

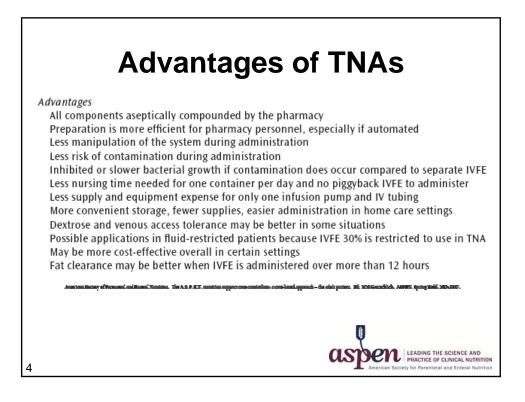


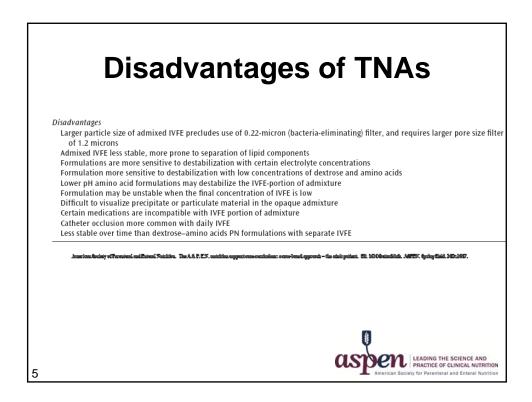


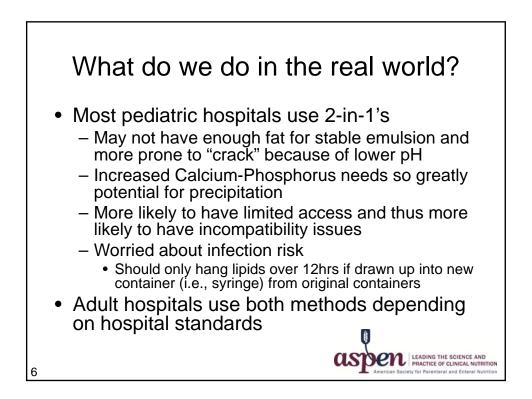
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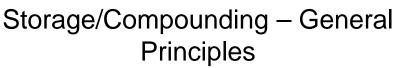
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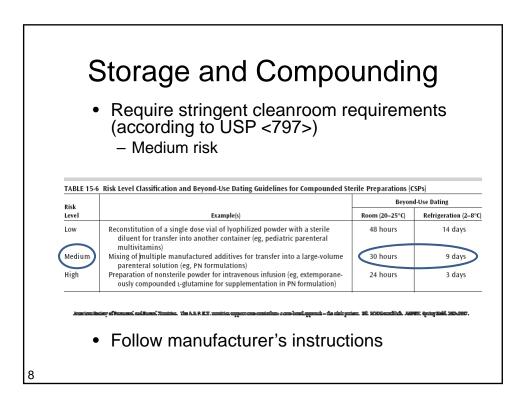






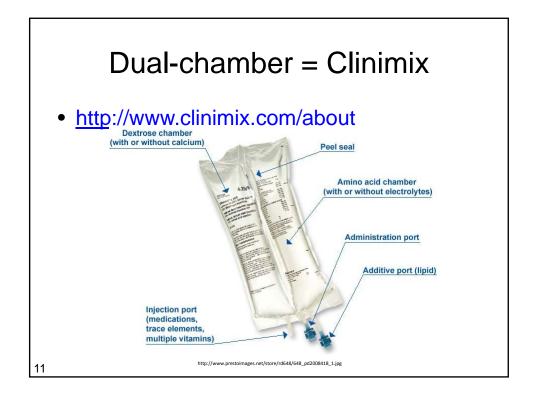
- Each component of PN prescription should be reviewed to ensure balanced PN formulation is provided
- Each component assessed for dose and potential compatibility problems
- All compounded PN formulations should be visually inspected to ensure no gross contamination or precipitation present
- Should follow manufacturer's compounding sequence to ensure safety of preparation

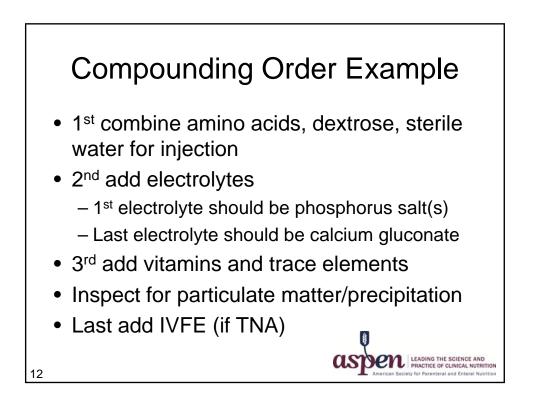
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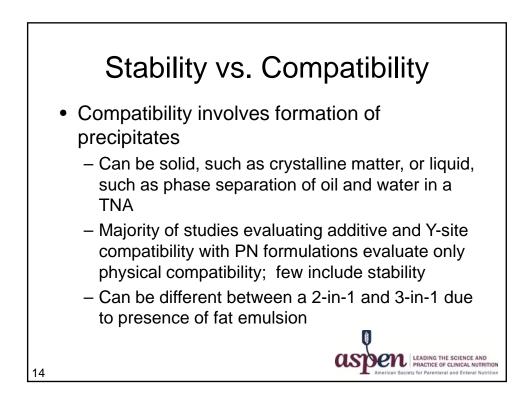


