

Pharmaceutical Compounding: Learning Objectives

- Describe the historical precedents and incidents that led to the development of FDA scrutiny of pharmacists' compounding
- Differentiate between "Compounding" and "Manufacturing"
- List and interpret the FDA compliance policy guide on pharmacy compounding
- List and interpret the major provisions of the RCW and WAC as they apply to compounding and manufacturing

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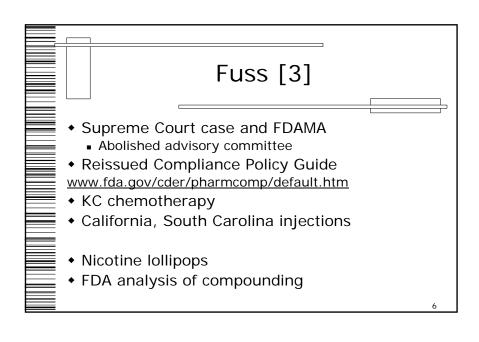
What's the fuss with compounding

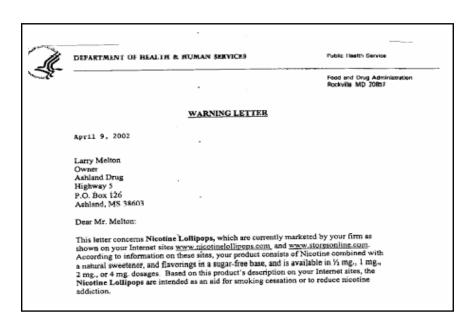
- ◆ Way back when ...
 - FDA recognizes that the traditional role of compounding is *not* manufacturing FDCA 21 U.S.C. 36O(g)(1)
 - Manufacturer obligations under FDCA
 - Safe, effective →NDA, BLA
 - Is pharmacist compounding an end-run on manufacturing requirements?

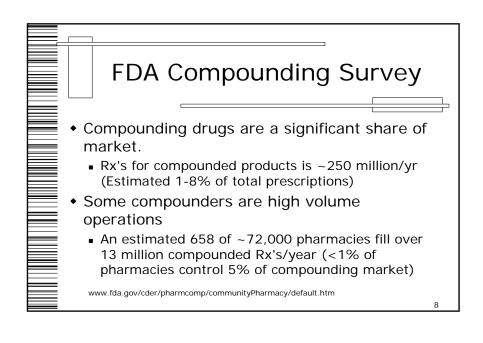
Fuss [2]

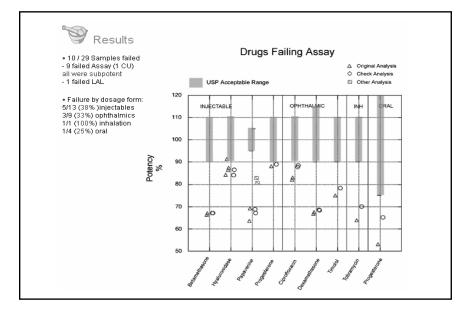
- Schering & albuterol 1980's-'90s
 - Drugs "requiring" administration by a pump, etc., get paid for by HCFA (CMS)
 - Home respiratory services
 - Schering complained to HCFA that it was reimbursing for an unapproved new drug
- HCFA→FDA→ [compounding|manufacturing]?
- Other "disasters" IV solutions, ophthalmics
- Broader issue of safety / efficacy of compounded drugs
- FDA Compliance Policy Guide [aka "9 points of light"]

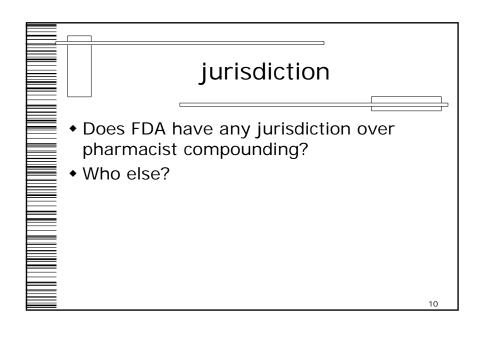
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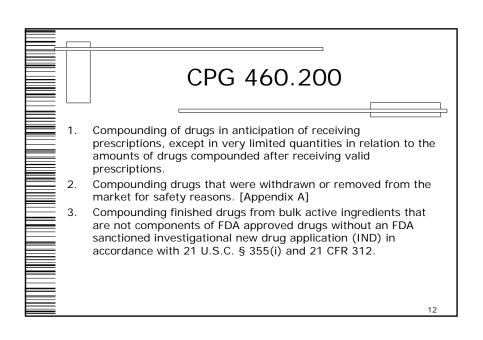


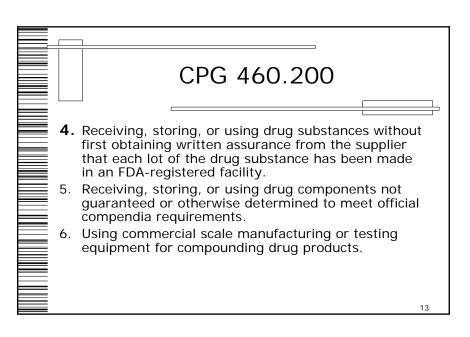


• FDA recognizes that pharmacists traditionally have extemporaneously compounded and manipulated reasonable quantities of human drugs upon receipt of a valid prescription for an individually identified patient from a licensed practitioner. This traditional activity is not the subject of this guidance.

