

Change of conception? Sinus Frontal Fractures Therapies

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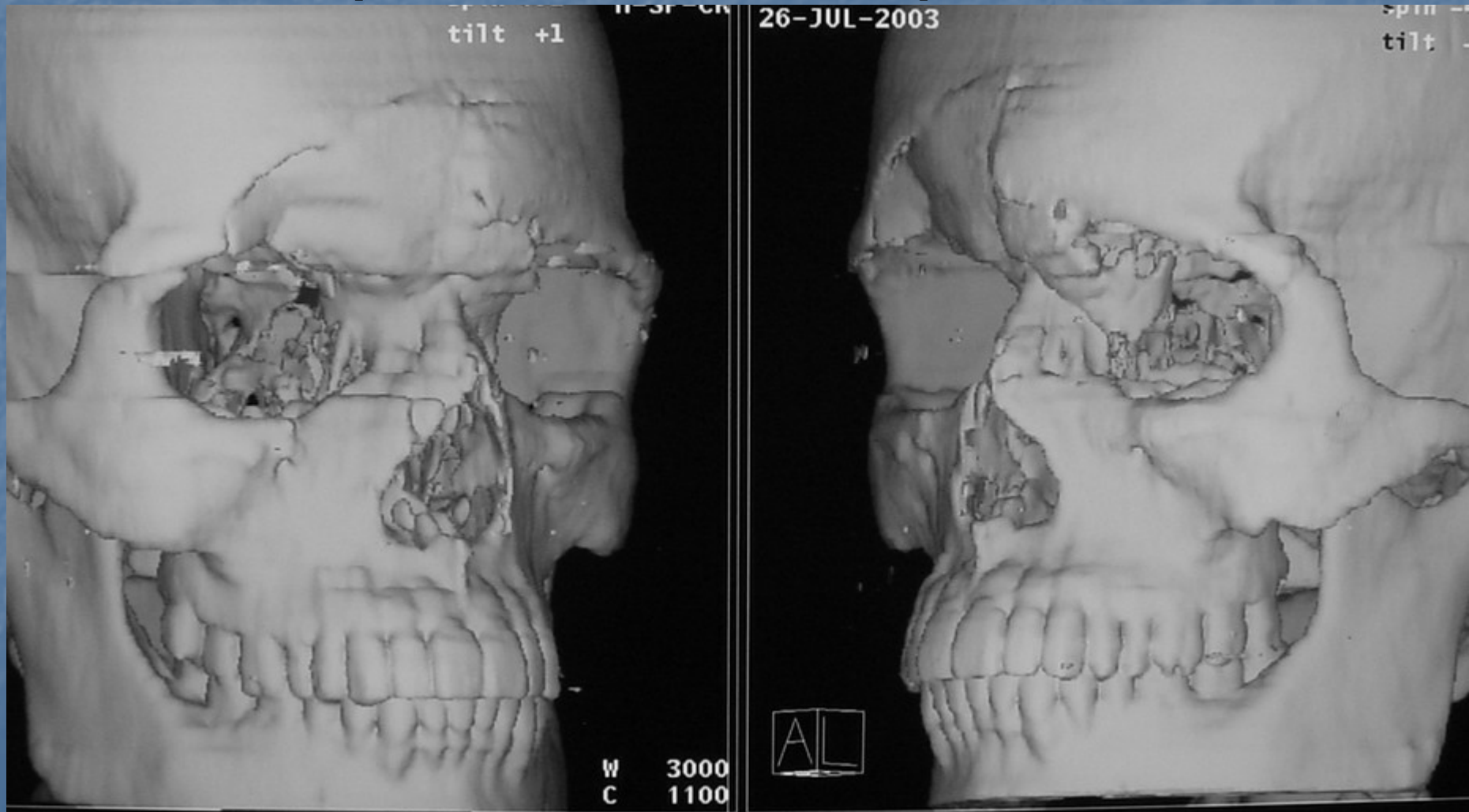
St. John's Hospital

Department of Cranio-Maxillofacial and Oral-Surgery

MWIA 2010

Incidence

- 2-12% (Stevens et al 1995)