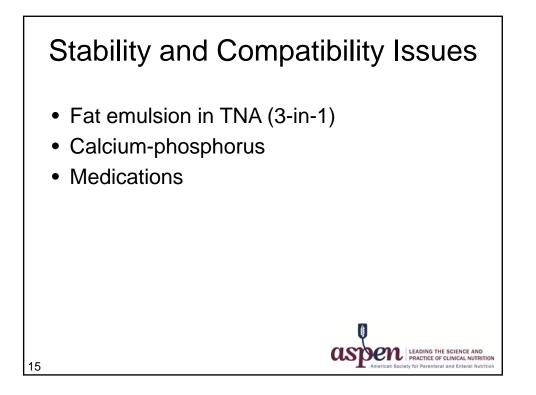


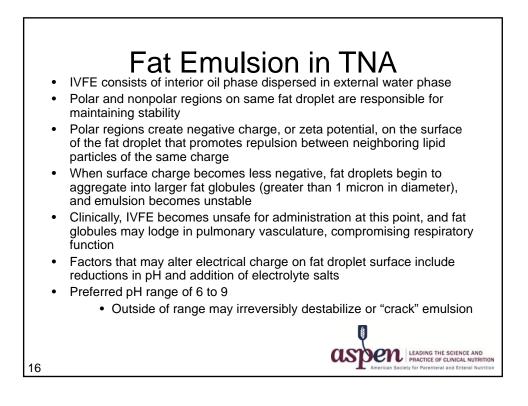


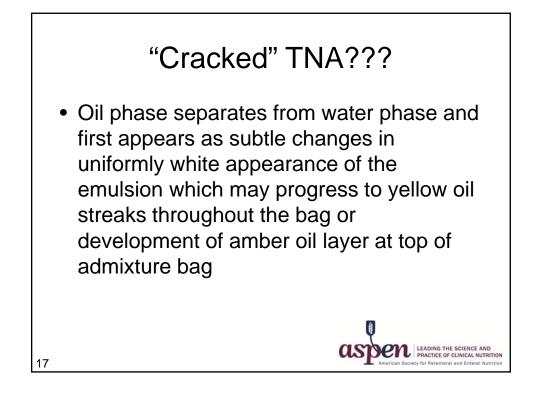


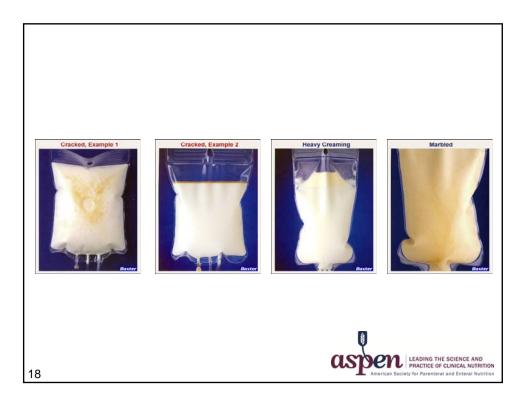










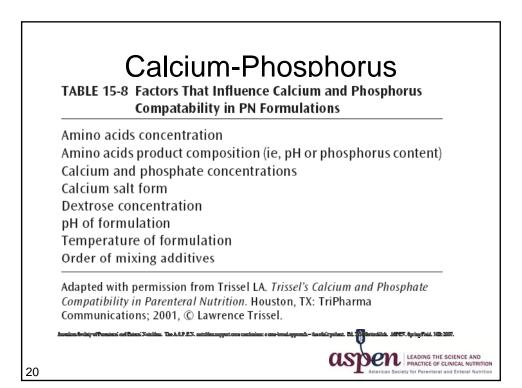


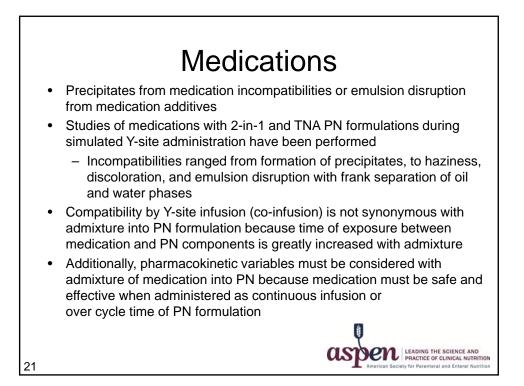
## Calcium-Phosphorus

- In 1994, FDA released safety alert in response to reports of two deaths and at least two cases of respiratory distress associated with administration of PN formulations thought to contain insoluble or unstable intermediate (i.e., calcium phosphate crystals)
- Diffuse microvascular pulmonary emboli containing calcium phosphate were confirmed upon patient autopsies
- Calcium-phosphate solubility is major compatibility concern with PN formulations
- Prescribers must be familiar with limitations for addition of calcium and phosphate
- Compounding pharmacist is then a secondary check for calcium- phosphate solubility

19

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11