Hospital Pharmacy Compounding

Virginia R. Leland R.Ph.
Clinical Pharmacist Drug Services
virdesia@u.washington.edu

Objectives

• Review training for pharmacy compounding
• Discuss products made in a hospital pharmacy setting
• Discuss changing standards for pharmacy compounding

Pharmacy Background

• B.S. UW School of Pharmacy 1969
• University of Washington Medical Center 1974-present
• PCCA Primary Compounding Course 1996
• Certificate in Comprehensive Compounding 2003
• Certificate in Aseptic Technique and Risk Level III 2003
Access to Compounding Training

- School of Pharmacy
- On the job
- Vendor-PCCA
- Certificate Programs
- Board Certification as a specialty???

Drug Services

- Compounds for the UW Medicine system pharmacies
- Purchases pharmaceuticals for researchers within UW Medicine
- Drug Services info share page
- https://eres.lib.washington.edu/course\ page.asp?cid=1805&page=01

History of Compounding

- Pharmacy Compounding in the Bible
- 19th century many prescriptions compounded
- Post 1950, pharmaceutical companies manufacture a large percentage of drug products
Compounding Today

- Increasing numbers of discontinued products
- Patients that benefit from new drug or new drug applications
- Patient special needs
- Increasing drug shortages

Hospital Compounding

Non-Sterile Compounding

Suspensions
Solutions

Cream

Hospital Compounding

• Sterile Products
Antibiotic Beads

LET Gel

Hospital Compounding

• Clinical Trials
New Practice Standards

- Deaths have occurred from some pharmacy prepared sterile products
- United States Pharmacopoeia 2004
  Chapter 797

References

- United States Pharmacopoeia 2004
  www.usp.org
References

- USP Pharmacists’ Pharmacopeia 2005

Reference Compounding Book

- The Art, Science and Technology of Pharmaceutical Compounding

Reference Journal

- International Journal of Pharmaceutical Compounding
- Loyd V. Allen, Editor
Reference Compounding Book

- Stability of Compounded Formulations

Reference for Sterile Products

- Handbook on Injectable Drugs
- The Tenth Edition is pictured.

Questions?

http://courses.washington.edu/pharm304/