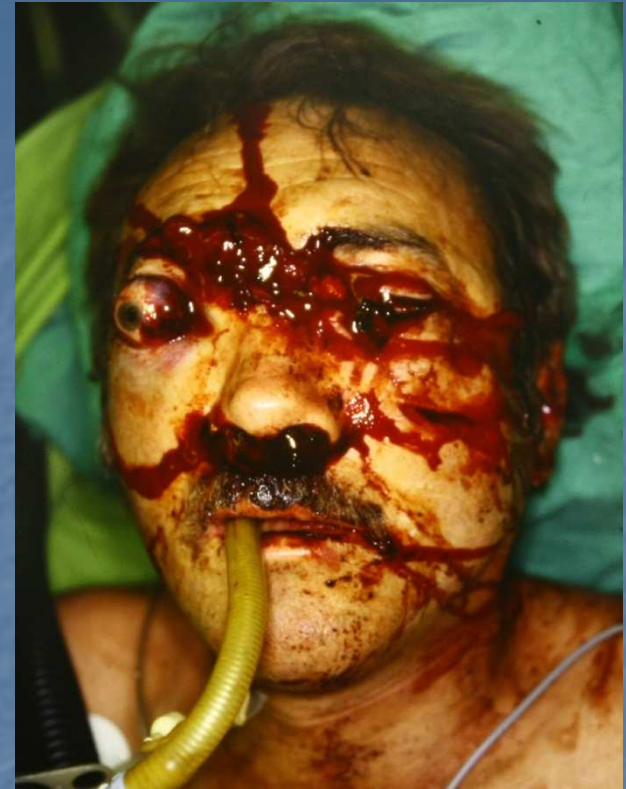
Etiology

- Car accident
- Falling
- Violence
- Workplace accident



Problems

- Anterior table
- Posterior table trauma
- Dura injury
- Brain injury
- Eyes
- Long term complications?
 - Mucocele - mucopyelokele.....



Goals

- Cosmetic considerations
 - Bone contour
 - Scars
- Function
 - Perfect sinus function / Sinus obliteration
 - V/1, VII nerves function
 - liqorrhoea
 - Abscess of the brain

