

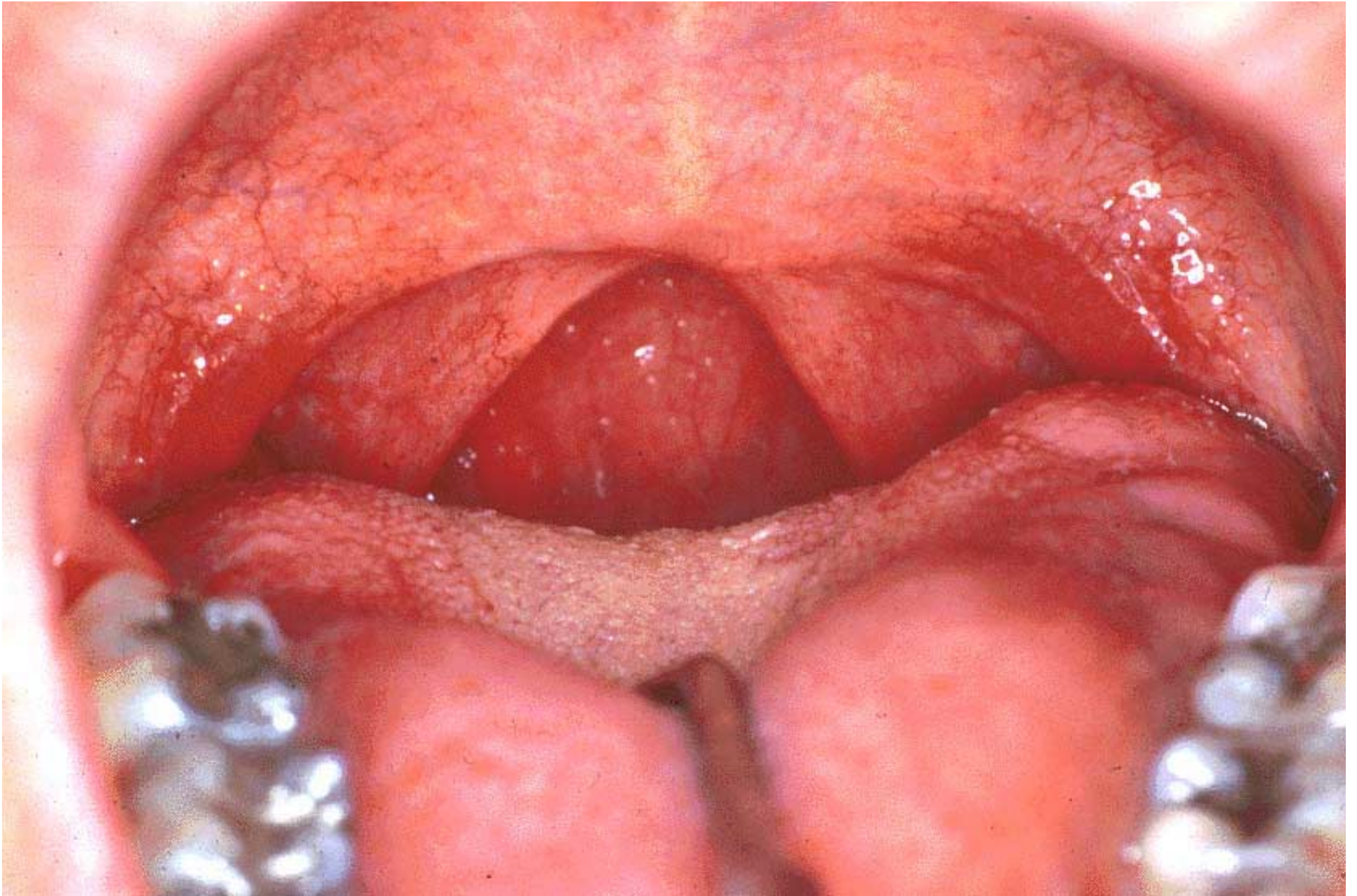
Surgical Treatment Options for OSA

Some pictures of the various surgeries are quite graphic and may not be suitable for viewing by some people.



