

# PN Compounding CHECKLIST



The **American Society for Parenteral and Enteral Nutrition** (A.S.P.E.N.) champions the best evidence-based practices that support parenteral nutrition (PN) therapy in varying age populations and disease states. The appropriate use of this complex therapy aims to maximize clinical benefit while minimizing the potential risks for adverse events.

The **purpose of this checklist** is to promote safe practices by pharmacy staff to prepare optimal PN formulations.

## Automated Compounding Device (ACD) Setup

- Use vendor-validated setup for ACD
- Initial - ACD setup performed using 2 staff members:
  - Use independent double-check process
  - Use printed check
  - Verbally affirm all additives and base solutions including
    - name
    - concentration
    - container size
- Use barcode technology to verify products during setup and replacement of ingredients
- Trace tubing from the source container to port where attached to ACD during initial setup and with each change in the source container
- Pharmacist verifies all empty containers when multiple containers of a single additive are used
- Use ACD to deliver all ingredients

## Manual compounding

- Use manual compounding when
  - The volume of PN component to be mixed is less than the ACD can accurately deliver
  - There is an interaction between a PN component and a component of the ACD (e.g., insulin and tubing)

- There is a chemical reaction between PN components that cannot be mitigated by sequencing the addition of ingredients
- There is a shortage of a specific PN components and manual compounding is part of a conservation measure
- Verify and inspect manual additive vials and syringes with the additive prior to adding to PN (Do not use proxy methods of verification such as syringe pull-back method)
- Use check list or sign-off sheet for manual additives

## Standardized, Commercial - Parenteral Nutrition Products

- Open seal/remove bar between the chambers, mix components, and add other components prior to dispensing from pharmacy.

## Review and verify PN order

- After initial order entry
- Prior to injecting manual additives
- After compounding

## Prior to dispensing PN

- Review and compare PN order, label on PN product and compounding label prior to dispensing
- Visually inspect PN