

EMERGENCY SITUATIONS

Acute Respiratory Distress

throat muscles, swallowing power and cough impulse are reduced, and the passage remains blocked

emergency physician

Lateral recumbent position
removal of food with fingers (Magill-pliers)

„Heimlich“ Maneuver
suction (Guedel airway)
artificial respiration, e.g. mouth-to-mouth or ambu sac by emergency physician

7

EMERGENCY SITUATIONS

Acute Respiratory Distress

throat muscles, swallowing power and cough impulse are reduced, and the passage remains blocked

emergency physician

Lateral recumbent position
removal of food with fingers (Magill-pliers)

„Heimlich“ Maneuver
suction (Guedel airway)
artificial respiration, e.g. mouth-to-mouth or ambu sac by emergency physician

7

EMERGENCY SITUATIONS

Acute Respiratory Distress

throat muscles, swallowing power and cough impulse are reduced, and the passage remains blocked

emergency physician

Lateral recumbent position
removal of food with fingers (Magill-pliers)

„Heimlich“ Maneuver
suction (Guedel airway)
artificial respiration, e.g. mouth-to-mouth or ambu sac by emergency physician

7

Myasthenic Crisis

slowly or acute increasing difficulties with breathing, swallowing, speech, chewing, coughing

compose
deposition on the side,
little elevation of the trunk

emergency physician

- **Neostigmine 0,5 – 1,0 mg i.v.**
- **intubation/ICU**
- **pyridostigmine-perfusor 12 – 25 mg / 24h**
- **plasmaexchange or IVIG**
- **start revised treatment**

Cholinergic Crisis

small pupils, tears, sweating, muscle twitches, paresis, mucous secretion, decrease pulse rate, warm reddened skin, agitation, unconsciousness

Emergency doctor:

atropine 0,5 mg
slowly i.v. – stepwise / ICU

8

Myasthenic Crisis

slowly or acute increasing difficulties with breathing, swallowing, speech, chewing, coughing

compose
deposition on the side,
little elevation of the trunk

emergency physician

- **Neostigmine 0,5 – 1,0 mg i.v.**
- **intubation/ICU**
- **pyridostigmine-perfusor 12 – 25 mg / 24h**
- **plasmaexchange or IVIG**
- **start revised treatment**

Cholinergic Crisis

small pupils, tears, sweating, muscle twitches, paresis, mucous secretion, decrease pulse rate, warm reddened skin, agitation, unconsciousness

Emergency doctor:

atropine 0,5 mg
slowly i.v. – stepwise / ICU

8

Myasthenic Crisis

slowly or acute increasing difficulties with breathing, swallowing, speech, chewing, coughing

compose
deposition on the side,
little elevation of the trunk

emergency physician

- **Neostigmine 0,5 – 1,0 mg i.v.**
- **intubation/ICU**
- **pyridostigmine-perfusor 12 – 25 mg / 24h**
- **plasmaexchange or IVIG**
- **start revised treatment**

Cholinergic Crisis

small pupils, tears, sweating, muscle twitches, paresis, mucous secretion, decrease pulse rate, warm reddened skin, agitation, unconsciousness

Emergency doctor:

atropine 0,5 mg
slowly i.v. – stepwise / ICU

8

NARCOTICS

- 1. local / regional anaesthesia:**
 - use local anaesthetics of the amide type (e.g. Meaverin©)
- 2. general anaesthesia:**
 - for intubation: etomidate or propofol, if necessary use non-depolarizing muscle relaxant e.g. rocuronium (antidote: sugammadex)
 - for anaesthesia: propofol or inhalative with sevofluran or desfluran
 - for analgesia: remifentanyl
 - aim at early extubation
 - postoperative monitoring for 24 h

CAVE

Drugs with contraindications or risk of deterioration in myasthenia gravis

1. Antibiotics:

- aminoglycosides • neomycin • fluorochinolones (e.g. ciprofloxacin) • macrolides (e.g. erythromycin) • telithromycin • tetracycline

2. Antirheumatics – analgetics

- D-penicillamine • Steroids (outside the

9

NARCOTICS

- 1. local / regional anaesthesia:**
 - use local anaesthetics of the amide type (e.g. Meaverin©)
- 2. general anaesthesia:**
 - for intubation: etomidate or propofol, if necessary use non-depolarizing muscle relaxant e.g. rocuronium (antidote: sugammadex)
 - for anaesthesia: propofol or inhalative with sevofluran or desfluran
 - for analgesia: remifentanyl
 - aim at early extubation
 - postoperative monitoring for 24 h