C2

Tracheotomy



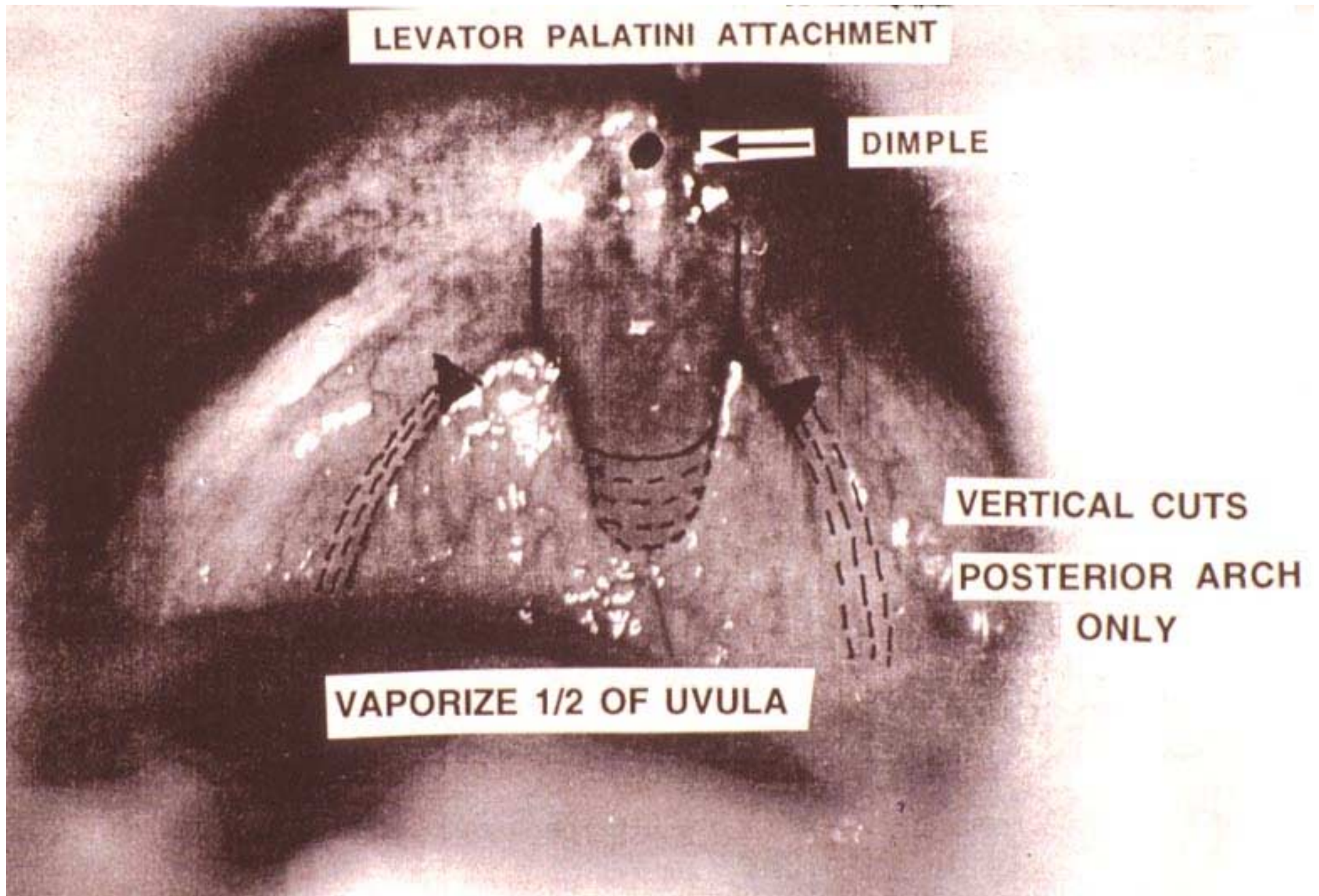
C3

Uvulectomy - Uvula removed



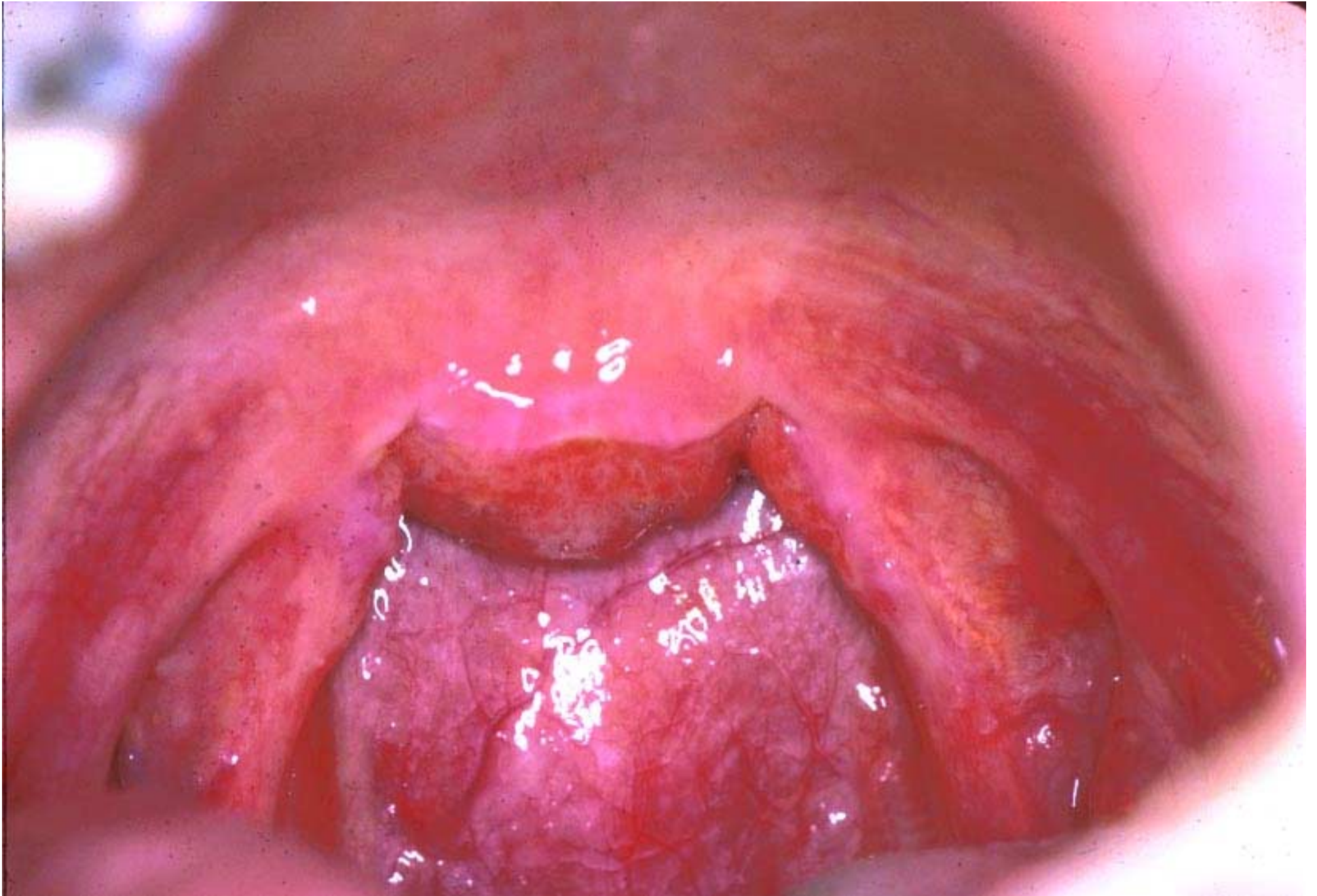
C4

Somnoplasty on soft palate



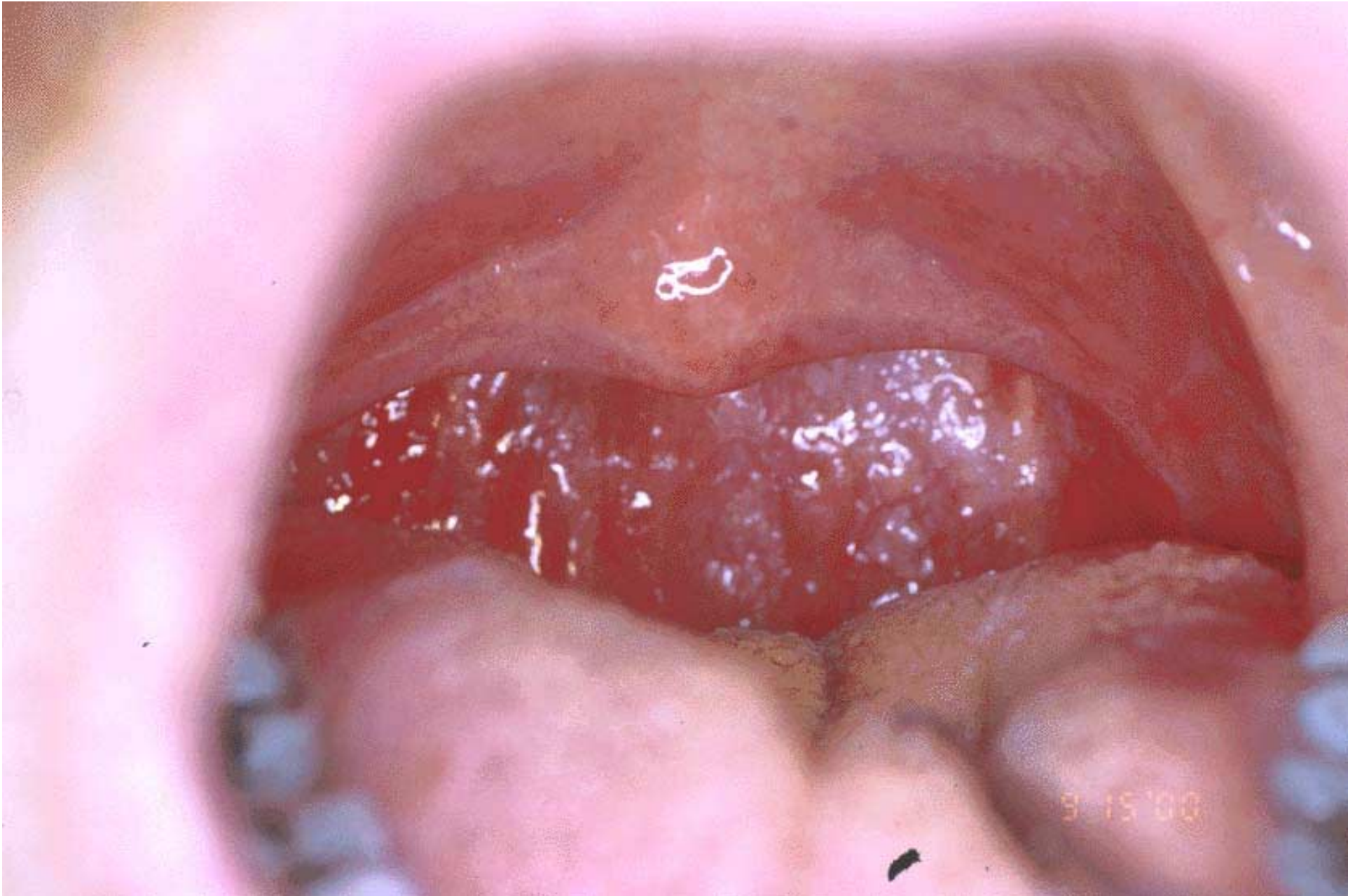
C5

Laser assisted uvuloplasty - LAUP

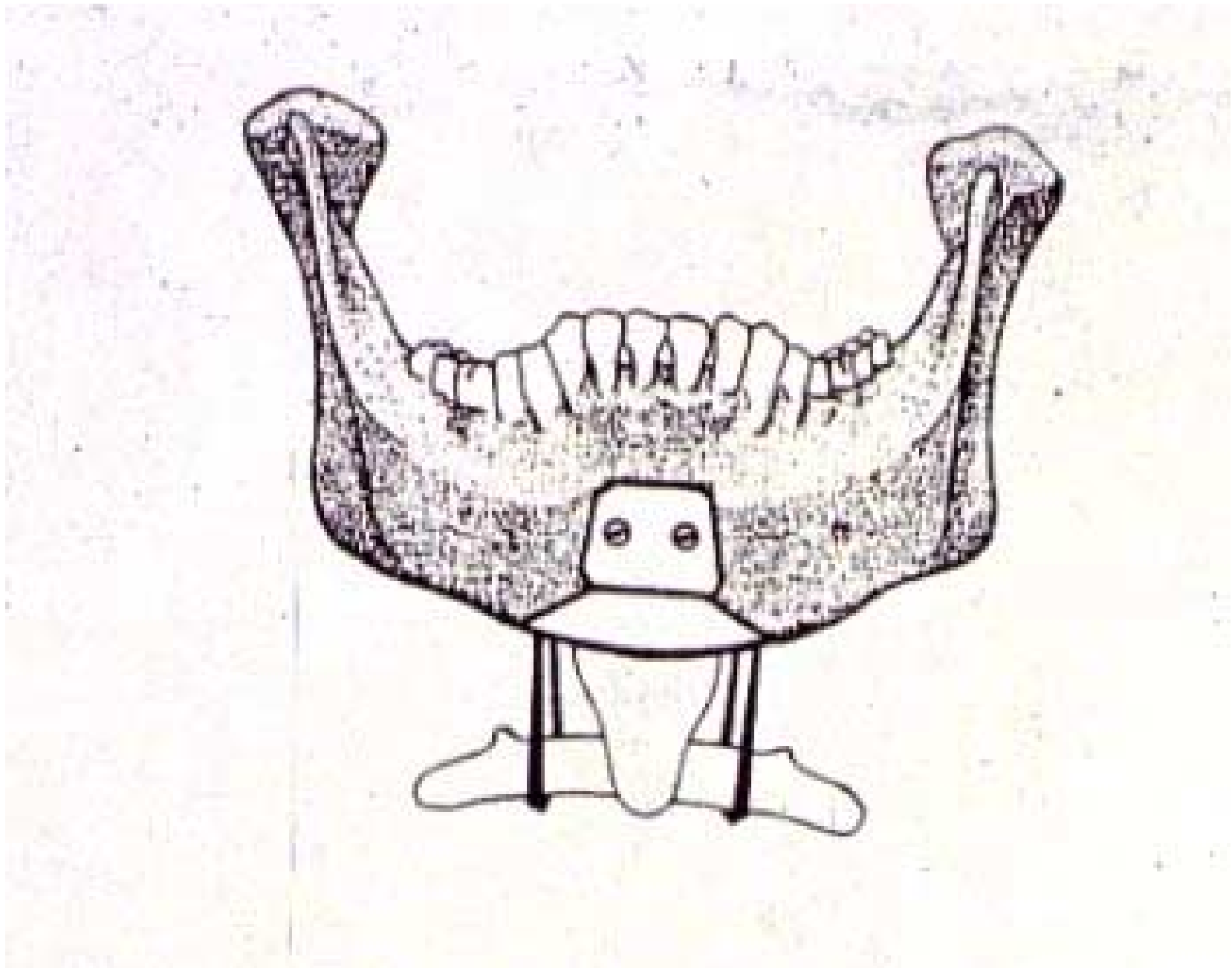


C6

Post LAUP surgery

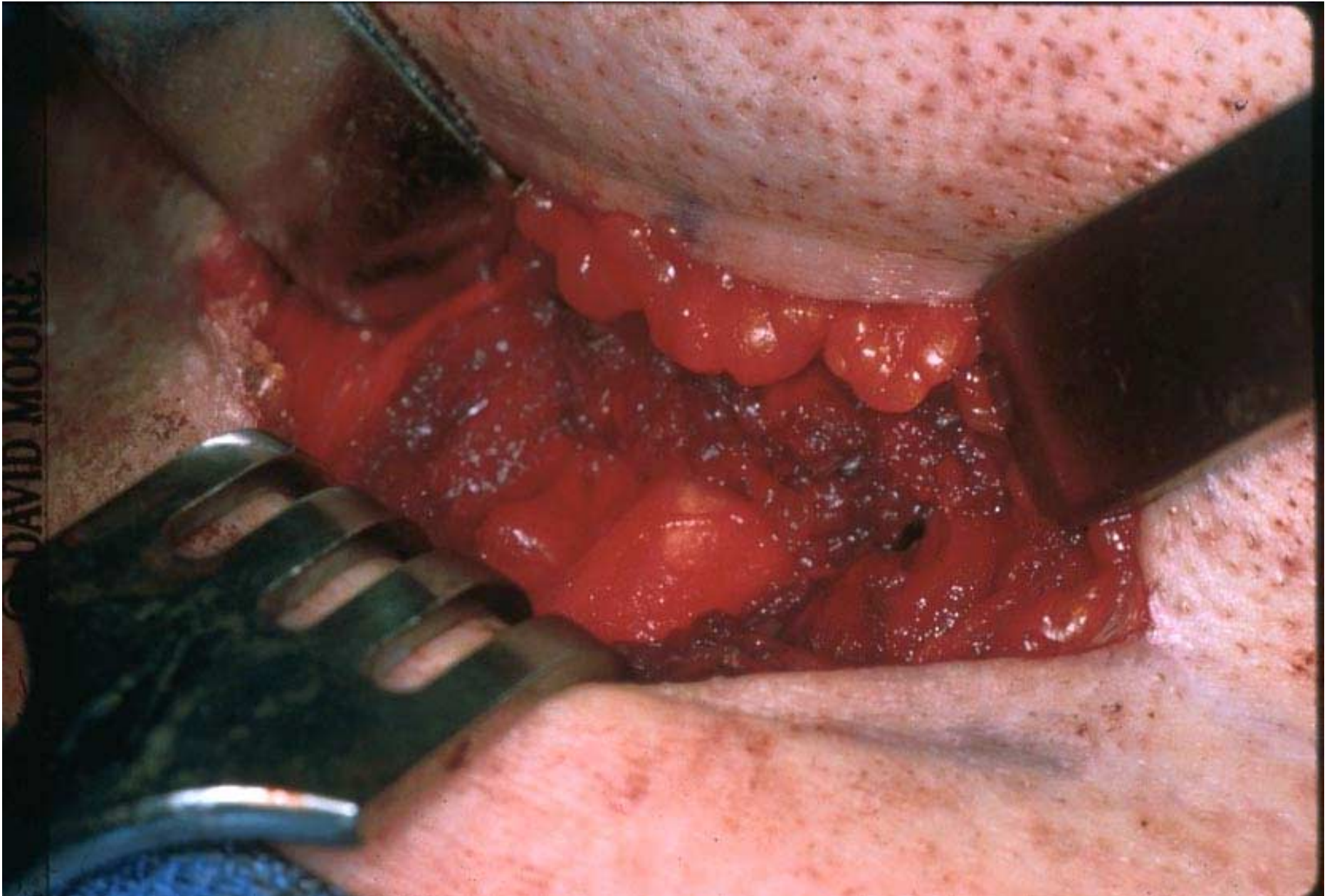


C7 Tonsils and some of uvula removed



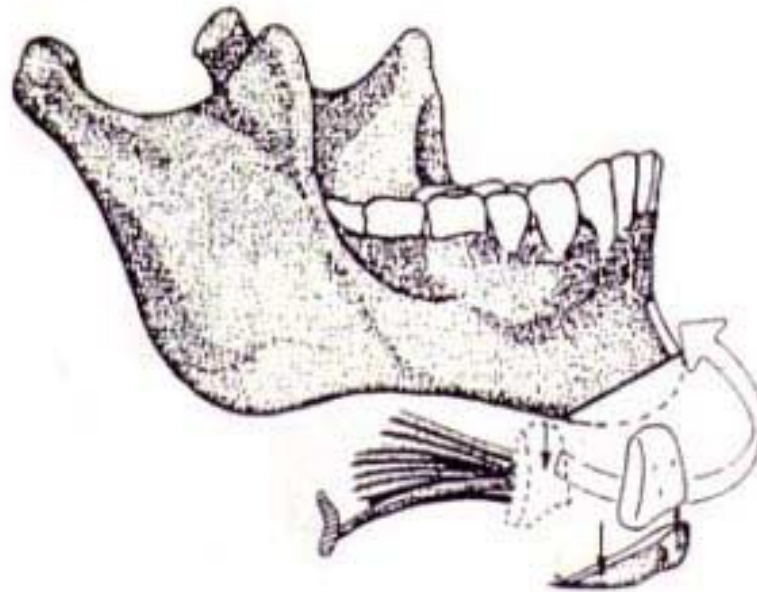
C8

Hyoid suspension



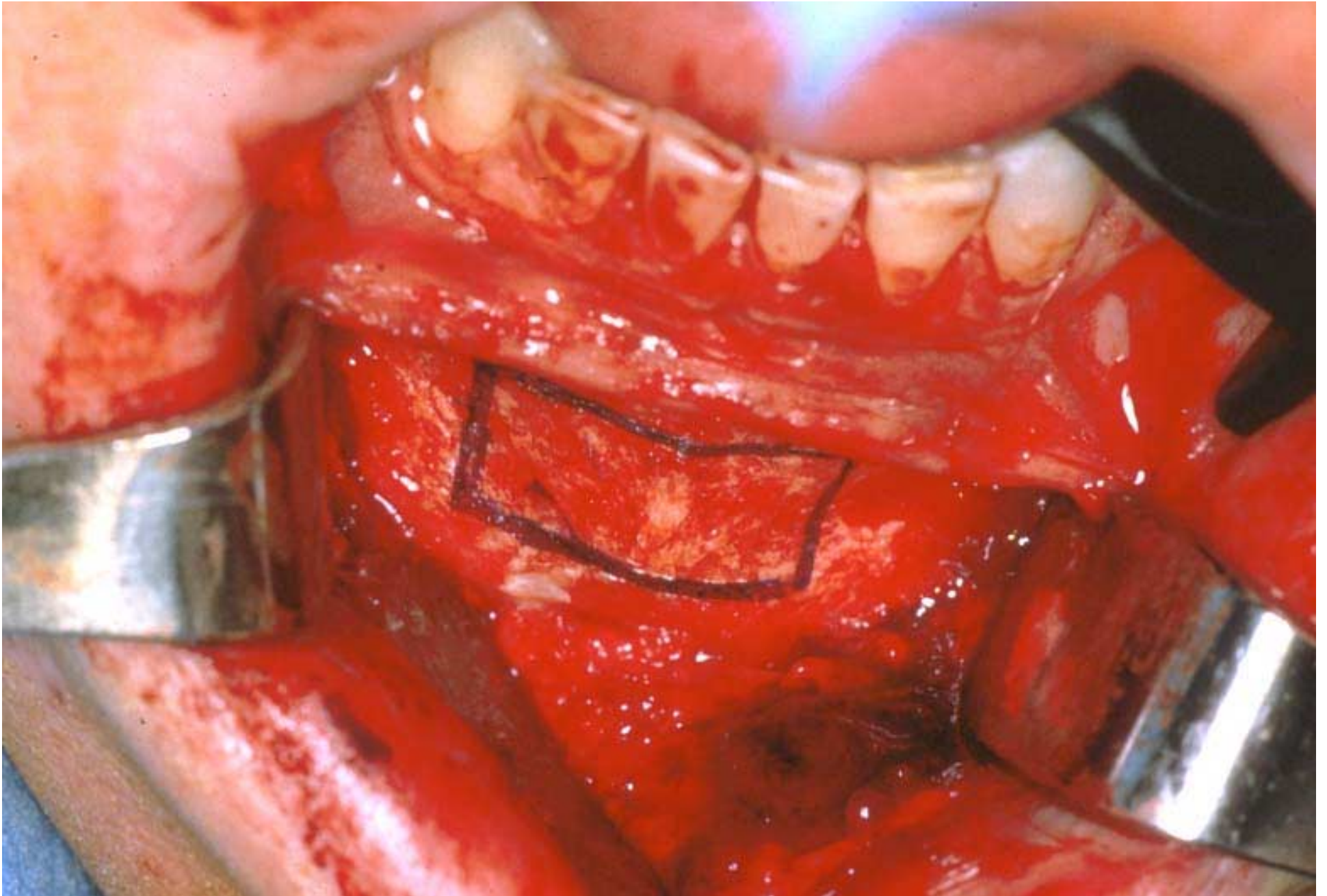
C9 Incision made in neck to advance hyoid bone

