

7-12 anastomose til behandling af ansigtsslammelse

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Hvad er 7-12 anastomose?

- Ansigtets bevægenerve nervus facialis er kranienerve nummer 7.
- Tungens bevægenerve er kranienerve nummer 12.
- 7-12 anastomose er sammenkobling af ansigtsnerven og tungenerven

Det er ikke noget vi gør hver dag...

- 7 operationer på 8 år (mere end 250 AN opereret i samme tidsrum)
- 5 operationer efter AN, een ondartet, to norske patienter.
- 2 operationer efter andre problemer.

...men det er nogen gange den bedste mulighed.

Robert Kennedy (1865-1924)

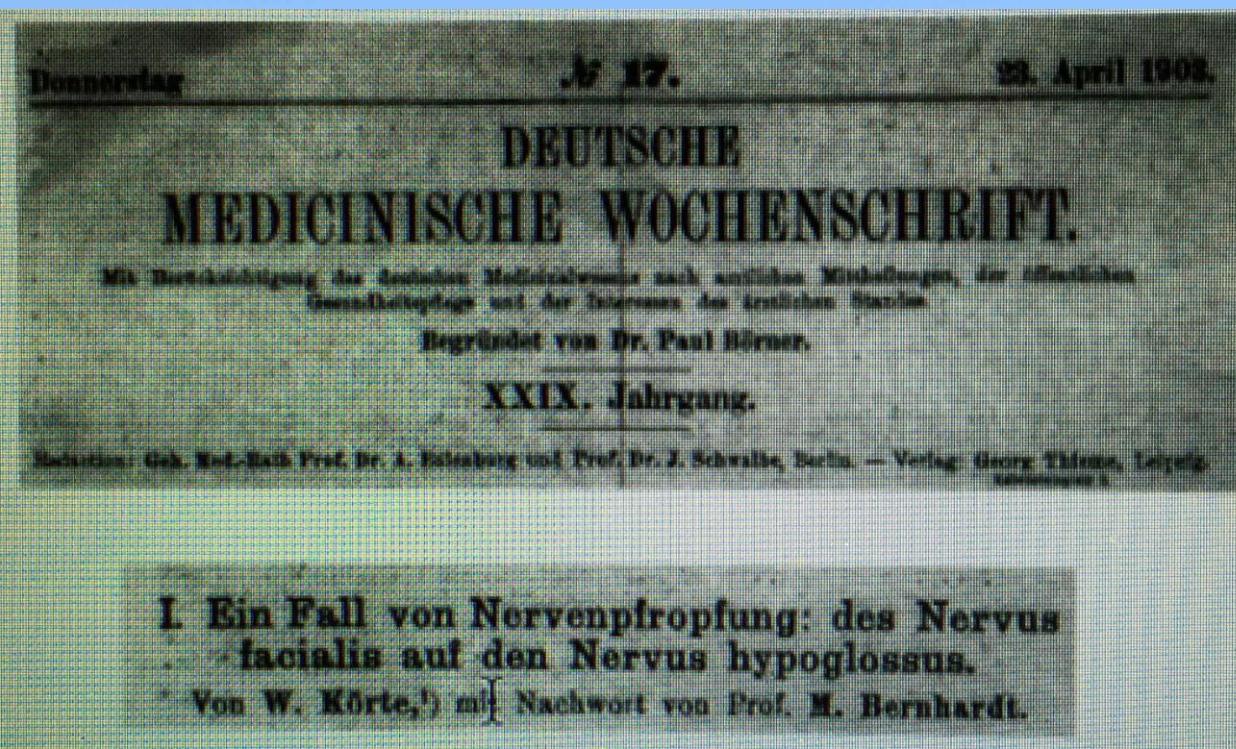


1899

Den første end-to-side
facialis nerve anastomose

First facial hypoglossal anastomosis

December 20th, 1901



Werner Körte, Berlin

4 7-12 anastomose teknikker beskrevet

Direkte ende-til-ende

(Körte, 1 procedure, publiseret 1903)

Interpositional transplantat ende-til-side

(May, 33 procedures, publiseret 1991)

Intratemporal transposition and direkte ende-til-side

(Darrouzet, 6 procedures, publiseret 1997)

