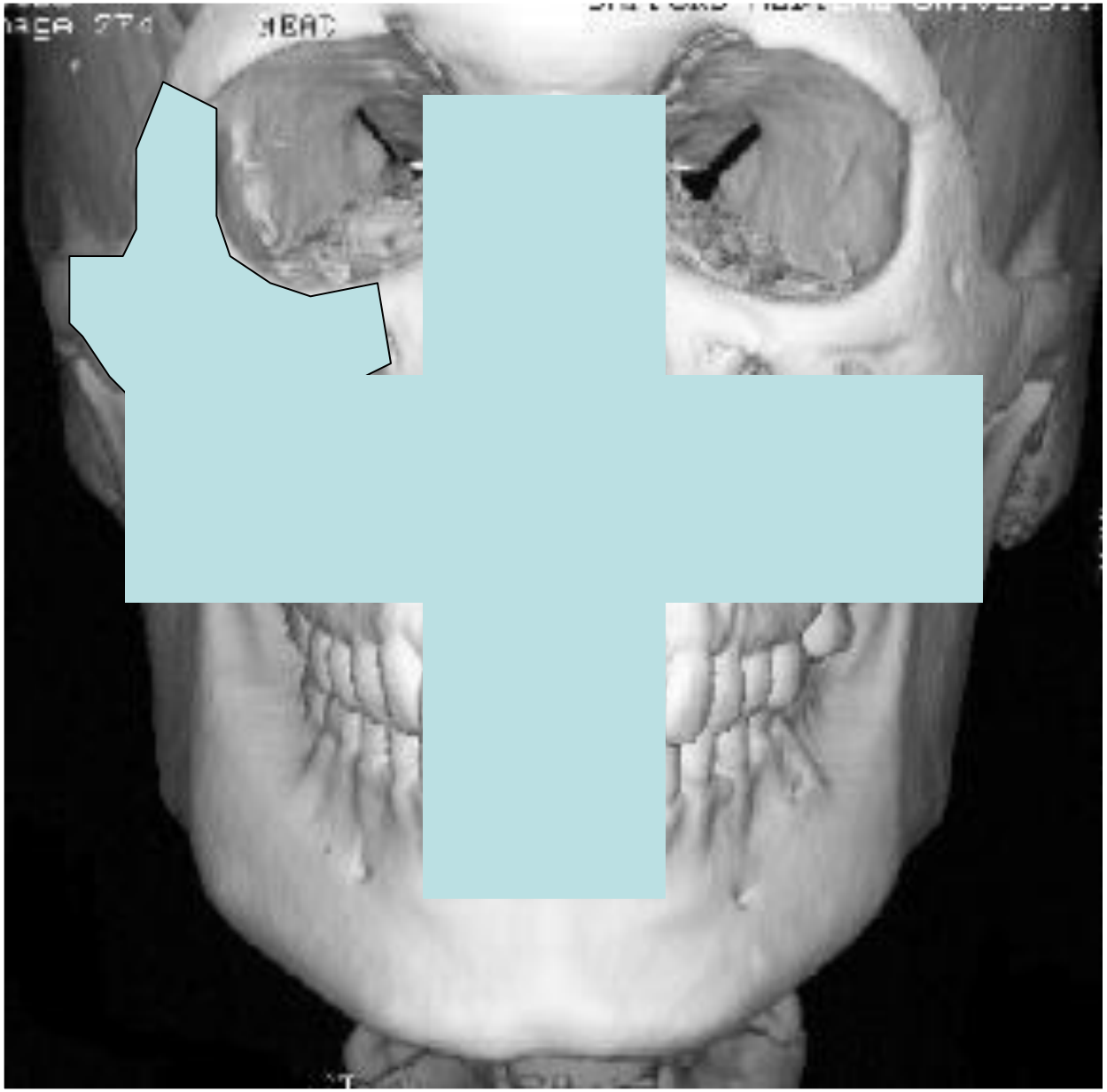
Indeling

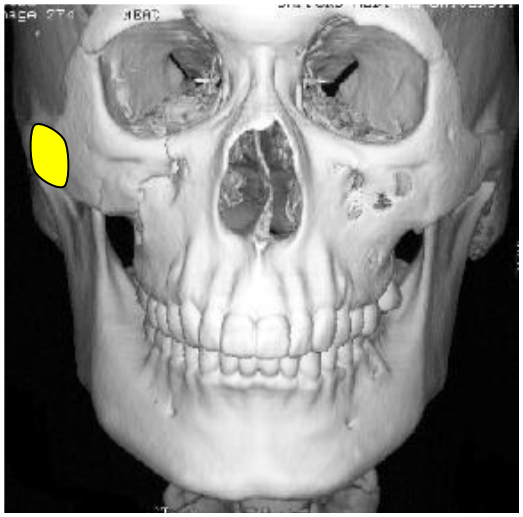
Middengezichtsfracturen



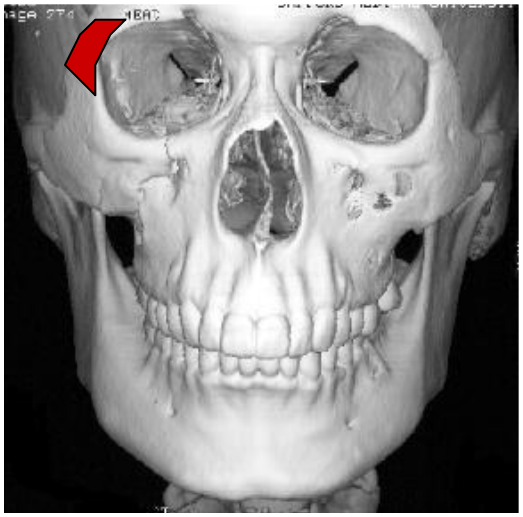
• Os zygomaticum fractuur	40 - 50 %
• Neusfractuur	15 - 20 %
• Le Fort (I,II,III) fractuur	10 – 15 %
• Arcus zygomaticus fractuur	10 – 12 %
• Orbitabodem fractuur (blow-out)	5 – 10 %
• Naso-orbito-ethmoidale fracturen	ca. 5%
• Sinus frontalis fractuur	ca. 5%
• Panfaciale fracturen	ca. 5%

