

# **A Surgical Analysis of the QOL Influencing Factors of Periferic Facial Palsies**

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**September, 2018  
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**Special thanks to:**

**The patients**

**E. Bognár, P. Nagy,**

**TUKEB No. 127/2014**

**NKFIH OTKA K-116189**

- **Aim:**
- **To analyze the QoL influencing factors**
- **To see if social interactions have an influence**
- **To see if health care characteristics have an influence**
- **To check the real anatomy of the ETFN and see if it may influence the risk of palsy**
- **To check the presence of other pathologies in the area that may influence the surgery**

## Brain

- 87.000.000.000.000 neurons
- 100/sec impulse firing/neuron
- 10.000 synapsis/neuron



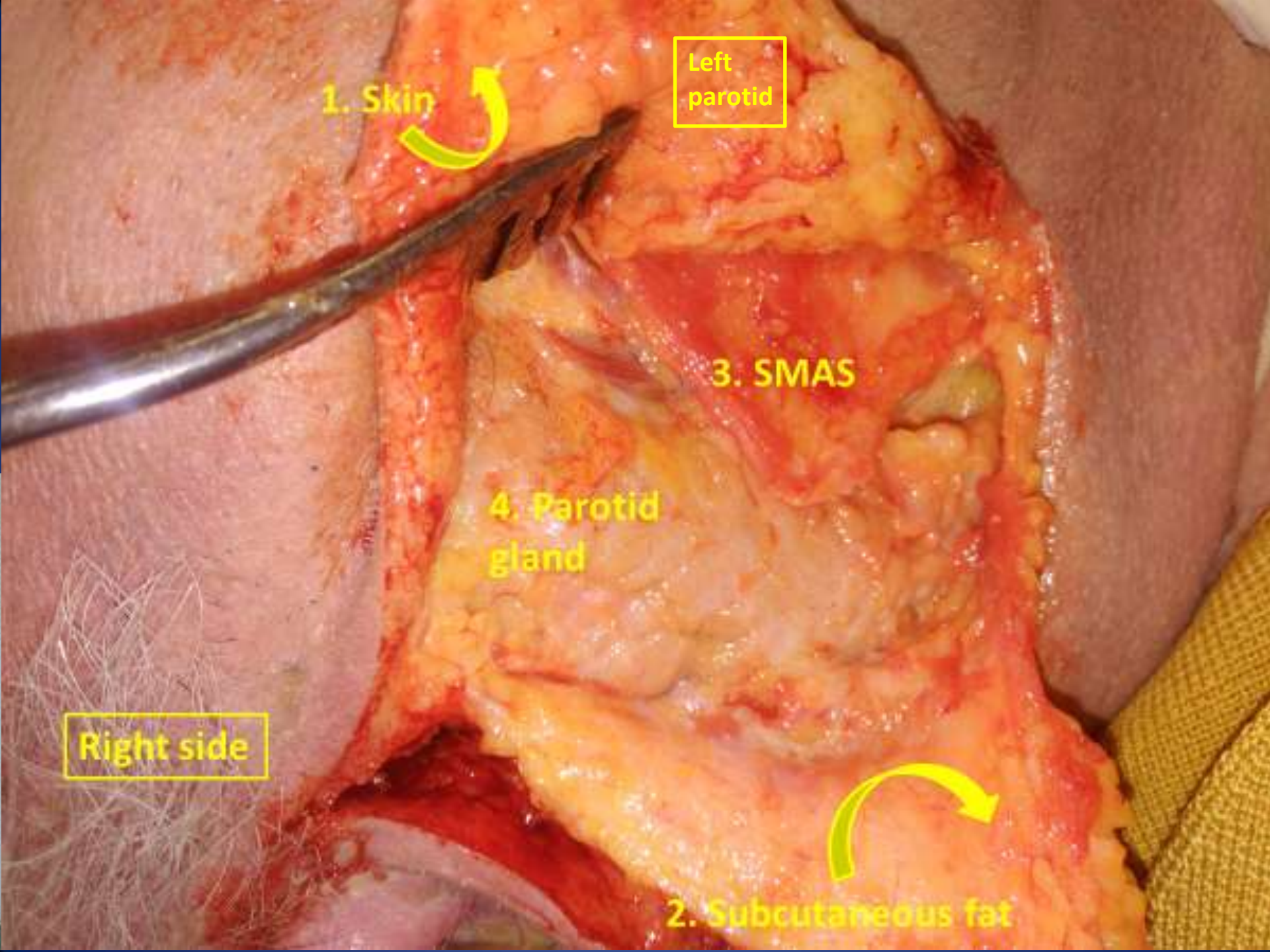
## Face

- 42 facial muscles
- Axon/muscular fiber proportion!
- Involuntary/emotional/voluntary movements
- Slow atrophy

# Marginal Mandibular Branch

- Motor nerve: depressor anguli oris, depressor, labii inferioris, mentalis
- Detection: 12th fetal week; all NMJs: 16th fetal week
- Terminal branch, under the level of the inferior mandibular border
- To find: mandibular angle and rim, facial artery
- Davis, Sunderland, H-B
- VII. is the most often damaged cranial nerve, MMB is the most often damaged branch.
- Ethnic differences of the anatomy are described