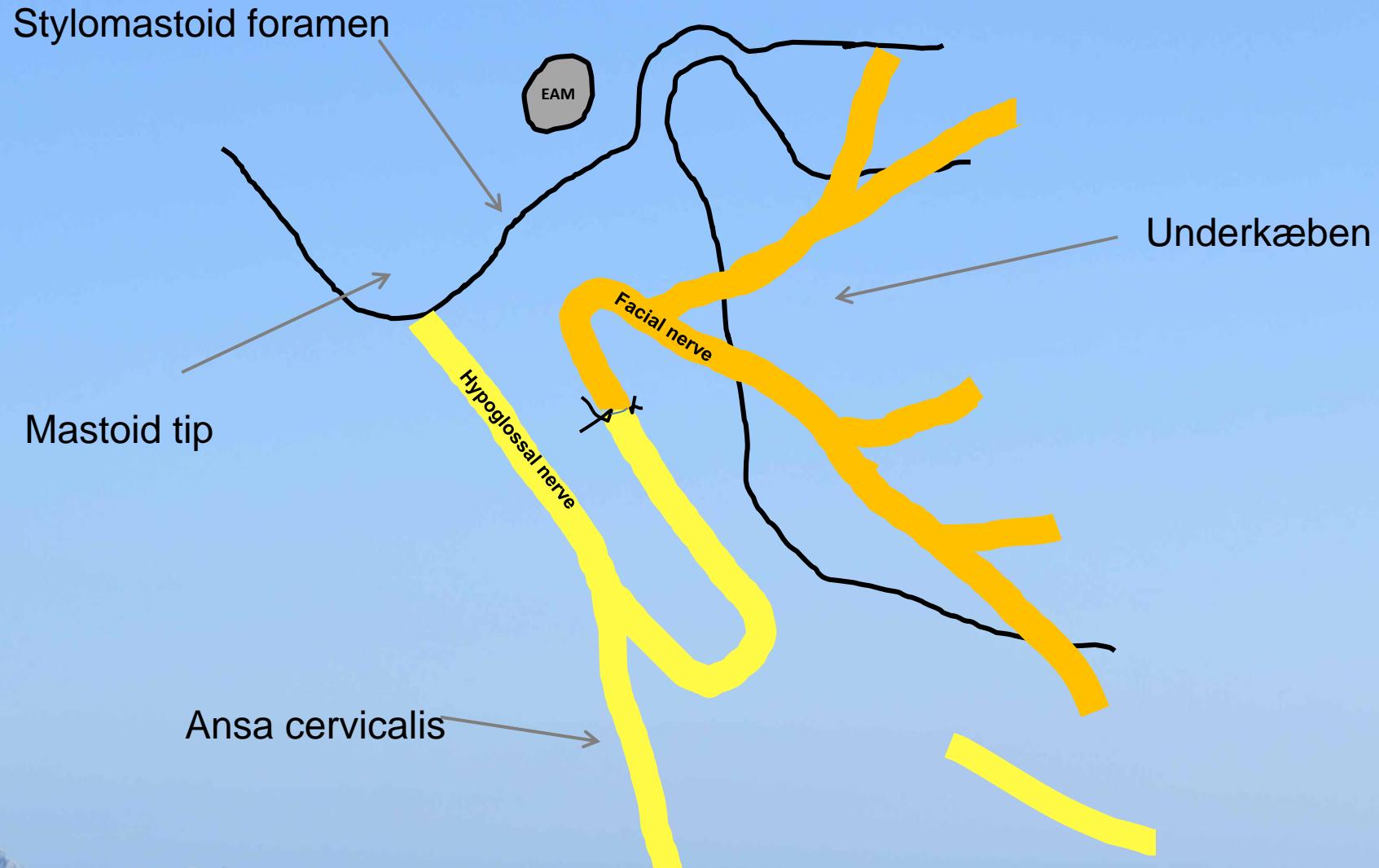
Split hypoglossus direktet ende-til-ende

