 Myasthenia gravis Myopathy									
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*****	Myasthenia gravis and myasthenic syndromes									
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- MG, definition: autoimmune disease with circulating antibodies against Ach-R (Acetylcholine Receptor), or other antigens of postsynaptic membrane (titin, MUsKenzyme,...)
- Clinical symptoms: progredient muscle weakness during daily activities, with evening acces, repair after rest time
- Onset: <u>small muscles</u> eye (diplopia), pharynx (dysphagia), soft palate (rhinolalia), general ...







MG- disease course

<u>Subjective</u>: abnormal muscle fatigue, weakness - paresis, recovery after resting

Objective:

- repetitive muscle activity provocates weakness- ptosis, diplopia, rhinolalia, dysphagia, dysarthria, dysphonia
- weak of jawing, mimic paresis
- neck dicrease
- short breathing
- tendon reflexes- presented or slight decrease

MGFA (Foundation of America)-Clinical symptoms scaling (Osserman's classification)

- I. Ocular form MG
- II. Ocular + slight generalised MG (limbs /bulbar)
- III: Moderate weakness of ocular + extraocular
- muscles (limbs, respiratory, bulbar muscles)IV: Severe weakness of ocular + extraocular
- muscles
- V: Respiratory failure, suported ventilation









LEMS, Lambert- Eaton myasthenic syndrom

- is a rare autoimmune disorder
 <u>muscle weakness</u> of the limb
- Antibodies against presynaptic voltage-gated calcium channels, and likely other nerve terminal proteins
- Prevalence: 3.4 cases/million
- Around 60% of LEMS -have an underlying malignancy, small cell lung cance -paraneoplastic syndrome
- KP: fatigue, weakness of proximal mm., inferior extremities, spared eye and bulbar mm.
- autonomic difficulties: dry mouth, low lacrimation, orthostatic collapses, impotentia







Myopathy A- congenital, hereditary B- acquired **Classification:** Progressive muscular dystrophies 1. Congenital myopathy (structural lesions) Myotonia / myopathies of ionic channels 2. 3. 4. Myotonic dystrophy Myopathies caused by toxic substances 5. Familial periodic palsy 6. Endocrine myopathies 7. 8. Metabolic myopathies (mitochondrial) 9. Inflammatory myopathy-myositis,dermatomyositis

















Muscular dystrophy					
•	Treatment:				
1.	<u>Causal:</u> unknown				
2.	Preventive: genetic analysis				
3.	Symptomatic				
-	Fyziotherapy, contracture prevention				
-	deformities operations, ptosis oper lifting				
-	prosthesis aid, wheel chair				
-	ATP, B vitamins, carnitine, coenzyme Q, laevadosine, steroids-individually benefit effect				













PE



Endocrine myopathy <u>Thyroid hyperfunction</u>: myopathy, myalgia, atrophy, orbitopathy, diplopia <u>Thyroid hypofunction</u>: myalgia, cramps, myoedema, myopathy, weakness <u>Steroid myopathy</u>: girdle atrophy, myalgia, PM

- Hyperparathyreosis
- Acromegalia
- Diabetes mellitus