

*Handbook for Community Pharmacy Practice*

(PHR 1101, 2103, 3107, 4112)

Co-ordinators:

Professor Anthony Serracino-Inglott

Professor Lilian M. Azzopardi

Department of Pharmacy  
University of Malta

October 2007

**TABLE OF CONTENTS**

Guidelines .....	3
Marking scheme.....	6
Bibliography.....	7
List of pharmacological classes.....	8
Examples of entries that could be tackled by first year students	9
Sample tutorial sheets.....	10

## GUIDELINES FOR COMMUNITY PHARMACY PRACTICE (1<sup>st</sup> – 4<sup>th</sup> years)

1. First, second, and third year students are required to attend a 3 hour session per week at a community pharmacy during **first and second** semesters. Fourth year students are expected to attend a 3 hour session a week at a community pharmacy during the second semester.
2. At the beginning of each academic year (by 15 October) students are requested to fill in Form A to apply for approval to start attending a pharmacy for practice. The students are required to write down on the form the day of the week when they will be attending the pharmacy. Any change should be reported to the Pharmacy Department.
3. Students are expected to start attending the pharmacy as soon as **Form A** is submitted to the Department of Pharmacy. Students should collect a copy of **Form B**.
4. Students should keep a Log Book whereby an entry for attendance at the community pharmacy is recorded. Each entry should be counter-signed by the pharmacist on duty when the student attends the pharmacy. The pharmacist on duty at the pharmacy should sign **Form B** for each session attended by the student.
5. **Form B** should be kept by the student and presented with the log book.
6. In the Log Book the students are expected to present:
  - organisational procedures such as registers kept in the pharmacy
  - examples of products found at the community pharmacy tackling different pharmacological classes. Examples of drug classes discussed during lectures should be presented. A comparative approach to examples within the same pharmacological class is expected. A list of classes of medicines which are expected to be covered during the first and second year of the pharmacy course is attached.
  - availability and intended use of medical devices available in the pharmacy
  - factual day to day experiences of practice in the community pharmacy eg system of ordering, checking expiry dates, monitoring stock
  - *for first years:* a suggested list of topics that could be covered in log-book entries is attached in this handbook
  - *for third and fourth year students:* case studies which include a brief description of the case, medicines dispensed, and advice given

7. Students are being left free to decide on the presentation and organisation of the Log Book. First year students are expected to present pharmaceutical product examples rather than case studies whereas second, third, and fourth year students are expected to present more case studies than pharmaceutical product examples.
8. When examples of pharmaceutical products are presented, students are expected to adopt a comparative approach preferably using a tabular format. For each product the following factors should be considered and compared for each product considered:
  - uses
  - formulations and strengths available in the pharmacy
  - dosage regimen
  - mode of action
  - cautions
  - contra-indications
  - common side-effects
  - price for treatment
  - manufacturer
  - local importer
9. The log book entry is expected to be a summary of what was carried out during the practical session including information obtained during the session. There is no need to copy information from product literature, British National Formulary, and Martindale: The Complete Drug Reference. However, page references are encouraged. Students should refer to the literature and draw comparisons between products available at the pharmacy.
10. Reference material used should be scientifically valid and robust. Sources from the internet should be unbiased and of a reputable source.
11. Students will attend for *Log Book Tutorials* according to a roster which will be issued from time to time. Tutorials will be held during both semesters for first, second and third years and during the second semester only for fourth years. Students should attend for the tutorials according to the roster and no changes are allowed. Any absence should be discussed with course co-ordinator.
12. For each tutorial the student is expected to present not more than three log book entries. For each entry the work presented should be endorsed by the

corresponding signature of the pharmacist present at the pharmacy at the time of the practical session. The corresponding **Form B** should also be presented. When no signature is presented, the log book entry will not be corrected and the student will be asked to present it at the next tutorial.

13. Students will be assessed on the material presented and also in response to questions put forward by the pharmacist correcting the log book entries. Questions may cover any material in connection to that presented in the log book.
14. For each log book entry a mark is given out of 10 points. The mark is recorded on the Log Book and initialed, and on the sheets available in the tutorial room. The signature of the pharmacist carrying out the assessment is required.
15. Students are required and should be encouraged to attend a pharmacy at least for a 3 hour session per week.