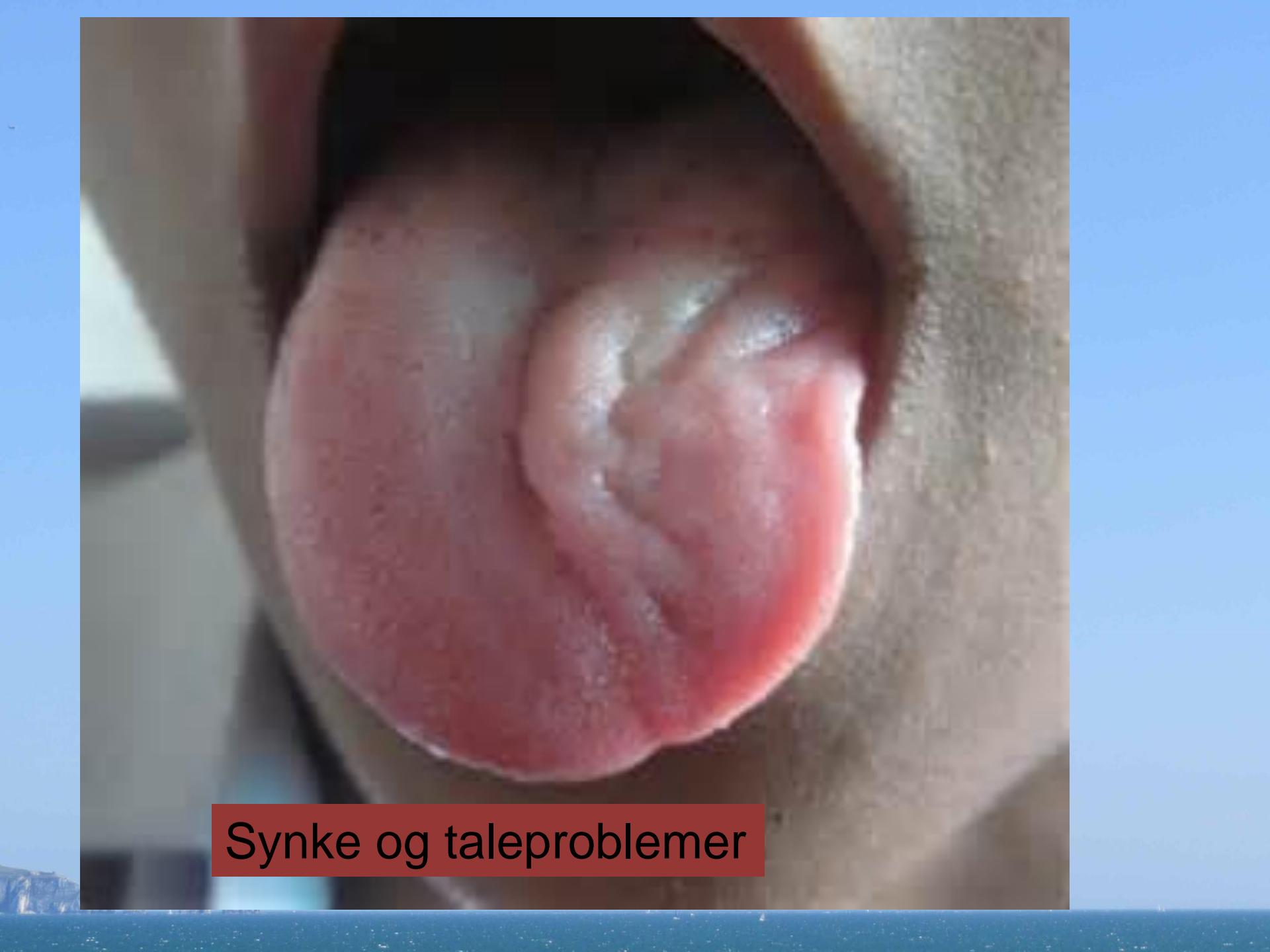
(Arai, 8 procedures, publiseret 1995)



