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## Maple Syrup Urine Disease Care Plan Use in conjunction with Medical Guidelines for management of Metabolic Disorders for required investigation.

Problem: is at risk of neurological damage due to elevated branch chain amino acids (BCAA) le caused by	vels S/N Sig:	Date: Planned By:	Problem
<ul> <li>Goal: 1) Prevent neurological damage by reducing leucine to acceptable levels.</li> <li>2) Assist Metabolic Team in ascertaining cause of elevated BCAAs</li> </ul>			
Nursing Care		Self/ family care	Date and sign / countersign any changes
1. Assess neurological status using Glasgow Coma Scale. Document evidence of altered neurological status i.e. disorie	entation, ataxia, slurred	Parent(s) will assist in assessment of neurological	
speech, abnormal limb movements, irritable cry etc. Obtain history of normal behaviour pattern from parents.		status by providing	
2. Record vital signs (TPR, BP & Oxygen saturation) at 4 hourly intervals or more frequently if indicated.		information on normal	
3. Assist in collection of specimens e.g. U&E / Serum amino acids etc.		behaviour pattern.	
4. Administer Intravenous Dextrose and Intralipid solutions as prescribed to suppress catabolism and endogenous pre-	otein breakdown. (Use	Family will provide comfort	
Intravenous Cannulation Care Plan).		and reassurance pre, during and following	
5. Monitor and record blood glucose levels 4-6 hourly when on intravenous therapy.		procedures.	
6. Perform & record ward urinalysis on each void. Inform team if sample is positive for ketones and / or glucose.		Parents will inform staff if	
7. Liaise with Metabolic team and dietetic team regarding dietary regime (Protein exchanges, synthetic protein and calorie	es).	appears to be in	
8. Collect blood for branch chain amino acid levels by finger prick hourly (dictated by consultant).		pain (may signify complications of	
Micro tubes are available from St. Brigid's Ward and Laboratory stores.		Intravenous therapy).	
9. Pass nasogastric tube if patient is unable to meet required calories using oral and / or intravenous fluids (use N	IG feeding care plan).	Parents will negotiate with	
Negotiate with parents re. participation in insertion of nasogastric tube and feeding. Assess technique where this proc previously.	edure has been taught	staff regarding level of participation in feeding / preparation of feeds etc.	
10. Record Intake and Output. Inform team of vomiting / diarrhoea. Estimate volumes of vomitus. Lost volumes will need to	be replaced using oral	preparation of reeus etc.	
/ NG feeds / oral / NG feeds and intravenous dextrose / intravenous dextrose (delete as appropriate) to preve	ent loss of calories. If		
vomits, s/he is allowed a grace ofmls (confirm same with Consultant). Thereafter, rep	blace ml for ml using		
feeds (insert name)	-		

Nursing Care	Self/ family care	Date and sign / countersign any changes
<ol> <li>Monitor closely for signs of fluid overload.</li> <li>Administer Isoleucine and Valine supplements as prescribed (may be delivered intravenously if unable to tolerate orally).</li> <li>Document leucine levels on appropriate flow sheet indicating where possible calorie / protein exchange intake at time of sampling Flow sheets available from St. Brigid's Ward.</li> <li>Weigh daily / alternate days / twice weekly / weekly (<i>delete as appropriate</i>) according to ward policy or clinical status.</li> <li>Assess skin integrity as may be impaired by protein restriction. Provide oral hygiene.</li> <li>Provide periods of rest as stress can increase metabolic rate.</li> <li>Keepand family informed of all procedures / investigations / results. Encourage and promote family-centred care.</li> </ol>	Parents will keep nappies for weighing by staff and will inform staff of episodes of vomiting / diarrhoea / voids. Parents will inform staff of skin breakdown noted during bathing, dressing or toileting and will assist if wished in provision of oral hygiene	