1. Anterior wall loss



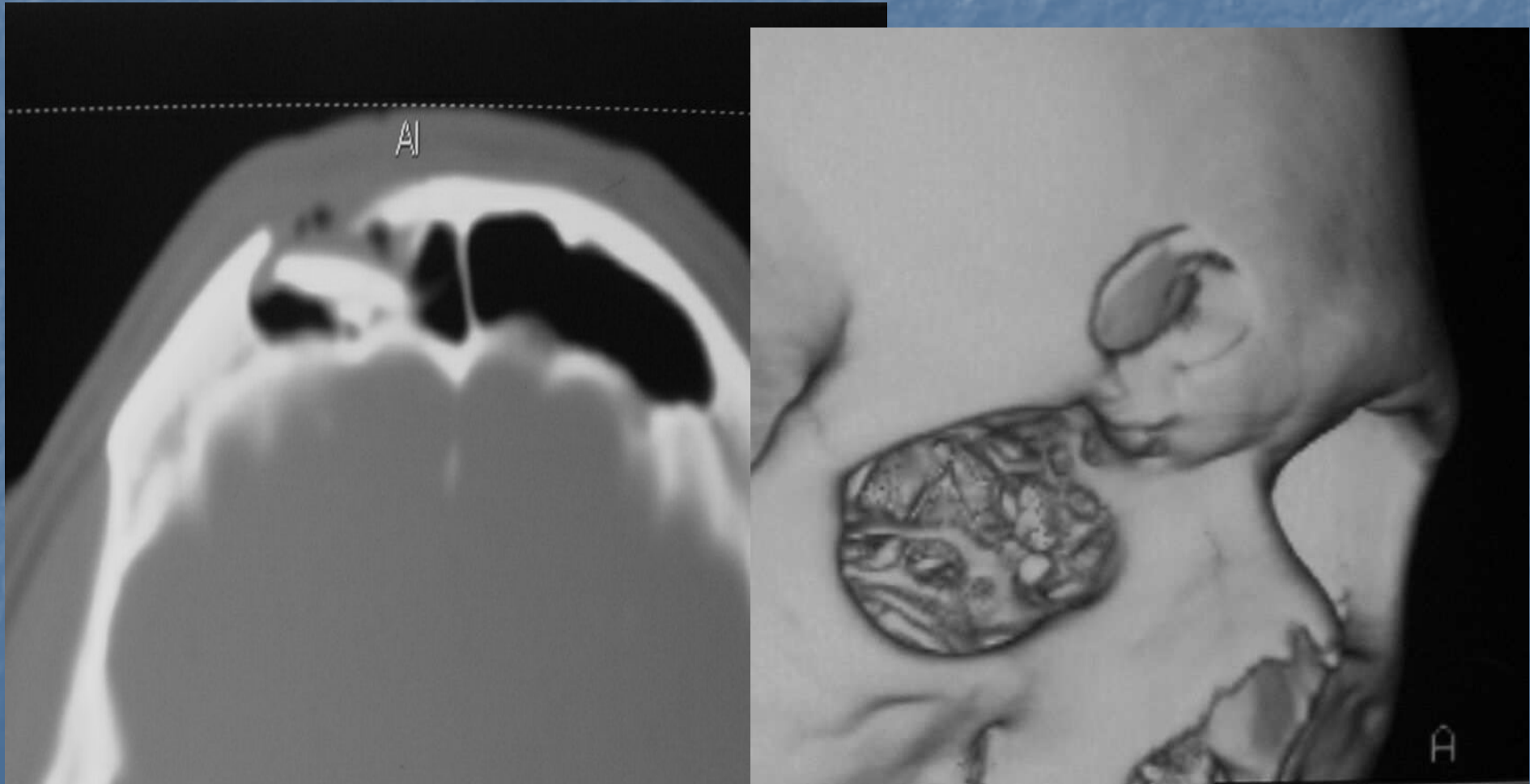
2. Exploration over the eyebrow



Retrospective Analysis 2008-2010

- 173 Fractures in Total , (85 midface)
- 4 Frontal Sinus fractures, 4% of midface fractures ,2% of all
- 3 isolated
- 1 in combination with Le Fort I-II-III
- 3 males, 1 female

