• Joint range of motion (ROM) can be lost rapidly and should MUSCULAR **Gastrointestinal Anaesthetic precautions Alert card** be monitored to preserve range and prevent contractures, DYSTROPHY Common symptoms like constipation, bloating, and nausea Avoid suxamethonium. Avoid inhaled angesthetics and deformities, and pain. Preservation of the ankle and knee ROM typically respond to strategies of optimising fluid and fibre neuromuscular blocking drugs due to high risk of acute Duchenne muscular dystrophy (DMD) should be ensured to avoid developing plantar flexed foot and and establishing toilet routine. rhabdomyolysis. or supination of the foot, which can impact the knee and hip. • Severe refractory constipation, vomiting, or weight loss should • Use intravenous general anaesthetics with close liaison • If able to walk before fracture, internal fixation is preferable to Date of birth... Name. trigger assessment for gut dysmotility. between surgical, anaesthetic, cardiac and respiratory teams. casting to preserve muscle and speeds a return to walking. Always complete a pre-anaesthetic assessment, to include • Avoid NSAIDs (e.g. ibuprofen, aspirin) as they can worsen NHS/CHI/H&C number. Contact the local team for orthotics and physiotherapy input gastrointestinal issues, especially if on long-term steroids. range of jaw opening. to maintain ambulation or supported standing capabilities. If presenting at A&E, contact the specialist team at: • Local anaesthetics and nitrous oxide are safe for minor dental Falls, mobility, and posture • Posture management requires a 24-hour approach including procedures, but additional steroid may be necessary to all positions (e.g. lying in bed, sitting, and standing). • It is important to minimise fall risks in all environments and prevent Addisonian crisis. wear a seatbelt when using a wheelchair. • Individuals on long-term steroid therapy often develop as soon as possible on: .. Publication date: Nov 2024 Information osteoporosis. Assess for long bone or vertebral fractures as Review date: Nov 2027 Creator • If experiencing rapid breathing or altered mental state soon www.musculardystrophyuk.org indicated, this can present as back pain. Exercise caution when after injury (fracture), investigate possible fat embolism For information and support, contact us on our helpline lifting/moving individual to reduce risk of fractures. Registered Charity No. 205395 and Registered Scottish Charity No. SC039445 0800 652 6352 or email info@musculardystrophyuk.org syndrome.

Duchenne muscular dystrophy (DMD)

DMD is a severe progressive muscle wasting condition, that leads to several complications. Individuals will have complex care needs.

If vomiting and/or unable to take corticosteroids for 24 hours seek urgent medical attention. Injectable hydrocortisone may be required until oral steroids can be taken. Conversion: 6mg deflazacort = 5mg prednisone = 20mg hydrocortisone.

Behaviour

• Some individuals with DMD may have speech and language difficulties, autism, and/or behavioural challenges. Unfamiliar

Oral hydrocortisone or usual corticosteroid dose may have to be

environments like the A&E department can be overwhelming.

increased during an acute illness due to adrenal insufficiency.

Respiratory

- Chronic respiratory failure may present without usual signs of respiratory distress. Subtle signs include morning headaches, daytime sleepiness, and reduced appetite. Consider underlying respiratory failure in case of a chest infection.
- Supplemental oxygen during a crisis must be carefully controlled and prompt an arterial blood gas test for respiratory failure. Non-invasive ventilation, with oxygen entrained, can be initiated even with normal CO, levels if there are signs of severe

respiratory infection, without waiting for hypercapnia.

Assess secretion management and consider cough

device to clear lower airway secretions.

augmentation techniques such as assisted coughing, breath stacking techniques with a LVR bag, and/or a cough assist

• Individuals already on respiratory support devices may require higher pressures to achieve therapeutic aims during acute respiratory infection.

Cardiac

- All individuals with DMD develop cardiomyopathy which remains asymptomatic until ventricular dysfunction is advanced. Symptoms of cardiac failure can be subtle fatigue, weight loss, and abdominal pain more often than
- shortness of breath. • Regular imaging assessments (Echo/cMRI) are necessary for surveillance and optimum cardiac management. If individual

has not been having regular heart checks, consider the

possibility of severe underlying cardiomyopathy.

beta blocker therapy before age 10, with eplerenone spironolactone added at a later stage. Consider cardiac arrhythmias in individuals with intermittent

Typically, individuals begin prophylactic ACE-inhibitor +

- palpitations, shortness of breath, dizziness, or presenting with a stroke. ECG and extended monitoring (24-hour Holter
- monitor) may be required. Heart medication dosages may need to be reduced/ withdrawn during acute systemic illness but should be restarted/restored during recovery.

whatsoever for any damages incurred as a result of its use.

While every reasonable effort is made to ensure this document is useful to clinicians and service users, Muscular Dystrophy UK shall not be liable