Genioglossal advancement



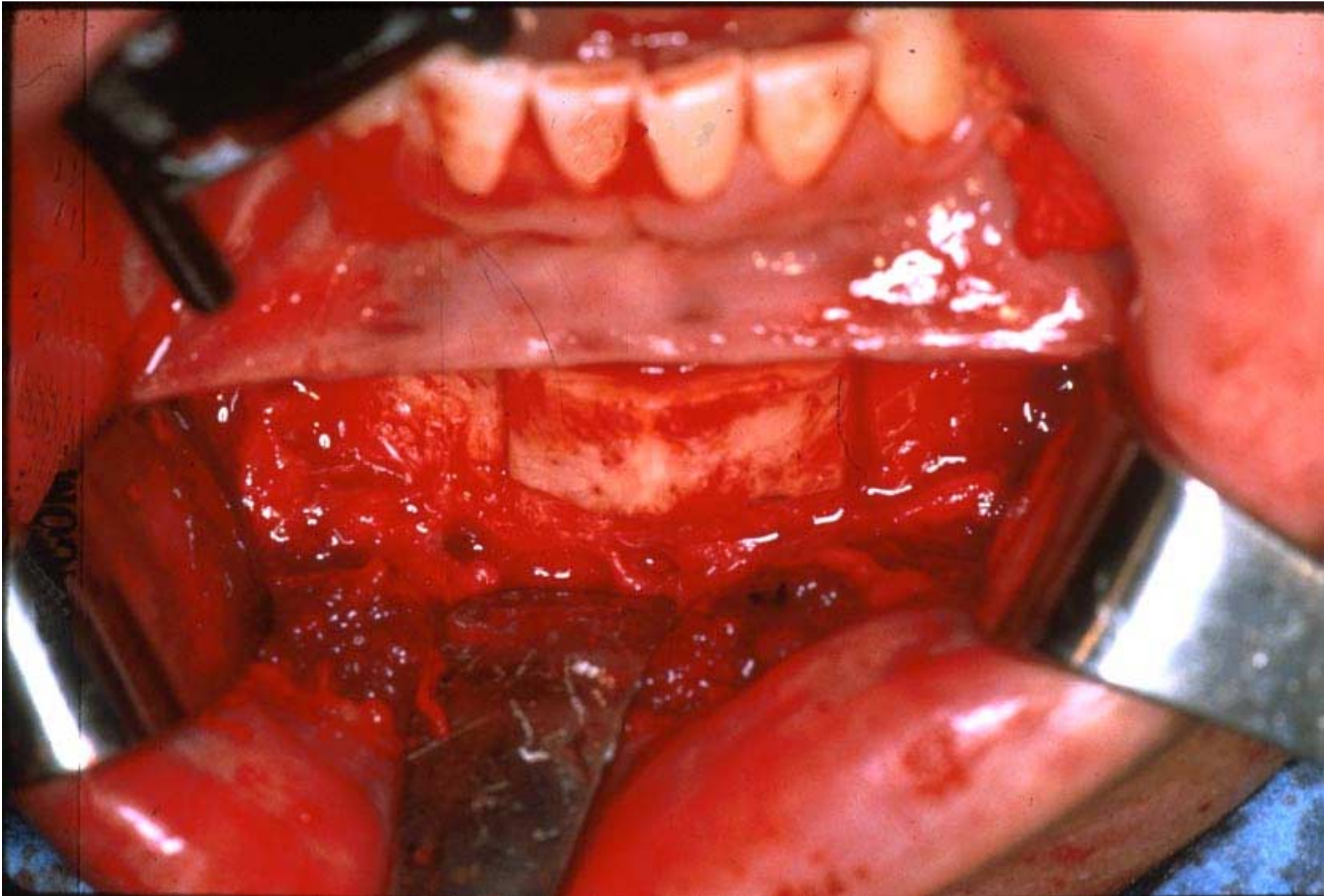
This is quite graphic

May not be suitable viewing for all



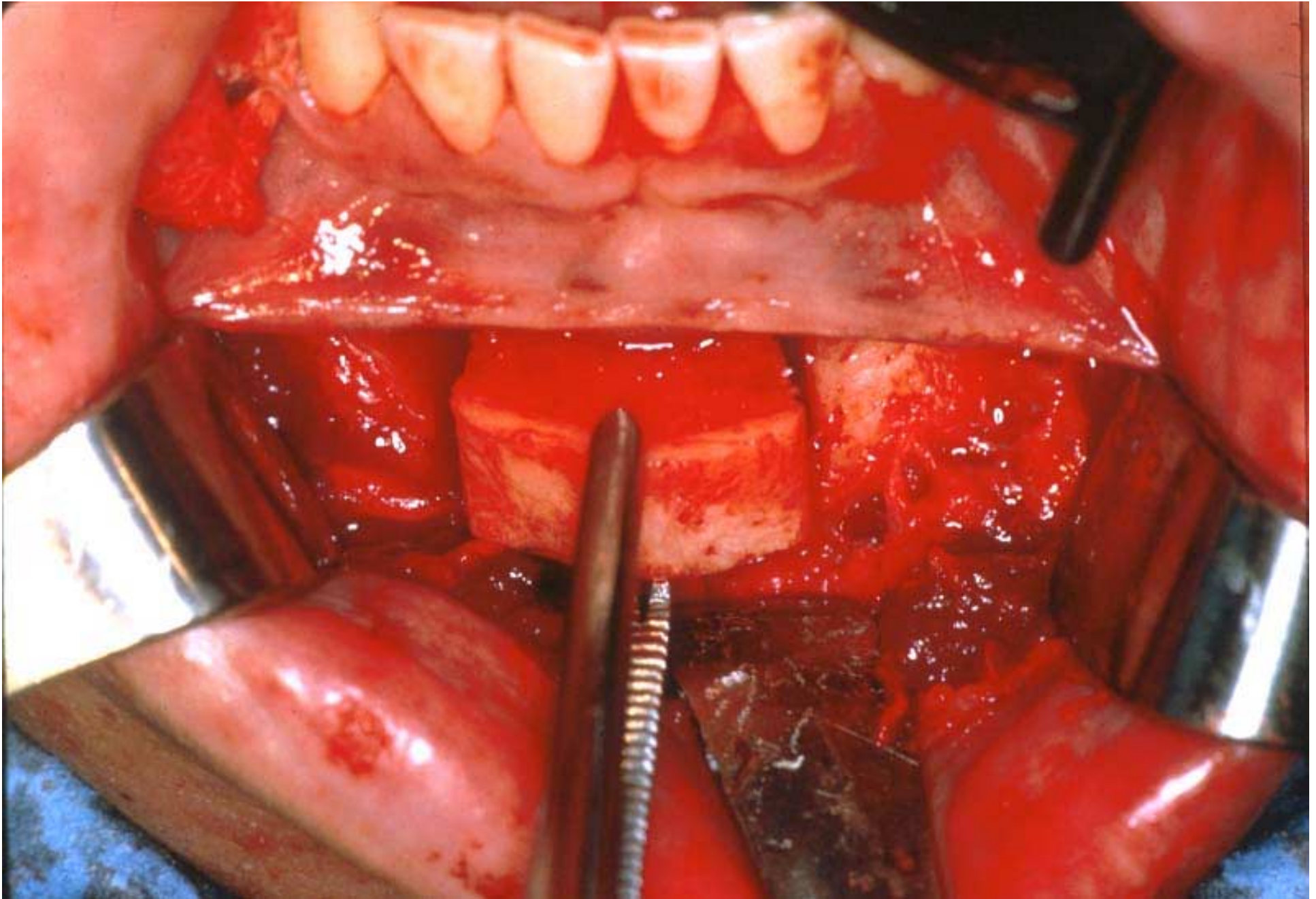
C11

Bone marked where cut will be made



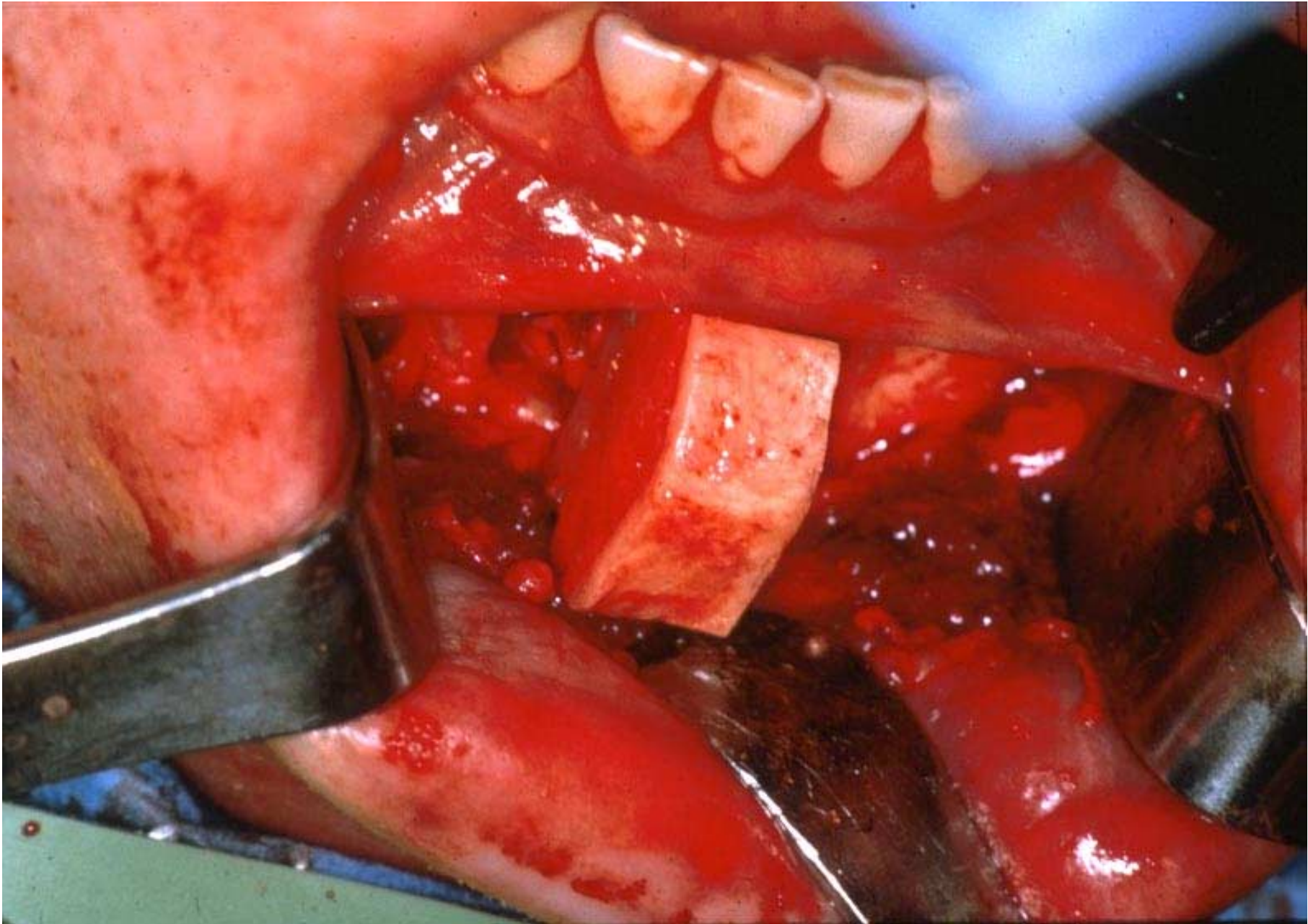
C12

Cut has been made in the bone



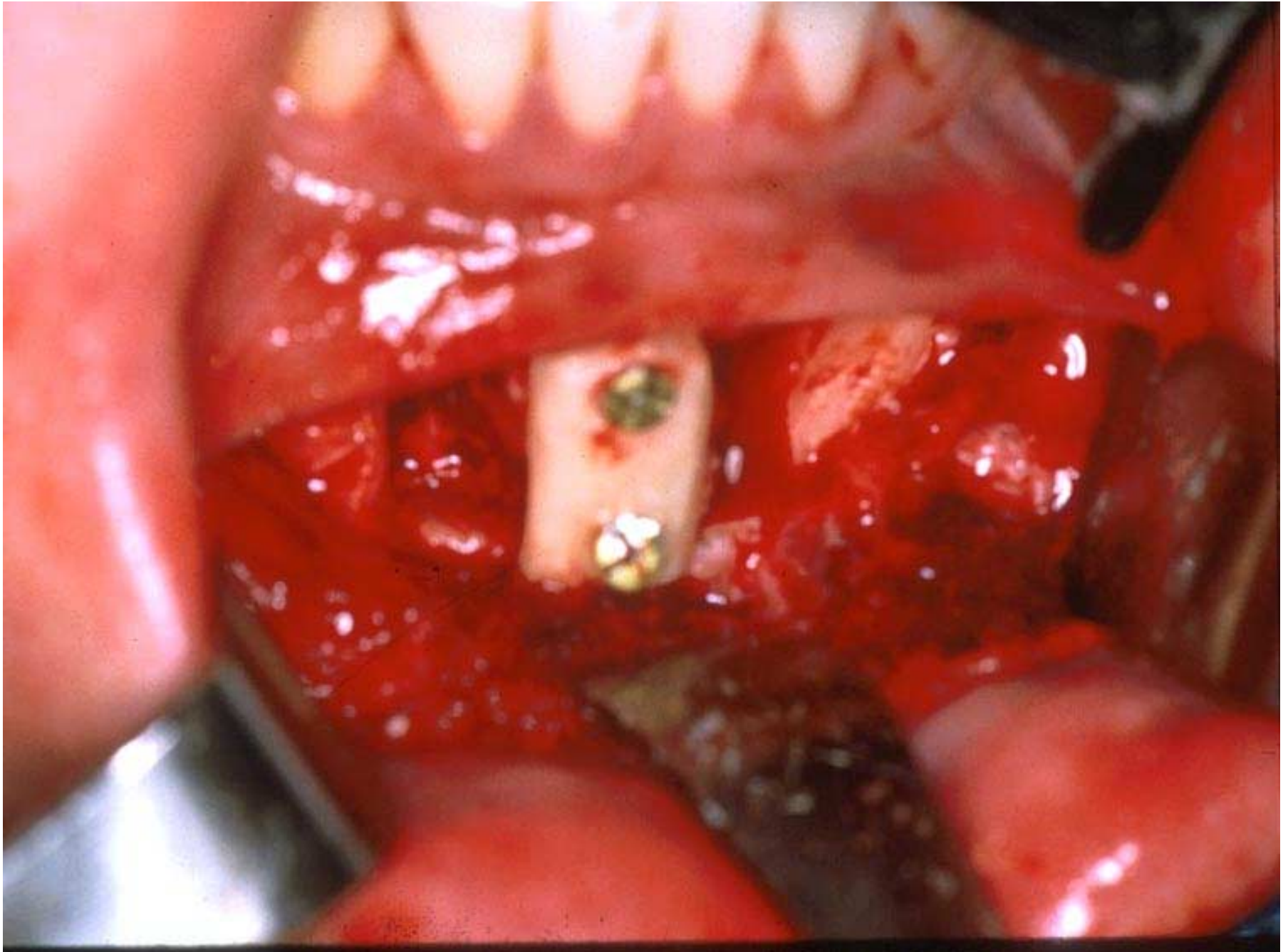
C13

Section of bone advanced

