

5th Congress of the European Academy of Neurology Oslo, Norway, June 29 - July 2, 2019

Teaching Course 10

Clinical science in muscle disorders (Level 2)

The "myopathic" face

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The "myopathic" face: a Gestalt approach

Professor Benedikt Schoser

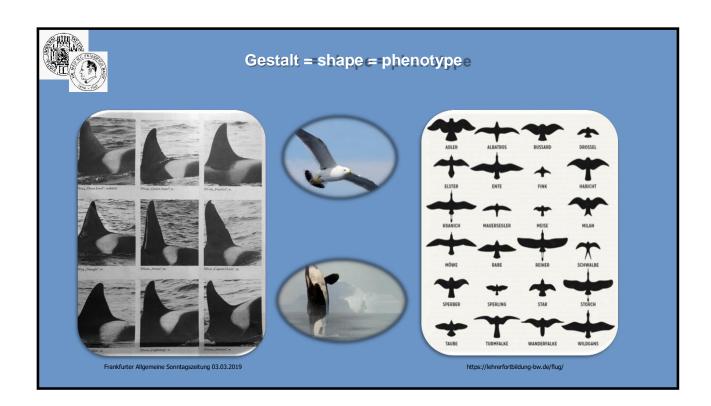
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Disclosures

- BS serves as member of the Global Advisory Boards from Amicus Therapeutics, Audentes Therapeutics, Nexien BioPharma, Lupin Therapeutics
- BS is a member of the European Pompe Registry Advisory Boards sponsored by Genzyme Europe B.V.
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- BS has received unrestricted research support from Genzyme Europe B.V. and Greenovation Biopharm
- Unreferenced data or images and movies used within this presentation are the speaker's own





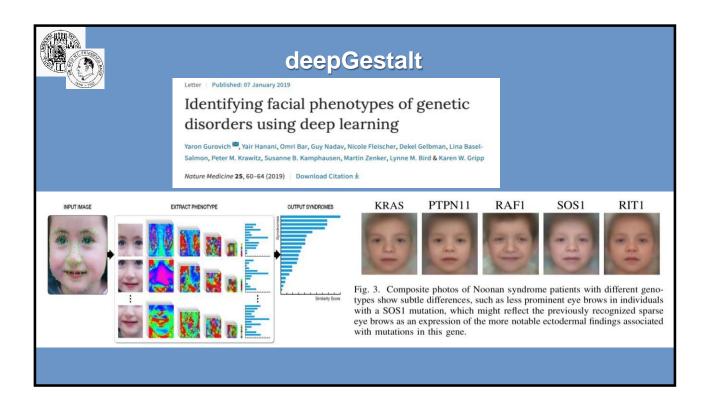
Jizz - Gestalt

Among birdwatchers and naturalists:

JIZZ means the characteristic impression given by a particular species of animal or plant.



Gestalt (German): describes a specific shape and design of an object





- Dysmorphic pattern
- Temporal muscle atrophy
- Ptosis
- External and internal oculomotor paresis
- Buccal weakness
- Palate and Teeth deformities
- Tongue alterations



Dysmorphic pattern Clinical Gestalt





https://www.youtube.com/ watch?v=Lg1j3fCnZdM

· masklike face

- bleparophimosis
- small mouth
- microretognathia
- dental malalignments
- cleft palate
- skeletal dysplasia
- contracture of joints
- growth retardation
- bone maturation delay
- stiff muscle hypertroph
- percussion myotonia

Mutations in perlecan gene (HSPG2

Schwartz-Jampel Syndrome





Adv Biomed Res 2015, 4:163



The face in NMDs

Temporal muscle atrophy







Myotonic dystrophy type 1 CTG repeat expansion in the DMPK gene (rare in DM2)



Ptosis I







Dynamic or fixed ptosis?

Unilateral

• cranial nerve palsy, diabetes, tumor, etc.

Bilateral

- Borreliosis, sarcoidosis, thyroide disease, etc.
- Myasthenia gravis (asymmetric)
- LEMS
- Mitochondrial myopathies (asymmetric)
- OPMD (asymmetric)
- Ocular myositis
- DX CNS disorders, PSP etc.



