







Clinical Pharmacy Services

An Introduction to the World of Pharmacy



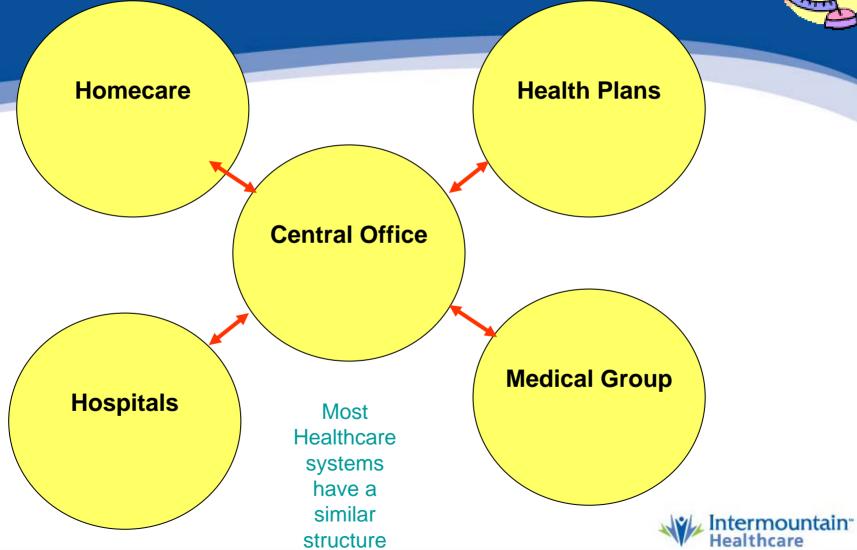






The World of Pharmacy





Intermountain Medical Group



Retail

20 Retail Pharmacies

Clinics

Primary Care &
Specialty Care



Community Pharmacy







- Patient training for diseases such as:
 - Diabetes
 - Asthma
 - Hypertension
- Consult with:
 - Physicians
 - → Nurses
 - Physician Assistant's
 - Medical Assistants
 - → Physical Therapists, etc.



Community Pharmacy



- Detailed & Private Patient Medication Counseling
- Personal patient help with Medicare D & insurance 3rd parties.
- Physician & Health Plan formulary issues.
- Help Prevent Adverse Drug Events
- Professional & Clinical Practice Setting
- Professional Experience Programs with Schools of Pharmacy





Community Pharmacy in an Integrated System

- Part of integrated health system = special benefits
 - → Increased access to patient information
 - Easier to monitor patients
 - → Help transition patients from hospital to home
 - → For example, Liver transplant patients who have very complex medication regimens
- Help ensure patients are on optimal therapy
 - → For example, all patients post heart attack are on the appropriate medications that are know to improve their outcomes
- Close to prescribers (or pharmacist may be prescribing under approved protocols)
 - Develop excellent relationships
 - → Easier access for questions and recommendations



Ambulatory Pharmacy

- Pharmacist or Physician run
 - Physical Assessment
 - → Pharmacist/Physician agreements for medication orders
 - Order lab tests
 - Patient education
- Some Pharmacists integrate ambulatory clinics with retail
- Disease state certifications
- Billing for services



Homecare



Infusion Services

Hospice



Health Plans



Health Maintenance

Disease State Management

Formulary

Health Plan Administration



Health Plans



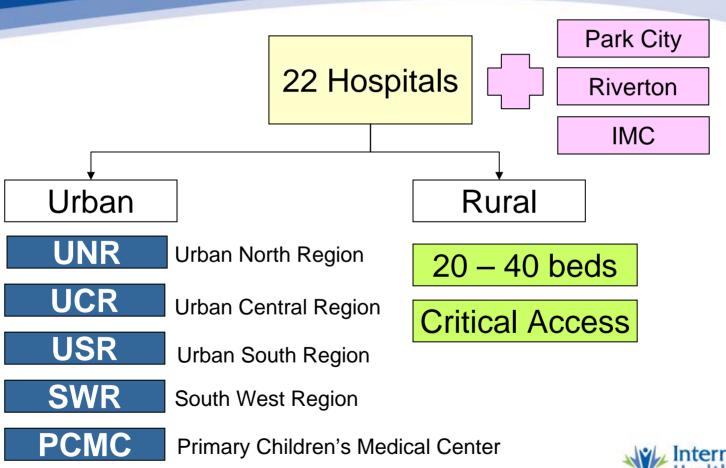
Brieana Buckley, PharmD. teaching technicians about a new pharmacy benefit.