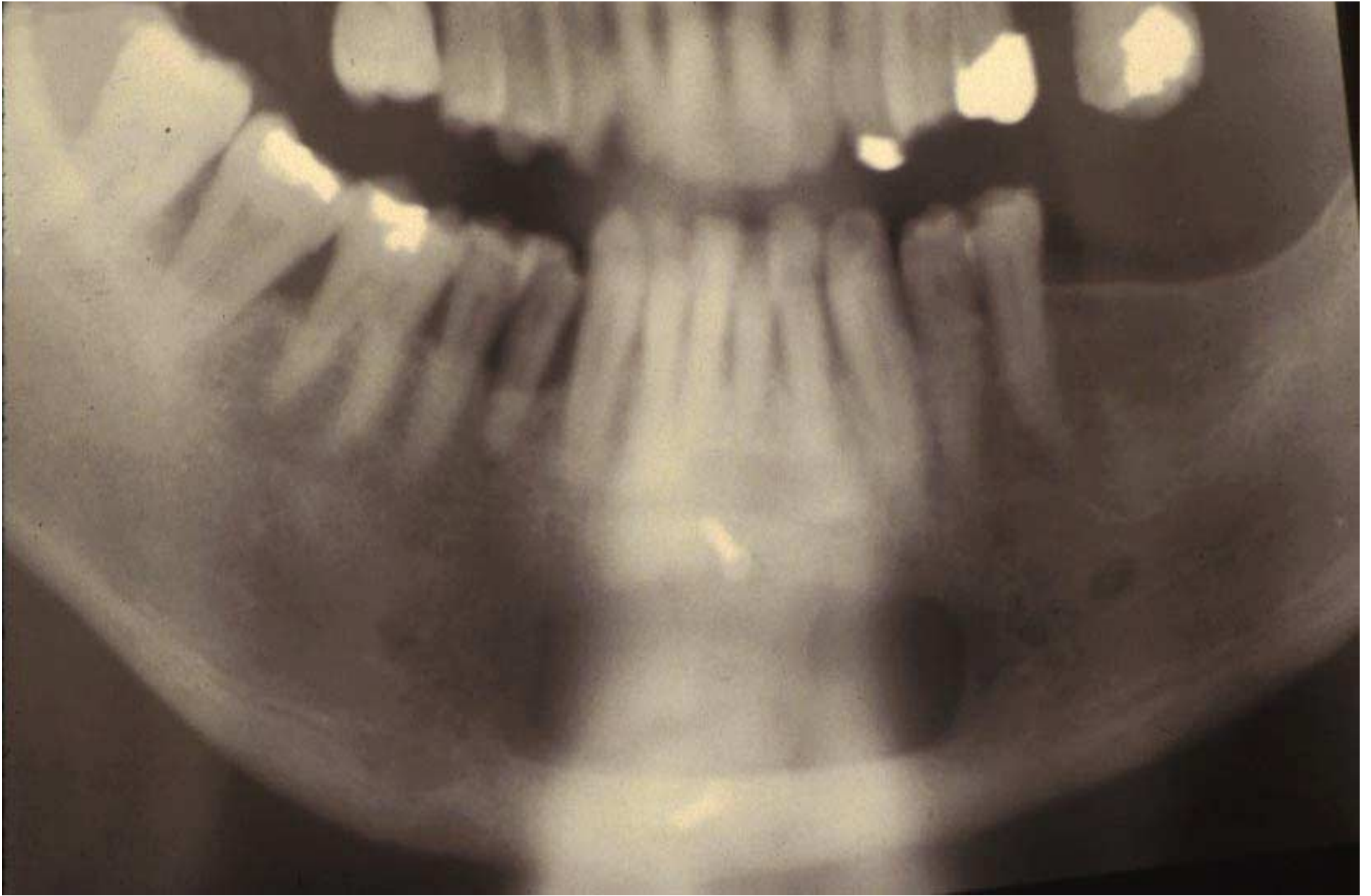


C14

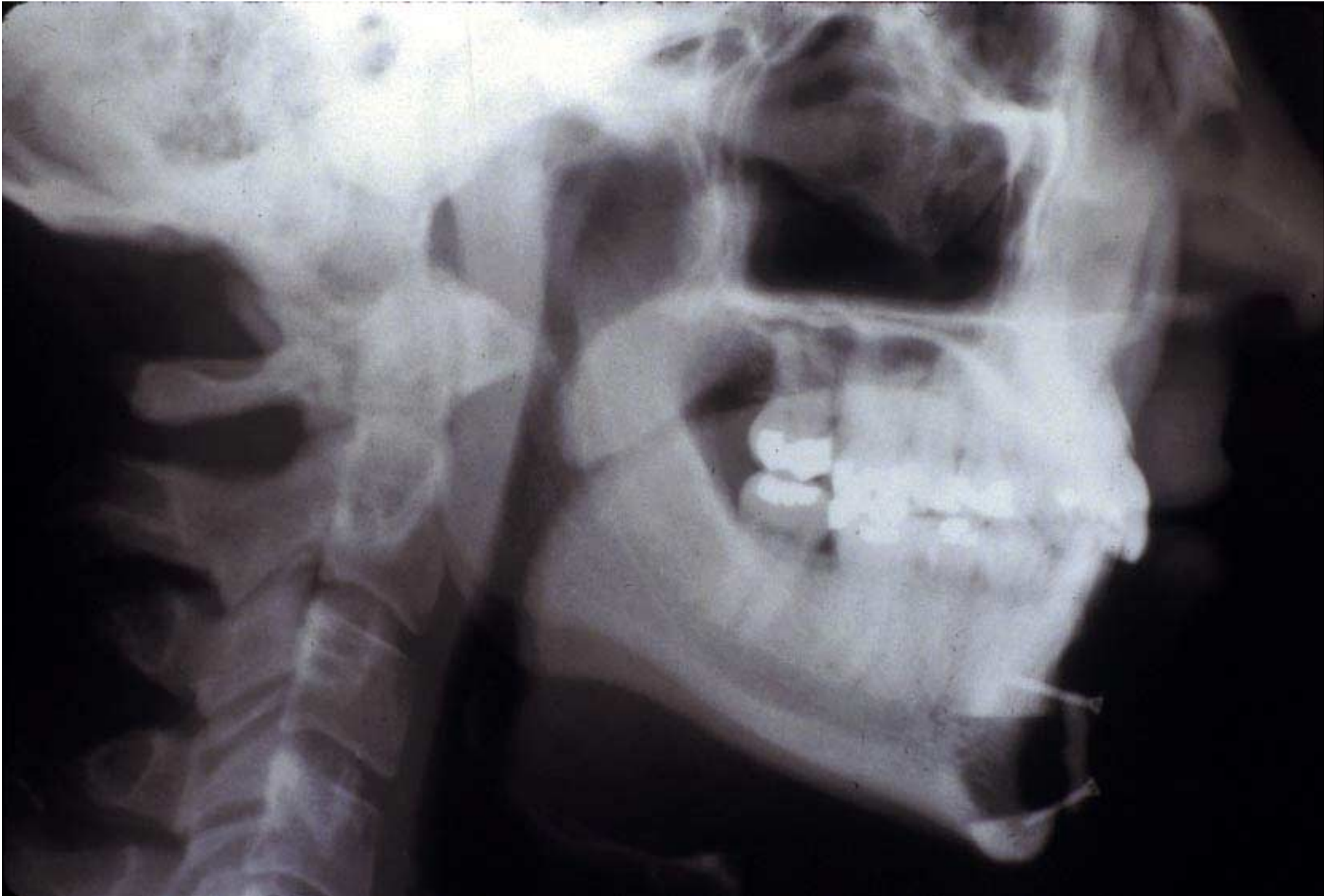
Section of bone rotated 90 degrees



C15 Bulk of bone reduced and screwed to place

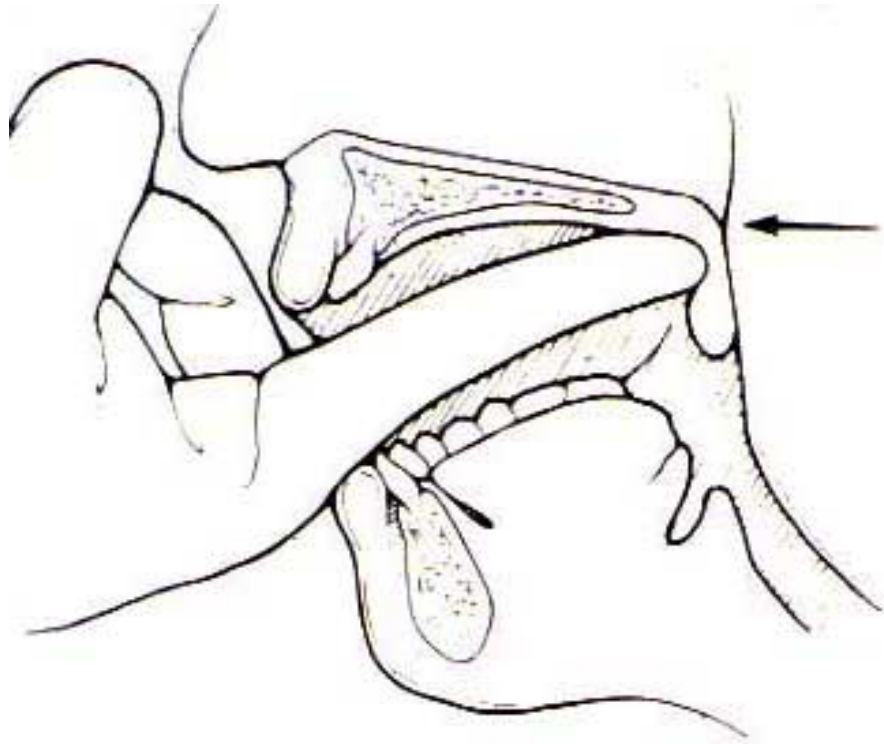


C16 Radiograph demonstrates surgery area and screws



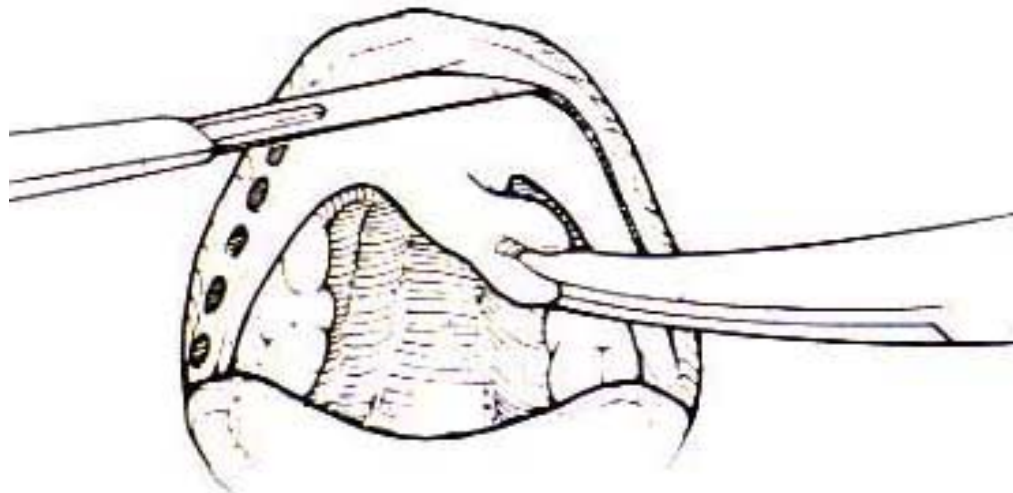
C17 Ceph showing improved PAS and screws