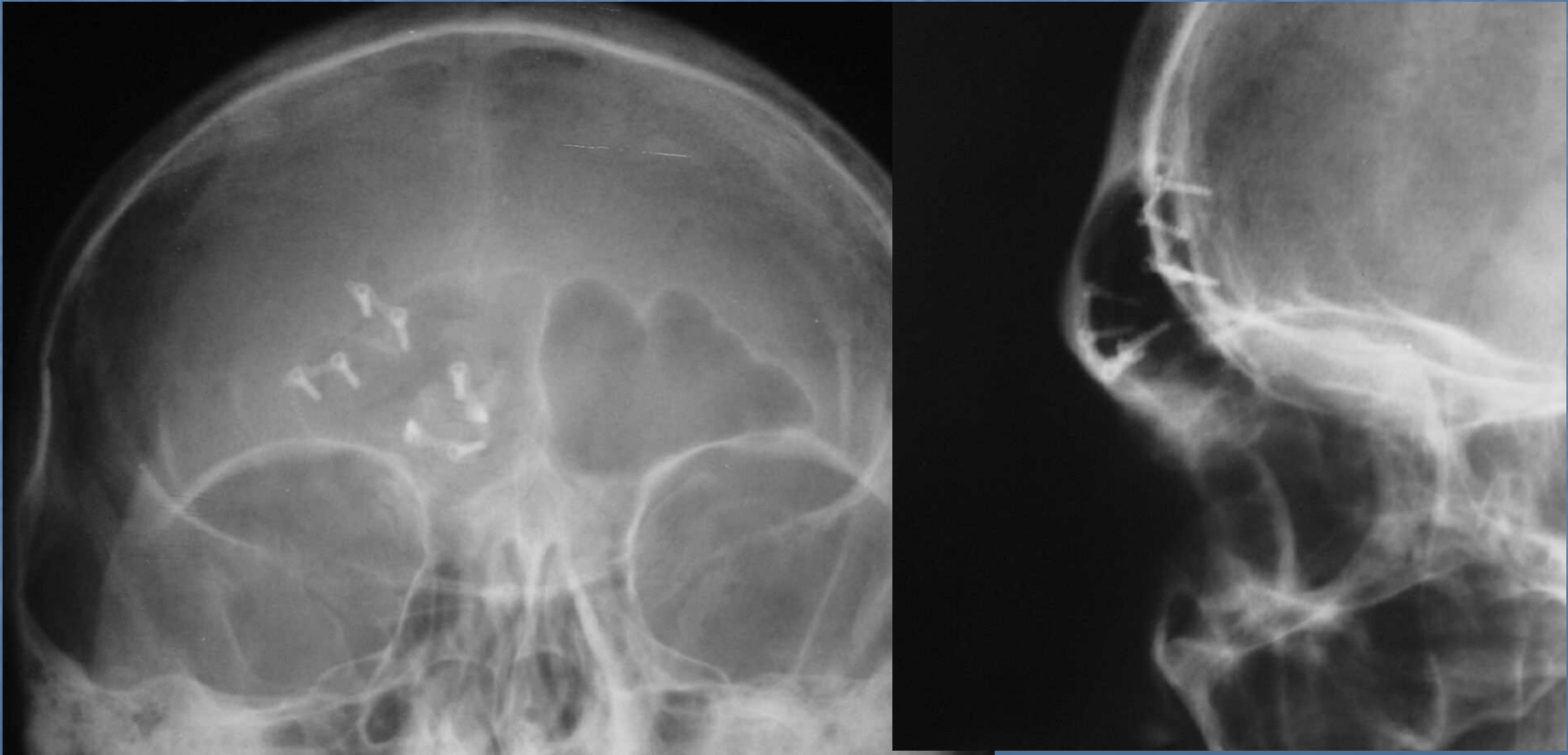
Examples: Case 1. 2D and 3D CT



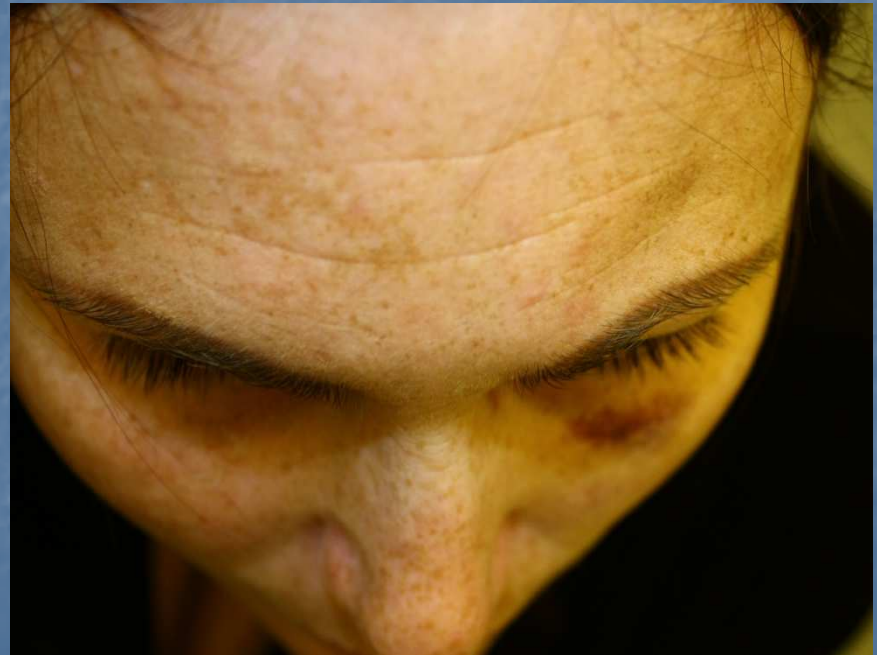
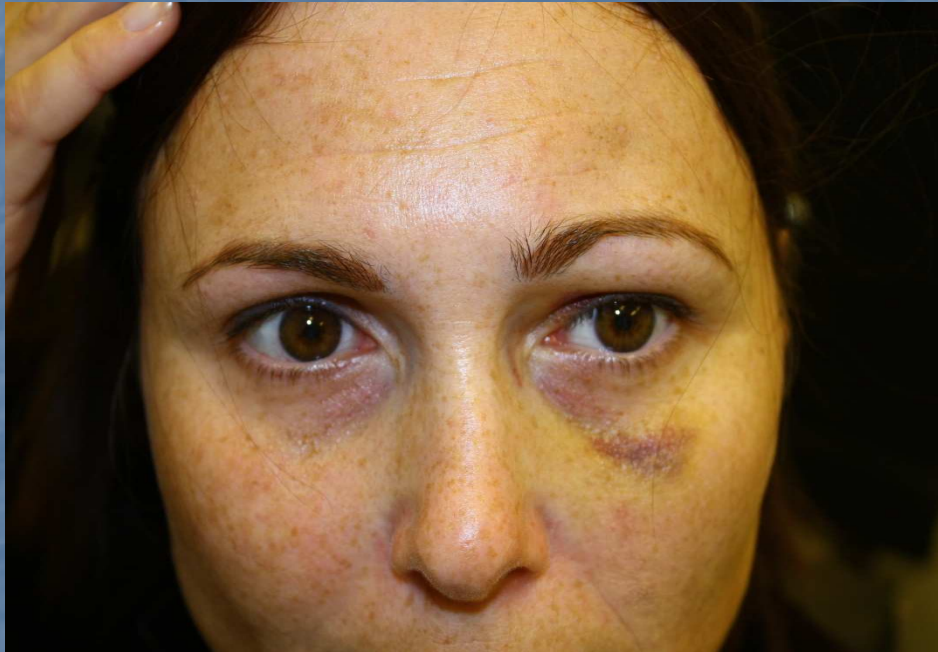
Approach through the extension



