### Neonatal/Pediatric Parenteral Nutrition Formulation

**Patient Label**

<table>
<thead>
<tr>
<th>Weight: ________ kg</th>
<th>Infusion Rate: ________ mL/hr</th>
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</thead>
</table>

**Dextrose:**
- Final Concentration: _______%
- Projected glucose infusion rate _______ mg/kg/min

**Protein:**
- Dose: ______ gram/kg/day
  - ___Pediatric amino acids (age < 2 yr.)
  - ___Standard amino acids (age > 2 yr.)
  - ___Add cysteine (for preterm infant) (60 mg/kg < 2 kg or 121 mg/kg ≥ 2 kg)
  - ___Add carnitine (10 mg/kg/day for preterm infant)

**Lipid:**
- Dose 20% Fat Emulsion: ______ gram/kg/day (Maximum 4 gram/kg/day)
  - ___Infuse continuously over 24 hours
  - ___Mix with TPN
  - ___Infuse separately

**Sodium:**
- Total Sodium: ______ mEq/kg/day (when required, minimal sodium may be added to accommodate phosphorus)

**Potassium:**
- Total Potassium: ______ mEq/kg/day

**Calcium Gluconate:**
- ______ mg/kg/day (Normal dose: 100-200 mg/kg/day)

**Phosphorus:**
- ___Maximize Ca/P ratio (preferred for premature newborns)
- ___Other ______ mM/kg/day
- ___Delete

**Magnesium Sulfate:**
- ______ mEq/kg/day (normal dose: 0.3 mEq/kg/day)

**Balance Cations with:**
- ___All chloride (minimize acetate)
- ___All acetate (minimize chloride)
  - ___75% chloride; 25% acetate
  - ___50% chloride; 50% acetate
  - ___25% chloride; 75% acetate
  - ___Minimal cations/phosphorus only

**Vitamins – MVI Pedi:**
- MVI will be added automatically based on the following weight guidelines:
  - 1.5 mL for wt. < 1.5 kg
  - 3 mL for wt. 1.5 – 3 kg
  - 5 mL for wt. > 3 kg

**Trace Elements:**
- Will be added automatically according to weight. (Normal dose: 0.2 mL/kg/day)
  - Trace #1 for wt. ≤ 3 kg
  - Trace #2 for wt. > 3 kg
  - ___Direct bilirubin > 2 mg%, Omit Copper and Manganese (use special trace #1 or #2)

**Heparin:**
- ______ units/mL (standard: 0.25 units/mL)

**Other Ingredients:**
_____________________________________________________________________________________

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**Physician/Pharmacist Signature**_______________________________ **Date/Time** ___________________