Zygoma Anatomie





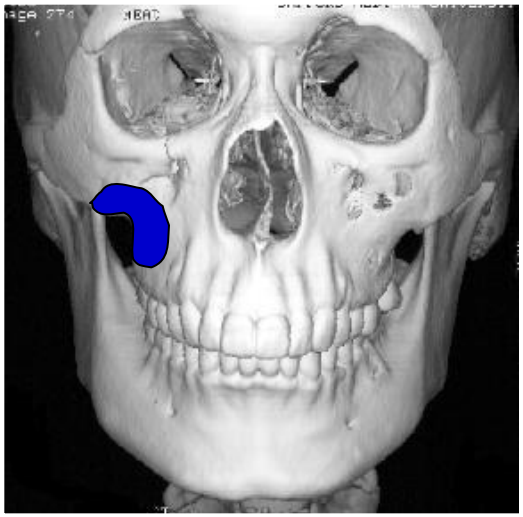
Voor-
hoofd



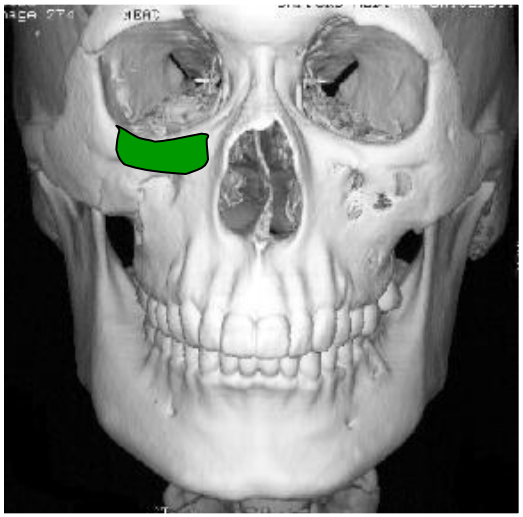
arcus

Jukbeen

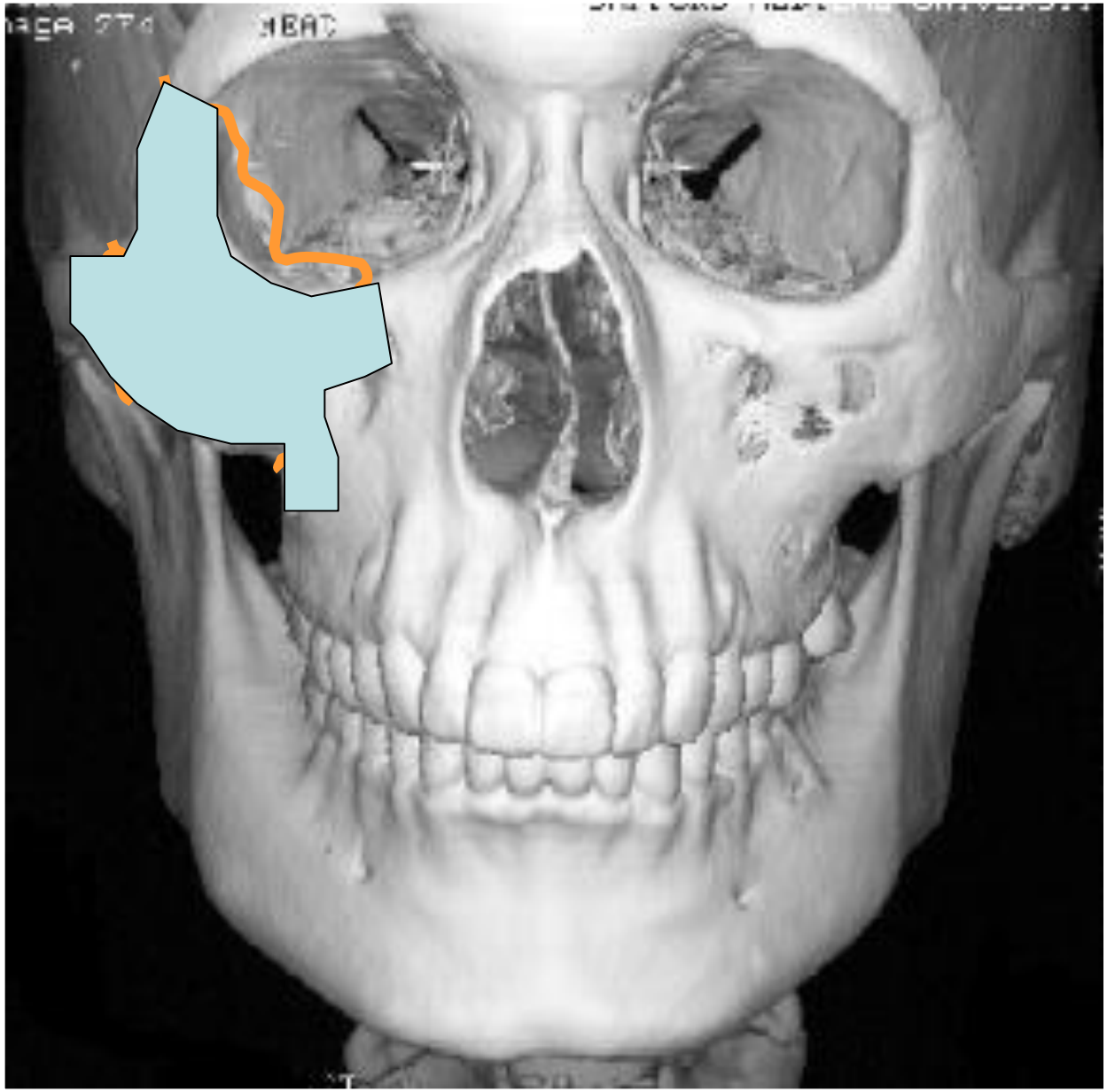
Infra-
orbitale
rand



Boven-
kaak



Zygomafractuur



Zygomafractuur

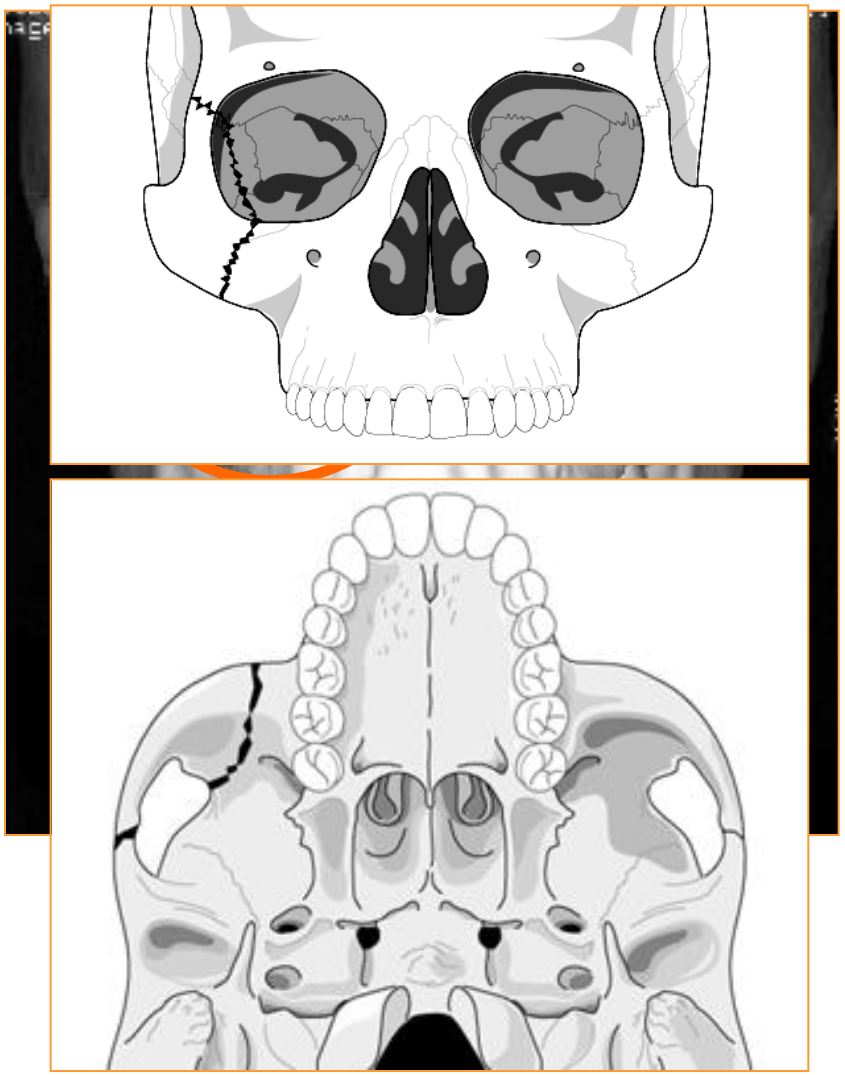
- Peri-orbitaal hematoom en/of oedeem
- Subconjunctivale ecchymosis





Zygomafractuur

- Peri-orbitaal hematoom en/of oedeem
- Subconjunctivale ecchymosis
- Paresthesie n. infra-orbitalis gebied
- Steps orbitarand
- Crepitatie cq. step buccale omslagplooi
- Hematoom buccale omslagplooi
- Asymmetrie aangezicht
- Oogbolverplaatsing
- Diplopie
- Enophthalmus
- Epistaxis



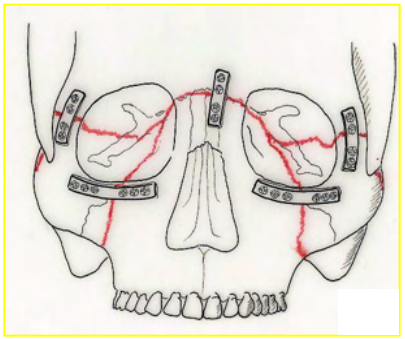
Indeling

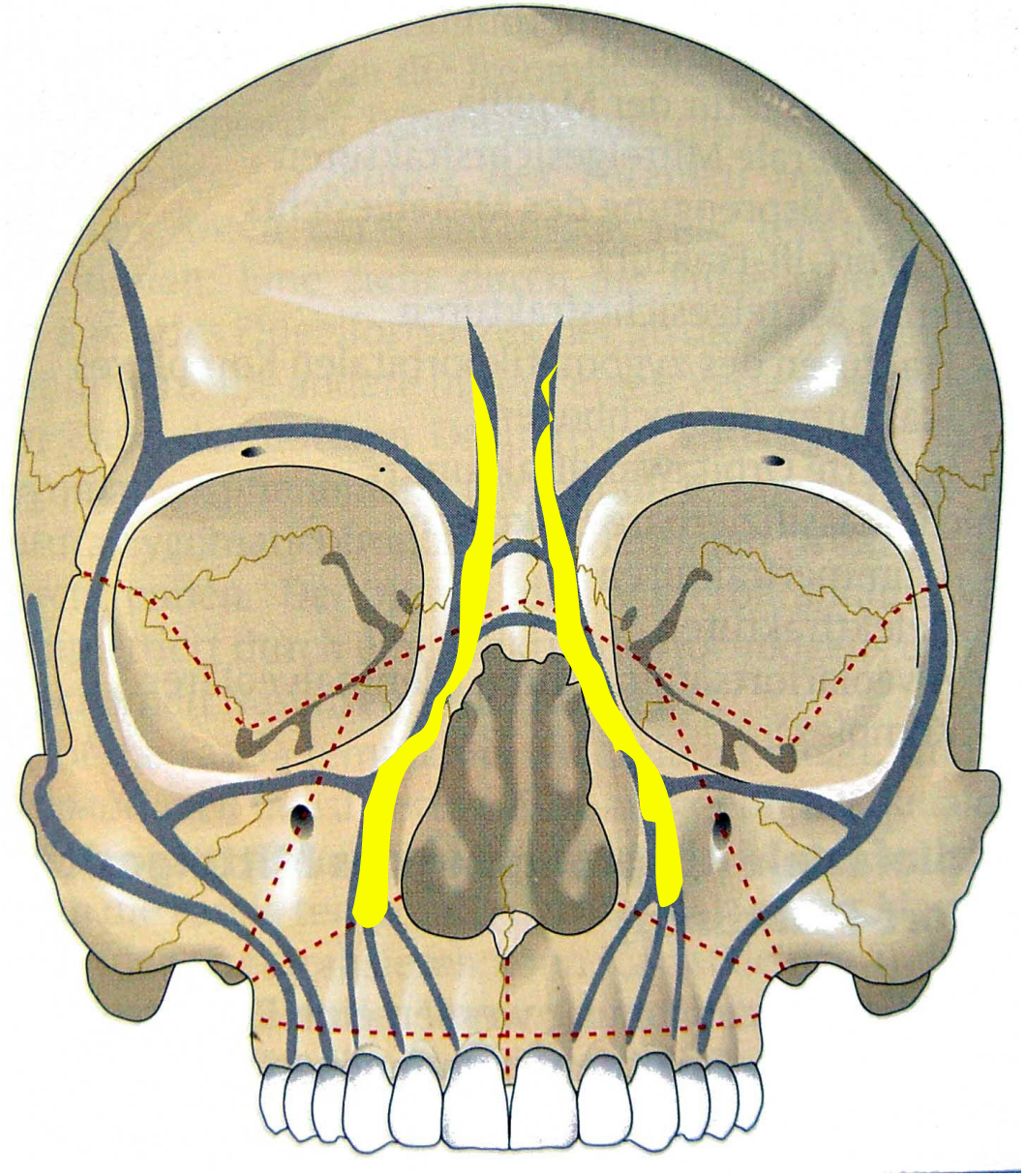
Middengezichtsfracturen

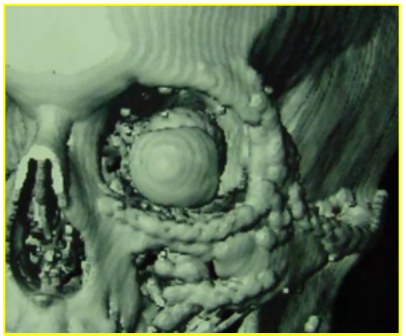


• Os zygomaticum fractuur	40 - 50 %
• Neusfractuur	15 - 20 %
• Le Fort (I,II,III) fractuur	10 – 15 %
• Arcus zygomaticus fractuur	10 – 12 %
• Orbitabodem fractuur (blow-out)	5 – 10 %
• Naso-orbito-ethmoidale fracturen	ca. 5%
• Sinus frontalis fractuur	ca. 5%
• Panfaciale fracturen	ca. 5%

Neusfractuur





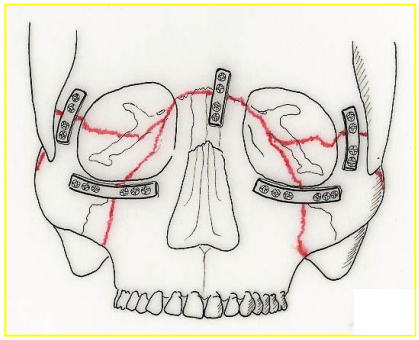


Neusfractuur





- Epistaxis
- Faciale asymmetrie
- Luchtwegobstructie
- [Crepitatie]
- Evt. neusseptumdeviatie
- Peri-orbitaal hematoom
- Evt. subconjunctivale ecchymose



Indeling

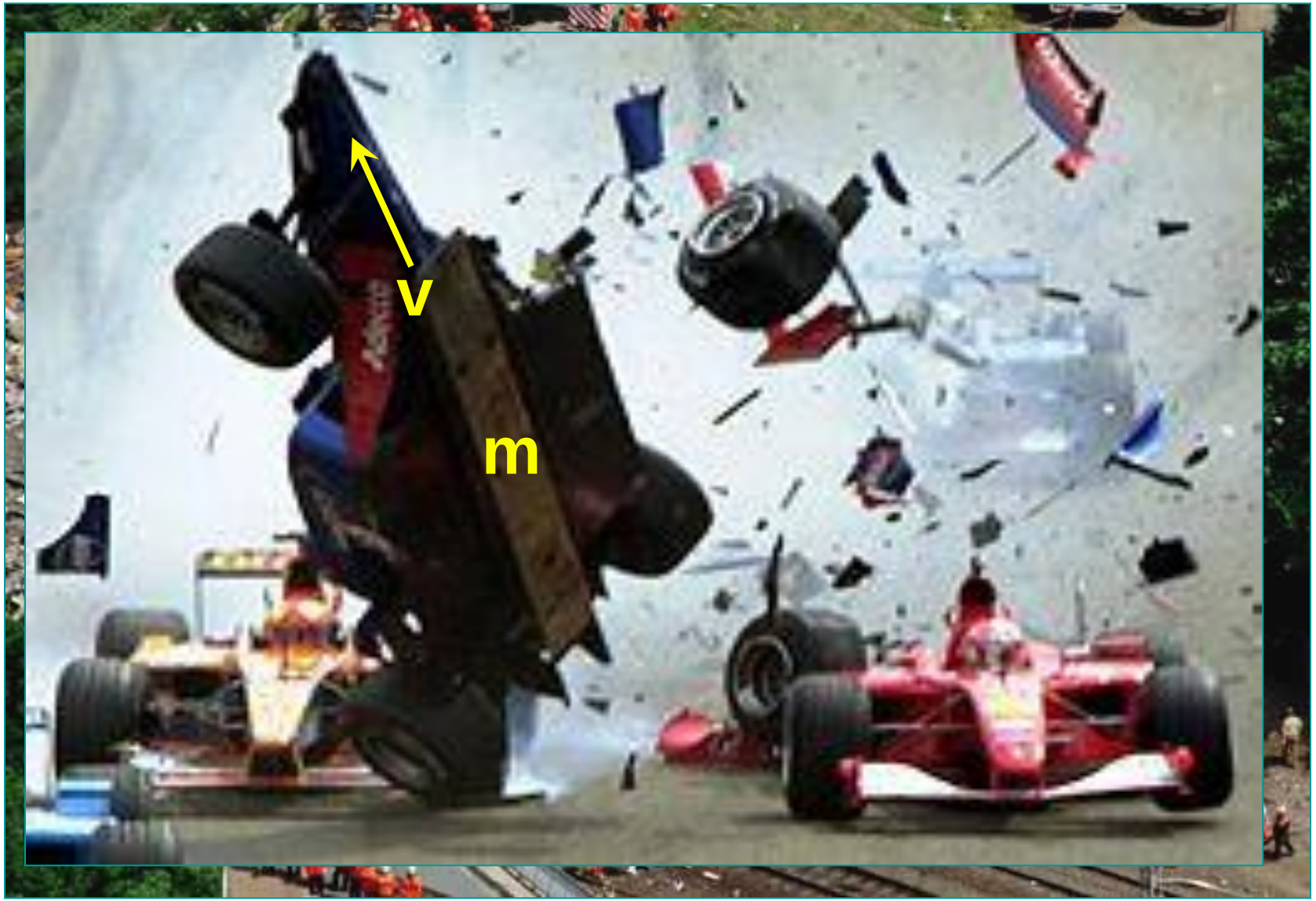
Middengezichtsfracturen



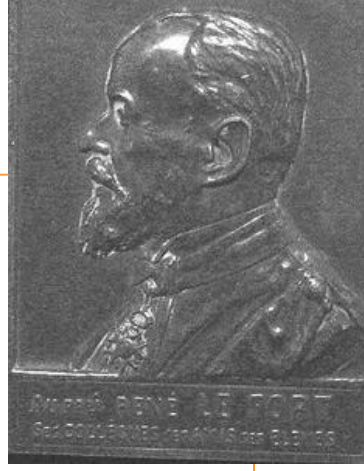
- Os zygomaticum fractuur 40 - 50 %
- Neusfractuur 15 - 20 %
- Le Fort I, II & III fractuur 10 – 15 %
- Arcus zygomaticus fractuur 10 – 12 %
- Orbitabodem fractuur (blow-out) 5 – 10 %
- Naso-orbito-ethmoidale fracturen ca. 5%
- Sinus frontalis fractuur ca. 5%
- Panfaciale fracturen ca. 5%

$E_{kin} = \frac{1}{2} mv^2$

	m = klein	m = groot
v = klein		
v = groot		



v = groot **m = groot**



ÉTUDE EXPÉRIMENTALE

SUR LES

FRACTURES DE LA MACHOIRE SUPÉRIEURE

Par le Dr René LE FORT (de Lille).