CAVE

Drugs with contraindications or risk of deterioration in myasthenia gravis

1. Antibiotics:

- aminoglycosides • neomycin • fluorochinolones (e.g. ciprofloxacin) • macrolides (e.g. erythromycin) • telithromycin • tetracycline

2. Antirheumatics – analgetics

- D-penicillamine • Steroids (outside the

9

NARCOTICS

- 1. local / regional anaesthesia:**
 - use local anaesthetics of the amide type (e.g. Meaverin©)
- 2. general anaesthesia:**
 - for intubation: etomidate or propofol, if necessary use non-depolarizing muscle relaxant e.g. rocuronium (antidote: sugammadex)
 - for anaesthesia: propofol or inhalative with sevofluran or desfluran
 - for analgesia: remifentanyl
 - aim at early extubation
 - postoperative monitoring for 24 h

CAVE

Drugs with contraindications or risk of deterioration in myasthenia gravis

1. Antibiotics:

- aminoglycosides • neomycin • fluorochinolones (e.g. ciprofloxacin) • macrolides (e.g. erythromycin) • telithromycin • tetracycline

2. Antirheumatics – analgetics

- D-penicillamine • Steroids (outside the

9

therapeutic regime) • chloroquine • chinine • metamizole

3. cardiovascular drugs

- antiarrhythmics (e.g. chinidine, procainamide)
- betablockers

4. Hypnotics – tranquilizers

- benzodiazepines

5. Antiepileptics

- gabapentine • diphenylhydantoin

6. Neuromuscular Blockers

- succinylcholine • curare and derivatives

7. Varia

- procaine • chinine in drinks etc.
- magnesium containing drugs
- botulinum toxins

8. Vaccinations

- avoid live vaccines

This list of CAVEs is not complete and focussed on drugs which can deteriorate myasthenia gravis especially in critical situations. If possible contact to a myasthenia gravis center. In an emergency room, intermediate care unit or an intensive care unit the decision making can differ from this recommendations.

10

therapeutic regime) • chloroquine • chinine • metamizole

3. cardiovascular drugs

- antiarrhythmics (e.g. chinidine, procainamide)
- betablockers

4. Hypnotics – tranquilizers

- benzodiazepines

5. Antiepileptics

- gabapentine • diphenylhydantoin

6. Neuromuscular Blockers

- succinylcholine • curare and derivatives

7. Varia

- procaine • chinine in drinks etc.
- magnesium containing drugs
- botulinum toxins

8. Vaccinations

- avoid live vaccines

This list of CAVEs is not complete and focussed on drugs which can deteriorate myasthenia gravis especially in critical situations. If possible contact to a myasthenia gravis center. In an emergency room, intermediate care unit or an intensive care unit the decision making can differ from this recommendations.

10

therapeutic regime) • chloroquine • chinine • metamizole

3. cardiovascular drugs

- antiarrhythmics (e.g. chinidine, procainamide)
- betablockers

4. Hypnotics – tranquilizers

- benzodiazepines

5. Antiepileptics

- gabapentine • diphenylhydantoin

6. Neuromuscular Blockers

- succinylcholine • curare and derivatives

7. Varia

- procaine • chinine in drinks etc.
- magnesium containing drugs
- botulinum toxins

8. Vaccinations

- avoid live vaccines

This list of CAVEs is not complete and focussed on drugs which can deteriorate myasthenia gravis especially in critical situations. If possible contact to a myasthenia gravis center. In an emergency room, intermediate care unit or an intensive care unit the decision making can differ from this recommendations.

10

Card emis de

EuMGA

European Myasthenia Gravis Association



Asociatia Nationala Miastenia Gravis Romania Centrul de Informare INFO MG-RO

e-mail: asociatia.miastenia@gmail.com
website:www.miastenie.ro

Card emis de

EuMGA

European Myasthenia Gravis Association



Asociatia Nationala Miastenia Gravis Romania Centrul de Informare INFO MG-RO

e-mail: asociatia.miastenia@gmail.com
website:www.miastenie.ro

Card emis de

EuMGA

European Myasthenia Gravis Association



Asociatia Nationala Miastenia Gravis Romania Centrul de Informare INFO MG-RO

e-mail: asociatia.miastenia@gmail.com
website:www.miastenie.ro

CARD DE URGENTA/EMERGENCY CARD

MIASTENIA GRAVIS

Nume Prenume	
Data nasterii	
Adresa	
Localitatea	
Telefon/mobil	
Ruda apropiata telefon	
Medic curant telefon	
Clinica	
clasificare MGFA	anticorpi
criza MG in antecedente	timectomie

