Supplemental Online Content

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eTable. Management of Individuals With Monotonic Dystrophy Type 1
This supplemental material has been provided by the authors to give readers additional information about their work.

eTable. Management of Individuals With Myotonic Dystrophy Type 1

Symptoms and Clinical Presentations	Management
Hypersensitivity to sedatives/analgesics	 Patient and neuromuscular clinician should meet prior to surgery to discuss anesthesia and surgery risks
Paradoxical reaction to muscle- depolarizing agents	 Minimize complications during surgery with airway care, choice of induction agents, local anesthesia, and neuromuscular blockade.
Cardiac conduction defects/arrhythmias	 Consider prophylactic defibrillator/pacemaker Monitor for aspiration and gastrointestinal pseudo-obstructions in the
Ventilatory insufficiency or poor airway protection	post-operative period
Gastrointestinal dysmotility	
Ineffective cough Recurrent pulmonary infections FVC<50% of predicted or maximum inspiratory pressure (MIP)<60	 Respiratory function testing at baseline and annually thereafter (FVC, FEV1, MIP, maximum expiratory pressure (MEP), nocturnal oximetry, and cough peak expiratory flow) Patients should stay up to date on recommended vaccinations
Sinus bradycardia	- ECG at diagnosis; annually thereafter
Progressive heart block	- Treat with guidelines for ICD/pacemaker placement
Atrial fibrillation or flutter	- Referral to cardiologist is warranted for any cardiac abnormalities
Ventricular tachycardia	**Of note, heart failure is not considered to be a defining symptom
	Hypersensitivity to sedatives/analgesics Paradoxical reaction to muscle-depolarizing agents Cardiac conduction defects/arrhythmias Ventilatory insufficiency or poor airway protection Gastrointestinal dysmotility Ineffective cough Recurrent pulmonary infections FVC<50% of predicted or maximum inspiratory pressure (MIP)<60 Sinus bradycardia Progressive heart block Atrial fibrillation or flutter

System	Symptoms and Clinical Presentations	Management
Gynecology and obstetrics	Gynecological: - Painful or irregular menses - Infertility Obstetrics: - Accelerated myotonic dystrophy type 1 progression - Preeclampsia - Prolonged labor - Spontaneous abortion - Placenta previa - Peripartum hemorrhage	 Carefully evaluate patients' reproductive history, myotonic dystrophyrelated personal history, and myotonic dystrophy family history Referral to a high-risk obstetrician (maternal-fetal medicine specialist) for prenatal care and delivery Cesarean delivery should be carefully considered - anesthetics or sedating anesthetic drugs should be used with caution (see surgery, anesthesia, and pain section) Family planning is recommended; diagnostic testing (preimplantation genetic diagnosis, amniocentesis, or chorionic villus sampling) paired with counseling can determine if the fetus is affected
Musculoskeletal	Skeletal muscle weakness - Bulbar/ocular muscles - Finger flexors and ankle dorsiflexors - Abdominal or diaphragm	 Annual evaluation to identify swallowing or speech difficulties, difficulty with mobility/balance (risk of falls) Evaluation by physical or occupational therapist for assistance with orthotics, assistive devices, or activities of daily living Moderate/low-intensity aerobic and resistance exercise
	Myotonia	- Mexiletine as symptomatic treatment
Ocular	Cataracts	- Annual eye exam; slit-lamp exam to look for multicolored, iridescent, punctate opacities located in posterior lens capsule
Gastrointestinal	Dysphagia, dysarthria, aspiration Gastroesophageal reflux Irritable bowel symptoms	 Referral to a speech therapist Modified barium swallow or barium upper GI radiographic evaluation Screening with a glucose breath test for bacterial overgrowth syndrome

System	Symptoms and Clinical Presentations	Management
Central nervous	Excessive daytime sleepiness	- Respiratory function testing and sleep study.
	Sleep apnea	- Stimulant therapy with modafinil or armodafinil
	Intellectual disability Impaired attention Mood/anxiety disorders Abnormal visual-spatial abilities Delusions or psychotic features Apathy	 Annual neuropsychological evaluation is recommended with insight from patients' family or partner Psychostimulants can be warranted if apathy is associated with an impairing level of fatigue or excessive daytime sleepiness Referral to a mental health care professional when evaluation indicates psychiatric/behavioral abnormalities
Endocrine and metabolic	Hyperlipidemia Diabetes Mellitus (T1DM, T2DM) Thyroid Dysfunction Liver Enzyme Elevation Gonadal Insufficiency Erectile Dysfunction	 Test for endocrine/metabolic perturbations at baseline and annually thereafter (blood glucose, serum lipids, thyroid levels, liver enzymes and bilirubin) a. Chronic liver enzyme elevation is not uncommon and alone does not warrant a liver biopsy Impact of statins is unknown, clinicians should monitor for muscle side effects Consider erectile dysfunction medications but be cautious of hypotension
Tumors	Increased risk of cancer	 Regular screenings for patient's age and sex Encouraged to closely monitor for the following cancer types: a. Colon, breast, testicular, cervical, skin (pilomatrixomas)^a

^aSource: D'Ambrosio ES, Gonzalez-Perez P. Cancer and myotonic dystrophy. *J Clin Med.* 2023;12(5):1939. Medline:36902726 doi:10.3390/jcm12051939