KINGSTON GENERAL HOSPITAL
PHYSICIAN'S ORDERS

WEIGHT (KG) DRUG SENSITIVITIES

Please use ballpoint pen and press firmly.

ORDER AND SIGNATURE	TRANSCRIPTION & RN NOTES

PARENTERAL NUTRITION ORDER FORM (ADULT ICU)

NOTE: Orders must be received in pharmacy by 1300h, otherwise solutions will be supplied for the following day**

☐ New Order (*complete Section A and Section B)*
☐ Continue Enteral Nutrition (EN) _____ *(solution)* at 10 mL/h
☐ Order Modification (*complete only section B*)
☐ Initiate Adult ICU Glycemic Control Protocol *(Physician to complete an Adult ICU Glycemic Control Protocol order form)*

☐ **Section A**: New Parenteral Nutrition (PN) Orders

1. Consult Clinical Dietician *(required for all initial orders).*
2. CBC, platelets, INR, PTT, blood glucose, electrolytes, calcium, phosphate, magnesium, urea, creatinine, triglycerides, serum albumin, AST, alkaline phosphatase, total bilirubin.
3. Twice weekly weights (every Monday and Thursday).
4. Monitor intake/output q12 h.
5. Initiate amino acid and dextrose infusion IV at _____ mL/h for 6 hours, then increase by 25 mL/h every 6 hours if blood glucose is less than 9 mmol/L until target PN rate reached (as ordered in section B).
6. **Daily** electrolytes and blood glucose until patient has received PN for 5 days at target PN rate.
7. **Twice weekly** (every Monday and Thursday) calcium, magnesium, phosphate, urea, creatinine, prealbumin, electrolytes and blood glucose.
8. **Weekly** (every Monday) CBC, AST, alkaline phosphatase, total bilirubin, triglycerides, serum albumin, 24 hour urinary urea and creatinine clearance.

☐ **Section B**: New or Modified Parenteral Nutrition (PN) orders *(refer to the Calculation of Adult Daily Energy Requirements on reverse)*

1. <u>Base solution</u> *(select one):*
   ☐ Amino acids 5% and dextrose 25% (central) at target PN rate of _____mL/h
   OR
   ☐ Amino acids 5% and dextrose 16.6% (central) at target PN rate of _____mL/h. ***OR***
   ☐ Amino acids 4.25% and dextrose 10% (central/peripheral) at target PN rate of _____ mL/h.
   OR
   ☐ *Other (consult pharmacy):*
   _____ at target PN rate of _____ mL/h.

Physician Signature:

Printed Name:

Date & Time:

KINGSTON GENERAL HOSPITAL
PHYSICIAN'S ORDERS

WEIGHT (KG) DRUG SENSITIVITIES

Please use ballpoint pen and press firmly.

ORDER AND SIGNATURE	TRANSCRIPTION & RN NOTES

PARENTERAL NUTRITION ORDER FORM (ADULT ICU)

2. Electrolytes:

☐ Standard		***OR***	☐ Non-Standard	
Calcium	2.25 mmol/L		Calcium	_____ mmol/L
Magnesium	2.5 mmol/L		Magnesium	_____ mmol/L
Sodium	35 mmol/L		Sodium	_____ mmol/L
Potassium	40 mmol/L		Potassium	_____ mmol/L
Phosphate	15 mmol/L		Phosphate	_____ mmol/L

3. Multivitamins IV – one dose daily.
   Trace elements IV – one dose daily.
4. ☐ Vitamin K _____ mg IV/IM once weekly on Fridays.
5. *If PN is longer than 1 week:*
   ☐ Fat emulsion 20% 250 mL IV at 20 mL/h once a week.
   OR
   ☐ Fat emulsion 20% IV at _____ mL/h.
6. ☐ Glutamine 15 grams PO/NG tid.
7. *Other orders:*

_____

_____

_____

_____

_____

_____

_____

_____

Physician Signature:	
Printed Name:	
Date & Time:	

CALCULATION OF **ADULT** DAILY ENERGY REQUIREMENTS

R.E.E. (RESTING ENERGY EXPENDITURE) x STRESS FACTOR

A) R.E.E. (Resting energy expenditure from Harris Benedict Equation)

R.E.E. Men (kJ/day) = (66.47 + 13.75 W + 5.0 H – 6.76 A) x 4.2

R.E.E. Women (kJ/day) = (655.1 + 9.56 W + 1.85 H – 4.68 A) x 4.*2*

W = weight in kilograms
H = height in centimeters
A = age in years

B) Stress Factor

Post-op with complications or prolonged recovery	1.24
Depletion	1.2
Peritonitis	1.2 - 1.5
Skeletal trauma	1.1 - 1.3
Multiple trauma	1.3 - 1.6
Sepsis	1.3 - 1.6
Burns	1.2 - 2.0
Cancer	1.2

CALCULATION OF ADULT DAILY REQUIREMENTS

Mild Stress	0.8 – 1 g/kg
Moderate Stress	1 – 2 g/kg
Severe Stress	2 – 3 g/kg

CALCULATION OF ADULT DAILY ELECTROLYTE REQUIREMENTS

Calcium	5 – 10 mmol
Magnesium	5 – 15 mmol
Potassium	60 - 180 mmol
Phosphate	30 - 45 mmol
Sodium	60 – 150 mmol

For further information regarding the multivitamins and trace elements contact the Pharmacy Department.

FOR **PEDIATRIC** REQUIREMENTS REFER TO PROTOCOL