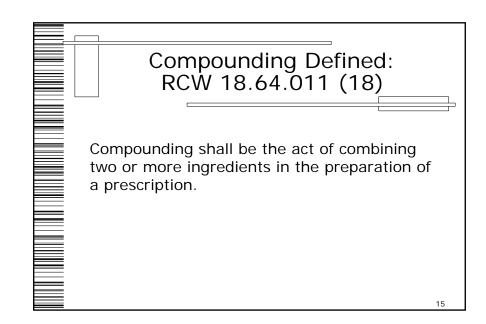
• Otherwise, potential regulatory action

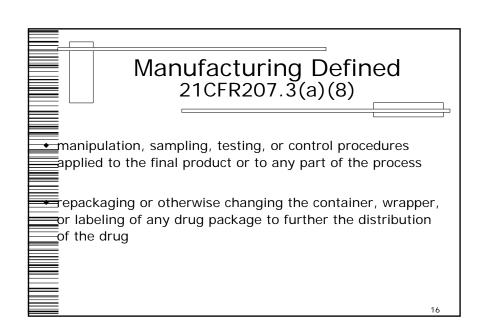
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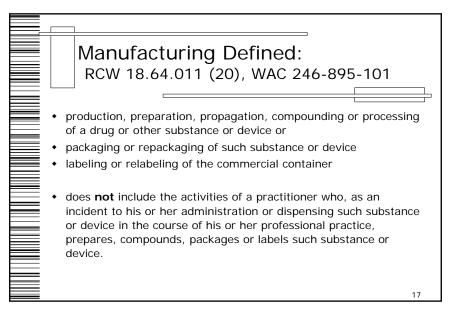




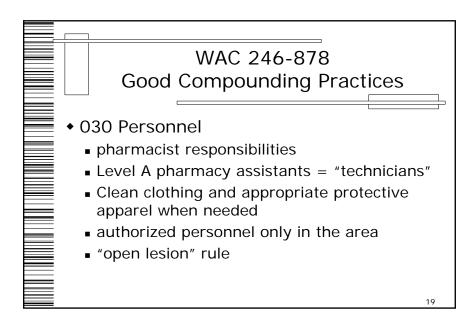
7. Compounding drugs for third parties who resell to individual patients or offering compounded drug products at wholesale to other state licensed persons or commercial entities for resale. 8. Compounding drug products that are commercially available in the marketplace or that are essentially copies of commercially available FDA-approved drug products. 9. Failing to operate in conformance with applicable state law regulating the practice of pharmacy.

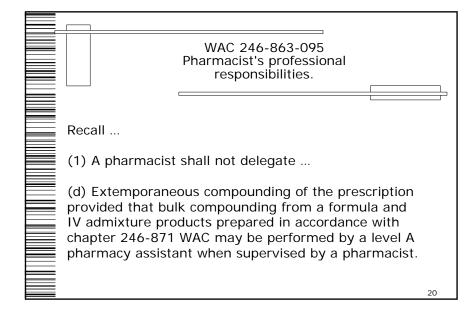






WAC 246-878 Good Compounding Practices • 020 Compounded Drug Products • allows compounding of a commercially available product if prescriber authorizes in writing or verbally and patient agrees • Official compendial ingredients • batch preparation in anticipation of future prescriptions • not for resale, no advertising of specific products • Note: presumption of prescriber→ pharmacist→ patient relationship





WAC 246-878
Good Compounding Practices

• 040 Facilities

• Quality, clean, separate area for sterile compounding

• proper storage of drugs and materials

• adequate lighting and ventilation; potable water; washing facilities

• clean and sanitary; free of infestation from insects, rodents and other vermin

WAC 246-878 Good Compounding Practices

◆ 070 Special Precautions

 dedicated equipment or special procedures for drugs with greater potential for contamination

• 080 Equipment

- clean, sanitary, appropriately stored, inspected, etc.
- routine inspection and calibration of automated, mechanical and electronic equipment

WAC 246-878 Good Compounding Practices

- 090 Control of components and drug product containers and closures
 - handled properly to prevent contamination
 - inert containers (non-reactive, additive, absorptive)
 - written procedures for sterilization and removal of pyrogenic materials followed for sterile products

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WAC 246-878 Good Compounding Practices

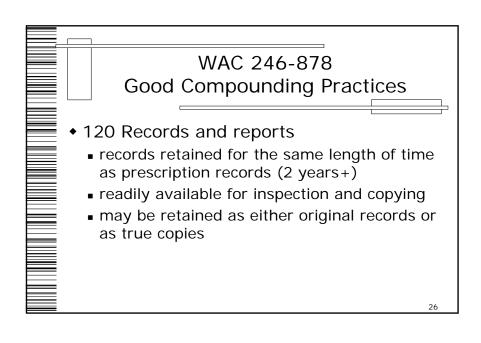
- ◆ 100 Drug Compounding Controls
 - written procedures (compounding logs and master formulas)
 - checking and rechecking weights and measures
 - QA: capsule weight variation, adequacy of mixing, clarity, pH, procedures for sterilization and process validation

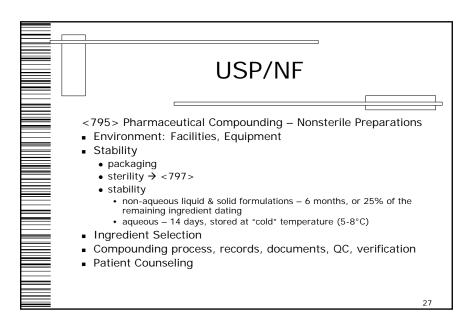
WAC 246-878 Good Compounding Practices

- 110 Labeling control of excess products
 - excess product must be labeled with complete list of ingredients; preparation date; assigned beyond-use date based upon professional judgment, testing, or published data;
 - properly stored and accounted for in compounding records

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VSP/NF – 2
 <797 > Pharmaceutical Compounding – Sterile Preparations
 Requirements essentially match manufacturing
 Heavy emphasis on verification of compounding accuracy & sterility, patient monitoring, quality assurance
 Dating

