

### Example parenteral supplementation regimens

1. Micronutrient supplementation							
	Regimen A	Regimen B	Regimen C	Regimen D	Regimen E	Regimen F	Regimen G
	<p><b>Cernevit® 1 vial</b> recon in: 5ml 0.9%NaCl <b>OR</b> 5ml 5%DW <b>OR</b> 5ml sterile H2O Give by slow IV injection <b>PLUS</b> <b>Additrace® 1 amp</b> dilute in 50ml 5%DW <b>OR</b> 50ml 0.9%NaCl <b>OR</b> 50ml sterile H2O</p>	<p><b>Cernevit® 1 vial</b> <b>PLUS</b> <b>Additrace® 1 amp</b> diluted together in 50ml 5%DW <b>OR</b> 50ml 0.9%NaCl <b>OR</b> 50ml sterile H2O</p>	<p><b>Cernevit® 1 vial</b> <b>PLUS</b> <b>Additrace® 1 amp</b> diluted together in ≥100ml 5%DW <b>OR</b> ≥100ml 0.9%NaCl <b>OR</b> ≥100ml sterile H2O</p>	<p><b>Vitalipid® 1 amp</b> Give by slow IV injection <b>PLUS</b> <b>Soluvit® 1 vial</b> <b>added to</b> <b>Additrace® 1 amp</b> Diluted together in ≥100ml 0.9%NaCl <b>OR</b> ≥100ml 5% DW</p>	<p><b>Soluvit® 1 vial</b> <b>PLUS</b> <b>Vitalipid® 1 amp</b> <b>PLUS</b> <b>Additrace® 1 amp</b> All diluted together in ≥100ml 0.9%NaCl <b>OR</b> ≥100ml 5% DW</p>	<p><b>Soluvit® 1 vial</b> <b>PLUS</b> <b>Vitalipid® 1 amp</b> <b>PLUS</b> <b>Additrace® 1 amp</b> Diluted together in 500ml 10% IVLE <b>OR</b> 500ml 20% IVLE</p>	<p><b>Soluvit® 1 vial</b> <b>PLUS</b> <b>Additrace® 1 amp</b> Diluted together in 200-500ml 5%DW <b>OR</b> 200-500ml 0.9% NaCl  <b>PLUS</b> <b>Vitalipid® 1 amp</b> Diluted in 500ml 10% IVLE <b>OR</b> 500ml 20% IVLE</p>
<b>Total volume</b>	<b>5.5ml IV injection plus 50ml IV infusion</b>	<b>50ml</b>	<b>100ml (or more)</b>	<b>10ml IV injection plus 100ml IV infusion (or more)</b>	<b>100ml (or more)</b>	<b>500ml</b>	<b>700-1200ml</b>
<b>Delivery</b>	IV injection plus infusion via Syringe pump <b>OR</b> Small IV bag <b>OR</b> Buretrol/vol control device	IV infusion via Syringe pump <b>OR</b> Small IV bag <b>OR</b> Buretrol/vol control device	IV infusion via Small IV bag <b>OR</b> Buretrol/vol control device	IV injection plus infusion via Small IV bag <b>OR</b> Buretrol/vol control device	IV infusion via Small IV bag <b>OR</b> Buretrol/vol control device	IV infusion via IV bag/bottle	IV infusion via IV bag/bottles
<b>Duration</b>	2 -12hrs	2-12hrs	2-12hrs	2-12hrs	2-12hrs	8-24hrs	8-24hrs
<b>Good for</b>	<ul style="list-style-type: none"> <li>• Very small volume</li> <li>• Quick administration</li> <li>• when few ports available</li> </ul>	<ul style="list-style-type: none"> <li>• Very small volume</li> <li>• Quick administration</li> </ul>	<ul style="list-style-type: none"> <li>• Small volume</li> <li>• Quick administration</li> </ul>	<ul style="list-style-type: none"> <li>• Small volume</li> </ul>	<ul style="list-style-type: none"> <li>• Small volume</li> </ul>	<ul style="list-style-type: none"> <li>• On label use</li> </ul>	<ul style="list-style-type: none"> <li>• On label use</li> </ul>
<b>Concerns</b>	<ul style="list-style-type: none"> <li>• Low volume of Additrace may exceed pH and osmolality limits – reserve for central delivery only</li> <li>• <b>Off-label use of Additrace</b></li> </ul>	<ul style="list-style-type: none"> <li>• Low volume of Additrace may exceed pH and osmolality limits – reserve for central delivery only</li> <li>• <b>Off-label use of Additrace</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Off-label use of Additrace</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Off-label use of Additrace</b></li> </ul>		<ul style="list-style-type: none"> <li>• Large extra volume</li> <li>• Slow infusion</li> <li>• Need multiple ports or serial infusions</li> <li>• Lipid must be considered part of total nutritional energy and IVLE from all sources must not exceed 1.5g/kg/day</li> </ul>	<ul style="list-style-type: none"> <li>• Very large extra volume</li> <li>• Long infusion time</li> <li>• Need multiple ports or serial infusions – difficult when IV access is peripheral</li> <li>• Lipid must be considered part of total nutritional energy and IVLE from all sources must not exceed 1.5g/kg/day</li> </ul>
2. Protein supplementation							
	<b>Option 1</b>			<b>Option 2</b>			
	IV Crystalline amino acid solution			Protein chamber of multi-chamber parenteral nutrition unit			
<b>Total volume</b>	To deliver required protein (up to 1000ml)			To deliver required protein (up to 1000ml)			
<b>Delivery</b>	IV infusion			IV infusion			
<b>Duration</b>	4-24hrs			4-24hrs			
<b>Notes</b>	Some are not suitable for peripheral administration (check osmolality)			Many are suitable for peripheral administration (check osmolality)			