

Neuromuscular disorders

Muscular Dystrophy Canada Neuromuscular disorders are a group of rare diseases that weaken the muscles in the body. Their causes, their symptoms, the age of onset, their severity and their evolution vary depending on the exact diagnosis and on each person.

Name of disorder:

This card is completed and updated by the various specialists involved in the patient's (cardholder) care, in his/her presence and with his/her consent.

This document is confidential and sub-

iect to medical secrecy. Its contents cannot be divulged without the cardholder's permission or that of

his/her legal representative.

Recommendations in case of emergency

(Check the boxes where the risk exists for the affected person).

Bronchial obstruction

- ☐ Given the muscle weakness, provide a way to facilitate coughing, be it breath-stacking (Ambu) or assisted coughing techniques (CoughAssist or Percussionaire), and ensure adequate humidification.
- ☐ Given the muscle weakness (inability to cough), physiotherapy for secretion management shouldn't be used alone, but in combination with the abovementioned techniques.

used by the

reath

Techni	ques alrea	dy know	n an	d u
patient	(check):	-		

stacking with Ambu

patient (check):			
☐ Lung volume re	ecruitment	or	b

☐ In the presence of hypercapnia or
labored breathing, opt for a non-
invasive type of ventilation like BiPAP
(and not CPAP) instead of supplemental

oxygen

even if blood gases are normal.

☐ Mechanical aid: In-Exsufflator.

weakness is greater than usual.

Respiratory failure

group of patients. Therefore:

usual clinical signs;

Please note that when a patient with a neu-

romuscular disorder is sick, his/her muscle

Because of the muscle weakness, chronic

hypoventilation is often observed in this

☐ Verify the patient's pCO2: often

☐ Watch for signs of respiratory fatigue

suggesting imminent decompensation,

hypercapnic, despite the absence of the

CoughAssist

		Bew	are	of h	iigh-le	vel	oxyg	jen	th	era
					use	OX	ygen	in	а	n
ventilated patient;										

- ☐ A non-invasive type of ventilation can be used 24 hours per day with these patients. Avoid tracheostomy and don't hesitate to contact the attending respirologist or expert centres.
- IMPORTANT:

Sleep disorders are often warning signs of respiratory muscle weakness. It is important to detect them early.

This patient is already receiving the following at

- home (check and complete):
- ☐ non-invasive ventilation
- ☐ invasive ventilation

☐ night only ☐ night and day. Number of hours:

_	_/24h	
	device:	

☐ mode:

☐ pressure or volume:
basic frequency:
□ mask used:
☐ tracheostomy:
□ oxygen:
□ volume in litres:

□ number of hours/day: _____

Cardiomyopathy

- ☐ Consider the possibility of a pulmonary oedema
- ☐ Watch out for hypotension

Precautions for

anesthesia ☐ Intubation can be difficult (fibroscopy recommended) because of the small opening of the mouth or limited neck extension.

atropine. ☐ Ensure prolonged ventilatory assistance if curares are used.

☐ Avoid succinylcholine (Anectine) and

- ☐ Avoid codeine, respiratory depressants and anti-cough medicine.
- ☐ Do not interrupt angiotensin-converting enzyme inhibitors.

Post-op:

- ☐ Extubate rapidly if possible, and opt for non-invasive ventilation.
- ☐ Use cough assistance and lung volume recruitment techniques (CoughAssist, Ambu) more proactively in order to avoid atelectasis.

If you find this card, please return it to the cardholder.

Date of update:

For any information regarding the disorder, please visit Muscular Dystrophy Canada's Website: www.muscle.ca.



IMPORTANT: Opt for a seated or semi-seated position with dystrophies	☐ Fracture: manage surgically or non- surgically on a case by case basis. Avoid prolonged bedrest because of the high risk of deconditioning with	☐ Isolation: since patients with neuromus- cular disorders are more vulnerable to infections, it is preferable to isolate them.	Cardholder	In case of emergency, contact:	Personal medical information	2.Other health professional (cardiologist, respirologist, etc.): Name:	It is recommended that you keep this card with you at all times. It will be very helpful in case of emergencies.
(diaphragmatic paralysis); opt for the lying down position in the case of spinal muscular atrophy (intercostal paralysis) (check all that apply):	potentially irreversible functional losses. Bedrest: maintain mobilization, prevent	We strongly recommend that people affected with a neuromuscular disorder be treated on	Last name: First name: Date of birth:	Last name First name Relationship to patient	About the treatment Medication:	Profession:Address:Telephone:	This document was adapted from a care card developed by the Ministère de la Santé et des Solidarités of France, in colla-
 This patient cannot toleratethe supine position. This patient can tolerate the supine	deep vein thrombosis in teenagers and adults.	a priority basis. People affected with a neuromuscular disorder should be accompanied at all	Address	Address	Other treatment protocols:	3. Service provider (ventilation, nutrition, etc.): Name:	boration with specialists on neuromuscular disorders and the Association Française contre les Myopathies (May 2006). Thank
position with ventilation (BiPAP or Respirator). This patient prefers the supine	☐ Repeated vomiting (gastric dilatation): perfuse and empty stomach rapidly.	times by one or two people of their choice – it can be a family member, their attendant or their caregiver. Family members are often very aware of the patient's specific needs	Tillulus	Last name First name Relationship to patient	Vaccines: Date (day/month/year) Against pneumococcus	Profession: Address: Telephone:	you to Mr. Richard Guilmette for having initiated and piloted the implementation of this care and emergency card. Thank
position. Pain: apply the usual treatment protocols. If pain medication (e.g. morphine) is	☐ Difficulty swallowing: pureed diet, thickened liquids.	and are your main source of information; don't hesitate to ask them questions.	Telephone	Address Telephone	Against influenza About other health history and useful information in case of emergengy	Email: 4. Health professional: Name:	you also to the former Agence régionale de la santé et des services sociaux of the Montérégie for believing in this project. We
necessary, it should be at low doses and under monitoring, while watching the patient's level of wakefulness in order to avoid hypoventilation. Please note that sedation with underlying hypoventilation could worsen the patient's hypercapnia and lead to respiratory distress.	☐ Hospitalization: use the patient's orthopedic and ventilation devices.	 In all cases, it is essential to contact the patient's regular attending physician. 	Signature of cardholder or legal representative:	Last name First name Relationship to patient Address Telephone	In case of emergency, call the doctors involved in the patient's care. 1. Attending physician: Name: Address: Telephone:	Profession:	thank Dr Rami Massie, neurologist at the Montreal Neurological Institute and Hospital, as well as the National Program for Home Ventilatory Assistance (NPHVA) and its medical directors (Dr Marta Kaminska and Dr David Zielinski, respirologists) for editing this document.