Postop rtg



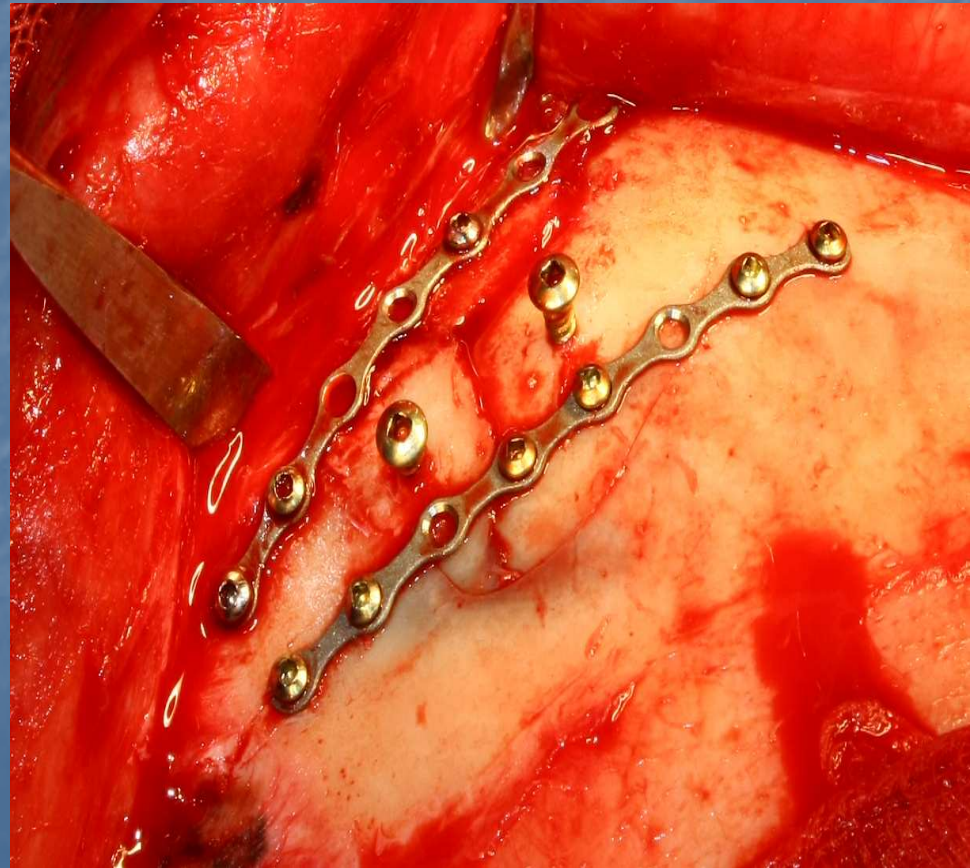
Case 2.



