

U3A

Dunedin Charitable Trust

A LEARNING OPTION FOR THE RETIRED

in association with



Series 3 20

MEDICINES AND "MAGIC"

**Dates: Thursdays, 8, 22, 29 September, 6 and 13 October,
Wednesday, 14 September 2011**

**Times: Thursdays from 10.00 am – 12 noon
Wednesday, 14 September from 2.15 pm -4.15 pm**

PLEASE NOTE THE DIFFERENT DAYS AND TIMES FOR THIS COURSE

Venue: Leith Bowling Club, Duke Street, Dunedin North

Enrolments for this course will be limited to 100

Course Fee: \$40.00

Tea and Coffee provided

Course Organiser: John Burton (477 7371)

**Course Assistants: Norma Restieaux (477 4607)
Sue Harvey (471 0546)**

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You may apply to enrol in more than one course. If you wish to do so, you must indicate your choice preference on the application form, and include payment of the appropriate fee(s).

All applications must be received by noon on Wednesday, 10 August and you may expect to receive a response to your application on or about 19 August.

Any questions about courses after 19 August should be made to the Secretary, U3A Dunedin, telephone 471 9913 or on email at <graysinn@clear.net.nz>

Please keep this brochure as a reminder of venue, dates, and times for the courses for which you apply.

MEDICINES AND "MAGIC"

(paraphrase from Glenn Colquhoun)

The screening, identification, development, manufacture, clinical use and population implications of medicines have far reaching consequences for healthcare. This course will cover some of these issues and review innovative methods and research in pharmacy that are leading the way to better health outcomes. It will be presented by staff of the School of Pharmacy.

The programme

Thursday, 8 September 10am - 12 noon.

History of Pharmacy (1 hour) + Fundamentals of medicine delivery (1 hour)

"From pills and potions to pharmaceuticals: medicines and pharmacy through history". (*Sue Heydon*)

"How do medicines work and how do they find their way to their targets?" This lecture will discuss some of the fundamentals of drug action and drug delivery and use case studies to exemplify important concepts. (*Ian Tucker*)

Wednesday, 14 September 2.15pm - 4.15pm .

Drug development (1 hour) + Evidence basis of medicines (1 hour)

"Current dilemmas and challenges facing modern drug development". It can cost up to 1 billion \$US and take 10 to 15 years to develop a new drug. Why is it taking so long and why does it cost so much? (*Helen Winter*)

"The evidential basis of medicines". What is evidence-based medicine? Where does the evidence come from? How good is the evidence? Where does evidence-based medicine go wrong? (*Stephen Duffull*)

Thursday, 22 September 10.00am - 12noon

Biopharmaceutics Symposia "Delivering drugs to the brain"

The brain is our control centre so it has highly complex protective mechanisms allowing entry of useful chemicals (e.g. glucose, amino acids...) while excluding others. Drugs are chemicals and many are excluded from the brain. What strategies are currently used and what new strategies are being investigated to get drugs into the brain? (*Ian Tucker and panel*).

Thursday, 29 September 10.00am - 12noon .

Pharmaceutical Science Symposia "From molecules to medicines"

Social Pharmacy Symposia "Pills and People"

This session will explore how people use medicines in the community. Studies have shown that many people do not follow the directions when they use medicines. How do people decide whether and how to use their medicines? Do people from different cultures have different beliefs about medicines? Does this matter? How can we improve use of medicines in the community? (*Pauline Norris and panel*)

Thursday, 6 October 10.00am -12 noon.

Clinical Pharmacy Symposia "The time course of medicines effects"

The patient is the focus. What the patient wants to know is how quickly will the medicine work and how long will the effects last? What the practitioner wants to know is what dose, and schedule, will best meet the patients' needs? These concepts are resolved in clinical pharmacy. (*Stephen Duffull and panel*)

Thursday, 13 October 10.00am -12 noon.

Drugs are designed to have main effects beneficial in the treatment of diseases, but no active compound is without side effects. How can we formulate these molecules to maximize their benefits and to minimize side effects? How can we design delivery systems that are safe, effective and convenient to use? (*Thomas Rades and panel*)