« La mâchoire supérieure, dit Malgaigne [1], comprend la plupart des os du crâne et de la face. »

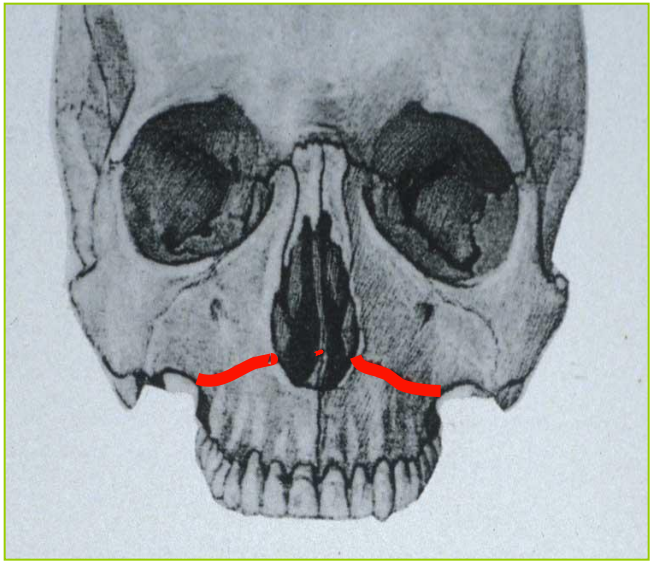
D'après M. le Professeur Tillaux [2], d'accord en cela avec Bérard [3], elle comprend treize os : les maxillaires supérieurs, les palatins, les malaires, les os propres du nez, les unguis, les cornets inférieurs et le vomer avec la mâchoire inférieure, elle constitue la face.

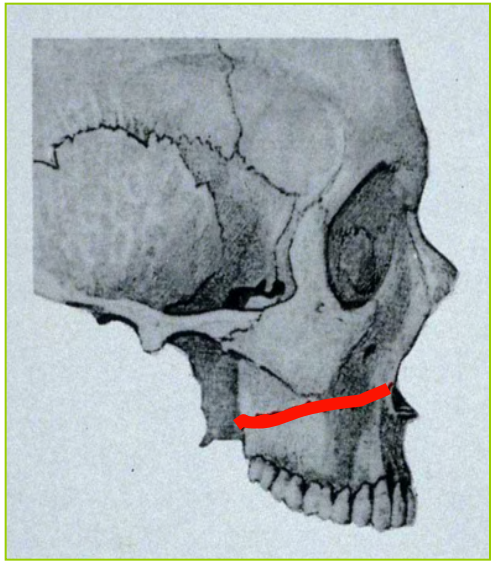
Revue chir de Paris 1901; 23: 208±27, 360±79, 479±507.

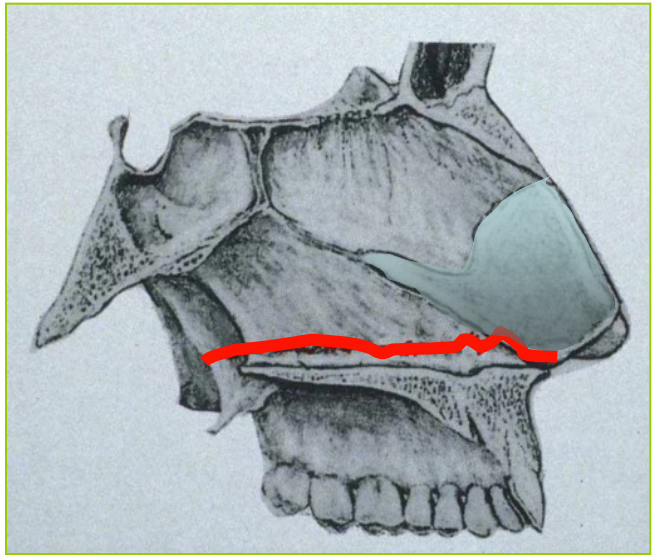


Le Fort I

Frakturen

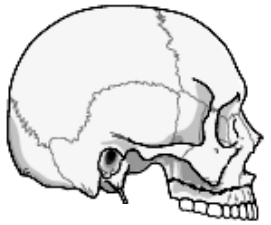




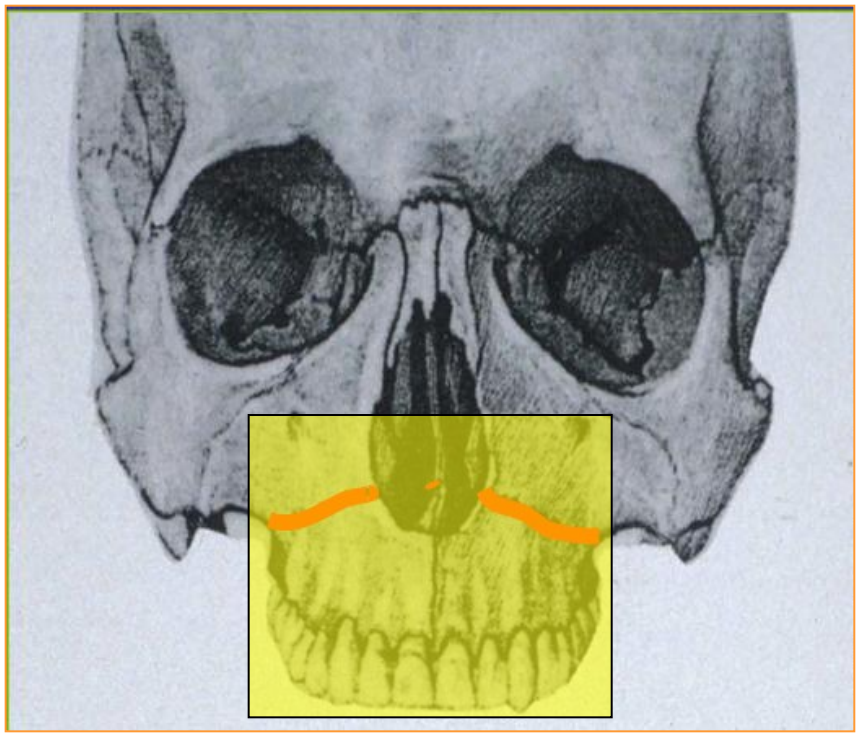


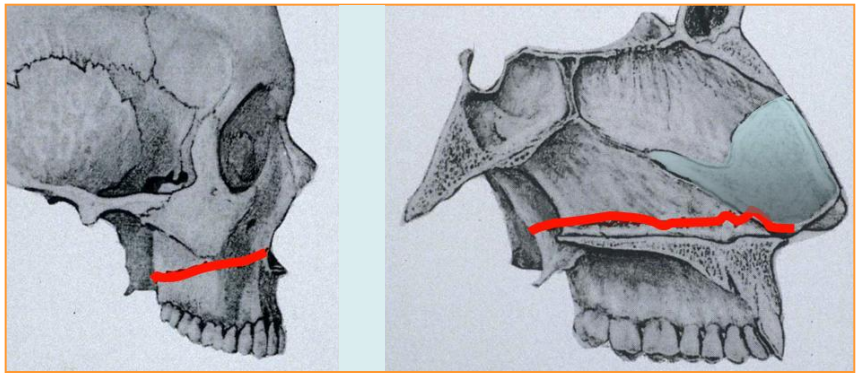


Le Fort I fractuur



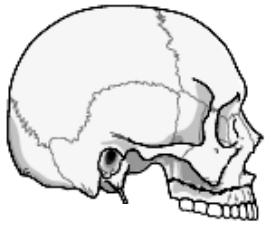
- hematoom buccale omslagplooi
- epistaxis
- malocclusie, open beet
- mobiliteit maxilla
- [crepitatie]





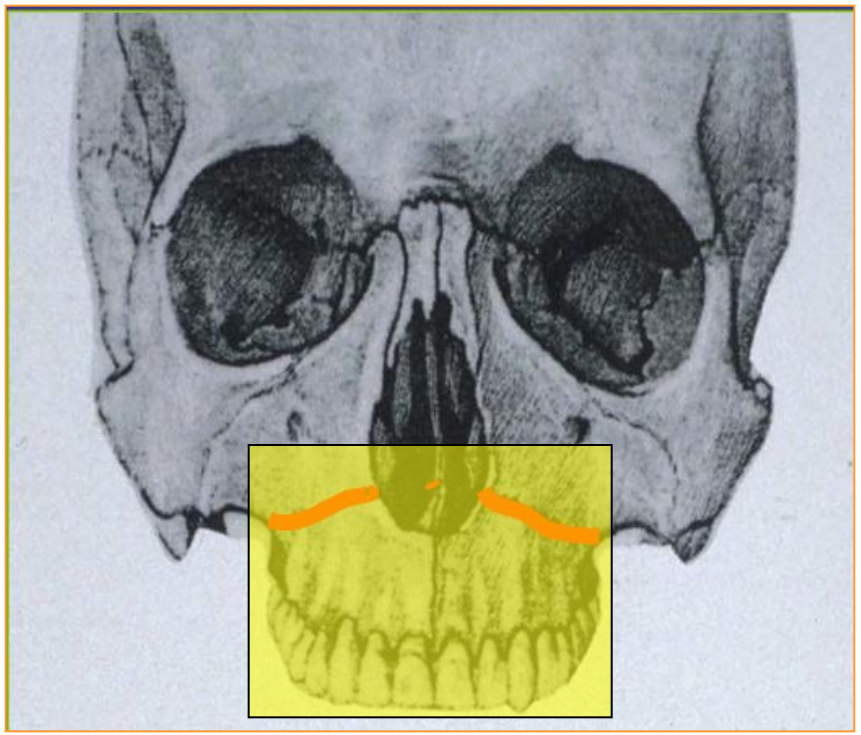


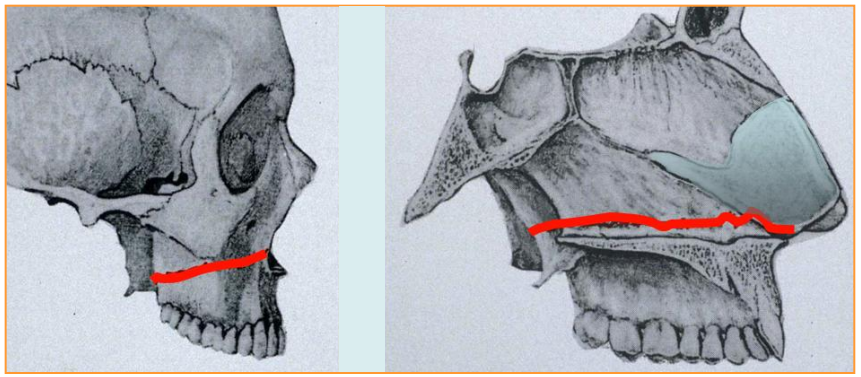
Le Fort I fractuur

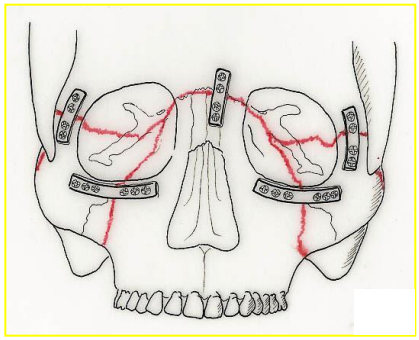


- evt. ook Luchtwegobstructie
- evt. paresthesie n. infraorbitalis
- evt. neusseptumdeviatie
- evt. verlenging/verkorting