Direkte ende-til-ende

(Körte, 1 procedure, publiseret 1903)





Synke og taleproblemer

~~Direct end-to-end facial hypoglossal anastomosis~~

Stylo mastoidisk rammen

EAM

**“Røv ikke Peter
For at betale Paul”**

Ma

Ansa cervicalis

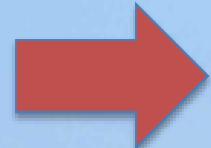
Hypoglossal nerve

som Robert Kennedy in 1899,

Du kan lave en “ende-til-side”

Donor
nerve

“Vindue”



Modtag
nerve

Ansigtsmuskel

A

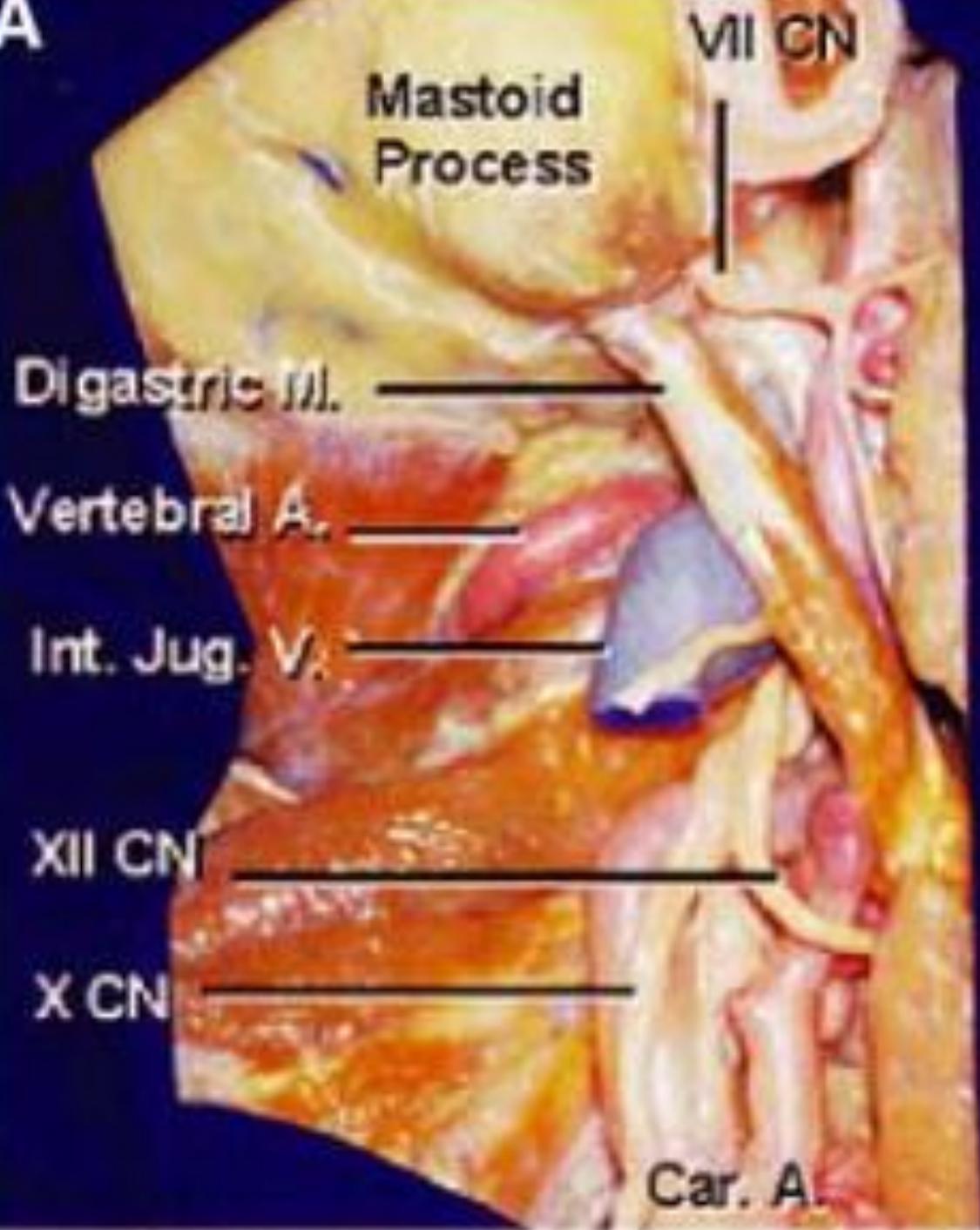


TABLE 1. Measurements of the extracranial portion of Cranial Nerve VII^a

Measurements	Average (mm)	Range (mm)
Distance from the EAM to CN VII ^b	4.82	3.3–5.2
Distance from the mastoid process to CN VII ^b	5.31	3.1–7.9
Distance from the atlas to CN VII ^b	15.85	14.3–16.8
Distance from the mandibular condyle to CN VII ^b	17.19	14.9–20.7
Distance from the digastric muscle to CN VII ^c	4.86	2.3–6.4
Distance from the digastric muscle to CN XII ^c	5.05	3.2–7.0
Length of the mastoid portion of CN VII ^c	16.35	15.2–18.6
Distance from the EMF to the CN VII bifurcation ^c	18.93	16.0–20.6
Distance from CN VII to CN XII ^c	31.56	27.6–35.8
Distance from the skin to CN VII	21.16	14.3–27.7

^a EAM, external auditory meatus; CN, cranial nerve; EMF, estylo-mastoid foramen.

^b See Figure 2A.

^c See Figure 2B.

FACIAL REANIMATION BY MEANS OF THE HYPOGLOSSAL NERVE: ANATOMIC COMPARISON OF DIFFERENT TECHNIQUES.

Campero, Alvaro; Socolovsky, Mariano

Interpositional transplantat ende-til-side

(May, 33 procedures, published 1991)