CARD DE URGENTA/EMERGENCY CARD

MIASTENIA GRAVIS

Nume Prenume	
Data nasterii	
Adresa	
Localitatea	
Telefon/mobil	
Ruda apropiata telefon	
Medic curant telefon	
Clinica	
clasificare MGFA	anticorpi
criza MG in antecedente	timectomie

CARD DE URGENTA/EMERGENCY CARD

MIASTENIA GRAVIS

Nume Prenume	
Data nasterii	
Adresa	
Localitatea	
Telefon/mobil	
Ruda apropiata telefon	
Medic curant telefon	
Clinica	
clasificare MGFA	anticorpi
criza MG in antecedente	timectomie

Clasificarea MGFA	
MGFA I	miastenienie oculara
MGFA II	miastenienie generalizata usoara
MGFA III	miastenienie generalizata moderata
MGFA IV	miastenienie generalizata severa
MGFA V	ventilatie mecanica
Subgrupa A:	predomina la brate, picioare
Subgrupa B:	predomina deglutitie, mestecare, vorbire si/sau respiratie

Tratamentul meu actual pentru MG

Piridostigmin: _____

Cortizon: _____

Azatioprin: _____

Mycofenolat Mofetil: _____

Terapii asociate pentru MG: _____

Terapii pentru alte boli: _____

Comentarii: _____

1

Clasificarea MGFA	
MGFA I	miastenienie oculara
MGFA II	miastenienie generalizata usoara
MGFA III	miastenienie generalizata moderata
MGFA IV	miastenienie generalizata severa
MGFA V	ventilatie mecanica
Subgrupa A:	predomina la brate, picioare
Subgrupa B:	predomina deglutitie, mestecare, vorbire si/sau respiratie

Tratamentul meu actual pentru MG

Piridostigmin: _____

Cortizon: _____

Azatioprin: _____

Mycofenolat Mofetil: _____

Terapii asociate pentru MG: _____

Terapii pentru alte boli: _____

Comentarii: _____

1

Clasificarea MGFA	
MGFA I	miastenienie oculara
MGFA II	miastenienie generalizata usoara
MGFA III	miastenienie generalizata moderata
MGFA IV	miastenienie generalizata severa
MGFA V	ventilatie mecanica
Subgrupa A:	predomina la brate, picioare
Subgrupa B:	predomina deglutitie, mestecare, vorbire si/sau respiratie

Tratamentul meu actual pentru MG

Piridostigmin: _____

Cortizon: _____

Azatioprin: _____

Mycofenolat Mofetil: _____

Terapii asociate pentru MG: _____

Terapii pentru alte boli: _____

Comentarii: _____

1

URGENTE IN MIASTENIA GRAVIS

Detresa respiratorie acuta

slabiciunea muschilor gatului, deglutitie si tuse slaba, blocarea calor respiratorii cu alimente

Manevra Heimlich: (inconjoara pacientul cu ambele brate si comprima brusc in partea de jos a toarcelui creand o suprapresiune care impinge resturile alimentare in sus pe gura)

Pentru medicul de urgenta:

pacientul in decubit lateral

extragerea bolului alimentar cu degetele sau pensa Magill aspiratie pe pipa Guedel

respiratie artificiala gura la gura sau cu balon Ruben de catre medic

informatii suplimentare in pag 3-5

2

URGENTE IN MIASTENIA GRAVIS

Detresa respiratorie acuta

slabiciunea muschilor gatului, deglutitie si tuse slaba, blocarea calor respiratorii cu alimente

Manevra Heimlich: (inconjoara pacientul cu ambele brate si comprima brusc in partea de jos a toarcelui creand o suprapresiune care impinge resturile alimentare in sus pe gura)

Pentru medicul de urgenta:

pacientul in decubit lateral

extragerea bolului alimentar cu degetele sau pensa Magill aspiratie pe pipa Guedel

respiratie artificiala gura la gura sau cu balon Ruben de catre medic

informatii suplimentare in pag 3-5

2

URGENTE IN MIASTENIA GRAVIS

Detresa respiratorie acuta

slabiciunea muschilor gatului, deglutitie si tuse slaba, blocarea calor respiratorii cu alimente

Manevra Heimlich: (inconjoara pacientul cu ambele brate si comprima brusc in partea de jos a toarcelui creand o suprapresiune care impinge resturile alimentare in sus pe gura)