  gezichtshoogte







Middengezichtsfracturen



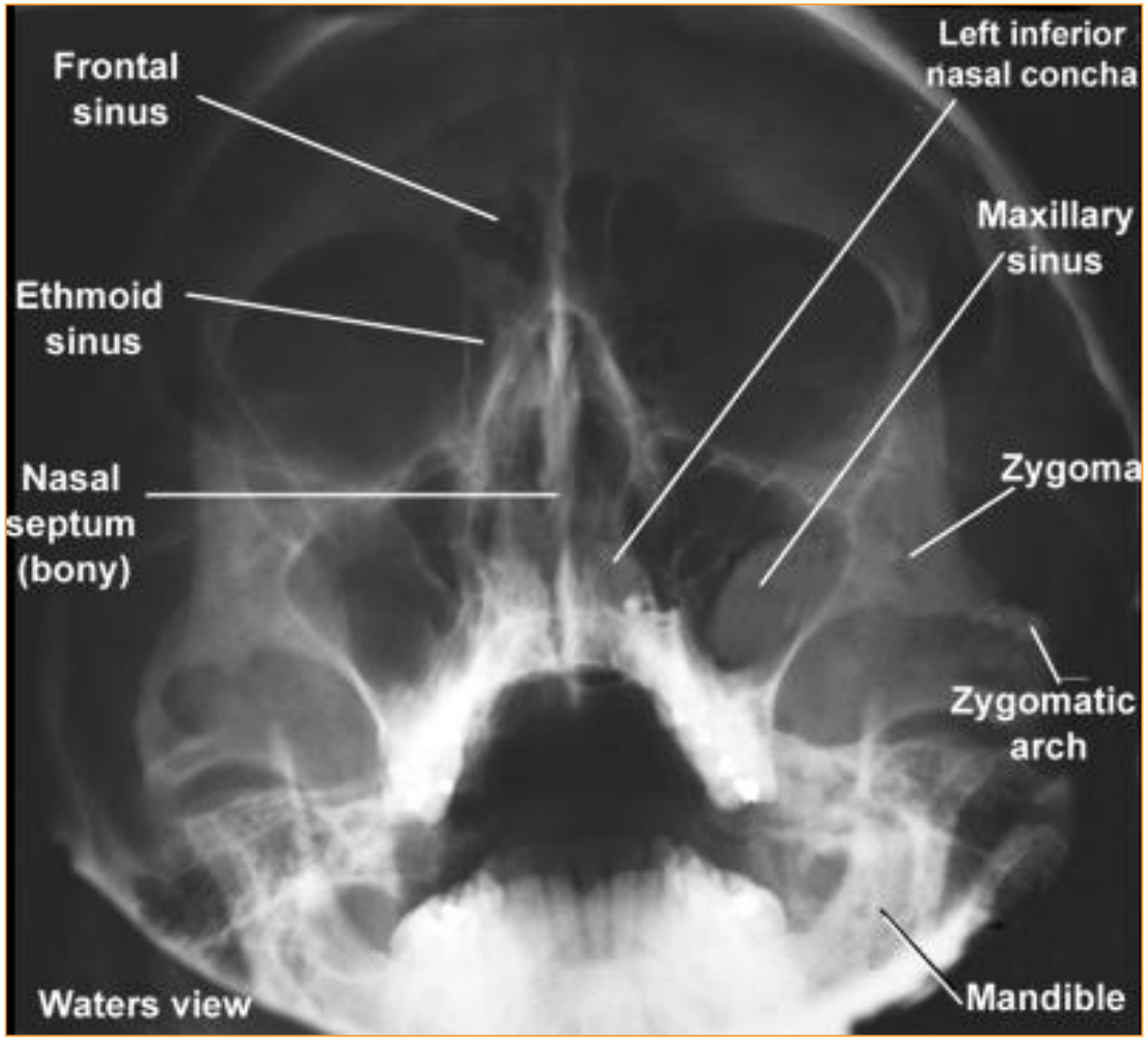
Deel II: Röntgenonderzoek

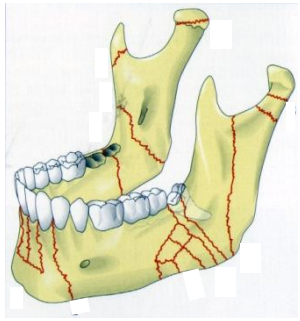
De keuze van het uit te voeren röntgenonderzoek wordt dan ook bepaald door de info uit