Uvulopalatopharyngeoplasty (UPPP)

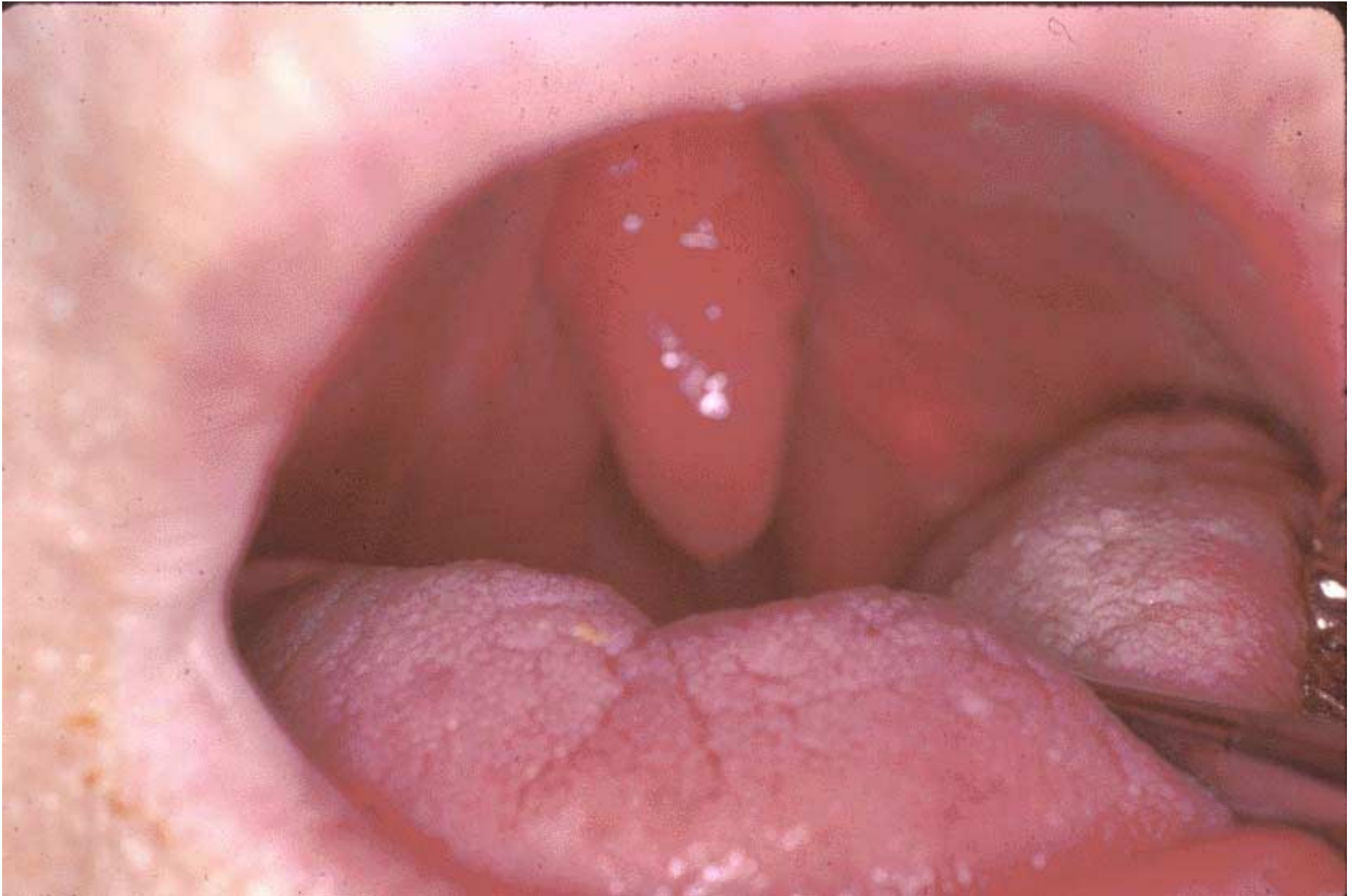


Preparing for UPPP

Determining amount of tissue to remove

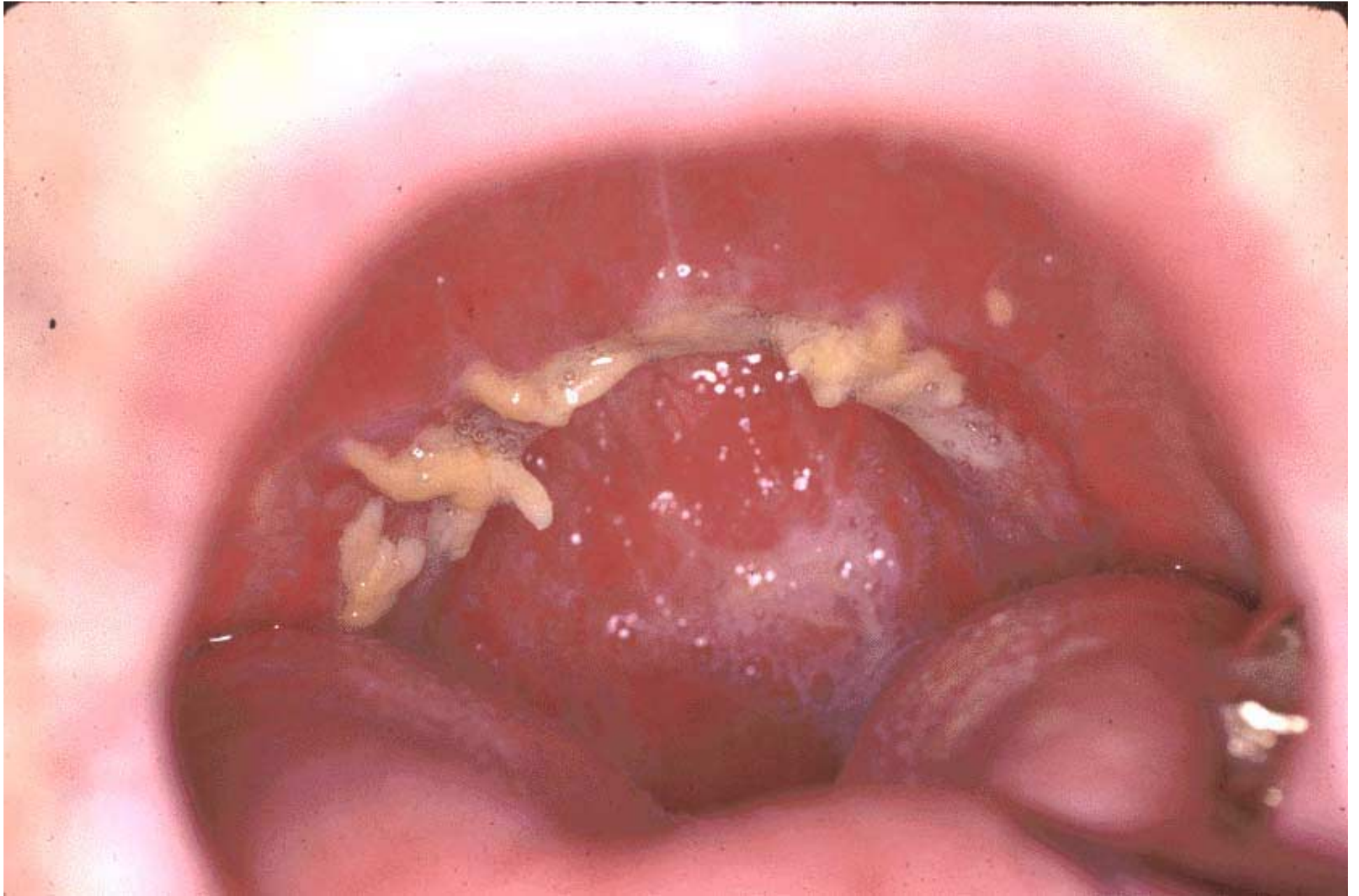


Removing uvula and part of soft palate



C20

Patient with compromised oropharynx

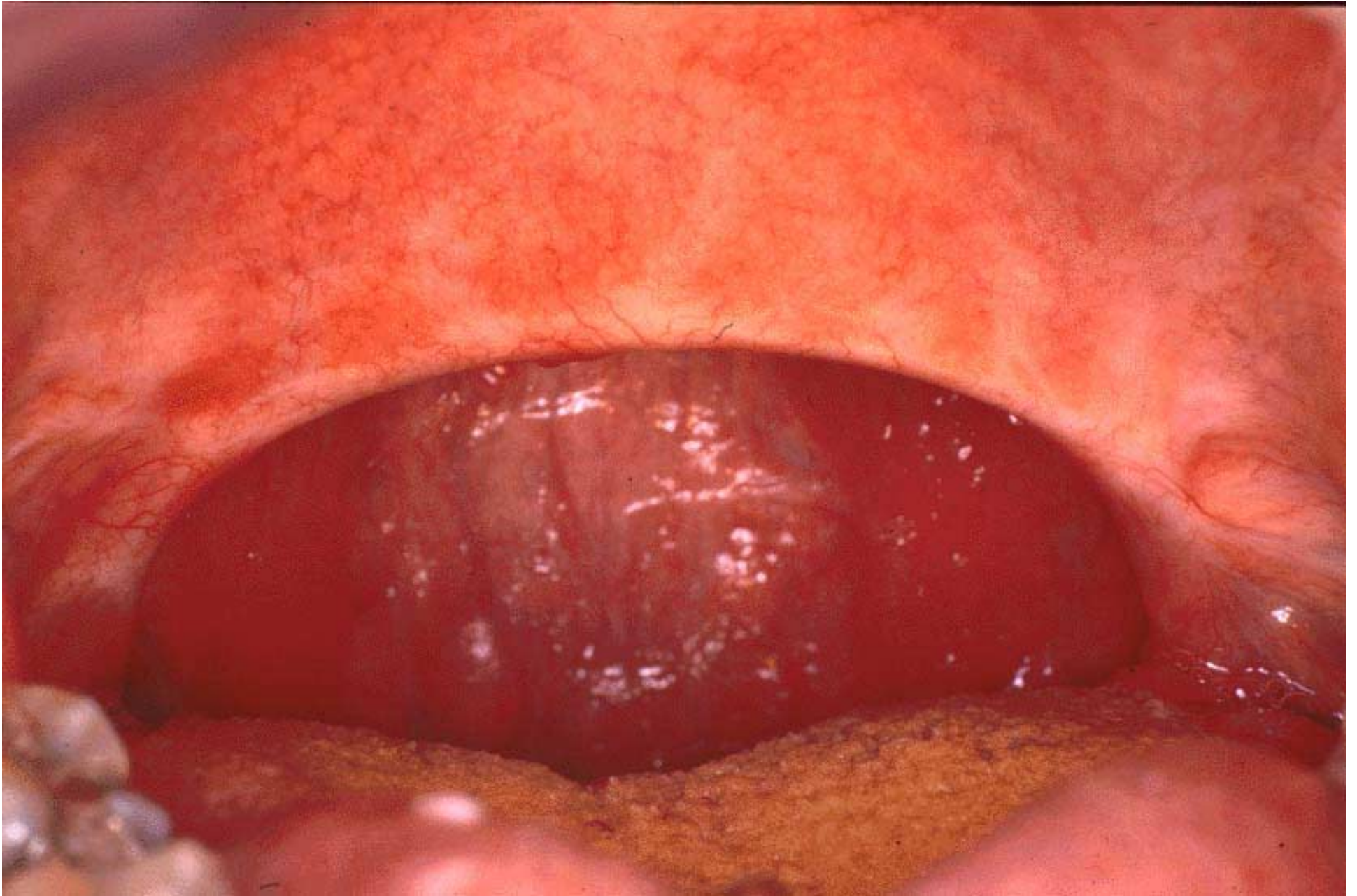


C21 Patient with sutures still present following surgery



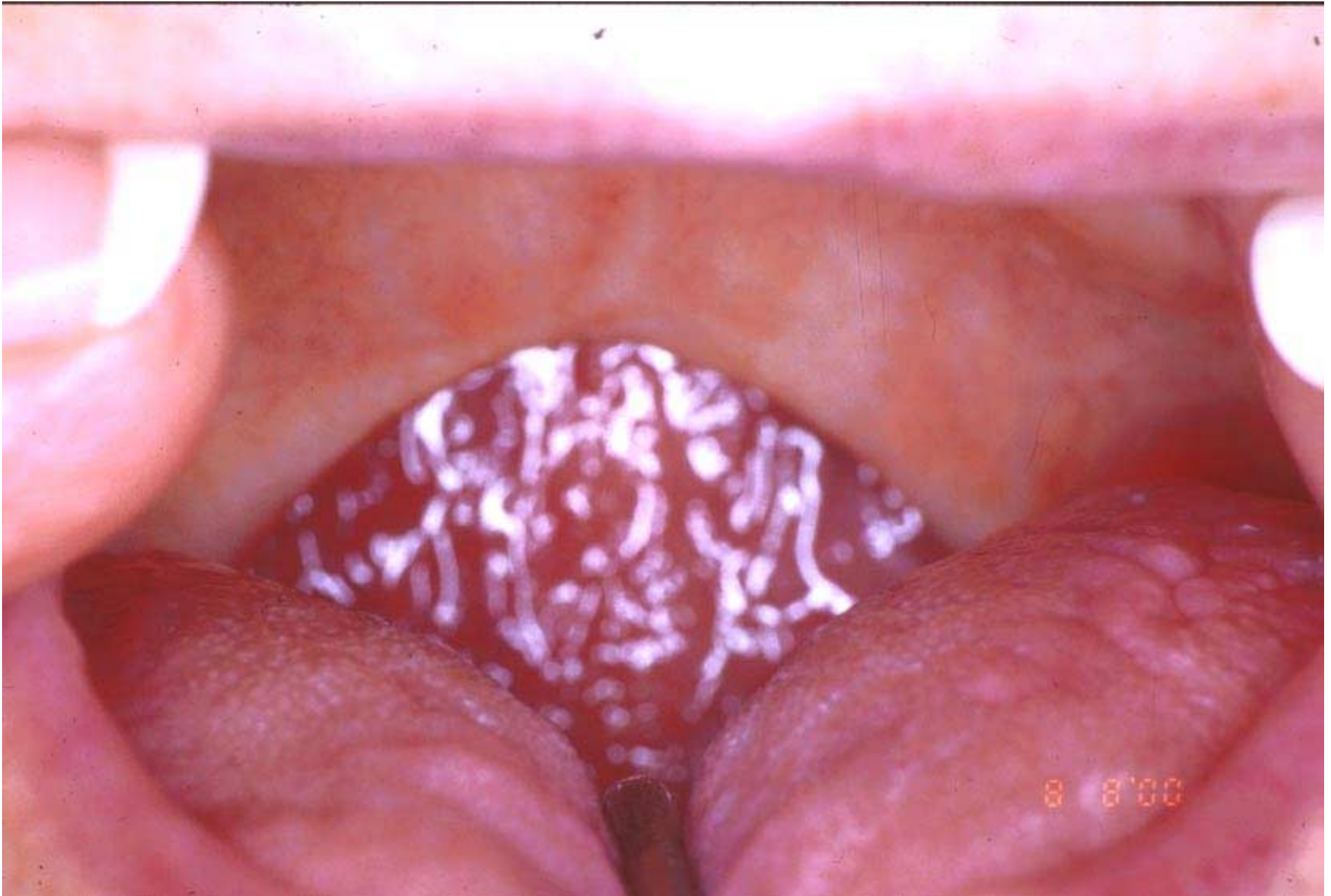