Stylocervical foramen

Mastoid tip

Ansa cervicalis

EAM

19 mm

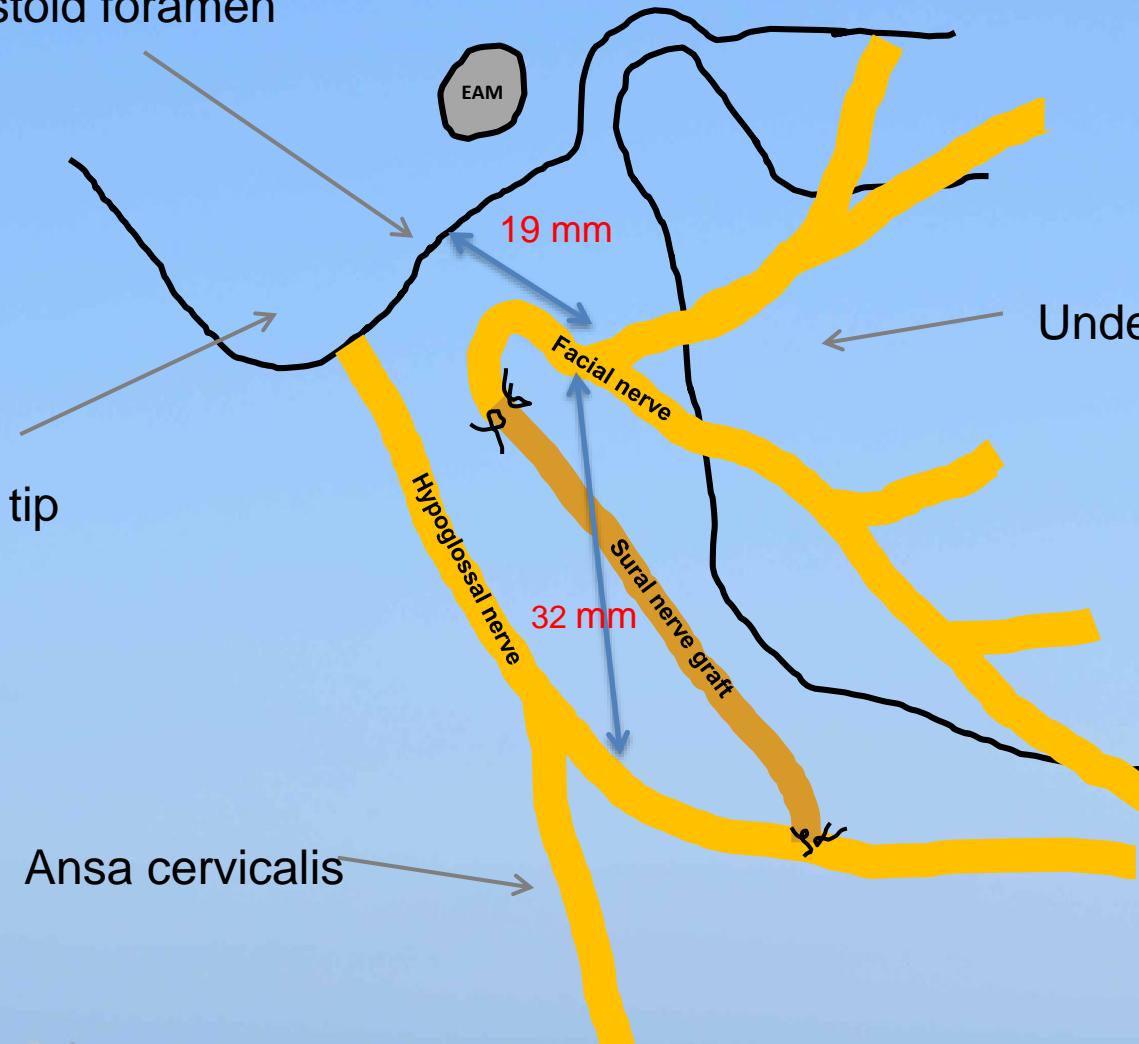
Facial nerve

Hypoglossal nerve

32 mm

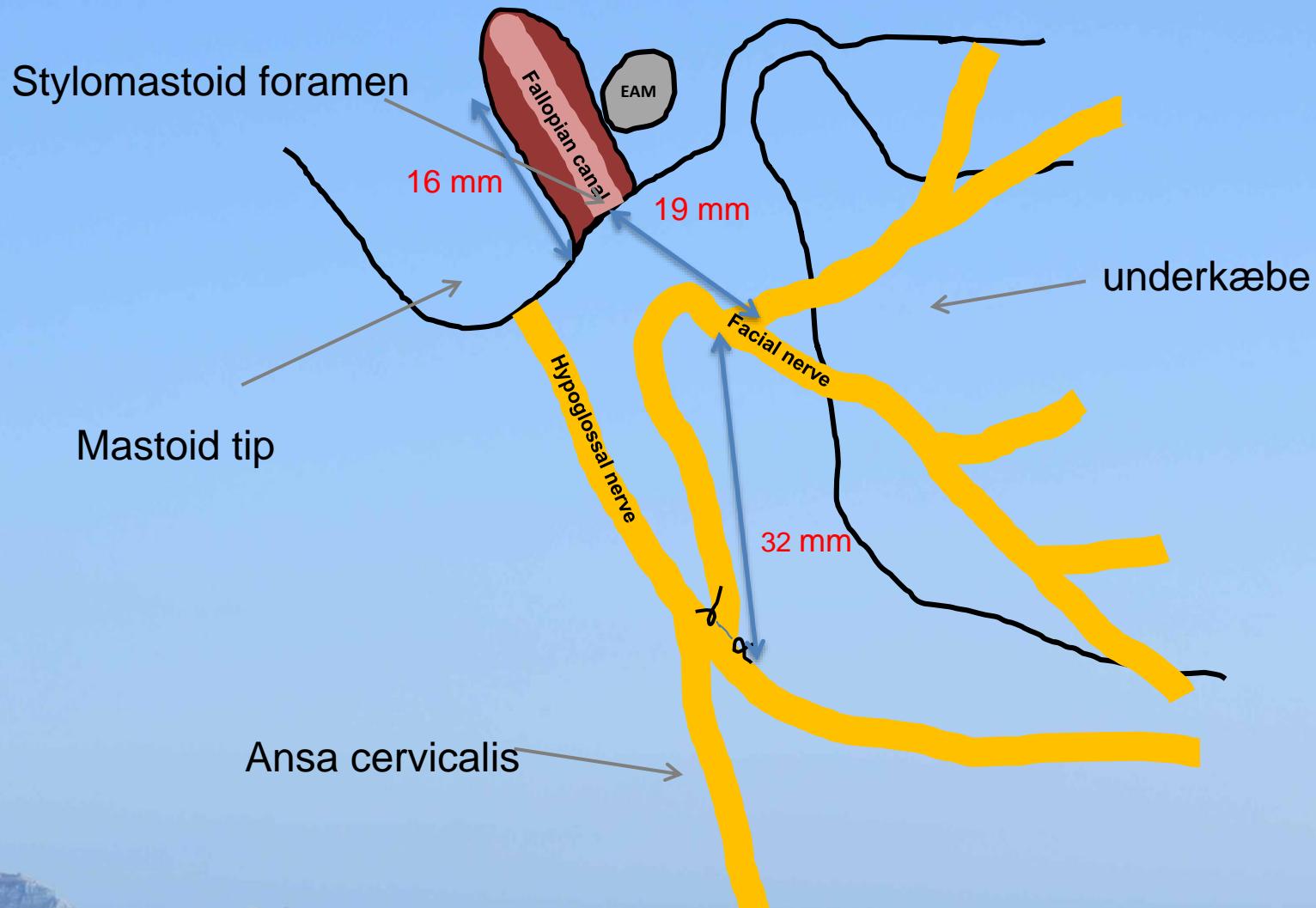