Left parotid

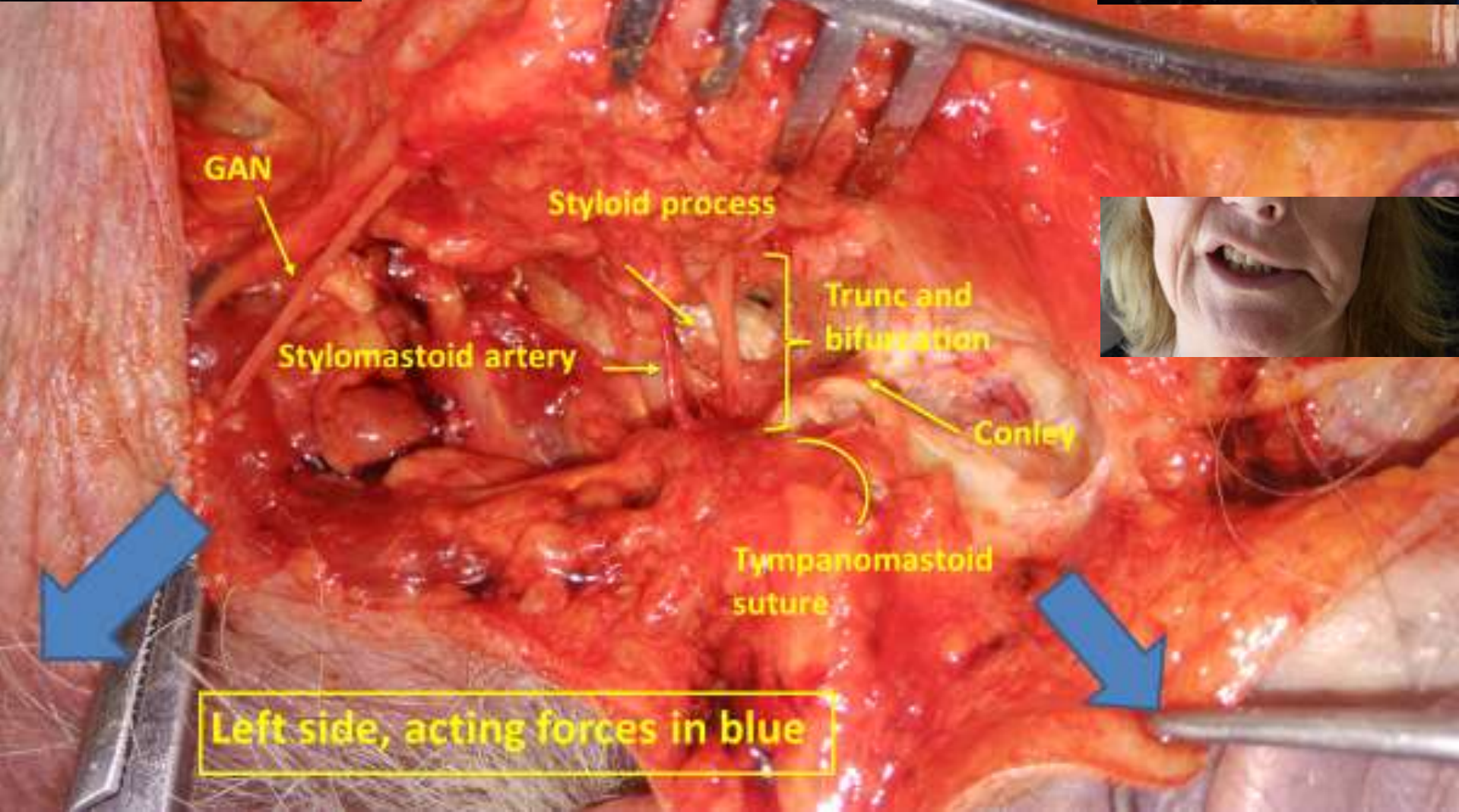
1. Skin

3. SMAS

4. Parotid gland

Right side

2. Subcutaneous fat



Left side, acting forces in blue

Mean number of MMB branches/side 1.5

Premandibular origin: 64.2%

Mandibular plane: 78.5%

Submandibular course: 68,7%

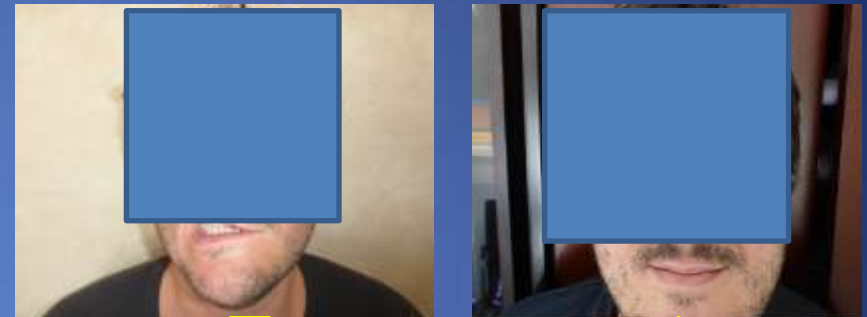
Unusual situations!



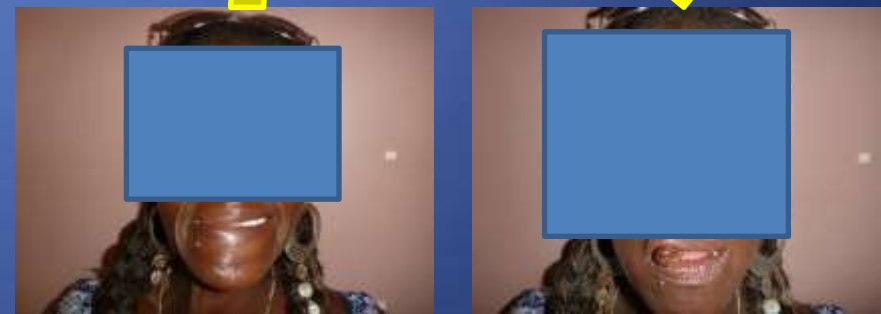
# QoL

- Maladaptive behaviours
- Reduced emotional well-being
- Anxiety
- Depression
- Suicide

- Symptom Checklist 90
- State-Trait Anxiety Inventory
- Liebowitz Anxiety Scale
- Social Interaction Anxiety Scale
- Social Phobia Scale
- Beck Depression Inventory
- Facial Disability Index



Lawyer



Teacher



**Major concerns: asymmetry, smile**

**Positive impact: elderly, family, social activity, positive character, financial security, consequence of the treatment of a major pathology**

**Negative impact: female sex, other symptoms, communicators, smoking, DM, hypertension**

**Medical activity: timeline, informations, signs of improvement**

# SUMMARY

- **Morphology is unstable**
- **Unattended pathologies may occur**
- **Acting forces and the answers are unpredictable**
- **Surgical time longer, Importance of the surgical precision, alternative techniques**
- **Personal, social, healthcare related factors influence the outcome**
- **Asymmetry and smile are major concerns of the patients**