

Development of a Process Oriented Guided Inquiry Learning (POGIL) Method for the Teaching of Pharmaceutics in a Novel Integrated Pharmacy Curriculum at RCSI

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Rationale

- The School of Pharmacy at RCSI, introduced a novel integrated Pharmacy program (MPharm) in 2015 with integrated teaching of science and practice based material.
- Pharmaceutics, the science of dosage forms, is a specialist core science subject in the curriculum and is generally taught by didactic lectures and labs.
- The aim of this study was to apply the principle of student centred learning (SCL) strategy for the teaching of Pharmaceutics by using POGIL
- A specific and conventional pharmaceutics topic; 'Formulation of tablets containing the proton pump inhibitor, Omeprazole' was selected for development as a POGIL.



Methodology







(compartments) are there to believe contains the drug? Compare your observation with the description in the SPC, sections 2 and 3 Break of 5 minutes to go through answers from section A

Describe the tablets in the table provided below. You can include a drawing for clarity Losamel[®] 20mg tablet

Losec Mups®

Section A: Examination of the tablets (10 minutes)

Description

(3822995)E PC/012 replaces n/o SUMMARY OF PRODUCT CHARACTERISTICS

NAME OF THE MEDICINAL PRODUCT

Losamel 20 mg gastro-resistant tablets

QUALITATIVE AND QUANTITATIVE COMPOSITION

One gastro-resistant tablet contains 20.0 mg omeprazole.

Excipient(s) with known effect Each gastro-resistant tablet contains 39.00 mg lactose monohydrate. For the full list of excipients, see section 6.1.

PHARMACEUTICAL FORM

Gastro-resistant tablet. Round, light grey coated tablets.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Omeprazole gastro-resistant tablets are indicated for:

- Adults

- <u>Adults</u> Trastment of duodenal ulcers. Prevention of relapse of duodenal ulcers. Trastment of galaxie ulcers. Prevention of relapse of gashic ulcers. Is combination with supportive arabitotics, Helicobacter pylon' (H. pylon) enablation in peptic. ulcer disease.

- uter disease. T reatment of NSID-associated gastric and duodenal ulcers. P revention of NSID-associated gastric and duodenal ulcers in patients at risk. T reatment of route coephagains. Long-term management of patients with healder reflux osciphagitis. T reatment of symphonic gastric-exclipage reflux disease. T reatment of Zollinger-Ellion oyndrome.



Findings

- Instead of a didactic lecture on the manufacture of the tablets, students actively compiled the manufacturing process through exploration of the tablets, PIL and their previous knowledge
- It allowed students to engage in critical thinking, problem solving, information processing and teamwork as it is small group based
- This is an ongoing project which will be further improved and evaluated for its impact on students' learning