Sural nerve graft

Underkæben



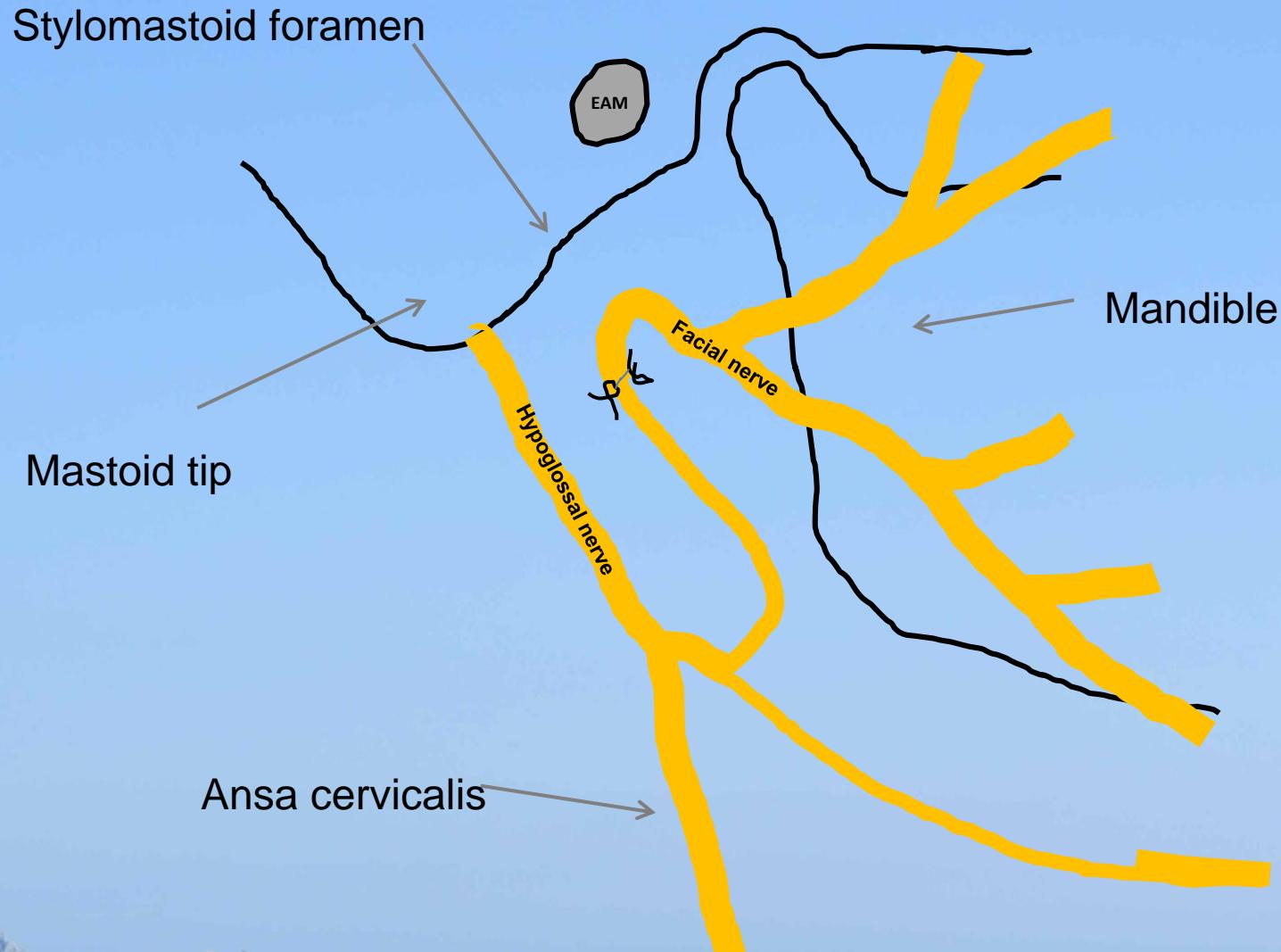
Intratemporal transposition and direkte ende-til-side

(Darrouzet, 6 procedures, published 1997)