**MARKING SCHEME- Community pharmacy practice tutorials**

Discussion	6
Material and layout	2
Critical analysis	2
<i>Total</i>	<i>10</i>

1. Check correct spelling of medicines (generic and trade names). For generic names use Recommended International Non-Proprietary Name (rINN) as required by European Law. Any spelling mistakes in names of drugs/products should be heavily penalised (deduct 4 marks)
2. For entries presenting examples of pharmaceutical products, entry should be based on a comparative approach with proper identification of differences and similarities. Issues to be considered include: indications, cautions, contra-indications, side-effects, formulations, dosage regimen, price for treatment. Marks should be deducted for incorrect or incomplete comparisons.
3. For entries presenting a case study, emphasis should be placed on pharmaceutical aspects including equivalent products highlighting differences and similarities of the products considered. Marks should be deducted for incomplete comparisons.
4. Examples of medicines included in log book entry should be available in a community pharmacy. Only practical issues pertaining to community pharmacy practice should be considered in the log book. No marks should be assigned for issues not related to community pharmacy practice or for material that does not reflect practical session in the pharmacy. Any material which presents background literature should not be included in log book entry and will not be considered for marking purposes.
5. During the tutorial student will be asked to discuss points presented in the log book entry and student will be awarded marks accordingly.

### **Bibliography**

Azzopardi LM. Validation Instruments for Community Pharmacy: Pharmaceutical Care for the Third Millenium. Binghamton, New York. Pharmaceutical Products Press. 2000.

Azzopardi LM. MCQs in Pharmacy Practice. London: Pharmaceutical Press. 2003

Azzopardi LM. Further MCQs in Pharmacy Practice. London: Pharmaceutical Press. 2006.

Azzopardi LM. MCQs in Clinical Pharmacy. London: Pharmaceutical Press. 2007.

Mehta DK ed. British National Formulary. London: Pharmaceutical Press. Latest edition.

Monthly Index of Medical Specialities (MIMS). London: Haymarket Medical Ltd. Latest edition.

Mosby's Medical, Nursing and Allied Health Dictionary. St Louis, Missouri: Mosby. Latest edition.

Royal Pharmaceutical Society of Great Britain. Medicines, Ethics and Practice: A guide for pharmacists. London: Pharmaceutical Press. Latest edition.

Sweetman SC ed. Martindale: The Complete Drug Reference. London: Pharmaceutical Press. Latest edition.

**List of pharmacological classes recommended for comparisons**

*Gastro-intestinal system:* Antacids; Antispasmodics and other drugs altering gut motility; Ulcer-healing drugs; Laxatives; Preparations for haemorrhoids

*Cardiovascular system:* Diuretics; Beta-adrenoceptor blocking drugs; Drugs affecting the renin-angiotensin system and some other antihypertensive drugs; Nitrates, calcium-channel blockers, and potassium-channel activators; Sympathomimetics; Anticoagulants and protamine; Antiplatelet drugs; Fibrinolytic drugs

*Respiratory system:* Bronchodilators; Corticosteroids; Cromoglycate and related therapy; Antihistamines, hyposensitisation, and allergic emergencies; Mucolytics; Aromatic inhalations; Cough preparations; Systemic nasal decongestants

*Central Nervous System:* Hypnotics and anxiolytics; Analgesics; Drugs used in psychosis, Antidepressant drugs, Drugs used in the treatment of obesity; Drugs used in nausea and vomiting

*Infections:* Antibacterial drugs; Antifungal drugs; Antiviral drugs; Antiprotozoal drugs; Anthelmintics

*Endocrine System:* Drugs used in diabetes

*Nutrition:* Anaemias and some other blood disorders, Vitamins, Minerals

*Musculoskeletal and Joint Disease:* Drugs used in rheumatic diseases and gout; Drugs for the relief of soft-tissue inflammation