= Ondersteuning van

Anamnese & Klinisch onderzoek

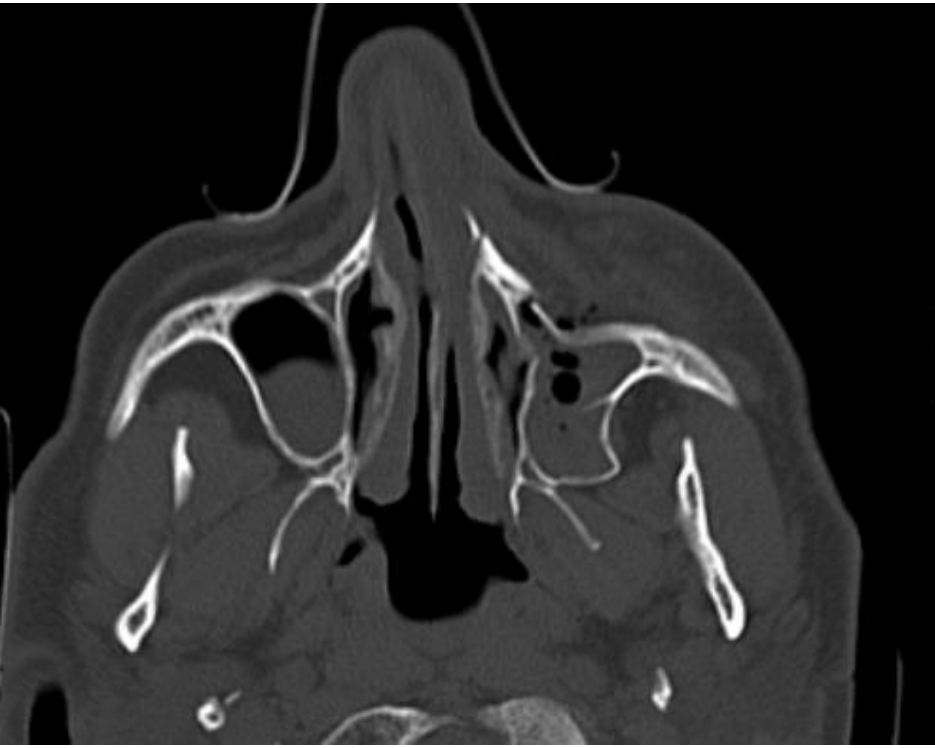
Opname volgens Waters

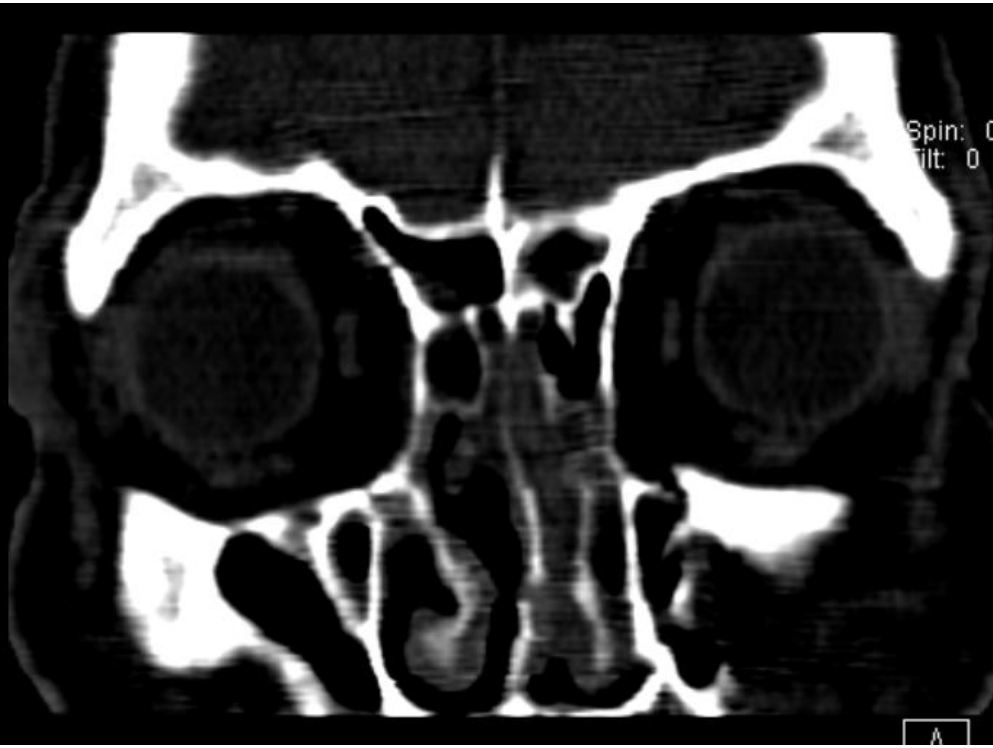


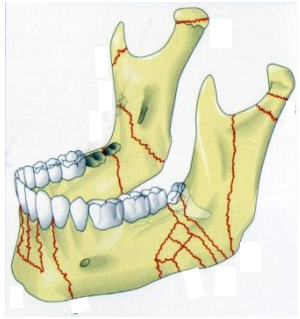


CT



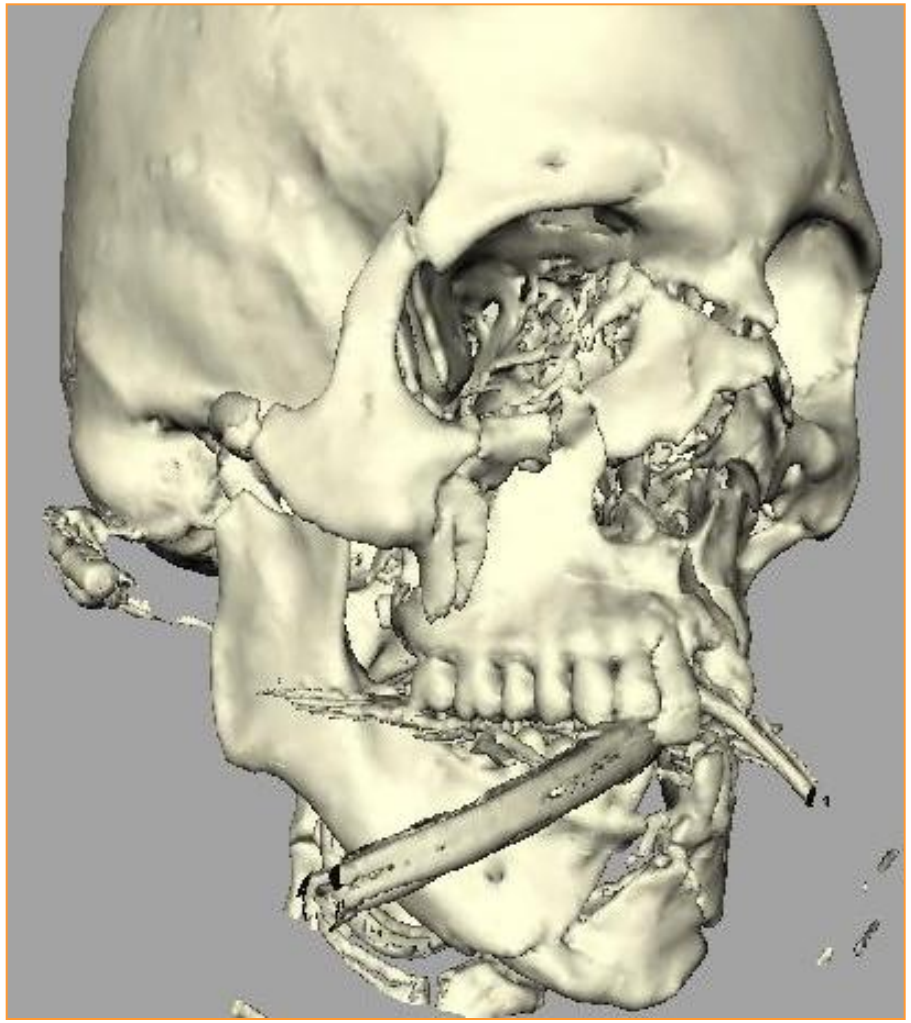


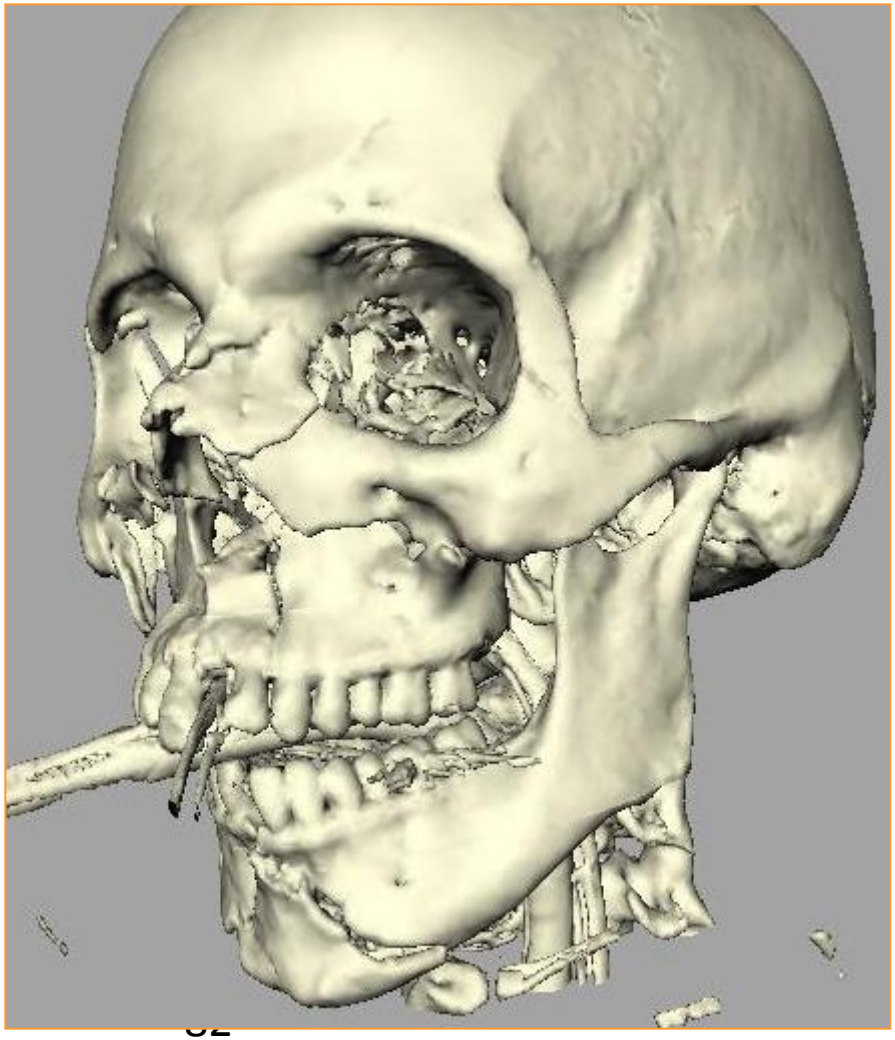


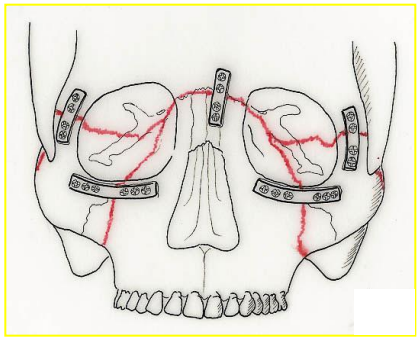


CT









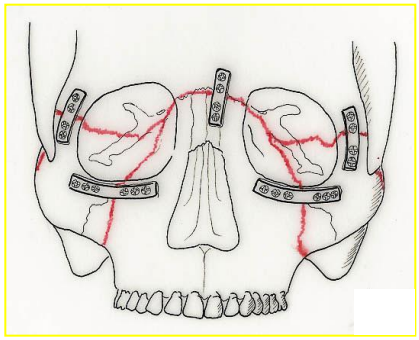
Middengezichtsfracturen



Deel III. Therapie

Reponeren

