Using Lab Values to Support Medication Management

Welcome
We will begin shortly.

Pharmacy Practice Webinar Series Sponsored by:

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Upcoming Pharmacy Practice Webinars

• Successful Integration of Pharmacy Technicians
• Making Immunization a Core Service in Your Pharmacy
• Minor Ailments
• Documenting Pharmacy Interventions in a Busy Dispensary
Using Lab Data in Practice

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Adjunct Assistant Professor, School of Pharmacy, University of Waterloo
Overview

• My practice
• When I use lab data
• Target drugs
• Cases
• Kimberly Sentes
My practice

• Family Health Team
  • 11 Family physicians & 2 Nurse practitioners
  • RN, Dietitian, Social Worker, Resource Manager
  • 15,000 patients

• My role
  • Smoking cessation program
  • Medication reviews
  • Pain consultations
  • Renew medications
When I use lab data

- During med reviews
- Before renewing medications
- Responding to questions
  - Rule out drugs as cause of abnormalities
• Drugs given to affect lab parameters
  • Diabetes
  • Cholesterol
  • Iron supplements
• Drugs given that affect lab parameters
  • ACEI/ARB
  • Diuretics
• Drugs with narrow therapeutic ranges
  • Phenytoin

Target drugs
Case 1: Safety monitoring

• 63 year old man
• Request to renew irbesartan and hydrochlorothiazide
• Lab data thought process:
  • ARB effect on Creatinine
  • ARB and HCTZ effect on Potassium
Case 2: Effect monitoring

- 51 year old woman
- Request to renew metformin 1000mg bid
- Lab data thought process:
  - Check for control of glucose
  - A1C, FBS
Case 3: Target drugs

- 65 year old woman
- Remote history of seizure
- Taking phenytoin 100mg bid x ~ 15 years
- No seizures since starting
- Lab data thought process:
  - Phenytoin level
  - Came back at 20; Therapeutic range = 40-80 μmol/L
- Recommendation to trial taper and discontinuation
Contact

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Utilizing Lab Results: A Community Pharmacy Approach

Kimberly Sentes, Pharmacist
Outline

1. Integrating lab results into community pharmacy practice
2. Enhancing patient care
3. Examples
4. Resources
• Accessing the eHR viewer…

• **Who?** All patients

• **When?** Depends on your workflow, most challenging part!

• **Why?**
  • to enhance patient care
  • to assist pharmacists in detecting drug-related problems
  • to utilize our knowledge base to its full extent

• **How?** eHR training, lab data courses, ADAPT

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**Integrating Lab Results**
• Tool for determining drug-related problems (pharmacists are the drug experts!)

• Level One Prescribing and onwards

• Medication reviews for Long-Term Care residents (no more driving to the nursing home to check paper charts 😊)

• SMAPs/Medication Assessments

Enhancing Patient Care
Mrs. Picture of Health

63 year old, female
UTI, uncomplicated

Prescription for Macrobid®
from the walk-in clinic

Example
Mr. Pain in the Knee

96 year old, male
arthritis

Prescription for Celebrex® that he had been receiving regularly for one year.

Example
Mr. Can’t Find a Doctor

44 year old, male
Type 2 Diabetic

Prescriptions for insulin, metformin, ramipril, atorvastatin, acyclovir

Example
• Rx Vigilance (Canadian); Lexi-Comp (US)

• Rx Files; Pharmacist’s Letter

• “Basic Skills in Interpreting Laboratory Data, Fifth Edition” by Mary Lee

• Colleagues: pharmacists, physicians, nurses and nurse practitioners, CPhA’s Primary Care Pharmacy Specialty Network (PC-PSN)

Resources
• Kimberly Sentes
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Questions

• Please contact Kristina Allsopp at cpd@pharmacists.ca
Thank you!

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