- A typical day....
- P&T Presentation Preparation
- Team Based Guideline Development
- Physician Detailing
- Drug Expense Trending
- Prior Authorization Review



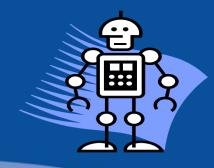
Hospitals







Hospital Pharmacy

















- Distribution of medications
 High level of technology
 - Robots
 - Automatic medication cabinets
 - Mostly technicians under pharmacist supervision
- Clinical Patient care
- Education
- Drug information



Adult Critical Care

Discussing Patient issue with RN





Patient Rounds

- Monitor Patients
 - → Labs & Drug levels
 - Physical condition (kidney, liver..)
- Protocols & Medication orders
- Safety issues
- Medication effects
- Meeting patient outcome goals
- Rounding with medical teams
- Preventing/treating ADEs
- Assisting with codes
- Drug Information
- Research
- Troubleshooting



Cardiovascular Pharmacy

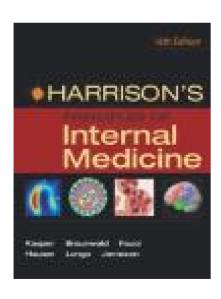








Internal Medicine







Pediatric Pharmacy



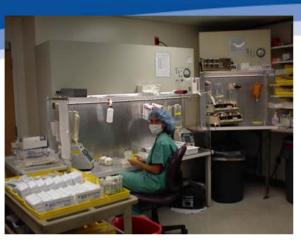


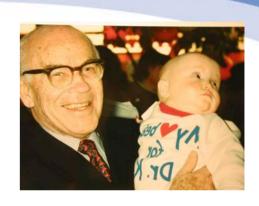






Neonatal Pharmacy











Education





Physician teaches students, residents, & Pharmacists about Acute Respiratory Disease

- Patients
- Medical students
- Pharmacy students
- Physicians
- Pharmacy Technicians
- Nurse Practitioners
- Respiratory Therapists
- Many others!





Central Office

Administration

System-wide Formulary & Purchasing

Clinical Support

Operational Support

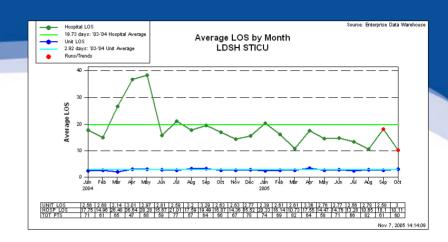
Information System Development & Support

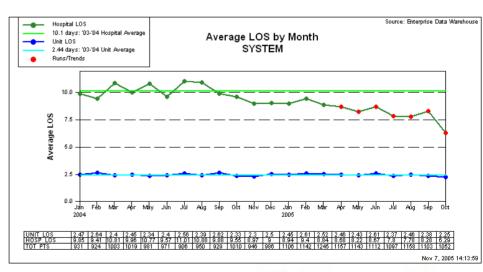


Pharmacy Management

- Medication safety
- Clinical Programs
- Formulary
- Education
- New initiatives
- Much more....!









Data Management



Vance Loertscher, RPh Data Manager

- Data reports
- Clinical reports
- Research
- Pharmacy & Therapeutics Committee support
- Automation Strategy & use
 - → Robots
 - → Automatic dispensing cabinets
- Drug Use Evaluation



System Development & Implementation





- Computer system design
- Clinical decision support tools
- Database design
- Database management
- System testing
- Education & training
- Medication order sets
- Patient care protocols
- Clinical Patient Care tools



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Opportunities

- Shadowing observe
- Internships work
- Clerkships rotation
- Residency post graduate
- Certification post graduate



All provide excellent opportunities to experience the different avenues of pharmacy



Residency

Kelly Terrill, Pharmacy Director





Back to the Future

- Lifelong Learning
- Residency Training
- Board Certification
 - Pharmacotherapy
 - Nuclear Pharmacy
 - Nutrition Support
 - Oncology
 - Psychiatry
 - Others....



Getting Ready....



- There's a whole world of different options for Pharmacy Professionals
 - Explore
 - Shadow
 - Network
- Many Exciting Opportunities......
 - → Be Proactive
 - Ask Questions!
 - Let us know how we can help you
 - Opportunities to get involved with the Utah Society of Health-System Pharmacists - USHP (no charge to students)