Split hypoglossal ende-til-ende

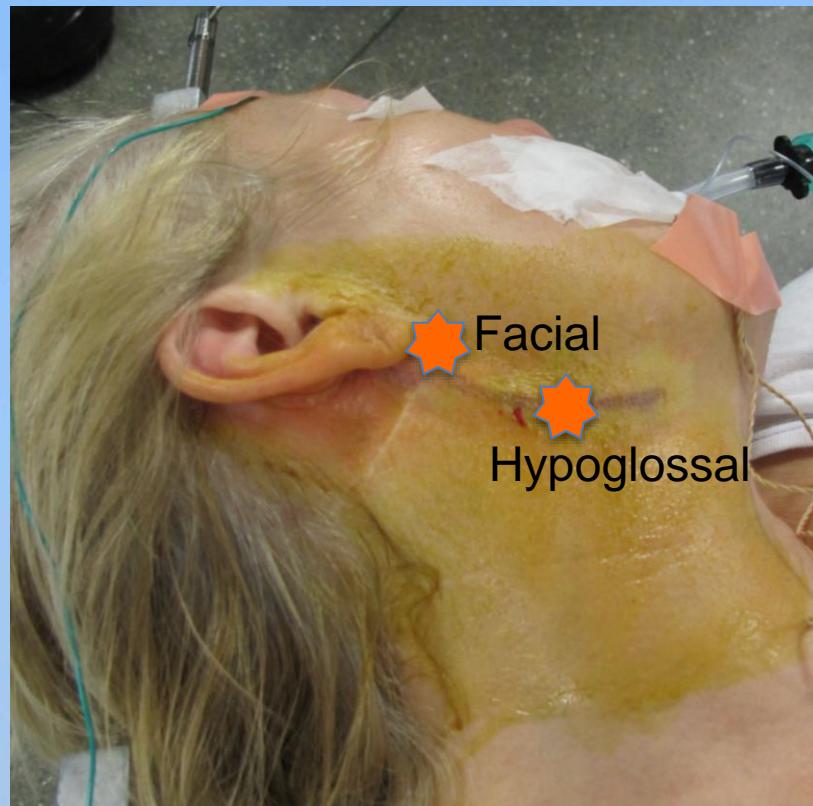
(Arai, 8 procedurer, publiseret 1995)



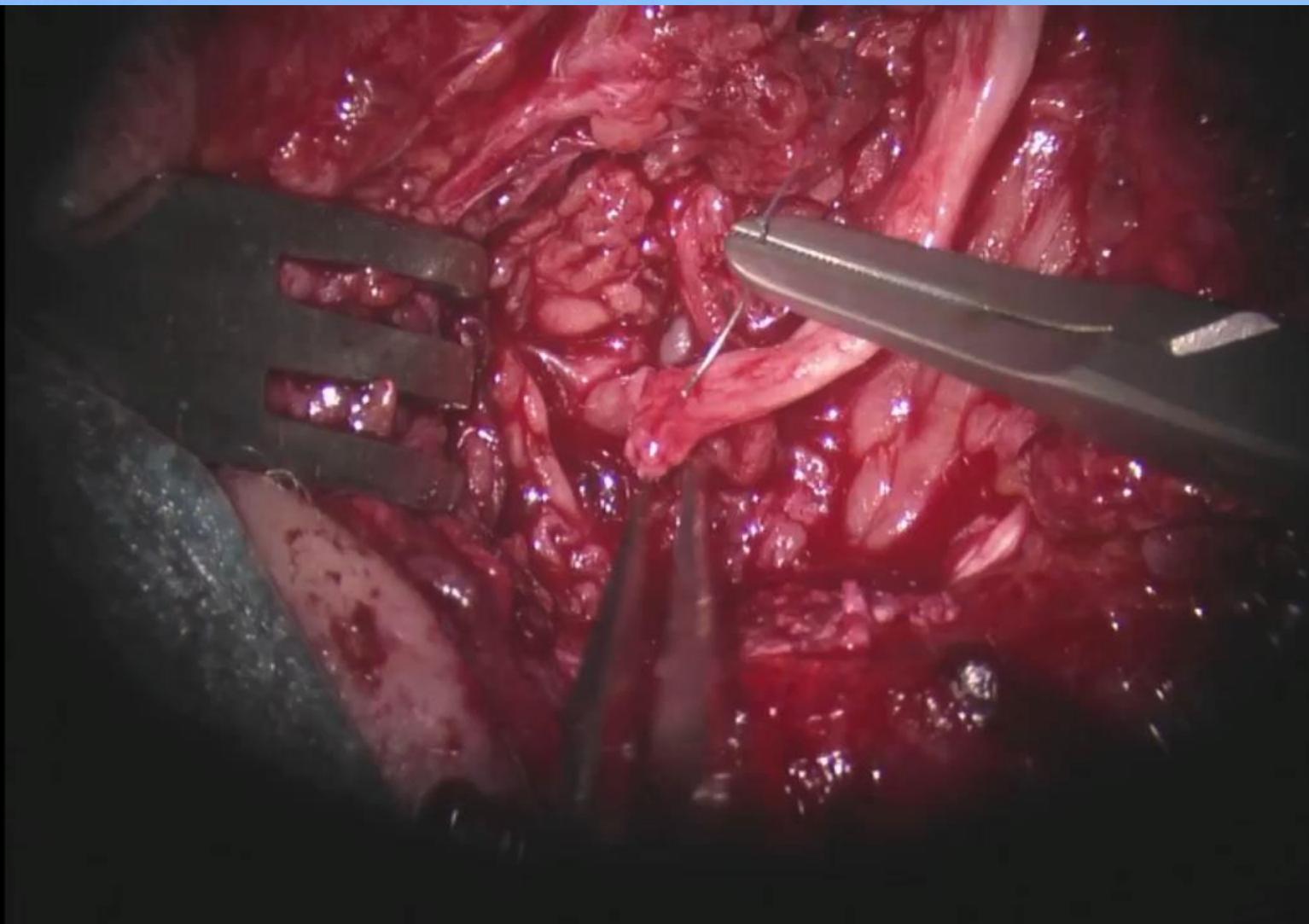
Hvilken metode er bedst?