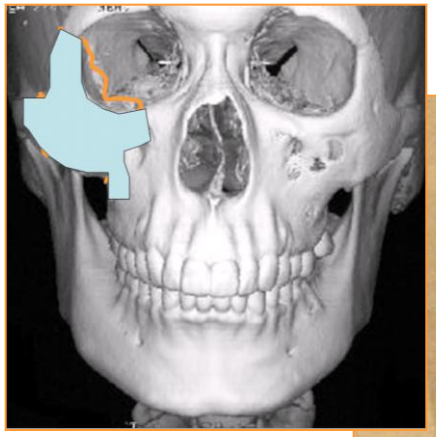
Fixeren

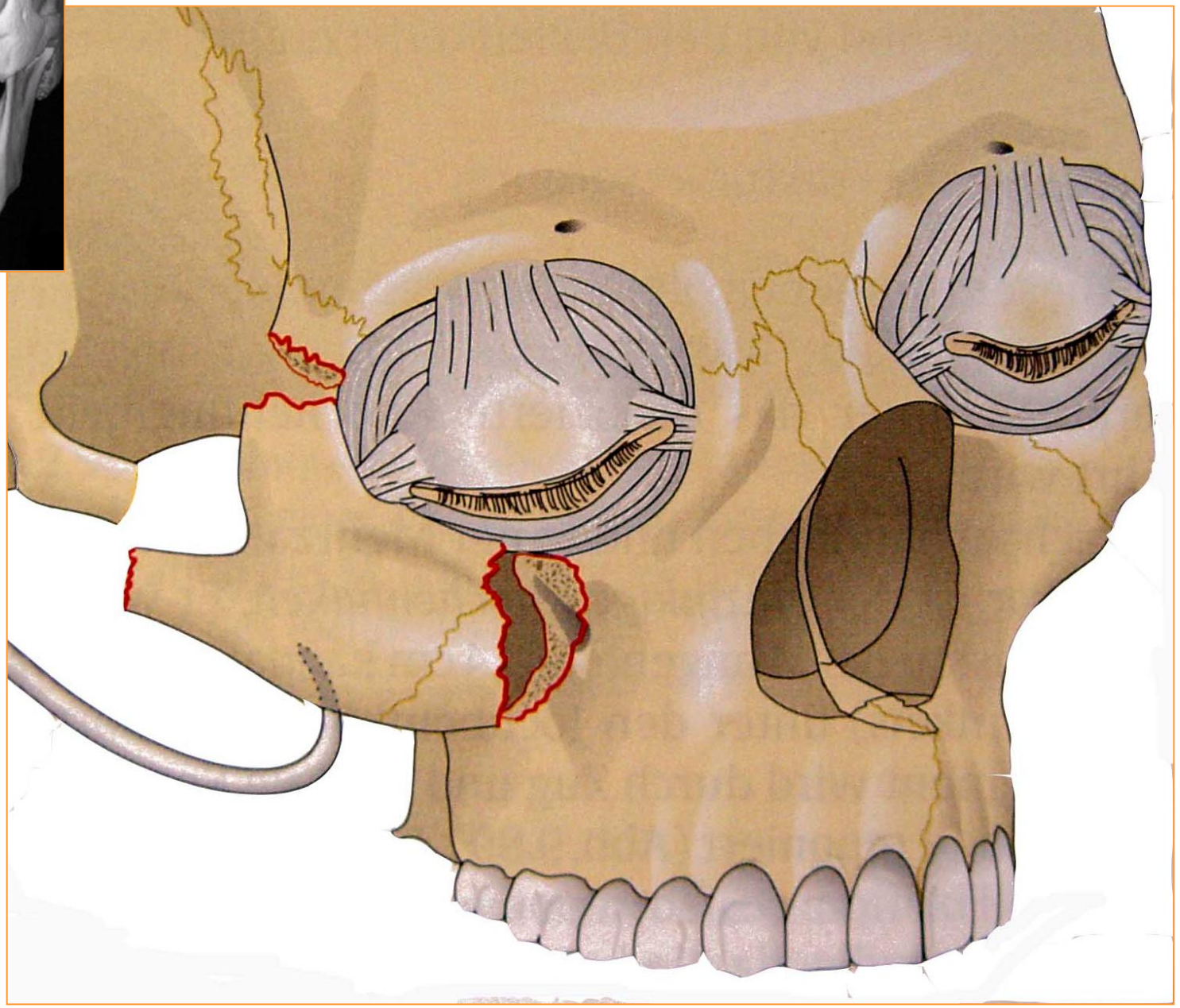


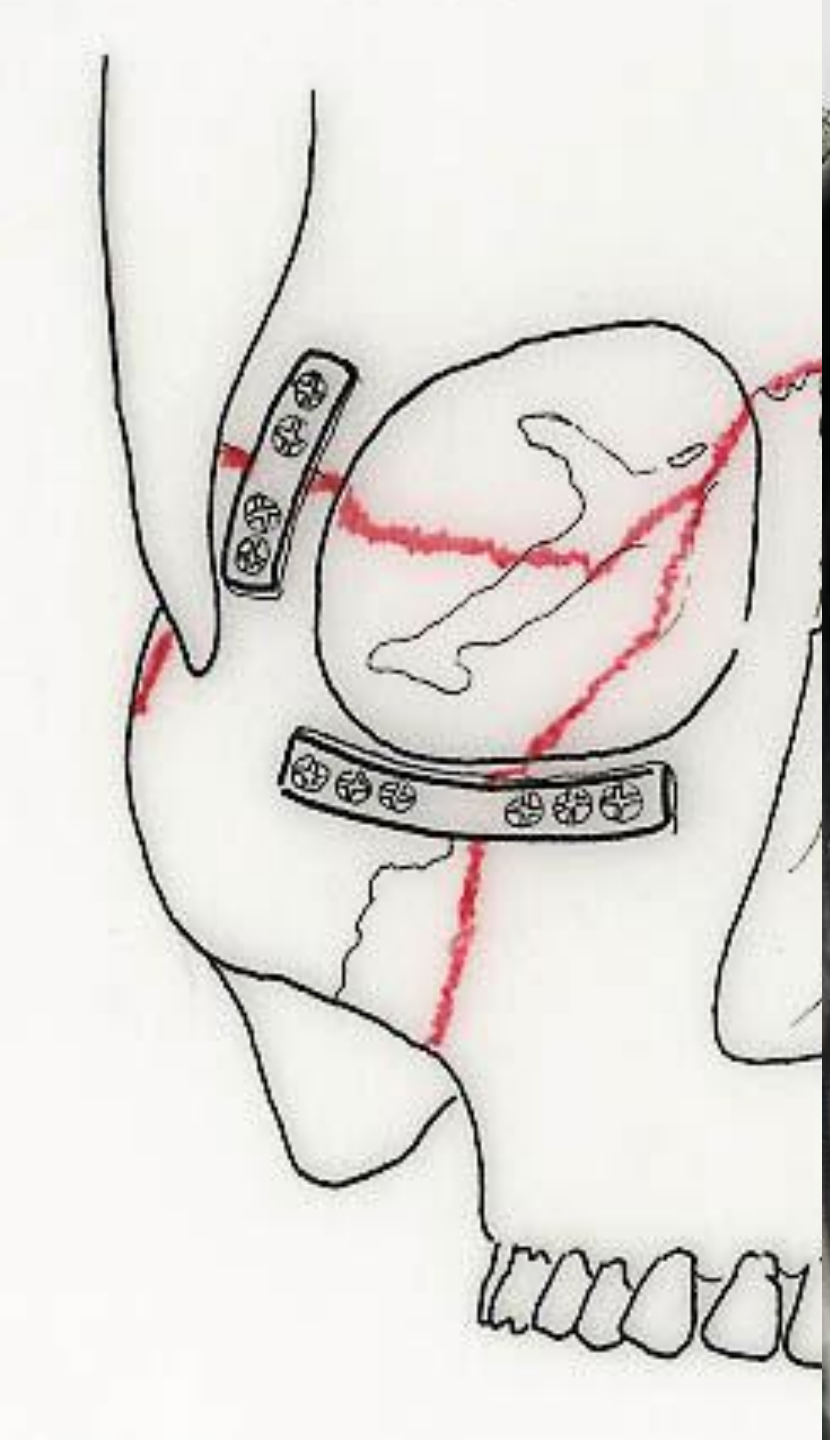
Behandeling Middengezichtsfracturen

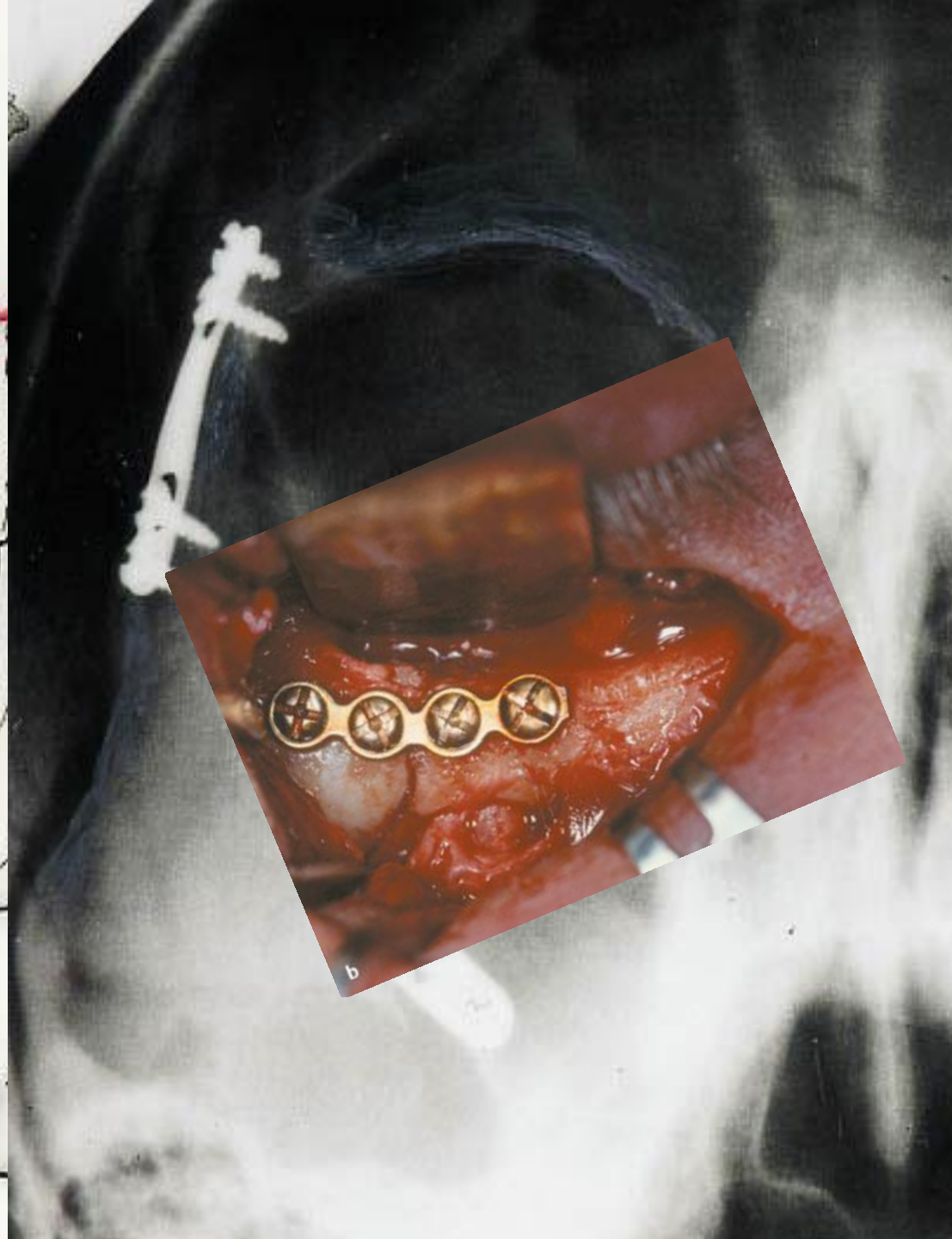


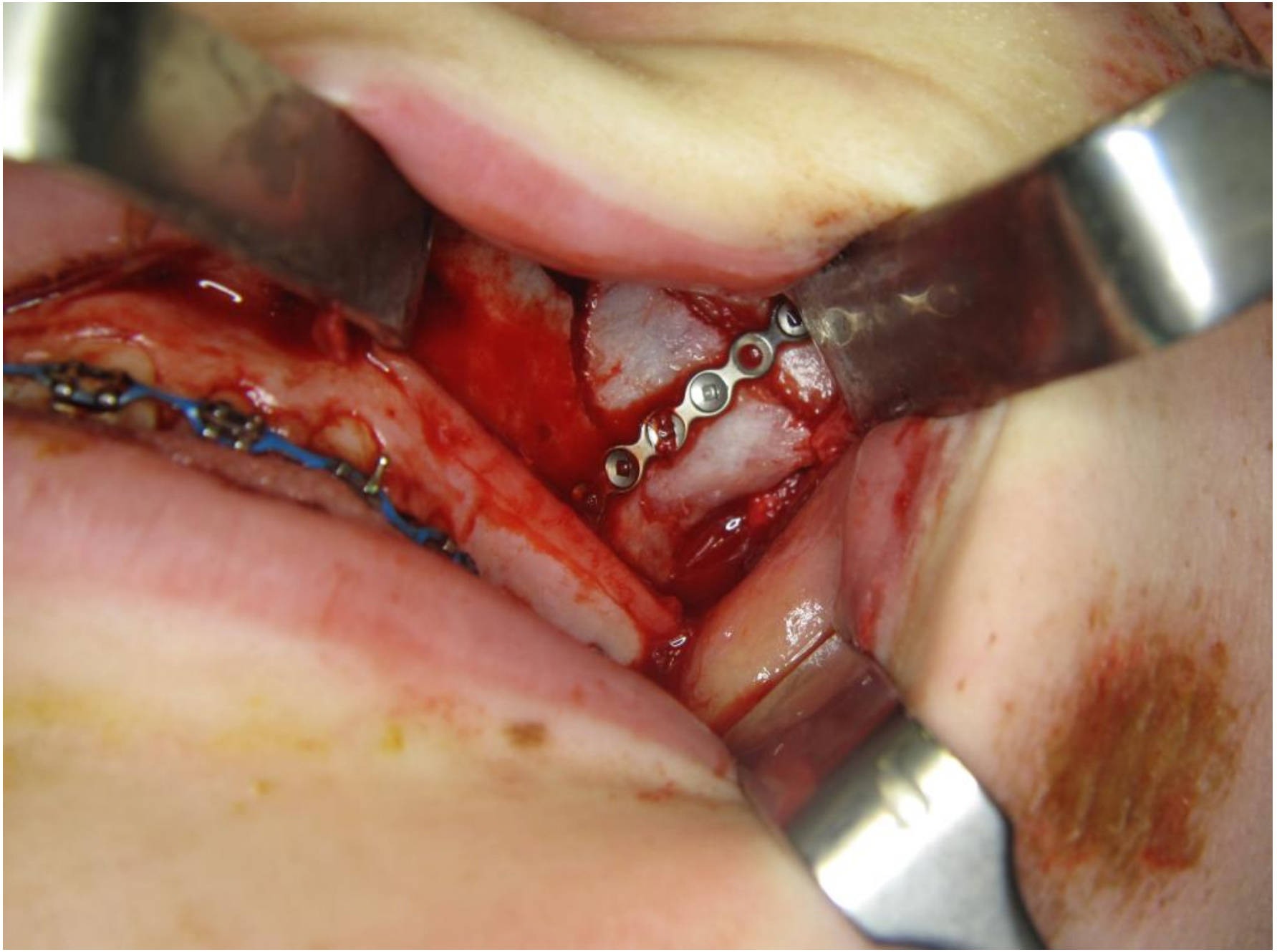
- Os zygomaticum fractuur
- Neusfractuur
- Le Fort I,II & III fractuur
- Arcus zygomaticus fractuur
- Orbitabodem fractuur (blow-out)
- Naso-orbito-ethmoidale fracturen
- Sinus frontalis fractuur
- Panfaciale fracturen