3D CT



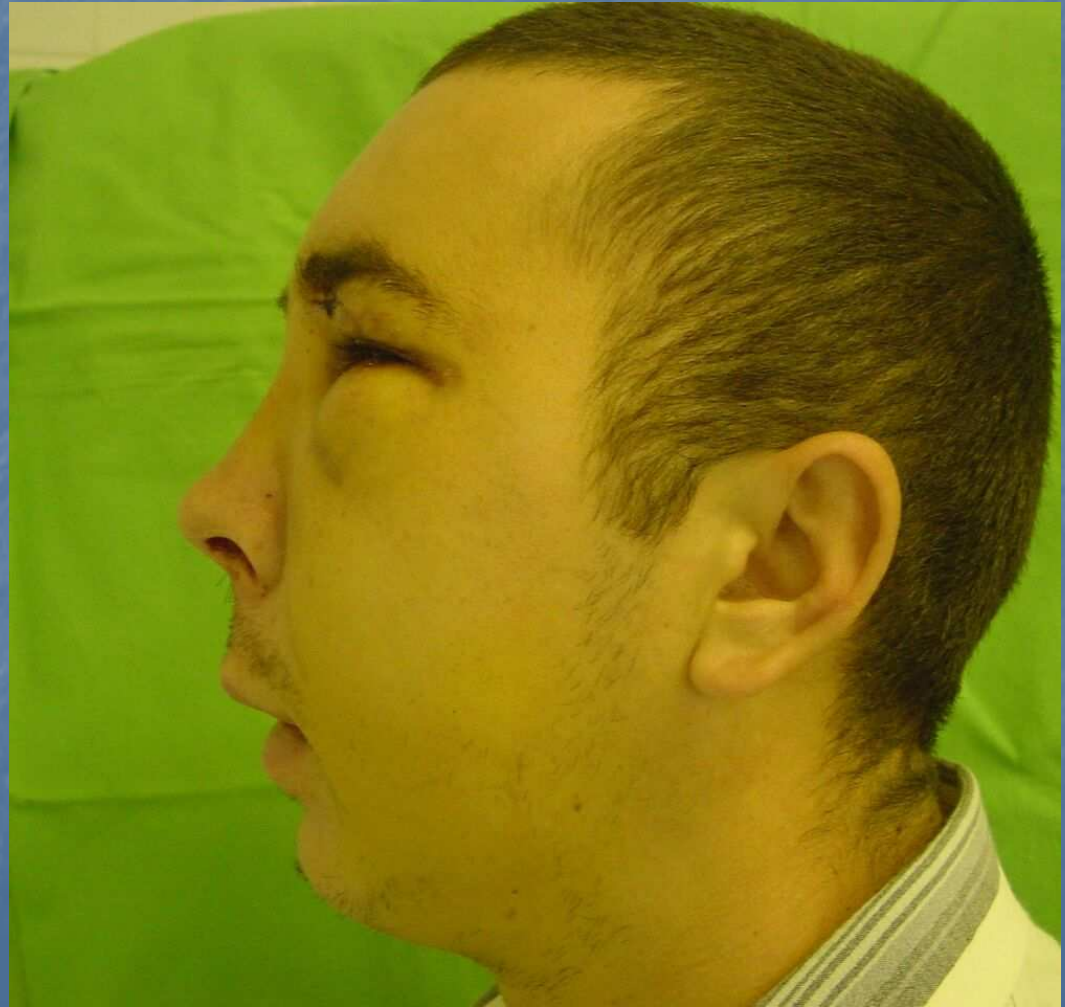
Coronal incision



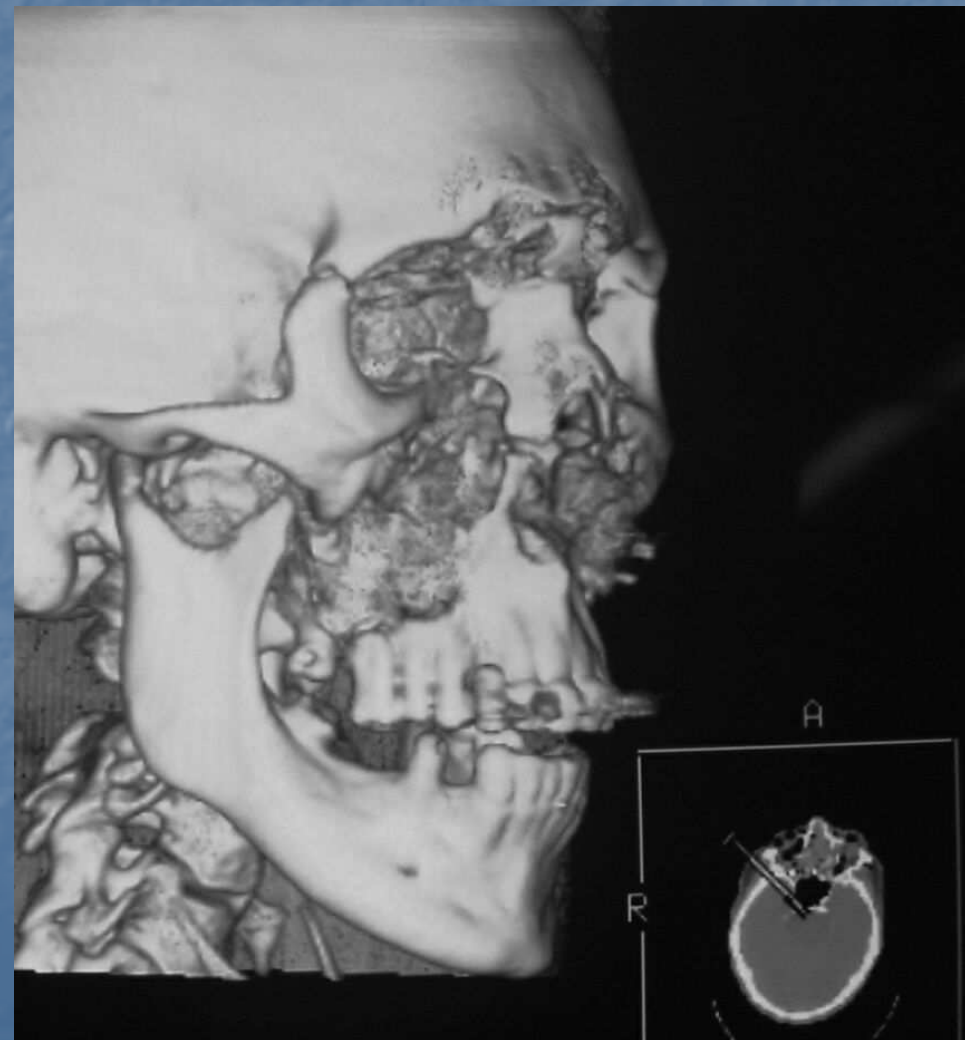
