

Haematology Association of Ireland (Nurses Group)

Medicines Made Simple

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The Queen's University, Belfast

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Airport Hilton Hotel Dublin

Session agenda:

***Nature of Medicines**

***Nursing Perspectives**

***Accountability**

***Understanding the Foundation Concepts**

***Applying the Concepts in Haematology**

JOKE !!

The Nature of Medicines - Poisons ?

by definition a poison:

***Any agent which, when introduced into the animal organism, is capable of producing a morbid, noxious, or deadly effect upon it**

***a substance that inhibits the activity of another substance or the course of a reaction or process**

***A substance that inhibits another substance or a reaction**

Medicines – Nursing Perspectives

***Administer**

***Advise**

***Educate**

***Evaluate**

***Prescribe**

Medicines – Accountability

***Professional**

***Personal**

***Organisational**

***Continuing Professional Development**

Wisdom is in the presence of the one

who has understanding

Proverbs 17 v 24

Understanding The Foundation Concepts

The Three p's

***Pharmaceutics**

***Pharmacodynamics**

***Pharmacokinetics**

PHARMACODYNAMICS

Interaction of drug molecules with target molecules

***Concept of molecules**

***Concept of cells and tissues**

***Concept of molecular nature of the human body**

***Concept of target molecules**

***Concept of interaction between drug and target molecules**

***Concept of side effects and toxic effects**

PHARMACEUTICS

Drug creation and development

***Concept of drug molecules**

***Concept of drug discovery**

***Concept of biotechnology**

***Concept of drug development**

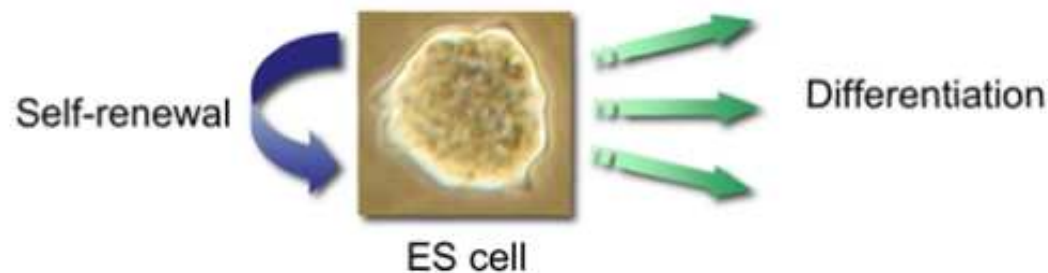
***Concept of Clinical Trials**

Understanding the molecular mechanisms that regulate cell function is essential if novel therapeutic targets are to be defined and validated.

Prof M.J.Welhan Co-director of the Centre for Regenerative Medicine

Research pursuing the following questions:

(i) what are the molecular signals regulating embryonic stem cell pluripotency and self-renewal? and (ii) which signals control lineage specific differentiation during haemopoiesis?



PHARMACOKINETICS

Impact of body structure and function on drug molecules

***Concept of drug molecule Administration**

***Concept of drug molecule Absorption**

***Concept of drug molecule metabolism**

***Concept of drug molecule Distribution**

***Concept of drug molecule Elimination**

APPLYING THE CONCEPTS WITHIN HAEMATOLOGY

***Identify the target molecules relating to the range of pathological processes affecting the structural and functional aspects of the haematological system i.e.:**

-Haematopoiesis

-Coagulation

-Haemolysis

***Identify the specific drug molecules designed to interact with their respective target molecules**

- *Identify the possible side effects and toxic effects**
- *Consider issues relating to administration and subsequent absorption**
- *Consider the impact of polypharmacy and OTC medications in relation to drug interactions**
- *Determine renal and hepatic function in relation to metabolism and elimination**