C22

Same patient after 3 months

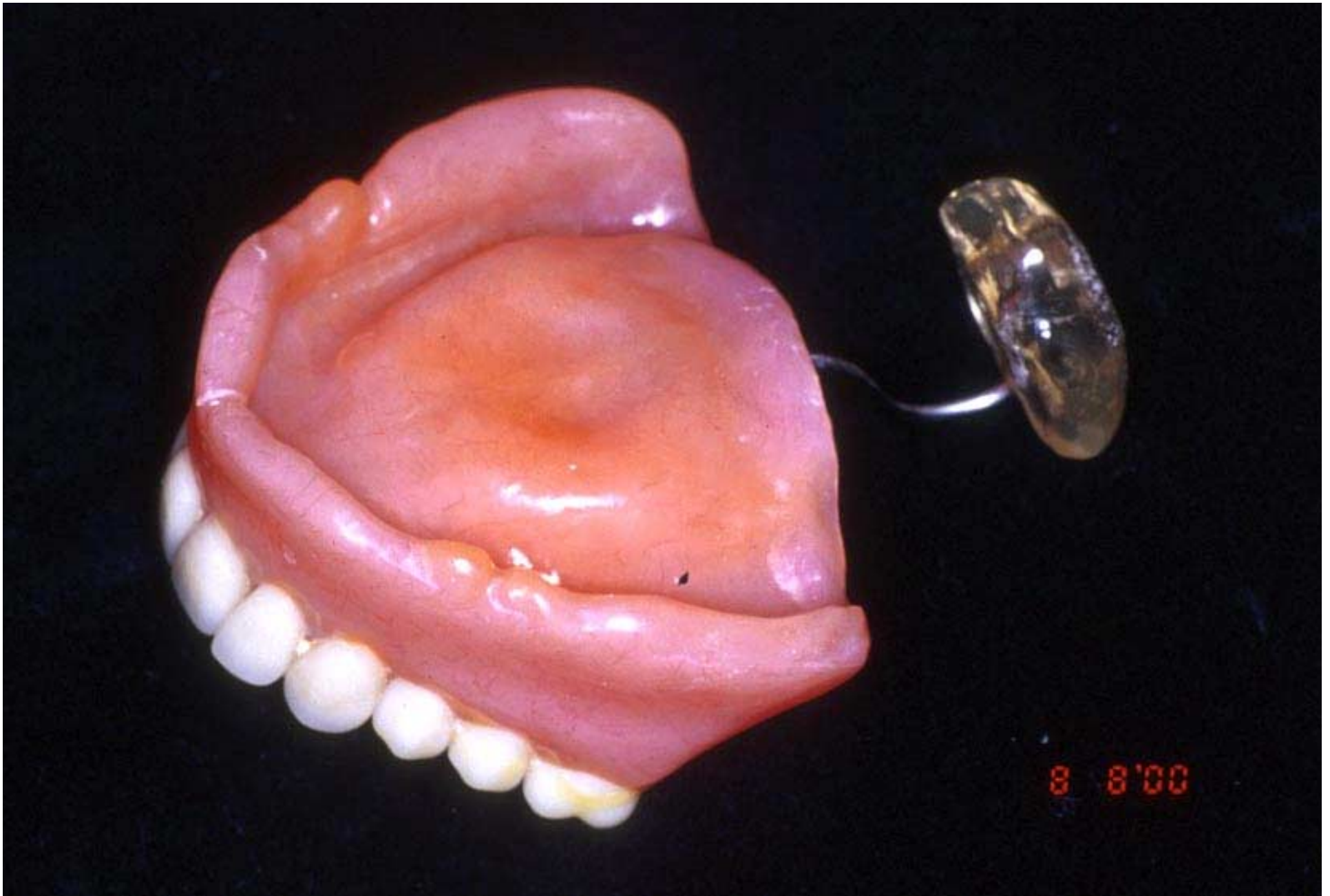


C23

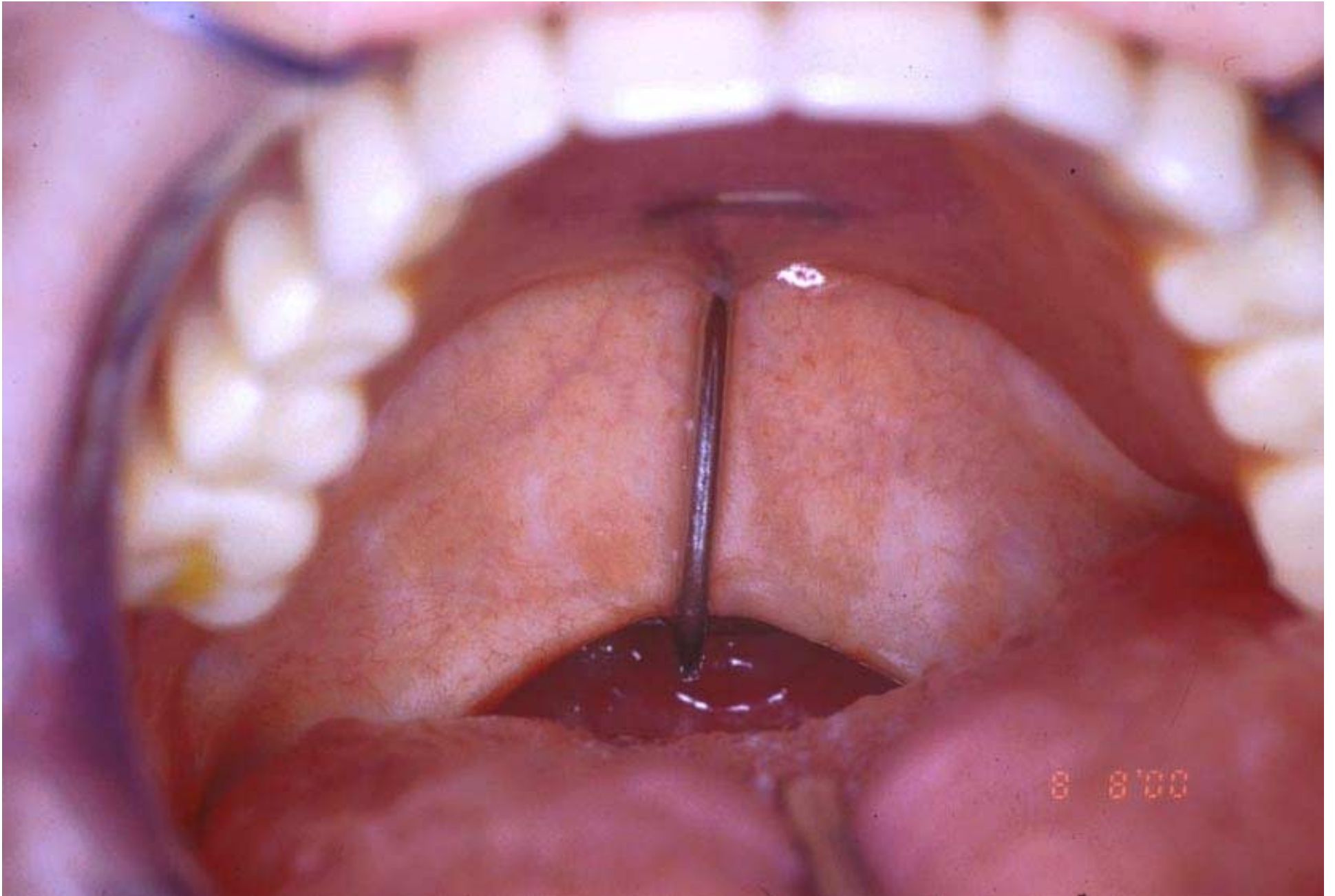
UPPP result on different patient



C24 Too much tissue removed during this UPPP



C25 Obturator attached to upper denture



C26

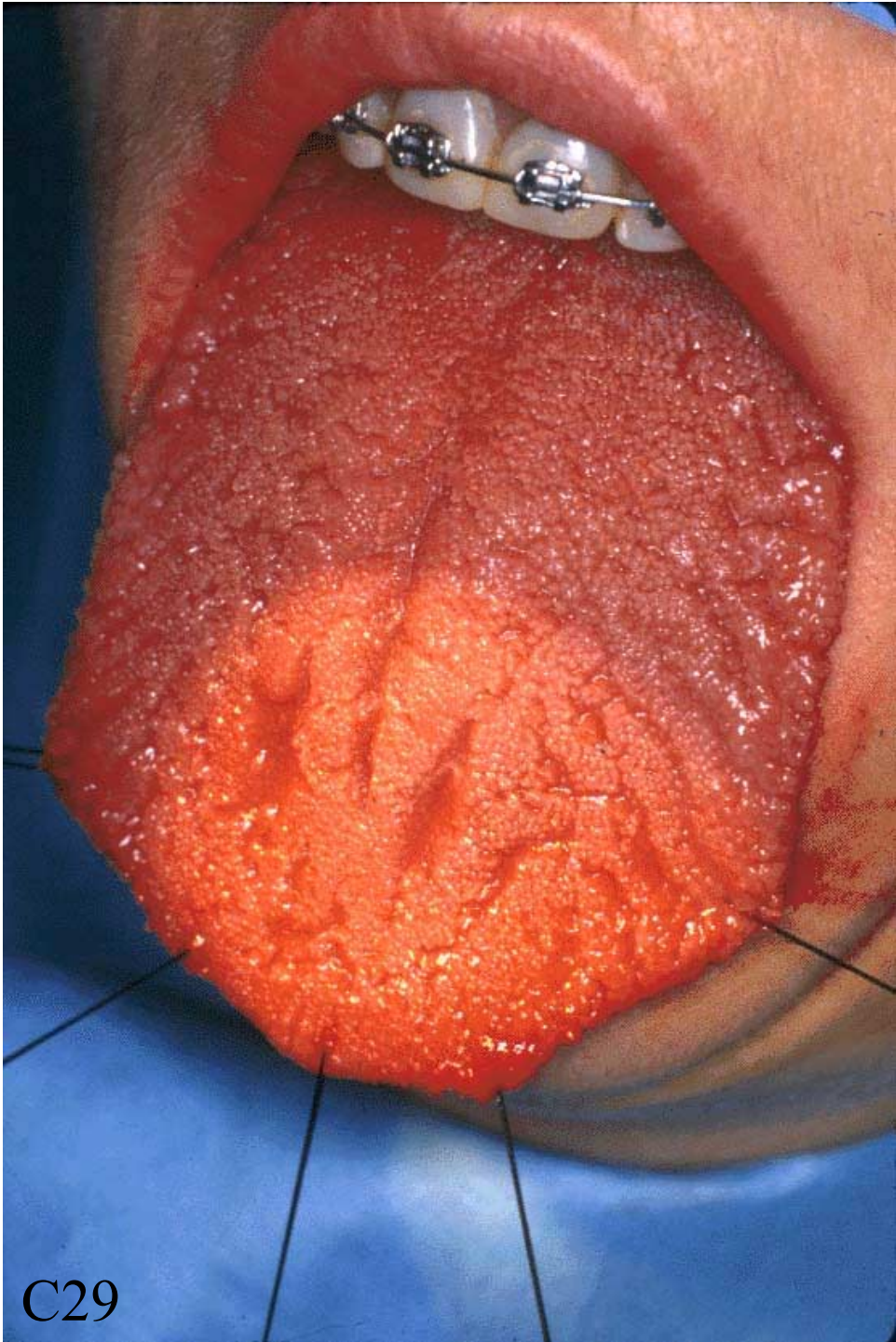
Obturator and denture in mouth



C27 Large tongue was contributing factor to OSA

