



Using Lab Values to Support Medication Management

Welcome
We will begin shortly.

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

Overview

- 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

My practice

- During med reviews
- Before renewing medications
- Responding to questions
 - Rule out drugs as cause of abnormalities

When I use lab data

- 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

- 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 1: Safety monitoring

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

Case 2: Effect monitoring

- 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 $\mu\text{mol/L}$
- Recommendation to trial taper and discontinuation

Case 3: Target drugs

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Contact



Utilizing Lab Results: A Community Pharmacy Approach

Kimberly Sentes, Pharmacist

1. Integrating lab results into community pharmacy practice
2. Enhancing patient care
3. Examples
4. Resources

Outline

- 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 it's full extent
 - **How?** eHR training, lab data courses, ADAPT

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





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