Pentru medicul de urgenta:

pacientul in decubit lateral

extragerea bolului alimentar cu degetele sau pensa Magill aspiratie pe pipa Guedel

respiratie artificiala gura la gura sau cu balon Ruben de catre medic

informatii suplimentare in pag 3-5

2

Criza miastenica

agravare lenta sau brusca a respiratiei, deglutitiei, vorbirii, mestecarii, fortei tusei, stare de anxietate

calmarea pacientului

plasare in decubit lateral cu trunchiul mai ridicat

Pentru medicul de urgenta

- neostigmina 0,5 - 1,0 mg i.v/i.m la 3-4 ore cu atropina 0,25ml s.c. sau Nospa ½ fiola i.m.
- intubatie IOT cu intreruperea neostigminei
- plasmafereza si /sau imunoglobuline IV 2g/kg corp in 5 zile
- ajustarea tratamentului imunosupresor
- tratarea cauzei decompensarii MG

Criza colinergica

pupile miotice, lacrimare, transpiratii, spasme musculare, pareze, secretii mucoase abundente, bradicardie, piele calda rosie, agitatie sau stare de inconstienta

Pentru medicul de urgenta

atropina 0,25-0,5mg s.c., se repeta la nevoie intreruperea medicatiei anticolinesterazice (Mestinon neostigmin)

3

Criza miastenica

agravare lenta sau brusca a respiratiei, deglutitiei, vorbirii, mestecarii, fortei tusei, stare de anxietate

calmarea pacientului

plasare in decubit lateral cu trunchiul mai ridicat

Pentru medicul de urgenta

- neostigmina 0,5 - 1,0 mg i.v/i.m la 3-4 ore cu atropina 0,25ml s.c. sau Nospa ½ fiola i.m.
- intubatie IOT cu intreruperea neostigminei
- plasmafereza si /sau imunoglobuline IV 2g/kg corp in 5 zile
- ajustarea tratamentului imunosupresor
- tratarea cauzei decompensarii MG

Criza colinergica

pupile miotice, lacrimare, transpiratii, spasme musculare, pareze, secretii mucoase abundente, bradicardie, piele calda rosie, agitatie sau stare de inconstienta

Pentru medicul de urgenta

atropina 0,25-0,5mg s.c., se repeta la nevoie intreruperea medicatiei anticolinesterazice (Mestinon neostigmin)

3

Criza miastenica

agravare lenta sau brusca a respiratiei, deglutitiei, vorbirii, mestecarii, fortei tusei, stare de anxietate

calmarea pacientului

plasare in decubit lateral cu trunchiul mai ridicat

Pentru medicul de urgenta

- neostigmina 0,5 - 1,0 mg i.v/i.m la 3-4 ore cu atropina 0,25ml s.c. sau Nospa ½ fiola i.m.
- intubatie IOT cu intreruperea neostigminei
- plasmafereza si /sau imunoglobuline IV 2g/kg corp in 5 zile
- ajustarea tratamentului imunosupresor
- tratarea cauzei decompensarii MG

Criza colinergica

pupile miotice, lacrimare, transpiratii, spasme musculare, pareze, secretii mucoase abundente, bradicardie, piele calda rosie, agitatie sau stare de inconstienta

Pentru medicul de urgenta

atropina 0,25-0,5mg s.c., se repeta la nevoie intreruperea medicatiei anticolinesterazice (Mestinon neostigmin)

3

Anestezia

- locala/regionala**
 - folositi anestezice locale de tip amida (lidocaina, mepivacaina, etc)

2 anestezia generala

- pentru intubatie: propofol sau etomidat, la nevoie un relaxant muscular nondepolarizant (ex rucuronium) (antidot suggamadex)
- pentru anestezie: propofol sau inhalatorie cu sevofluran sau desfluran
- pentru analgezie: remifentanyl sau fentanyl
- incercati detubarea cat mai precoce posibil
- monitorizare postoperatorie 24 ore pentru deglutiite si respiratie

ATENIONARE medicamente contraindicate sau cu risc de a agrava miastenia

1. Antibiotice

aminoglicozide, neomicina, fluorochinolone (ex ciprofloxacin), macrolide (ex. eritromicina), telitromicina, tetracicline

4

Anestezia

- locala/regionala**
 - folositi anestezice locale de tip amida (lidocaina, mepivacaina, etc)

2 anestezia generala

- pentru intubatie: propofol sau etomidat, la nevoie un relaxant muscular nondepolarizant (ex rucuronium) (antidot suggamadex)
- pentru anestezie: propofol sau inhalatorie cu sevofluran sau desfluran
- pentru analgezie: remifentanyl sau fentanyl
- incercati detubarea cat mai precoce posibil
- monitorizare postoperatorie 24 ore pentru deglutiite si respiratie