Postoperative



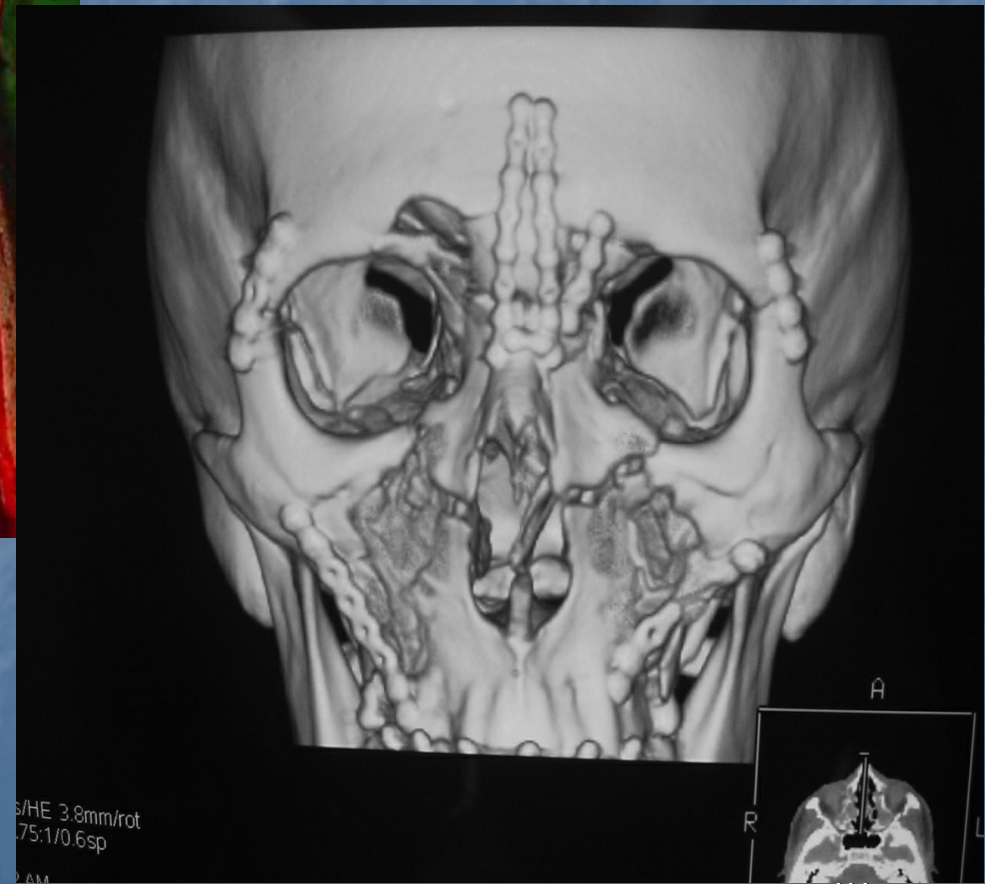
Case 3. Le Fort III.