- Ingen randomiserede studier
- Ende-til-side teknik giver resultater som to ende-til-ende i flere opgørelser (f.eks. Samii et al., 2015).
- Le Clerc et al, 2013, fandt ingen forskel mellem ende-til-ende, ende-til-side med transplantat and ende-til-ende med transposition (13/13/10 patients).
- Patienterne for som regel HB3 med god symmetri i hvile, øjenlukning og nogen bevægelse.

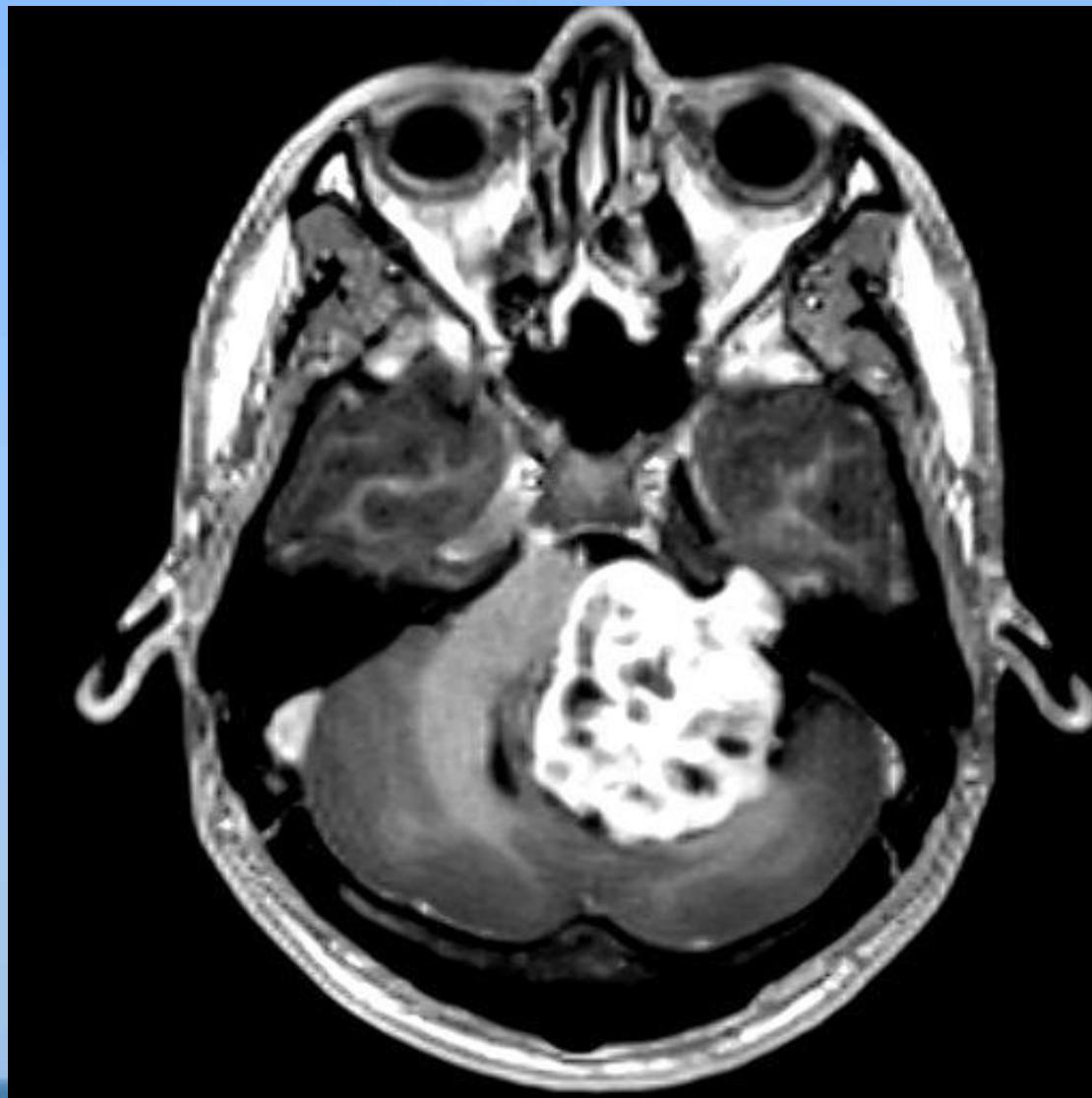
Før operation



Interpositional transplantat video



25 y male with giant AN



Result of transposition and direct end-to-side 2 years after anastomosis



No tongue atrophy or paresis



Besøg I Bergen februar 2016



Fælles operation af to norske patienter med facialis parese.



Besøg i Bergen februar 2016

- Ankomst onsdag kl. 14. Tale med patienter.
- Middag med kirurger og Monica
- Torsdag morgen første patient
- Frokost med kirurger
- Anderen patient og flyet hjem kl. 18

Meget gæstfri og dygtige, godt samarbejde som vi bygger videre på.

Besøg I Bergen februar 2016



**People who think they
know it all really annoy
those of us who do**

© SKY ENT. L.A. CA

Why are those
who can't take
advice so
insistent on
giving it?



**YOU CAN'T LEARN ANYTHING
IF YOU ALREADY KNOW EVERYTHING**

Steve Ferrante

Tak!