

## LIBYAN INTERNATIONAL MEDICAL UNIVERSITY

**Form Name : Block Catalogue**

**Revision No. :01/2020**

**Form No. : QAO-OP.17**

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### Basic information:

Program on which the Block is offered	PharmD
Qualification Awarded	BPharmD
Block title - Code - Year	Eye and Skin Disorders– 3402– Professional Year II
Block Type	Professional
Total contact Hours / week [46 hrs.]	(Lectures: 2.5, Lab: 1, Tutorials: 1.5, TBL: 4.5, PBL: 6.5, Clinical: 2, Self-study: 26, Exams: 2)
ECTS Hours	8
Pre-requisites for this Block	Fundamentals of Pharmacology, Anatomy, Histology, Physiology, Biochemistry, Pathology, Pharmacogenomics Primer Course, Biopharmaceutics, Pharmaceutical Calculations, Drug Quality Assurance, Biotechnology, Pharmacy Practice, and Clinical Skills.
Week period	4

### Block Description:

This block covers aetiology, pathophysiology, clinical presentation, complications, investigations, clinical assessment, management and treatment of eye and skin disorders. Problem-Based learning and Team-Based learning strategies are utilized in this block to assist in combining clinical expertise, patient characteristics and medical evidence for clinical decision-making.

### Block Objectives:

**By the end of this Block the student should be able to:**

- Demonstrate comprehensive knowledge, and clear understanding of Pathophysiology, Clinical Pharmacology, Pharmacotherapeutics, Medicinal Chemistry, Microbiology, Pharmacogenomics, Toxicology, Patient Assessment, Self-care Management, Complementary and Alternative Medicine regarding eye and skin disorders.
- Apply clinical pharmacokinetic principles in calculating and monitoring drug doses.
- Analyse the biochemical laboratory results of patients with eye and skin disorders.
- Prevent, identify, and resolve drug-induced problems in eye and skin disorders.
- Provide drug information, education and evidence-based pharmacotherapy services to patients with eye and skin problems, and to other healthcare professionals.
- Provide patient-centred care as the medication expert.
- Apply the principles of medical ethics and communication skills on patients with eye and skin disorders.

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## Learning and Teaching Methods, & Assessment Methods

### Learning and Teaching Methods:

- Problem-Based Learning (PBL)
- Team-Based Learning (TBL)
- Lectures
- Tutorials
- Practice in lab
- Independent study assignments
- Presentations
- Clinical teaching: Clinical skills lab, Simulation, Field trips.

### Assessment methods:

- **Continuous assessment:**
  - Problem Based Learning sessions (Brainstorming/Debriefing)
  - Reports
  - Individual reassurance test (IRAT): MCQs
  - Group reassurance test (GRAT): MCQs
  - Problem solving (mini cases)
  - Presentations (oral/ poster/brochure)
  - Practice in lab
  - Clinical sessions
  - Open-book/open-web exam
- **End-Block exam:**
  - Written
- **Final-Block exam:**
  - Written
  - Objective structured clinical examination (OSCE)

### Weighting of Assessment:

<b>Continuous assessment:</b>	<b>70%</b>
• PBL sessions	• 25%
• TBL sessions	• 25%
• Clinical sessions	• 12.5%
• End-block exam	• 7.5%
<b>Final Exam:</b>	<b>30%</b>
• Written	• 20%
• OSCE	• 10%
<b>Total:</b>	<b>100%</b>
<b>Assessment Schedule:</b>	
<b>Continuous assessment:</b>	<b>During the block</b>

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• PBL sessions	Weeks 1-4
• TBL sessions	Weeks 1-4
• Clinical sessions	Weeks 1-4
• End-block exam	At the end of the block
<b>Final exam:</b>	<b>At the end of the year</b>
• Written	At the end of the year
• OSCE	At the end of the year

### Examination Regulations:

- If the student absenteeism is more than 25 % he/she cannot attempt the final exam.
- The total required percentage to pass this course is at least 60 %

### List of textbooks and references:

- **Course Notes:**
  - PowerPoint presentations, videos and other materials related to lectures, tutorials and practical sessions are uploaded to the Moodle by experts on weekly basis according to teaching schedule.
- **Essential Books(Text Books):**
  - William F. Wright. (2018). Essential of Clinical Infectious Disease. 2<sup>nd</sup> edition.
  - Anne Ballinger. (2018). Essential of Kumar & Clarks Clinical Medicine. 6<sup>th</sup> edition.
  - Current Medical Diagnosis & Treatment. 59<sup>th</sup> Edition.
  - Despina Sanoudou. (2012). Clinical Applications of Pharmacogenetics. First edition. USA
  - Sandosh Padmanabhan. (2014). Handbook of Pharmacogenomics and Stratified Medicine. 1st Edition. Academic Press USA.
  - Casarett and Doull's. (2008). Toxicology: the basic science of poisons 7<sup>th</sup> edition.
  - Karen Whalen, Richard Finke Thomas A. Panavelil. (2015). Lippincott Illustrated Reviews: Pharmacology. 6<sup>th</sup> Edition.
  - Edward P. Claus. (2016). Pharmacognosy for Lea & Febiger. 4th edition. University of Minnesota .
  - Michael Heinrich, Joanne Barnes, Simon Gibbons, Elizabeth M. Williamson (2012). Fundamentals of Pharmacognosy and Phytotherapy. 2nd edition. (E-Book). Elsevier Health Sciences.
  - Bauman, R. W., Machunis-Masuoka, E., & Cosby, C. D. (2018). Microbiology: with diseases b body system. Benjamin Cummings.
  - Kumar, S. (2016). Essentials of microbiology. JP Medical Ltd.
  - Foye`s, Principles of Medicinal Chemistry. (2012). 7th Edition, Lippincott Williams & Wilkins Publishers.