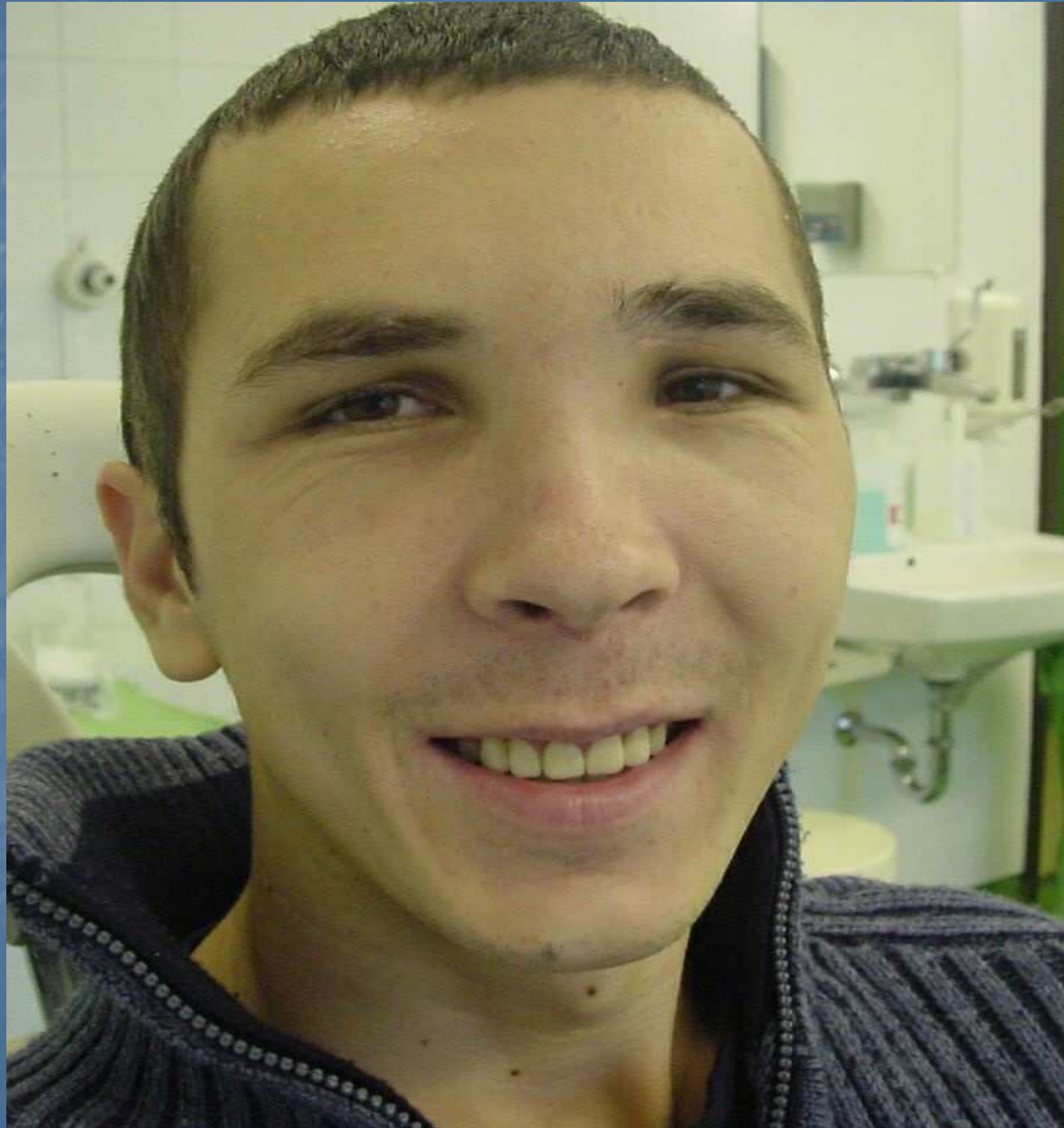
3DCT



Reposition and fixation



The Happy Patient



Results

- Good cosmetic result
- No nerve Injury (VII, V/1)
- Good sinus function...
- No complication so far (14 months)

Conclusion

- 3D CT is essential
- Coronal incision
- Titanium microplates, no second operation

Thank You!