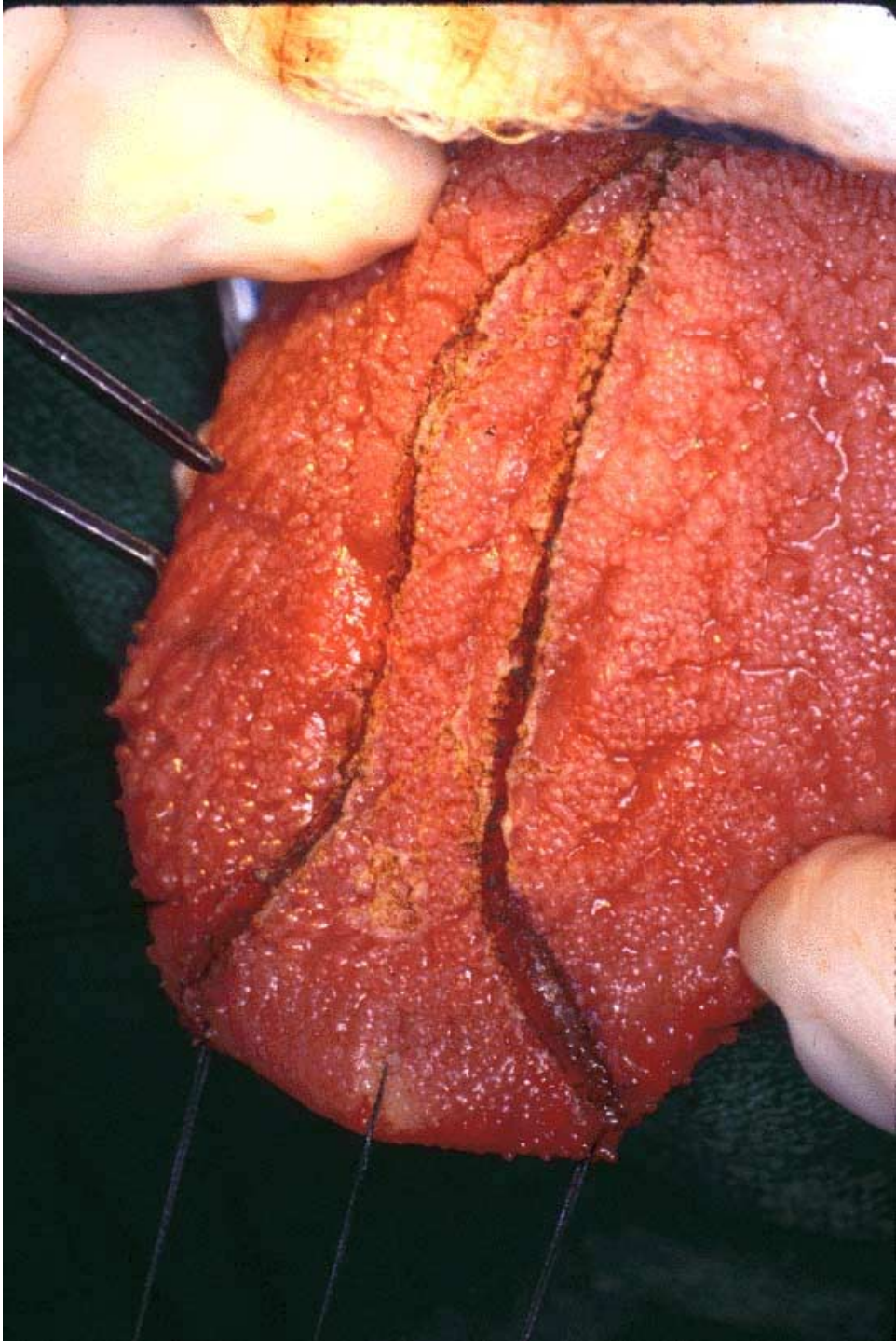
Glossectomy

This surgery is quite graphic and may not be suitable viewing for all.



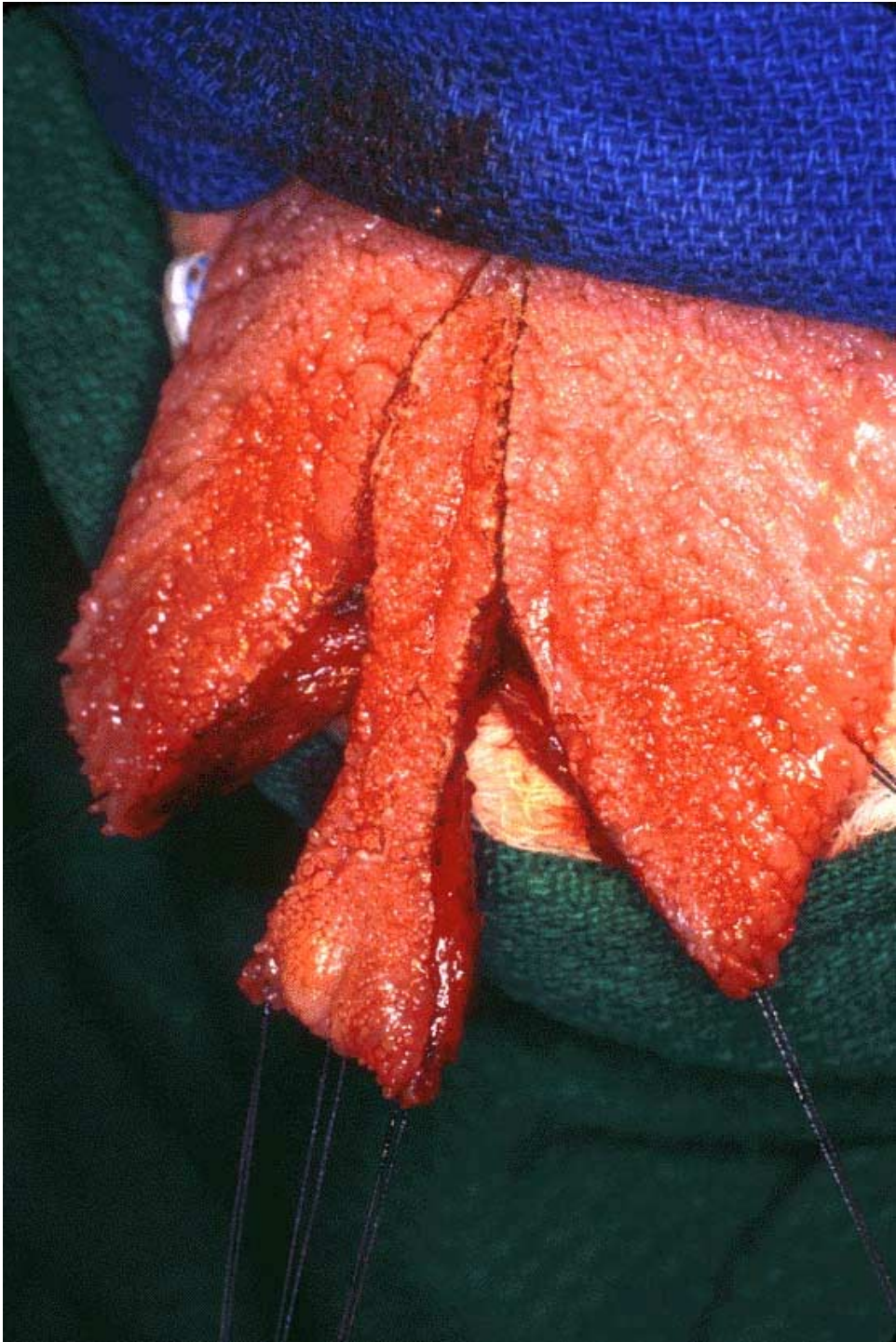
Preparing for tongue
reduction surgery

C29



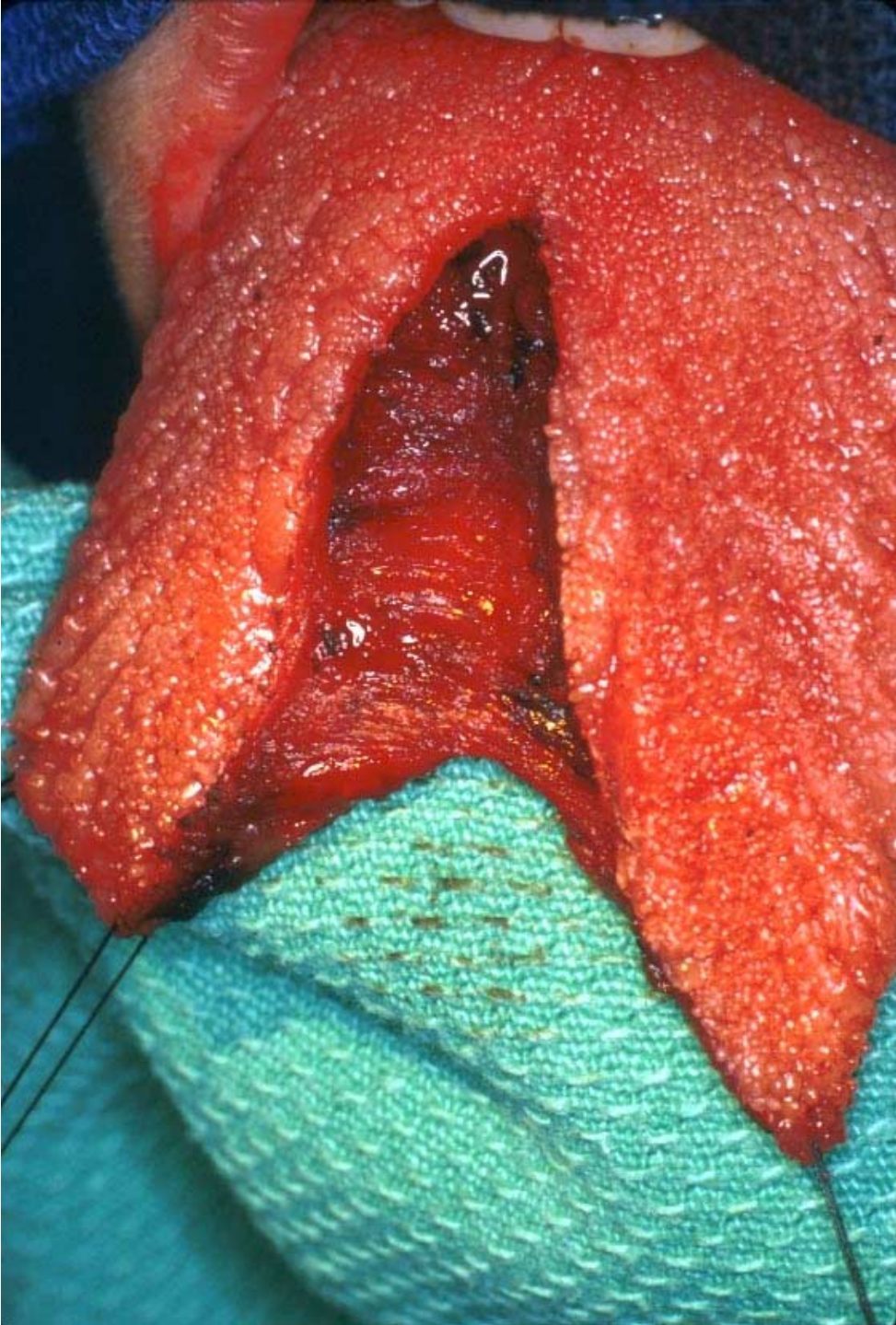
Laser being used to
outline area of tongue
to be removed

C30



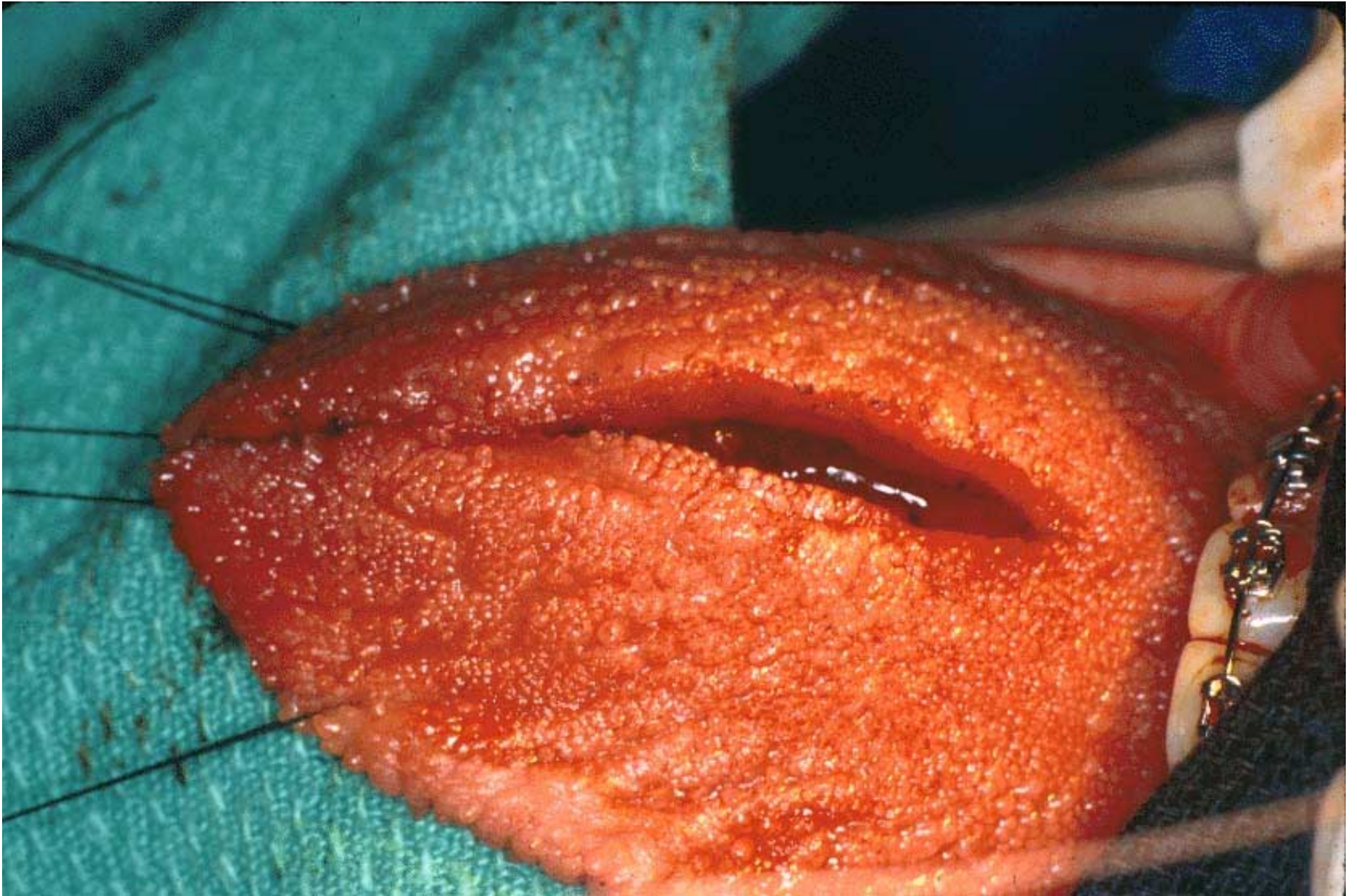
Front middle section
of tongue being
removed

