



QRC: 2933

Price

One Day : \$330 inc. GST

Two Days: \$506 inc. GST

Date

30 - 31 Oct 2017

Venue

Rockhampton Leagues Club

Cnr George and Cambridge Streets ,
Rockhampton, QL, 4700

CPD Hours

11 Hours | 15 Mins

Medicines: Improve Your Knowledge 2017

2 Day Seminar: Absorption, Distribution, Metabolism and Excretion; Routes of Administration; Dosage Adjustment, Safe Medication Practices; Evidence-Based Practice; Important Classes of Medicines and much, much more ...

Need for Program

The **administration of medicines** is one of the riskiest areas of nursing practice and requires a thorough understanding of pharmacodynamics and pharmacokinetics. In this context it is imperative that **drug interactions** and unwanted **side effects** are readily identified. The combination of new and current medicines require nurses to continually expand their knowledge and that of their patients. The onus for safe and quality practice remains on the professional who handles the medicines to source and engage in evidence-based education.

Purpose of Program

The purpose of this seminar is to provide up-to-date, evidence-based knowledge about the safe and **quality use of medicines** in nursing practice.

Learning Outcomes

At the conclusion of this program it is expected that the participants will be able to:

- Explain to a student nurse or colleague where to find high quality sources of up-to-date information relating to new medicines
- Administer medicines correctly to achieve best possible patient outcomes.
- Apply knowledge of pharmacodynamics and pharmacokinetics to prevent unwanted side effects and errors.
- Know counselling points for commonly used groups of medicines, (including analgesics, antibiotics and antidepressants) for patient education.

Program Schedule

Day One

8:30am - Registration and Refreshments

9:00am

Medicines in Context

This session describes the place of **medicines** within the healthcare system and how the quality supply and use of medicines is maintained.

- The concept of 'essential medicines', the National Medicines Policy and the partners involved in its implementation
 - What are the roles of prescribers, pharmacists and nurses in implementation?
 - Patterns of medicine use in Australia
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9:30am

Medicines In and Medicines Out

This session looks at how the body acts on a drug and how drugs act on the body. You will gain an understanding of why this is essential knowledge for anyone administering medicines, and how these factors impact on clinical practice.

- Absorption and Distribution
 - Getting a drug into the body and to the various organs: why does **drug absorption** matter?
 - How does a drug get to its intended site of action?
- Metabolism
 - Where does **drug metabolism** usually occur?
 - Why is it important to understand drug metabolism?
 - Why are some drugs activated after metabolism?
- Excretion
 - Which organs are important routes of **drug excretion**?
 - Why is clearance rate important?
- Clinical implications
 - What is the relationship between the effects of a drug and its concentration in the body?
 - What happens when we dose someone repeatedly with a medicine?
 - Why is clearance rate important?
 - What is meant by '**half-life**' and why is it important?
 - What is meant by '**steady state**'?
 - What is meant by '**therapeutic index**'? How is it relevant to medication safety?
 - What is the effect of a loading dose?
- How do drugs work?

- Action on receptors or other targets
 - Agonists and antagonists
 - Why do side effects and drug-drug interactions occur?
 - Why do so-called 'selective' drugs have effects on other receptor sites?
 - What are adverse drug reactions and how are they related to drug dose?
 - **Dosage** adjustments
 - Ensuring the right dose is important in patient safety. Why are different doses suitable for different people?
 - What are the issues to consider in drug dosing?
 - Why is this so important when administering medicines?
 - Which groups require special attention and why? e.g. paediatric and geriatric patients
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10:30am - Morning Tea and Coffee

11:00am

Getting Medicines to Where They Work

This session will review the different dosage forms and **routes of administration**, including:

- Oral medicines e.g. tablets and capsules
 - Parenteral administration e.g. Intravenous, intramuscular and subcutaneous injections
 - Transdermal delivery systems
 - Rectal administration
 - Inhaled medicines
 - Nasal administration
 - Ocular administration
 - Topical medicines e.g. patches, creams, ointments and gels
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11:45pm

Analgesics

The first of the drug group session will look at commonly prescribed **analgesics** and cover:

- Pathophysiology of pain
 - Differentiating between the types of pain
 - Pain assessment
 - Major drug classes used in the treatment of pain
 - Main practice points for various pain medications
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12:30pm - Lunch Break and Networking

1:15pm

Maintaining Safe Practice

This session will introduce and explore critical issues in modern medicines use with focus on quality and safety. Concepts to be considered and put in context of what it means for the patient include:

- Ensuring the right dose is important in patient safety, so why are different doses suitable for different people?
 - Where things go wrong: Medication-related problems
 - Where errors occur
 - Strategies to reduce errors
 - Useful sources of CPD in medication safety
 - Review of basic principles of calculations
 - High-Risk Medications

Once the problems have been described an exploration of systems approaches and resources available for health care professionals will be presented, including:

- Poly-pharmacy and the appropriate use of medicines, including problems connected with multi-drug prescribing
- The role of outside pharmacy consultations in residential aged care facilities
- Home medication reviews (HMRs)

3:00pm - Afternoon Tea and Coffee

3:15pm

Cardiovascular Medicines

Cardiovascular medicines can be daunting to work with as consequences when things go wrong may be profound. They are often seen as complex and challenging. This session will explore a number of important groups of cardiovascular medicines in common use including:

- Heart failure
- Hypertension
- Atrial Fibrillation
- Cardiac Rhythm
- Dyslipidaemia
- Other cardiac conditions

4:00pm - Close of Day One of Program

Day Two

9:00am - Commencement of Day Two

9:00am

Finding Credible Information About Drugs

This session examines an evidence-based approach to the selection and use of medicines, and explains how to analyse the large amount of information available. What are the most reliable and up-to-date sources and how do you assess their credibility?

- National Treatment Guidelines
 - National formulary
 - Other resources
 - Engaging with evidence – taking a structured approach to filling the information gaps we come across in practice
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10:30am - Morning Tea and Coffee

11:00am

Antidepressants and Hypnotics

This session looks at medications for the treatment of **depression** and **insomnia** and covers:

- An overview of depression
 - Major drug classes used in the treatment of depression
 - How drugs in the various classes exert their action on the body
 - Most common effects and side-effects
 - Main practice points for various antidepressant medications
 - An overview of insomnia
 - Non-drug approaches to treatment of insomnia
 - Major drug classes used in the treatment of insomnia
 - How drugs in the various classes exert their action on the body
 - Most common effects and side-effects
 - Main practice points for various hypnotics
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11:45am

Medicines for Diabetes

This session looks at medications for the treatment of **type 2 diabetes mellitus**