ATENIONARE medicamente contraindicate sau cu risc de a agrava miastenia

1. Antibiotice

aminoglicozide, neomicina, fluorochinolone (ex ciprofloxacin), macrolide (ex. eritromicina), telitromicina, tetracicline

4

Anestezia

- locala/regionala**
 - folositi anestezice locale de tip amida (lidocaina, mepivacaina, etc)

2 anestezia generala

- pentru intubatie: propofol sau etomidat, la nevoie un relaxant muscular nondepolarizant (ex rucuronium) (antidot suggamadex)
- pentru anestezie: propofol sau inhalatorie cu sevofluran sau desfluran
- pentru analgezie: remifentanyl sau fentanyl
- incercati detubarea cat mai precoce posibil
- monitorizare postoperatorie 24 ore pentru deglutiite si respiratie

ATENIONARE medicamente contraindicate sau cu risc de a agrava miastenia

1. Antibiotice

aminoglicozide, neomicina, fluorochinolone (ex ciprofloxacin), macrolide (ex. eritromicina), telitromicina, tetracicline

2. Antireumatice si analgezice

D-penicilamina, steroizii (in afara schemei terapeutice), clorochina, chinine, metamizol

3. Medicamente cardiovasculare

antiaritmice (ex. chinidina, procaiamida), betablocante

4. Hipnotice, tranchilizante

benzodiazepine

5. Antiepileptice

gabapentin, difenilhidantoina

6. Blocante neuromusculare

succinilcolina, curara si derivati

7. Varia

procaina, chinina in remedii antigripale sau bauturi (ex apa tonica) etc.
medicamente ce contin magneziu, toxina botulinica

8. Vaccinari

de evitat vaccinurile cu germeni vii (ex: antirubeola, oreion, rujeola, varicela, febra galbena)

5

2. Antireumatice si analgezice

D-penicilamina, steroizii (in afara schemei terapeutice), clorochina, chinine, metamizol

3. Medicamente cardiovasculare

antiaritmice (ex. chinidina, procaiamida), betablocante

4. Hipnotice, tranchilizante

benzodiazepine

5. Antiepileptice

gabapentin, difenilhidantoina

6. Blocante neuromusculare

succinilcolina, curara si derivati

7. Varia

procaina, chinina in remedii antigripale sau bauturi (ex apa tonica) etc.
medicamente ce contin magneziu, toxina botulinica

8. Vaccinari

de evitat vaccinurile cu germeni vii (ex: antirubeola, oreion, rujeola, varicela, febra galbena)

5

2. Antireumatice si analgezice

D-penicilamina, steroizii (in afara schemei terapeutice), clorochina, chinine, metamizol

3. Medicamente cardiovasculare

antiaritmice (ex. chinidina, procaiamida), betablocante

4. Hipnotice, tranchilizante

benzodiazepine

5. Antiepileptice

gabapentin, difenilhidantoina

6. Blocante neuromusculare

succinilcolina, curara si derivati

7. Varia

procaina, chinina in remedii antigripale sau bauturi (ex apa tonica) etc.
medicamente ce contin magneziu, toxina botulinica

8. Vaccinari

de evitat vaccinurile cu germeni vii (ex: antirubeola, oreion, rujeola, varicela, febra galbena)

5

Lista de ‘‘Attentionari’’ nu este completa si vizeaza in special acele medicamente care pot agrava miastenia in situatiile critice. Contactati un centru specializat in tratarea Miasteniei Gravis.

In serviciile de urgenta sau ICU decizia terapeutica poate fi diferita de aceste recomandari.

In afara situatiilor de urgenta, gasiti informatii pe siteul www.miastenie.ro si in materialele informative pentru pacienti de la Asociatia Nationala Miastenia Gravis.

6

Lista de ‘‘Attentionari’’ nu este completa si vizeaza in special acele medicamente care pot agrava miastenia in situatiile critice. Contactati un centru specializat in tratarea Miasteniei Gravis.

In serviciile de urgenta sau ICU decizia terapeutica poate fi diferita de aceste recomandari.

In afara situatiilor de urgenta, gasiti informatii pe siteul www.miastenie.ro si in materialele informative pentru pacienti de la Asociatia Nationala Miastenia Gravis.

6

Lista de ‘‘Attentionari’’ nu este completa si vizeaza in special acele medicamente care pot agrava miastenia in situatiile critice. Contactati un centru specializat in tratarea Miasteniei Gravis.

In serviciile de urgenta sau ICU decizia terapeutica poate fi diferita de aceste recomandari.

In afara situatiilor de urgenta, gasiti informatii pe siteul www.miastenie.ro si in materialele informative pentru pacienti de la Asociatia Nationala Miastenia Gravis.

6