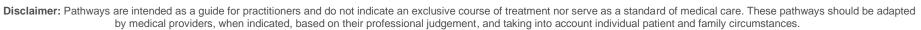
HIGH RISK PRE-OPERATIVE REFERRAL RECOMMENDATIONS

Physician Owner(s): Dr. Brian Hasley

Service Line	Gastroenterology	Cardiology	Pulmonology/ Sleep Medicine	Neurology	Neurosurgery	Orthotics/Prosthetics/ Seating & Mobility/ PT/OT	Child Life/Social Work
Referral indications	 <u>Malnutrition or</u> <u>any of the following:</u> [] BMI <5th percentile or a BMI z-score less than -1 (patient can proceed with surgery once they gain 5-10% of their body or BMI z-score improves to less than -2) [] Unintentional weight loss in the last 3 months [] MUAC z-score is less than -3 (<i>Accurate</i> <i>height, weight, and</i> <i>MUAC to be taken</i> <i>during each</i> <i>preoperative visit</i>) [] Enteral tube fed Based on the following: [] Observed or reported choking, gagging, or coughing during or after eating orally or via tube [] Observed or reported shortness of breath or wheezing (not associated with asthma) present during or after eating orally or vi a tube [] Hospitalized with aspiration pneumonia in the last 2 years [] Abnormal prior deglutition study without resolution 	Any of the following: [] Any patient with known history of a cardiac issue [] Known personal history of a condition that has cardiac involvement, including connective tissue disorders or neuromuscular disease [] Family history of aortic disease, cardiomyopathy, or sudden death before the age of 40 years [] If on anthracycline for chemotherapy (consideration: active treatment vs post therapy; total life dose >75mg/m2)	All established pulmonology or sleep medicine patients 3 to 6 months prior to surgery by primary pulmonologist (obtain recommendati ons if from OSH). [] New referral indicated for patients with SMA or Duchenne's. If new referrals unable to be seen within 2 months Dr. Rhoads can help coordinate earlier appt.	For the following: [] Controlled seizures who have not been seen by neurology within 1 year. [] Any patients with questions or concerns regarding seizure medications Uncontrolled seizures: [] Neurologist should be notified for all patients with uncontrolled seizures for perioperative recommendations, especially if not seen in last 6 months For patients on Depakote first obtain TEG and EPI platelet function studies: [] Normal results, proceed with spinal fusion surgery [] Abnormal results, refer to neurology to discuss risk/benefits of stopping prior to surgery: Do NOT need evaluation prior to surgery: DMD and other muscular dystrophies, SMA, Rett Syndrome without seizure history, Cerebral Palsy without seizure history	Any of the following: [] Shunt not evaluated in > 1 year or not had imaging within last 12 months [] Symptoms of shunt malfunction like, nausea, headache, seizures, or vomiting; obtain head MRI or CT at time of referral. [] Myelomeningocele with progressive curve/ large curve to assess for detethering prior to fusion surgery [] Fatty filum and low- lying conus [] Small syrinx – consider NSGY at minimum [] Indwelling baclofen pump – consider letting NSGY know beforehand	Any of the following: [] Call for Halo Consults & Halo Fittings [] * Notify if Post-Op TLSO is known to be needed Seating and Mobility Clinic: [] If needing a new custom molded back, parents to contact vendor when surgery is scheduled. [] If adjustments needed immediately post-op, parents and/or PT to contact vendor to schedule on POD #3/4 [] Parents to call vendor for appointment for wheelchair adjustment 2 - 3 weeks post-operatively. <u>PT/OT:</u> [] Dependent patients (GMFCS level 4 or 5, sometimes 3) with underlying neuro diagnosis that is progressive (SMA, MD): Arrange custom molded back and cushion prior to surgery, with goal being immediately when surgery is scheduled [] Minimal to no assistance patients (GMFCS levels 1, 2, or 3) with myelomeningocele, spina bifida or other neuro disorders though not dependent on caregiver: Arrange for pre-operative PT at least 1 month prior to surgery	Child Life: [] Offer family Operation Learn through Child life- give handout if interested Patients are seen by Social Work and at 2-week preoperative visit- once figure out roll of social work