C31



Mid section of
tongue removed

C32



C33

Tongue being sutured



Post operative healing

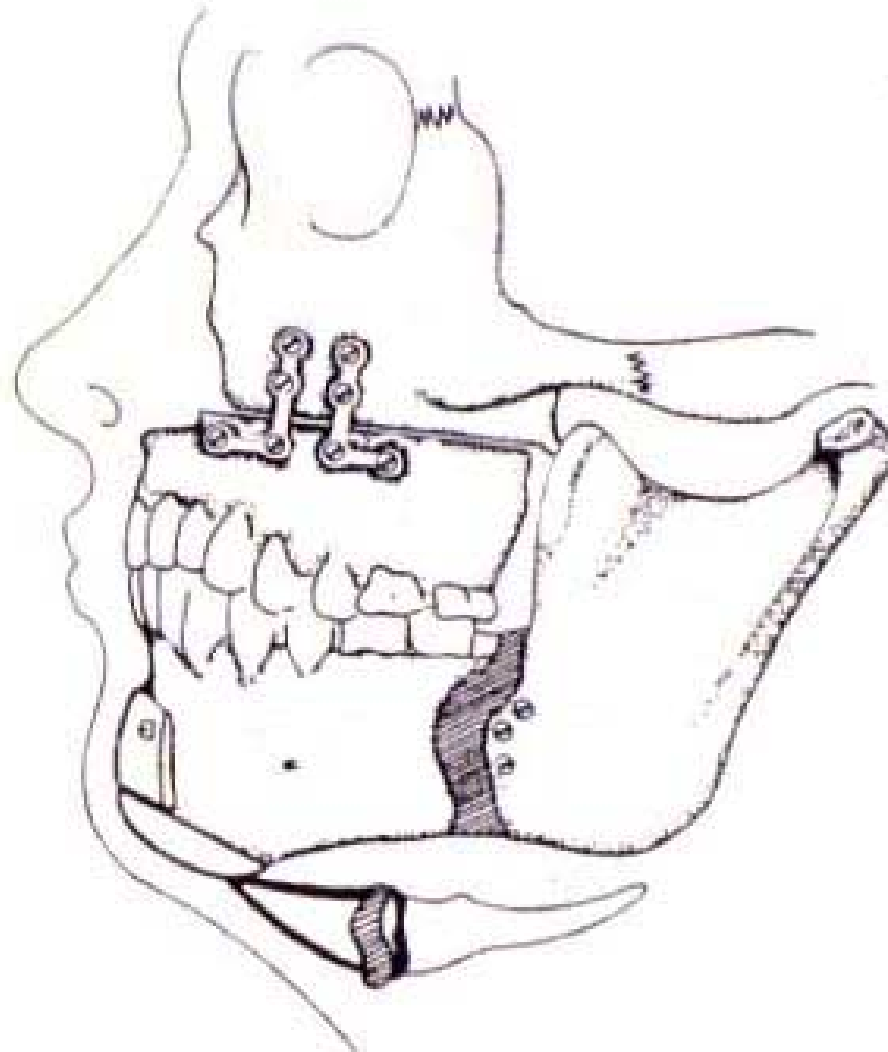
C34



Post surgery healing

C35

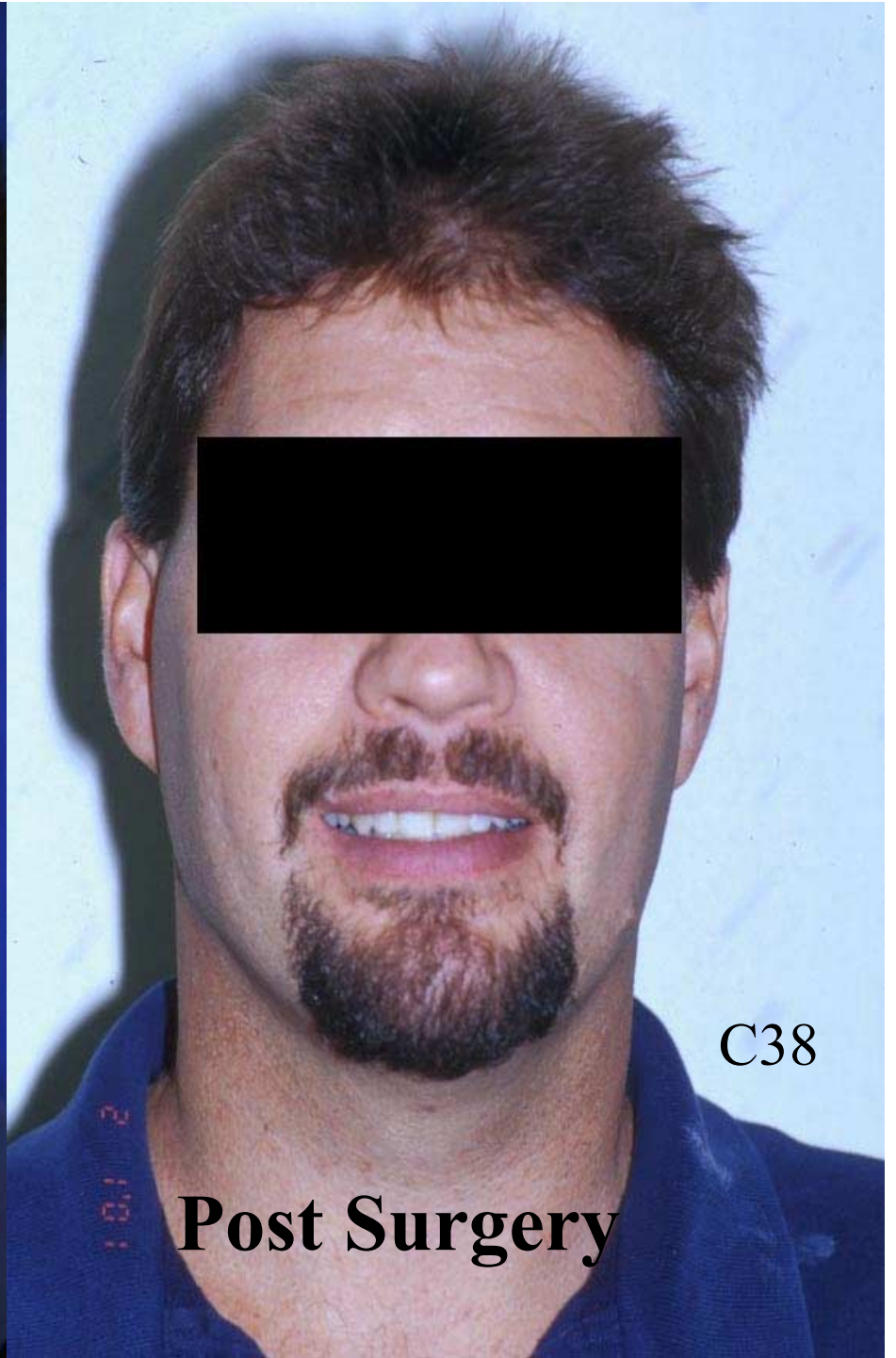
Maxillary and Mandibular Osteotomy







Pre surgery



C38

Post Surgery

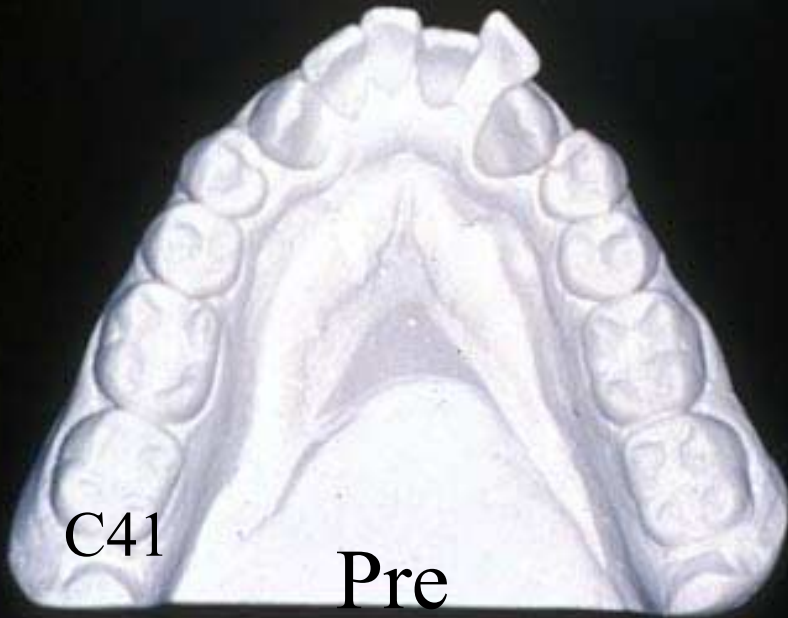


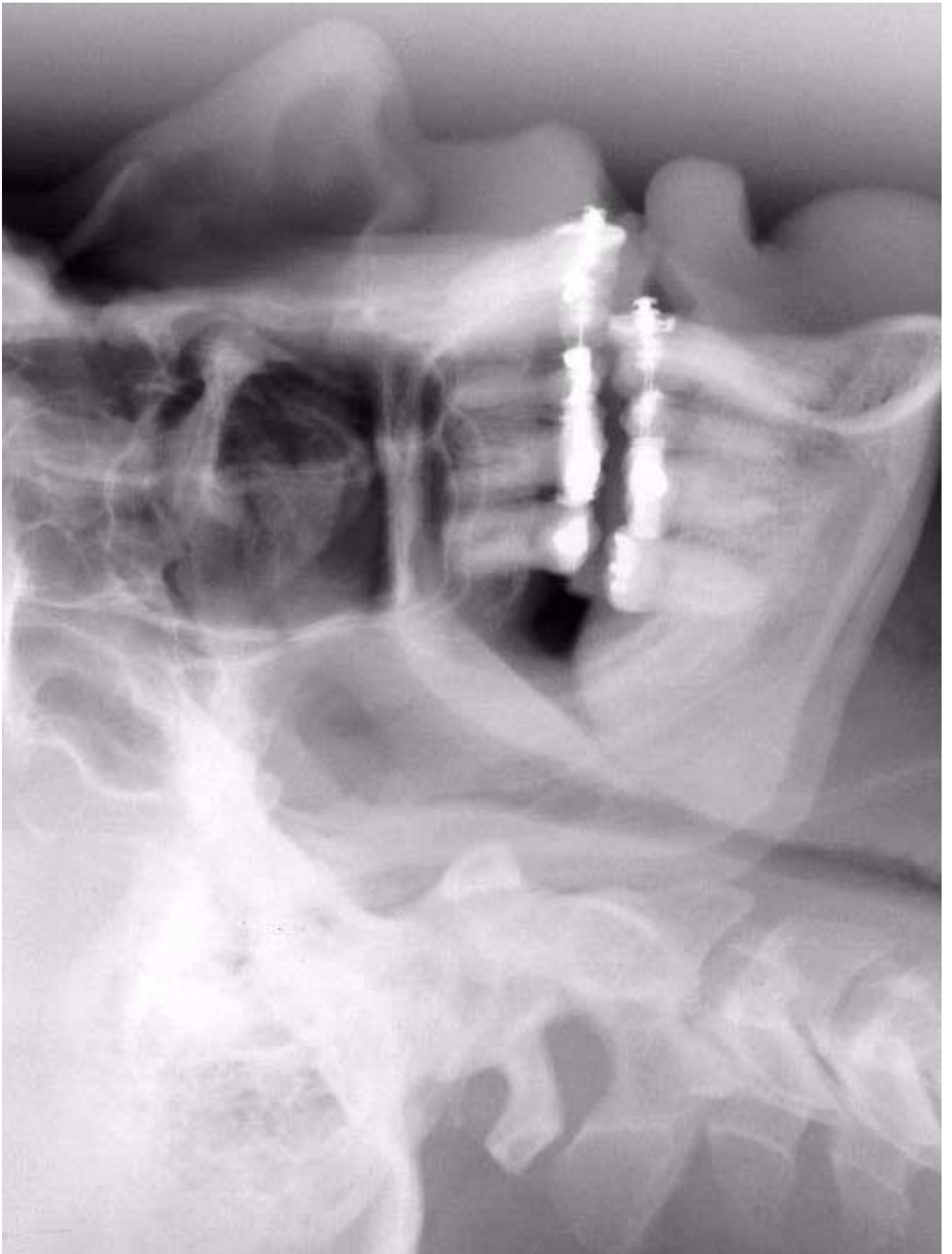
C39 Pre ortho / surgery malocclusion



C40

Patient during orthodontics





All way and wires after M & M surgery



C43

Brian Palmer, D.D.S.
Kansas City, Missouri, USA
April, 2001