*Eye:* Anti-infective eye preparations; Corticosteroids and other anti-inflammatory preparations; Mydriatics and cycloplegics; Treatment of glaucoma; Local anaesthetics; Miscellaneous ophthalmic preparations; Contact lenses

*Ear, Nose and Oropharynx:* Drugs acting on the ear; Drugs acting on the nose; Drugs acting on the oropharynx

*Skin:* Emollient and barrier preparations; Topical local anaesthetics and antipruritics; Topical corticosteroids; Preparations for eczema and psoriasis; Preparations for acne; Preparations for warts and calluses; Anti-infective skin preparations; Disinfectants and cleansers; Preparations for wound care

*Immunological products and vaccines*

*Baby food and food supplements*



**Examples of entries that could be tackled by first year students**

Layout of the pharmacy

Pharmacy Registers

Expiry dates monitoring

Documentation systems

Storage of medicines

Equipment

Diagnostics

Pharmacological classes

Analgesics

Antacids

Anti-diarrhoeals

Antihistamines

Anti-infective agents

Beta-adrenoceptor blocking drugs

Cough and cold preparations

Diuretics

Drugs affecting the renin-angiotensin system

Laxatives

Mucolytics

Nasal decongestants

Ulcer-healing drugs

**Pharmacy Practice Module****First Year****Community Pharmacy Practice****PHR 1101**

1. Please list down all students who are expected to attend for each tutorial as indicated on the attached time-table. Students who do not attend for the tutorial should be marked as absent. Do not accept students for tutorial who are not scheduled to attend.
2. Use one sheet for each tutorial session.
3. Students are expected to participate throughout the one hour tutorial and they should not leave once their log book has been corrected.
4. Each entry has to be signed by pharmacist and student should present Form B (confirmation of attendance) signed for each entry.

Date of tutorial	Name of student	Log Book dates	Mark out of 10	Comments

Signature of Demonstrator \_\_\_\_\_

Name of Demonstrator \_\_\_\_\_

**Pharmacy Practice Module****Second Year****Community Pharmacy Practice****PHR 2103**

1. Please list down all students who are expected to attend for each tutorial as indicated on the attached time-table. Students who do not attend for the tutorial should be marked as absent. Do not accept students for tutorial who are not scheduled to attend.
2. Use one sheet for each tutorial session.
3. Students are expected to participate throughout the one hour tutorial and they should not leave once their log book has been corrected.
4. Each entry has to be signed by pharmacist and student should present Form B (confirmation of attendance) signed for each entry.

Date of tutorial	Name of student	Log Book dates	Mark out of 10	Comments

Signature of Demonstrator

\_\_\_\_\_

Name of Demonstrator

\_\_\_\_\_

**Pharmacy Practice Module****Third Year****Community Pharmacy Practice****PHR 3107**

1. Please list down all students who are expected to attend for each tutorial as indicated on the attached time-table. Students who do not attend for the tutorial should be marked as absent. Do not accept students for tutorial who are not scheduled to attend.
2. Use one sheet for each tutorial session.
3. Students are expected to participate throughout the one hour tutorial and they should not leave once their log book has been corrected.
4. Each entry has to be signed by pharmacist and student should present Form B (confirmation of attendance) signed for each entry.

Date of tutorial	Name of student	Log Book dates	Mark out of 10	Comments

Signature of Demonstrator \_\_\_\_\_

Name of Demonstrator \_\_\_\_\_

**Pharmacy Practice Module****Fourth Year****Community Pharmacy Practice****PHR 4112**

1. Please list down all students who are expected to attend for each tutorial as indicated on the attached time-table. Students who do not attend for the tutorial should be marked as absent. Do not accept students for tutorial who are not scheduled to attend.
2. Use two sheets for each tutorial session.
3. Students are expected to participate throughout the two hour tutorial and they should not leave once their log book has been corrected.
4. Each entry has to be signed by pharmacist and student should present Form B (confirmation of attendance) signed for each entry.

Date of tutorial	Name of student	Log Book dates	Mark out of 10	Comments

Signature of Demonstrator

Name of Demonstrator