Children's NEBRASKA

Children's NEBRASKA

HIGH RISK PRE-OPERATIVE REFERRAL RECOMMENDATIONS

Physician Owner(s): Dr. Brian Hasley

						with primary PT or CHMC PT to prepare for changes post-operatively and make modifications to home if needed	
Labs/Tests *Standard pre- operative labs: CBC, CMP, PTT/PT, UA	Prior to clinic appointment ONLY if labs are being obtained, results should be sent to Children's GI (402- 955-5720): - Ferritin - Vitamin D (25- hydroxyvitamin D) - Prealbumin - Vitamin C - Zinc	Coordinate ordering with cardiology: [] Echocardiogram – can use one completed in last 2 years, unless ECG changes or at provider's discretion [] ECG – can use one completed in the last year unless changes or at provider's discretion [] CBC [] PTT/PT	[] PFT's If > 5 years + can complete in last 6-12 months. When done recommend spirometry with MIP/MEP/PCF. [] Sleep study if indicated based on pulmonary or sleep provider evaluation or positive sleep questionnaire prior to evaluation. Especially consider with FVC <50 (even if asymptomatic)	For patients on Depakote: [] Obtain TEG and EPI platelet function studies			Orthopedics: Patient is to have Type & Screen pre- operatively –If don't have antibodies then type and cross on day of surgery, if have antibodies crossed prior to day of surgery to ensure blood availability - Arrange for blood products to be ready before surgery
Imaging		DMD (Duchenne Muscula * EF > 50% (echo within * EF < 50% (echo within	ar Dystrophy) last 6 months)		Indication for rapid brain MRI/CT: [] CP – not indicated [] Myelomeningocele – indicated pre-op. [] Shunted for baseline ventricle size [] Syndromic – case by case [] VNS – do not image [] For the Order – designate "Pre-Op" and the date of surgery [] Expedited need – include reason on order [] Consider Anesthesia need for MRI's		

Disclaimer: Pathways are intended as a guide for practitioners and do not indicate an exclusive course of treatment nor serve as a standard of medical care. These pathways should be adapted by medical providers, when indicated, based on their professional judgement, and taking into account individual patient and family circumstances.



ChildrensNebraska.org/clinical-pathways

HIGH RISK PRE-OPERATIVE REFERRAL RECOMMENDATIONS

Physician Owner(s): Dr. Brian Hasley



Admission unit & pre-op needs	Indications: [] Residual disease –	[] Address CPAP compliance prior to surgery [] All patients need an airway clearance plan from pulmonology prior to and after surgery [] Pre - Operative admission if deemed necessary by pulmonology			[] Arrange admission with 6MS, PICU. [] Consider long term rehabilitation (Ambassador/Madonna) if anticipated decrease in function from baseline due to anticipated lengthy hospital stay/dificulty with pain tolerance in relation to mobility [] To qualify for Inpatient rehab, requires patient to have significant decline in baseline function and PT/OT recommendation for IPR	
Other consideration to surgery	Consider Cardiac Anesthesia if: [] Significant ventricular dysfunction <30% EF based on most recent echocardiogram [] Severe aortic stenosis or pre- reviewed severe valvular pathology [] Any single ventricle physiology (includes Fontan) [] Pulmonary hypertension >2/3 of systemic pressure [] Heart transplant <1 year out [] All patients with LVEF < 35% -consult cardiology for risk vs benefit discussion and preoperative plan)			Combined Neurosurgery Cases [] Spinal Stenosis · Intra Dural [] Possibly Vertebrectomy with high risk of dural tear [] Myelo with tether/need cord divided [] With Myelomeningocele: consider resection of cord if placing MAGEC rods. [] Consider notifying Plastic Surgery for closure and close monitoring. [] Consider notifying neurosurgery if any surgery is around the Dura (such as Myelomeningocele)	Parental Information [] Bring wheelchair + orthotics to hospital [] Make post-op appointment with wheelchair vendor prior to the surgery [] No bending/twisting after surgery – so plan for daily routine & challenges [] Caregiver present for transfer training	
Pre-plan for Hospitalist	Patient will be admitted t	o orthopedics, and	hospitalists will be consu	Ited for co-management of	on all patients.	

Disclaimer: Pathways are intended as a guide for practitioners and do not indicate an exclusive course of treatment nor serve as a standard of medical care. These pathways should be adapted by medical providers, when indicated, based on their professional judgement, and taking into account individual patient and family circumstances.

ChildrensNebraska.org/clinical-pathways

HIGH RISK PRE-OPERATIVE REFERRAL RECOMMENDATIONS Physician Owner(s): Dr. Brian Hasley

CLINICAL

Ռ

EFFECTIVENESS



Disclaimer: Pathways are intended as a guide for practitioners and do not indicate an exclusive course of treatment nor serve as a standard of medical care. These pathways should be adapted by medical providers, when indicated, based on their professional judgement, and taking into account individual patient and family circumstances.