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- Lawrence Tierney, Sanjay Saint, Mary Wholey. (2011). Current Essentials of Medicine. 4<sup>th</sup> Edition. McGraw Hill Medical.
- Harsh Mohan. (2010). Textbook of Pathology. 6<sup>th</sup> Edition. Jaypee Brothers Medical Publisher.
- Roger Walker, Cate Whittlesea. 2012, Clinical Pharmacy and Therapeutics, 5<sup>th</sup> edition, Elsevier Ltd. London, UK. International ISBN – 978-0-7020-4294-2.
- **Recommended Books:**
  - Stantý Davidson. (2018). Davidson’s Principle & Practical of Medicine. 23<sup>rd</sup> edition.
  - Harrison Principle of Internal Medicine. (2017). 20<sup>th</sup> edition.
  - Antonarakis and Motulsky. (2010). Human genetics Problems and Approaches. 4<sup>th</sup> Edition. Spain.
  - David N. Cooper and Jian-Min Chen (2012). Mutations in human genetic disease. First edition. Croatia.
  - James Ritter, Lionel Lewis, Timothy Mant, Albert Ferro. Goodman & Gilman’s: The Pharmacological basis of Therapeutics. 12<sup>th</sup> Edition. McGraw Hill Education.
  - Bruneton Jean. (2008). Pharmacognosy, Phytochemistry, Medicinal Plants. 2nd Edition. Lavoisier.
  - Elliott, T., Casey, A., Lambert, P. A., & Sandoe, J. (2012). Lecture Notes: Medical Microbiology and Infection. John Wiley & Sons.
  - Murray, P. R., Rosenthal, K. S., & Pfaller, M. A. (2015). Medical microbiology. Elsevier Health Sciences.
  - Graham L. Patrick. (2005). Introduction to Medicinal Chemistry, Oxford University Press.
  - Graham L. Patrick. (2013). An Introduction to Medicinal Chemistry, Fourth Edition, Oxford University Press.
  - Wilson and Gisvold’s. (2011). Textbook of Organic Medicinal and Pharmaceutical Chemistry. Twelfth Edition, Wolters Kluwer Health/Lippincott Williams & Wilkins Publishers.
  - G. Thomas. Medicinal Chemistry: An introduction. Wiley.
  - Gary Hammer, Stephen McPhee. (2014). Pathophysiology of Disease: An Introduction to Clinical Medicine. 7<sup>th</sup> Edition. McGraw Hill Lange.
  - Kumar, Abbas, Aster. (2018). Robbins Basic Pathology. 7<sup>th</sup> Edition. McGraw Hill Lange.
- **Periodicals and websites:**
  - Nature Reviews Drug Discovery
  - Drug Discovery Today
  - Surabhi Gupta, Sanjiv Kumar, Prafful Garg. Pharmacogenomics & its Application in Ophthalmology. Del J Ophthalmol (26): 1: 50-55.
  - Aloe vera, African flowering plants database". Conservatoire et Jardin botaniques de la Ville de Genève. Retrieved 19 November 2017.
  - <https://www.webmd.com/vitamins/ai/ingredientmono-202/bilberry>
  - <https://www.verywellhealth.com/the-benefits-of-bilberry-88315>

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- <https://www.indigo-herbs.co.uk/natural-health-guide/benefits/eyebright>
- <https://www.healthline.com/nutrition/eyebright#eye-health>
- <https://vitagene.com/supplements/compounds/berberine>
- <https://www.verywellhealth.com/oregon-grape-benefits-4590368>
- <https://www.medicalnewstoday.com/articles/265800.php>
- <https://www.backtobasicsamarillo.com/using-cupping-therapy-treat-various-skin-conditions>
- <https://www.lybrate.com/topic/eczema-5-homeopathic-remedies-for-treating-it>
- <https://www.cdc.gov/>

### Block Policies:

#### Code of conduct

Please refer to LIMU code of ethics <http://limu.edu.ly/images/11/ethcode.pdf>

#### Academic integrity

Please be aware that cheating, plagiarism, in-class disruption and dishonesty are vigorously prosecuted and that LIMU has a zero-tolerance policy.