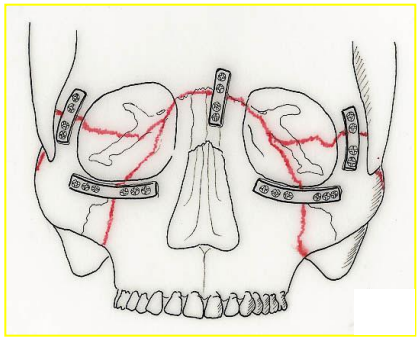







b



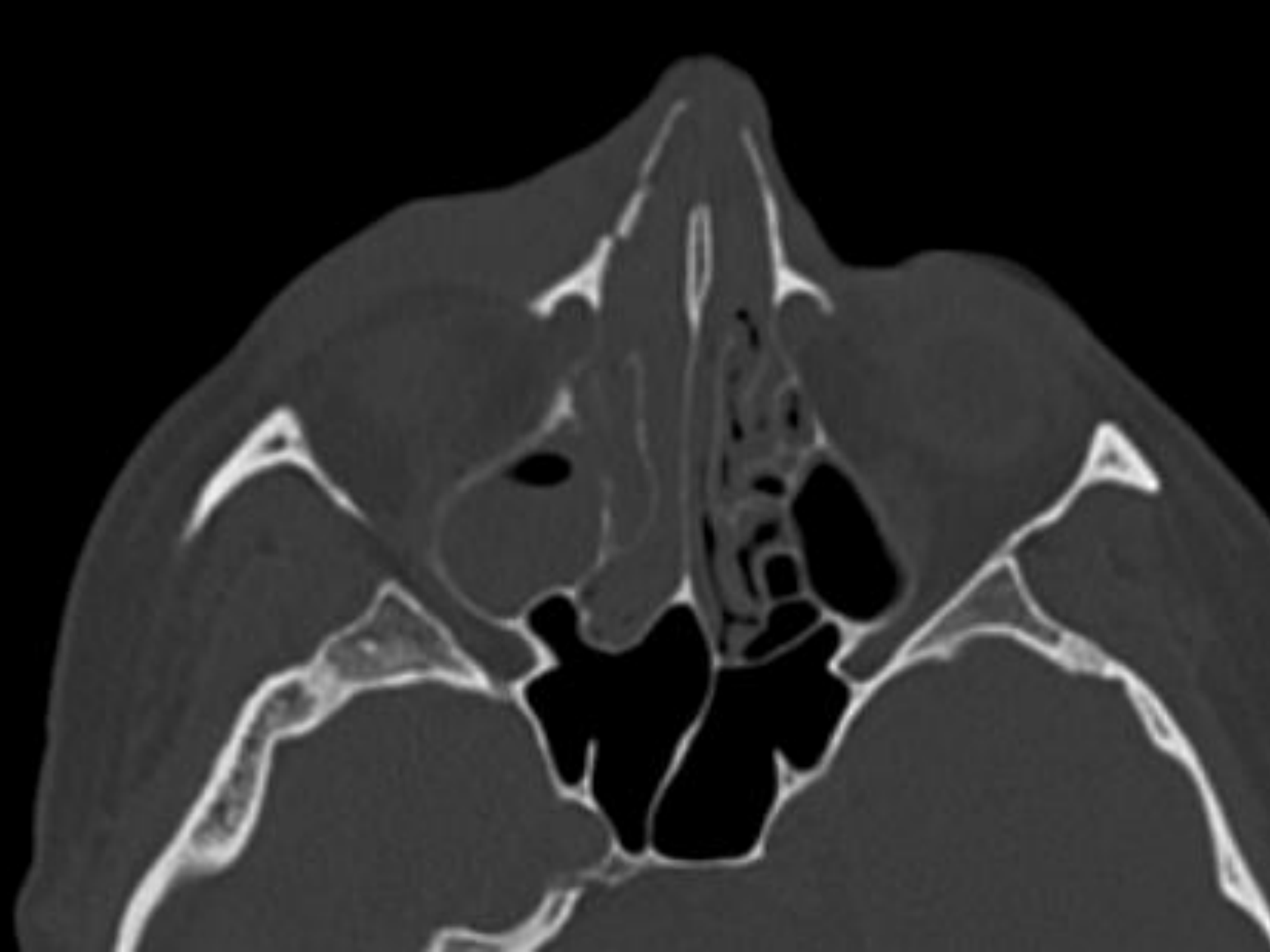


Behandeling

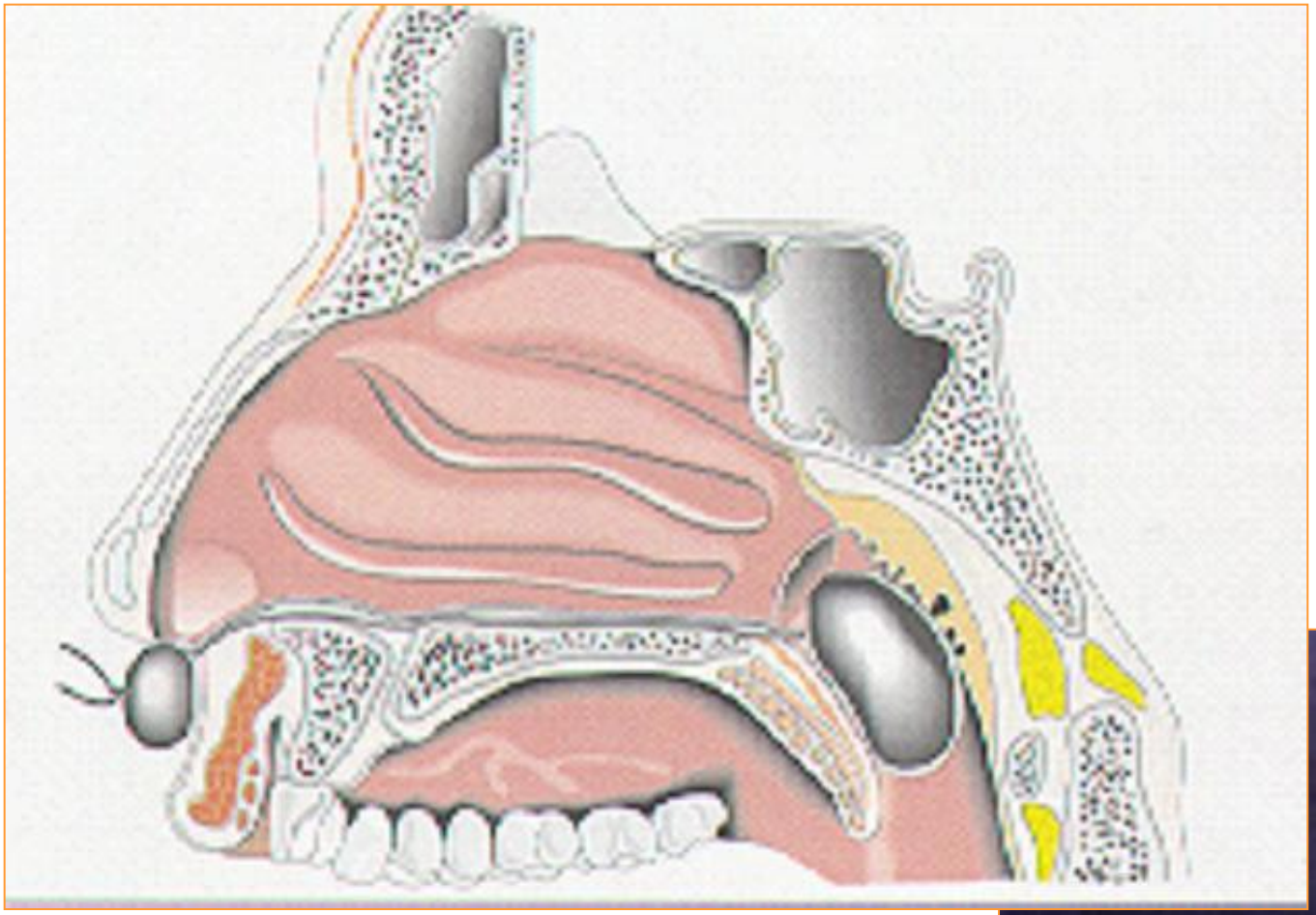
Middengezichtsfracturen

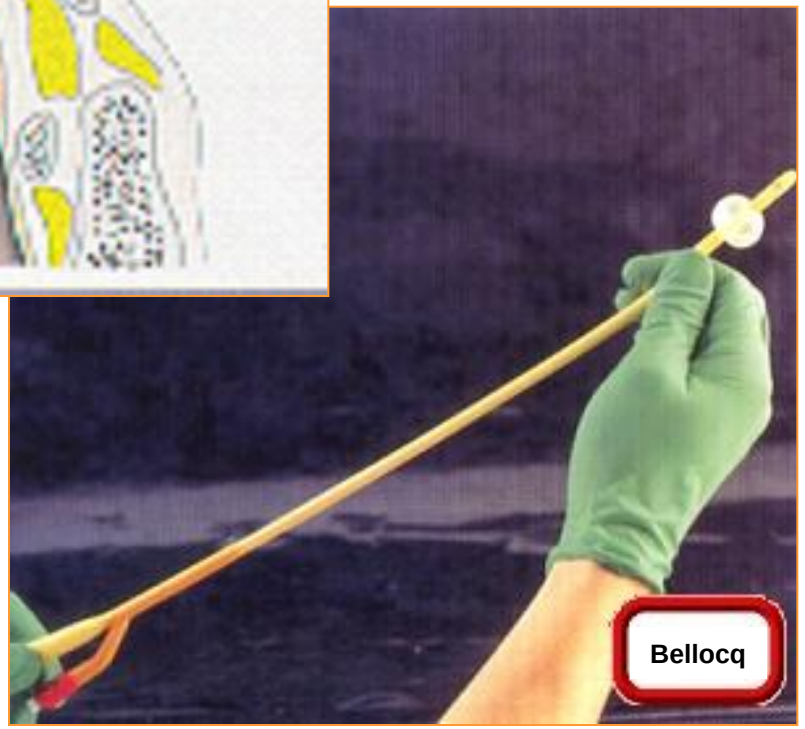


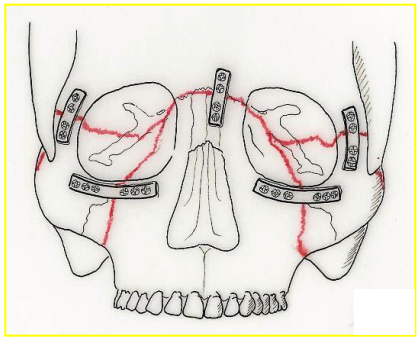
- Os zygomaticum fractuur
- Neusfractuur
- Le Fort I,II & III fractuur
- Arcus zygomaticus fractuur
- Orbitabodem fractuur (blow-out)
- Naso-orbito-ethmoidale fracturen
- Sinus frontalis fractuur
- Panfaciale fracturen







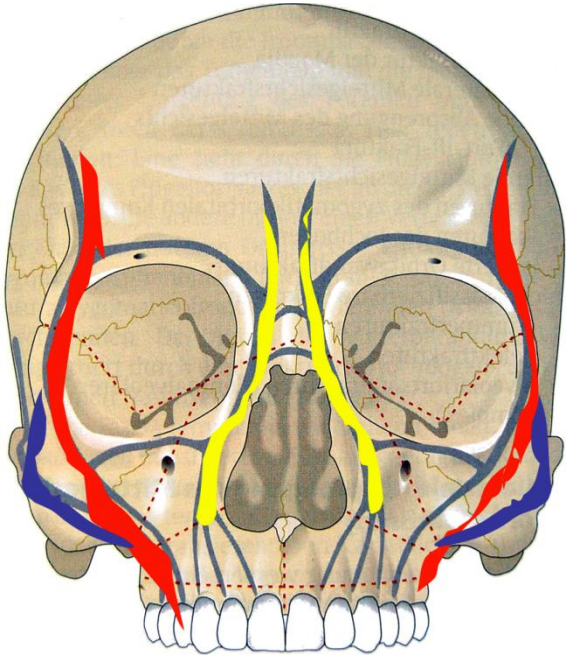

Bellocq



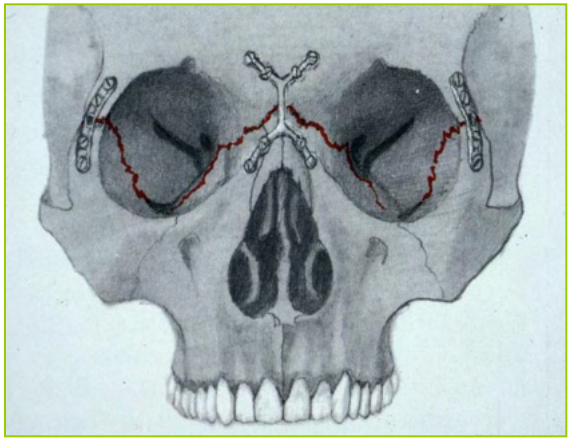
Behandeling Middengezichtsfracturen

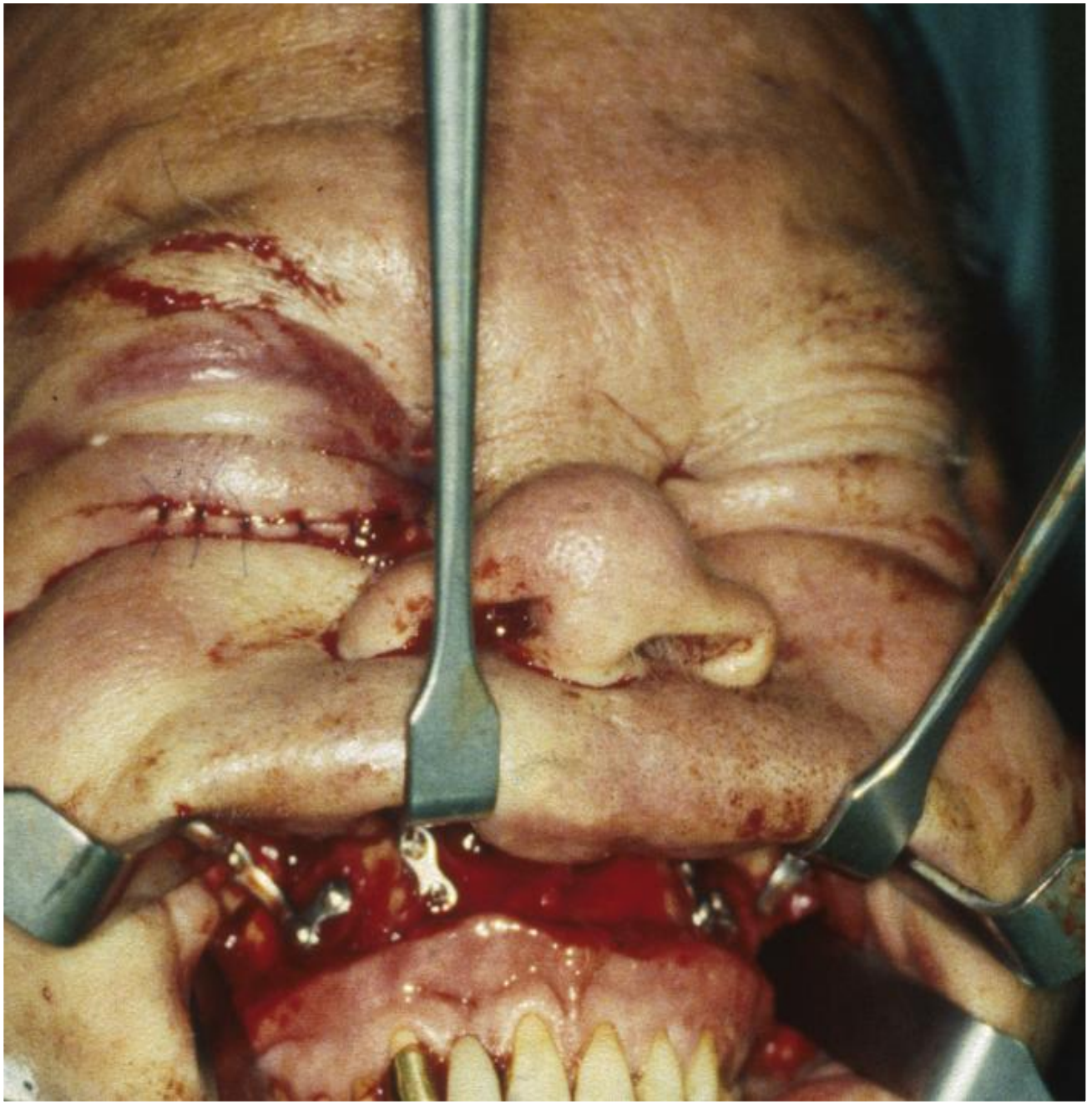


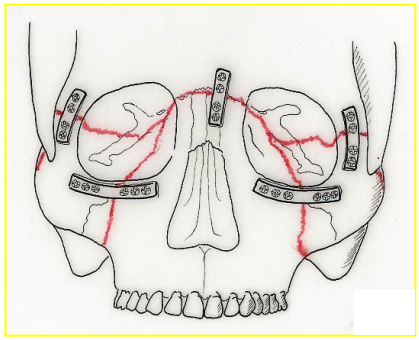
- Os zygomaticum fractuur
- Neusfractuur
- Le Fort I, II & III fractuur
- Arcus zygomaticus fractuur
- Orbitabodem fractuur (blow-out)
- Naso-orbito-ethmoidale fracturen
- Sinus frontalis fractuur
- Panfaciale fracturen









