

PN Cheat Sheet

by Michellephillipso2 via cheatography.com/214485/cs/46717/

Indications

Gut not functional/accessible = complete bowl rest

Cannot meet needs orally

PN duration longer than 5 days

E.g. bowel obstruction, gut ischemia, ileus/GI stasis, fistula, radiation damage, intractable vomiting, persistent severe diarrhoea, short-bowl, Crohn's, trauma, critically ill, malnourished, SBS, burns

| Routes | |
|-----------------------------|--|
| Central - TPN | Into superior vena cava, hypertonic solution. Larger vein. |
| Peripheral line – PPN | ~Short-term. Into arm//l-egs/hands. Lower osmolarity. Only when central line is not available. |

Formulas

NO micronuts & trace elements - Come in separate vials (Soluvit, Vitalipid, Cernevit) – added to bag when administered or an injection

SCHU: Administered with 100mL saline over 24 hours.

| over 24 hours. | | |
|--|--|--|
| CHO (as dextrose) | max total: 2g/kg. Max rate: 4-5mg/min/kg | |
| P (as free AA & electr- olytes) | 1g N = 6.25g protein. N usually in name - "SuperPH 24" = 24 g N. | |
| | Standard solutions = 1.0-1.2-g/kg. Standard bag (3-in-1): 10-15%. Standard bag (2-in-1): 15-25%. | |
| F (as lipid | Minimum 0.5 mg LCT/kg/d to | |

F (as lipid Minimum 0.5 mg LCT/kg/d to emulsion) prevent EFA deficiency.
Standard bag (3-in-1): 30-45%,
Standard bag (2-in-1): 0%.

Energy 0.6-1.2 kcal/mL

| Regimes | |
|--------------------------|---|
| Continuous | 40-150 ml/hour for 24 hours. Don't need to start lower rate (unless risk of refeeding or if hyperglycaemic). Refeeding = 50% of reqs, ↑ when biochem stable. |
| | SCUH policy: start rate = $\frac{1}{2}$ goal for the first 12 hours. |
| Intermitt- ent/cyclic | 100-300ml/hour. Eg. only at night or on specific days of the week |
| Dual Feeding | PN & EN – helps maintain gut function – gut integrity & gut microbiome |

Guidelines & References

DA Parenteral feeding manual and guidelines

ASPEN refeeding consensus recommendations (2020)

ESPEN guideline on home parenteral nutrition



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Nut Reqs

Simple ratio - same as EN

Consider any fluid restrictions - NO

FLUSHING IN PN

All additional fluids = IV

Bag volume = fluid (not like EN)

GI Losses: ↑ reqs zinc, copper & selenium

Long-term PN: Gradual depletion of stores: trace elements & fat-sol vits. Greater risk of micronutrient deficiencies

Transitional feeding - PN to EN

Step 1: Start EN 30-40mL to establish GI tolerance.

Step 2: PN rate can be slowly reduced to keep nutrient levels at the same prescribed amount

Step 3: Continue increasing EN rate and decreasing PN rate until full requirements are met by EN

Transitional feeding - PN to oral

Pts w/ unstable BG or ↓ glycogen: Taper infusion to 50% for an hour, review insulin dosage & cease insulin infusion, OR replace PN with 10% dextrose at same rate as PN for an hour

Monitoring

Concerns: ↓ gut microbiome biodiversity, ↑ inflammation

Strategies to ↑ oral intake – ONS/EN/oral intake

Biochem - refeeding, hypo/hyperglycaemic

If reqs aren't met (due to fluid restrictions): consult w/ med team. Reduce IV?

Weight = daily-weekly

Fluid balance = hourly. Totalled daily

BGL: every 6 hours-daily

Troubleshooting

Nausea anti-nausea meds, swap to or cyclic, reduce rate & run continvomiting uously, 2-in-1 instead (no fat)

niting uously, 2-in-1 instead (no fat)

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Troubleshooting (cont)

ation

Fluid

overload

| Too hungry | Swap to cyclic & ↑ rate. |
|--------------------------|--|
| Too full | slow rate & run continuous. |
| Consti- pation | Medication. Ensure adequate fluid. |
| Overfe- eding | ↑ BGL, serum triglycerides, AST & ALT. Glucose: higher than 5mg/min/kg is unlikely to be tolerate. |
| Hyperg- lyc- aemia | Swap to a higher lipid, lower glucose formula |
| Dehydr- | supplemented with IV fluids. ↑ |

rate ≠ ↑ hydration

formula.

Consider other fluid sources -

IV, medications, line flushing.

Change to a more concentrated

bleshooting

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