LIPID INFUSION PROCEDURE

POLICY:

RN’s may administer lipid infusions per physician order.

PURPOSE:

Infusion of fat nutrients/calories into veins when oral intake of fat is inadequate or patient is NPO or to prevent fatty acid deficiency.

SUPPORTIVE DATA:

1. Lipids solutions are usually ordered as 10% or 20%.
2. Run fat emulsion through a filter - Pharmacy will send 1.2 micro filter.
3. Lipids are usually infused through the subclavian line simultaneously with TPN solution. They may be given peripherally if necessary. Always connect to Y port nearest patient. If using multi lumen catheter: one port may be assigned to lipids.
4. Fat emulsion not to hang longer than 12 hours unless with TPN, then can hang 24 hours.
5. IV tubing for lipids is changed with every bottle or every 24 hours.
6. Lab should draw blood 6 hours post fat infusion completion (fat distorts lab values).
7. Note patients with egg allergies; may not tolerate lipid solution.
8. First-time lipid infusions should have a test dose of 1 cc/minute over 30 minutes to check for adverse reactions.

EQUIPMENT LIST:

1. Lipid bottle (from Pharmacy)
2. IV pump tubing and filter from Pharmacy.
3. Alcohol wipe & betadine swabs
4. Tape
5. Needle/Interlink leverlink cannula
6. IV pump

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<th>Procedure Steps</th>
<th>Key Points</th>
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<td>1. Assemble equipment.</td>
<td>1. Use 2 identifiers to verify identity of patient.</td>
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<td>2. Prime IV tubing &amp; filter with fat emulsion. Insert tubing into pump.</td>
<td>3. Peripheral administration in a port nearest to the patient is desirable.</td>
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<td>3. Piggyback solution into appropriate site after cleansing site.</td>
<td>4. Usually started at 25-50cc/hr. for 30 minutes for 1st time infusion only. Rate may be increased as ordered by physician.</td>
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<td>4. Begin infusion at prescribed rate.</td>
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5. Watch for complications during infusing. Observe closely first 30 minutes. (for 1st time infusion)


7. After prescribed IV fat emulsion infused discard tubing and bottle.

DOCUMENTATION:

a. Narrative in nurses notes of tolerance to the infusion.
b. IV flowchart in CPSI.
c. Lipid intake on CPSI: “new intake.”

REFERENCE:

Nursing Procedures, Springhouse Corp. 2000 pg. 325, 326

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