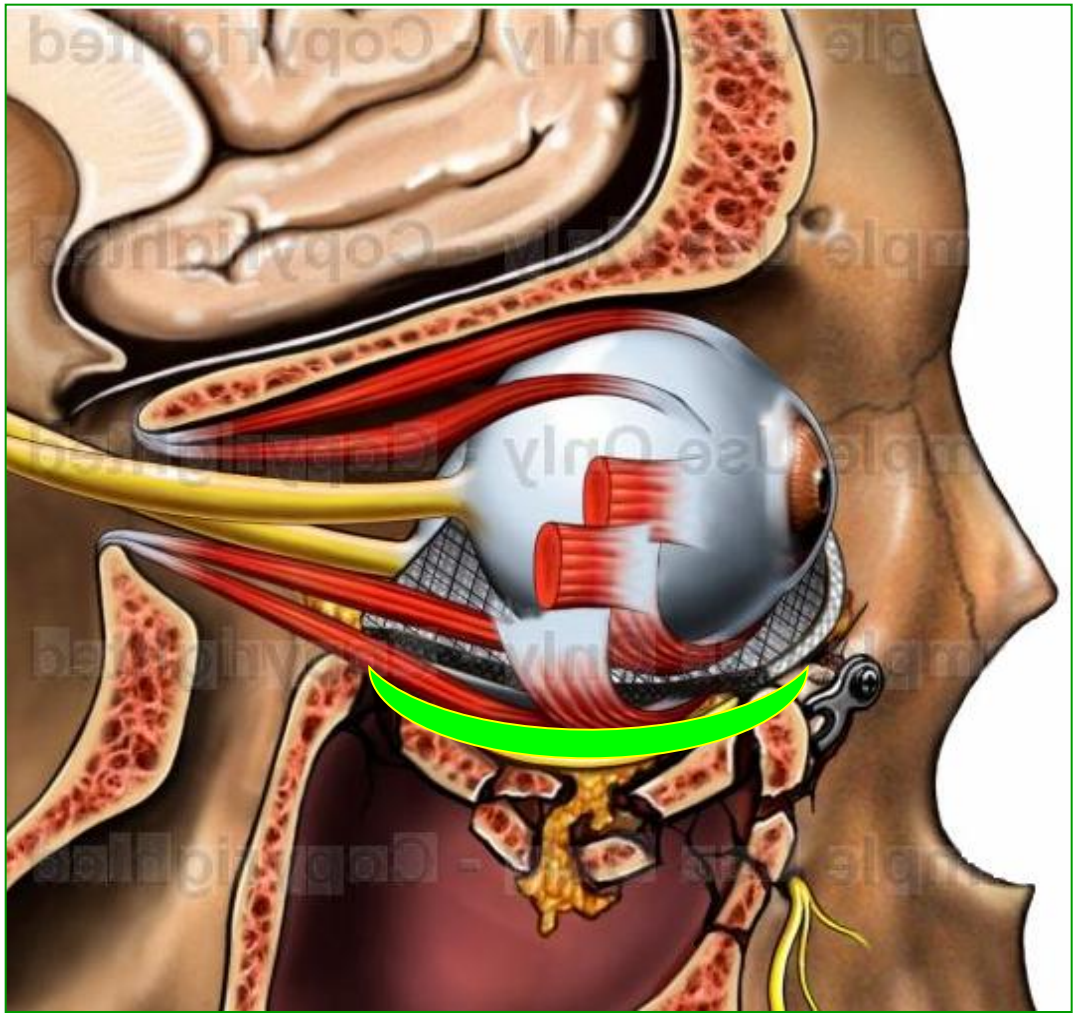


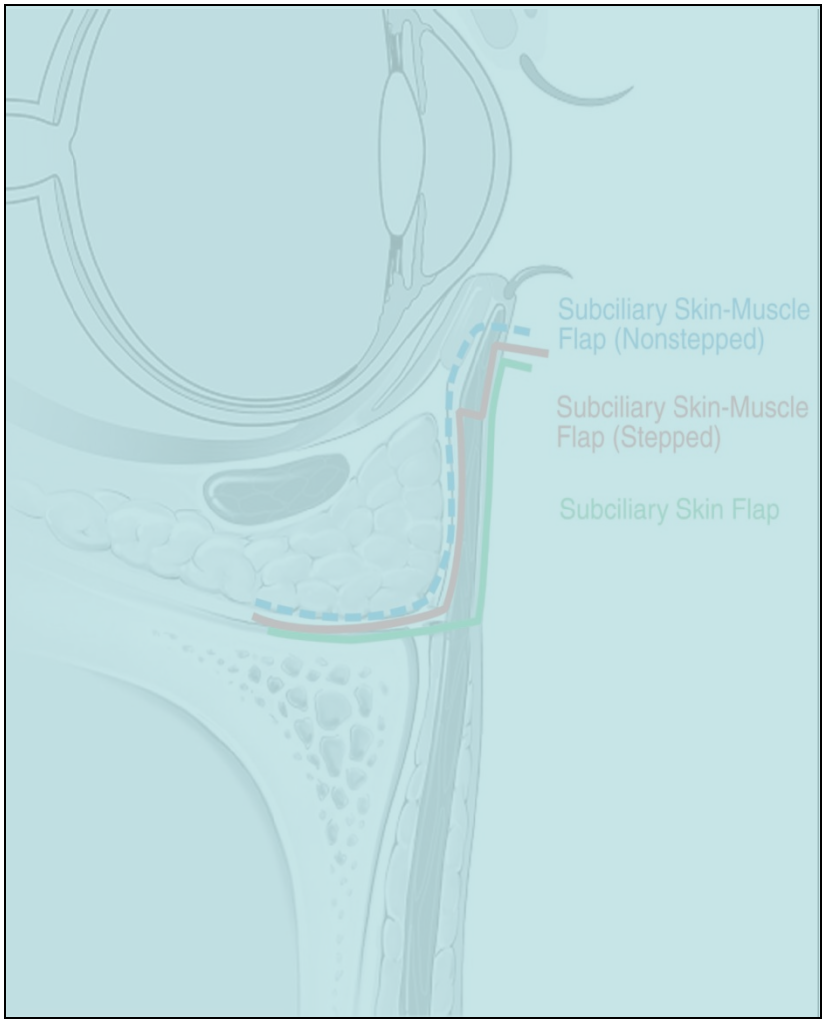
Behandeling Middengezichtsfracturen



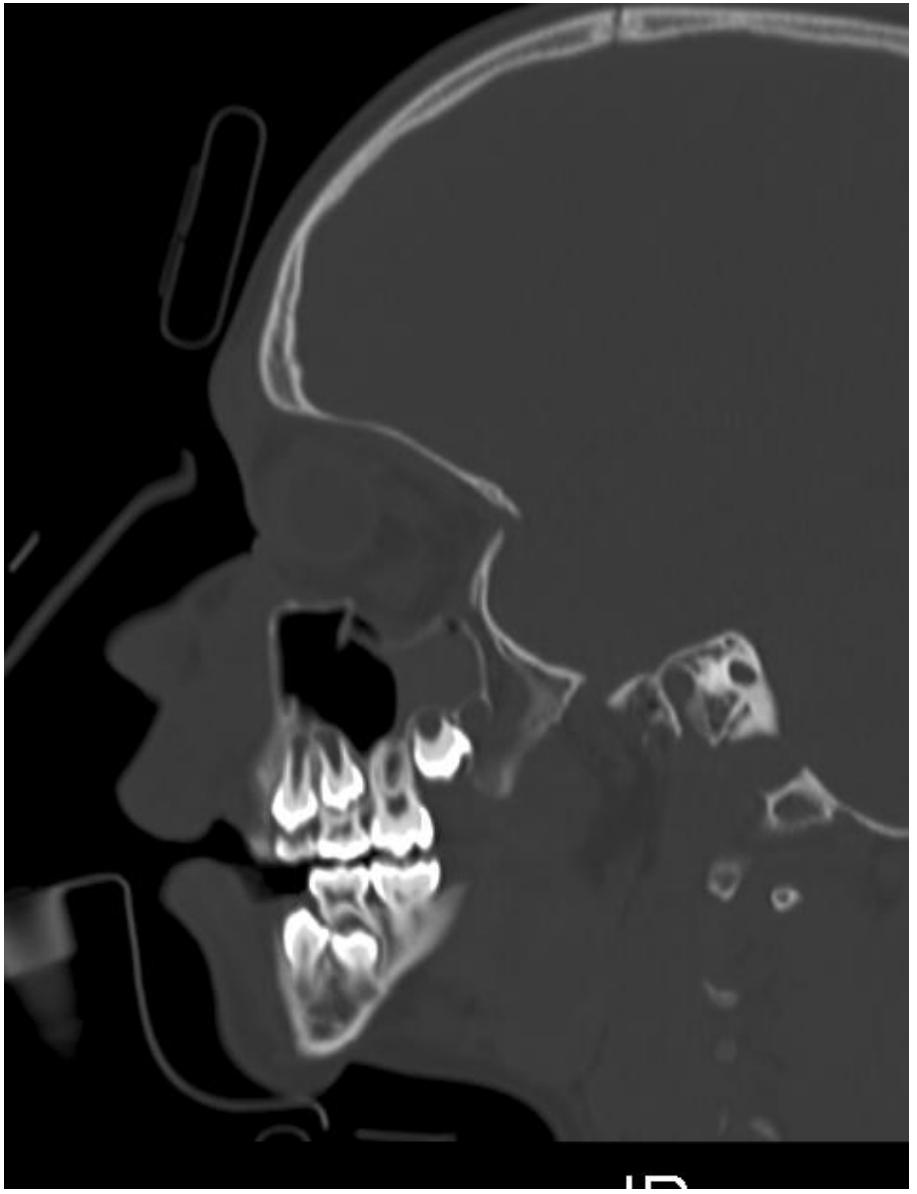
- Os zygomaticum fractuur
- Neusfractuur
- Le Fort I, II & III fractuur
- Arcus zygomaticus fractuur
- Orbitabodem fractuur (blow-out)
- Naso-orbito-ethmoidale fracturen
- Sinus frontalis fractuur
- Panfaciale fracturen

Orbitabodemfractuur (blow-out)

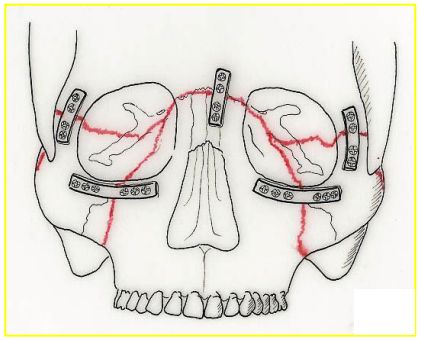










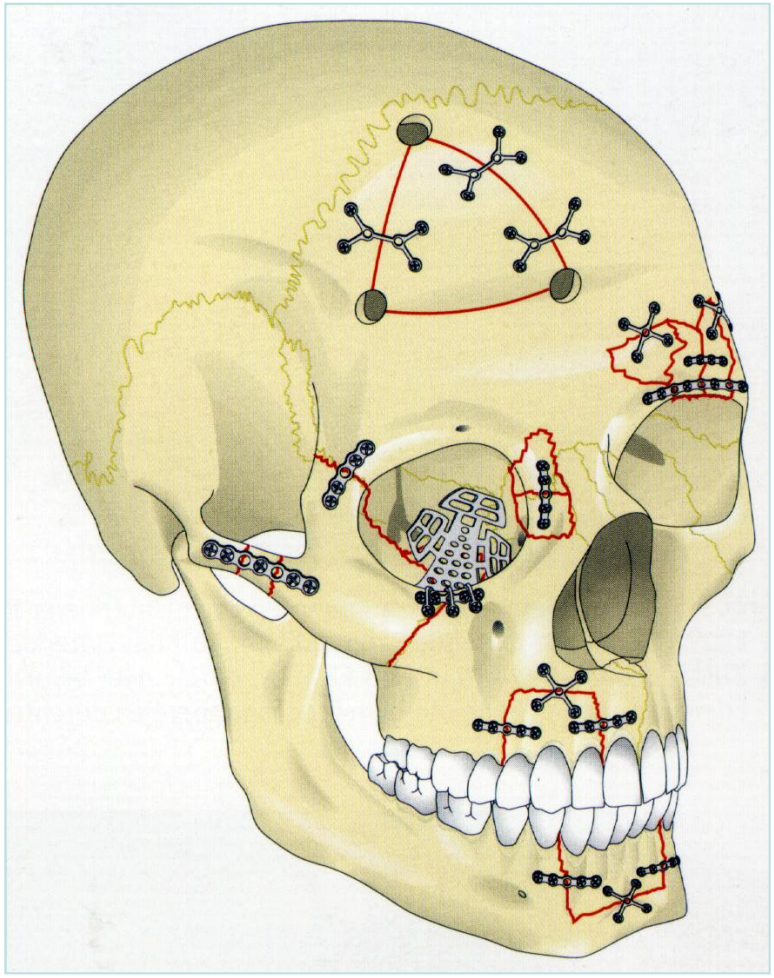


Algemene principes

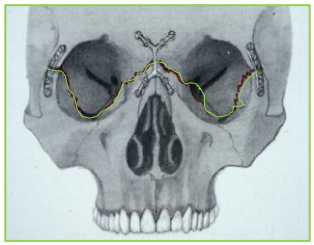
Behandeling

Middengezichtsfracturen

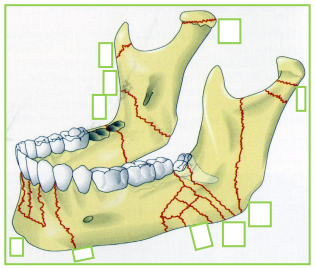




- Van vast naar los
- Van boven naar onder
- Van binnen naar buiten
- Respecteer het outher frame
- Ca. 1 week tijd
- Eerste kans is de beste
- Functie & esthetiek zijn één
- Secundaire traumato is lastig



Kaak





Twee doden bij ongeluk A73



Ongeluk op de A73 bij Venray
NOS

Toegevoegd: zondag 25 sep 2011, 09:55
Update: zondag 25 sep 2011, 17:46

Bij een ongeluk op de A73 bij Venray zijn twee doden gevallen. Twee inzittenden kwamen om toen een vrachtwagen hun auto ramde.

Het gaat om een echtpaar van 66 en 63 jaar oud uit Zwolle.

Klapband