The face in NMDs

Ptosis II

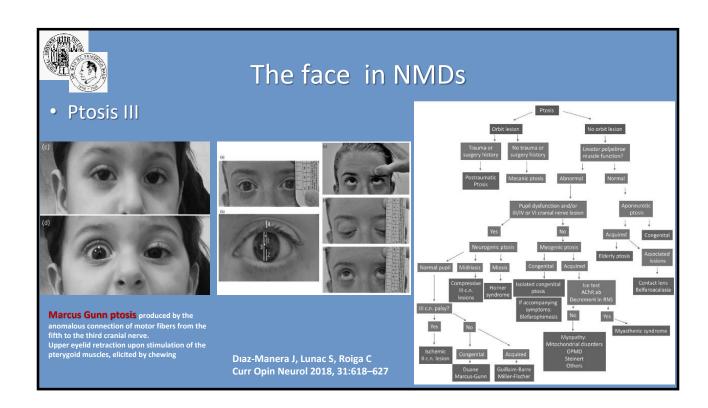


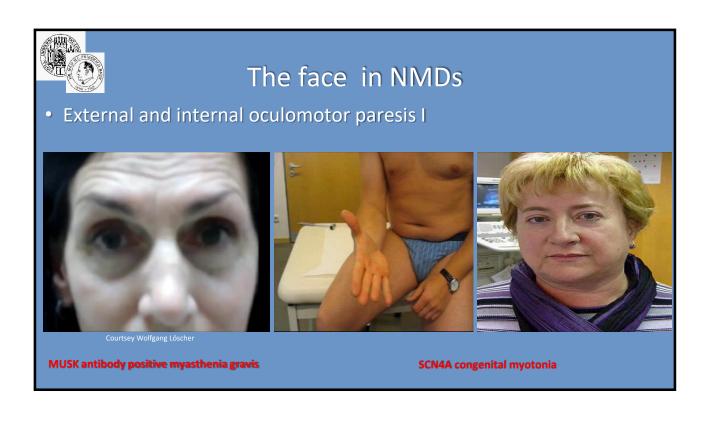


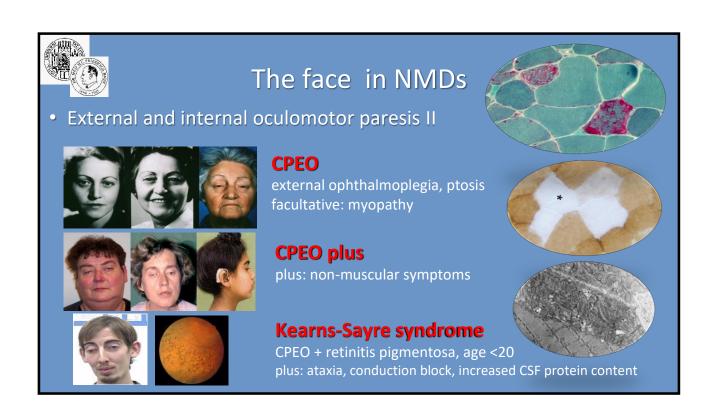


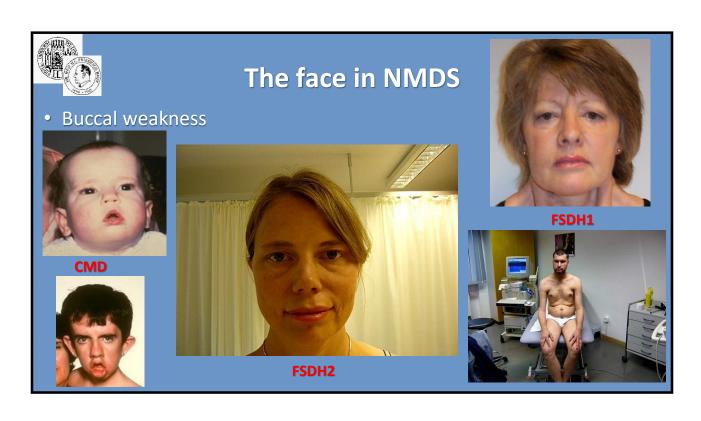


Oculopharyngeal musclar dystrophy OPMD, autosomal dominant GCG repeat expansion in PASHNI gene











Palatete, teeth and tongue alterations







- Gothic high-arched palate?
- Swallowing difficulties?
- Macroglossia?
- Tongue myotonia?
- Tongue atrophy?
- Fasciculations?
- Teeth deformities?



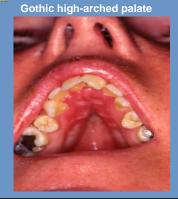
The face in NMDs

Palate and Teeth deformities

Nemaline myopathies, Central cores disease, Multimini core disease



Central core myopathy





Crowded teeth



Elements of Morphology National Human Genome Research Institute



Tongue alterations

Tongue hypertrophy

DMD, Pompe, Amyloid, LGMD2I, BSMA early







Congenital myotonia Mutation in the SCN4A gene

Tongue atrophy

ALS, BSMA late, Amyloid TTR, GSN, CMT4C, 4D



Bulbospinal muscular atrophy Type Kennedy expansion of CAG repeat in the androgen receptor generation.



Summary

- Describe what you see!
- Have a second look at different time points, e.g. of the day
- "Exercise" your patient
- Taking a family history remains helpful
- Start with currently treatable disorders ("treatabolome")



A final Quiz:

What is the name of this clinical sign?

Beevor sign!

Charles Edward Beevor 1854-1908

