

## 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	Endocrine and Reproductive Disorders– 3306– Professional Year I
Block Type	Professional
Total contact Hours / week [46 hrs.]	(Lectures: 3, Lab: 1, Tutorials: 2, TBL: 4.5, PBL: 6.5, Clinical: 2, Self-study: 26, Exams:2)
ECTS Hours	8
Pre-requisites for this Block	Fundamentals of Medicinal Chemistry, Fundamentals of Pharmacology, Anatomy, Histology, Physiology, Biochemistry, Pathology, Pharmacogenomics Primer Course, Pharmaceutical Microbiology, 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 endocrine and reproductive 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, Toxicology, Clinical Pharmacokinetics, Clinical Biochemistry, Pharmacogenomics, Patient assessment, self-care management, and Complementary & Alternative Medicine regarding endocrine and reproductive disorders.
- Apply clinical pharmacokinetic principles in calculating and monitoring drug doses.
- Analyse the biochemical laboratory results of patients with endocrine and reproductive disorders.
- Prevent, identify, and resolve drug-induced problems in endocrine and reproductive disorders.
- Provide drug information, education and evidence-based pharmacotherapy services to patients with endocrine and reproductive problems, and to other healthcare professionals.
- Provide patient-centred care as the medication expert.

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- Apply the principles of medical ethics and communication skills on patients with endocrine and reproductive disorders.

## 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>

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## Assessment Schedule:

Continuous assessment:	During the block
• PBL sessions	Weeks 1-4
• TBL sessions	Weeks 1-4
• Clinical sessions	Weeks 1-4
• End-block exam	At the end of the block
Final exam:	At the end of the year
• 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):**
  - Clinical biochemistry an illustrated colour text 5<sup>th</sup> edition
  - Reisner, H.(2013). Essentials of Rubin's Pathology. Lippincott Williams & Wilkins
  - Rhonda Jones. (2016). Patient assessment in pharmacy practice.3<sup>rd</sup> edition.
  - Karen Whalen, Richard FinkeThomas A. Panavelil, 2015, Lippincott Illustrated Reviews: Pharmacology, 6<sup>th</sup> Edition
  - 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
  - Casarett and Doull's. (2008). Toxicology: the basic science of poisons 7<sup>th</sup> edition.
  - Foye`s, Principles of Medicinal Chemistry, 7th Edition, Lippincott Williams & Wilkins Publishers. 2012
  - Xiaodong Feng, Hong-Guang Xie. (2012). Applying Pharmacogenomics in Therapeutics. 1 edition. Cambridge University Press.
  - Soheil Tavakolpour. (2017) Pharmacogenetics: A strategy for personalized medicine for autoimmune diseases. 2nd edition. USA.
  - Paul M. Dewick. (2002) (Medicinal Natural Products: A Biosynthetic Approach). 3rd edition. John Wiley & Sons.
  - Lawrence Tierney, Sanjay Saint, Mary Wholey. (2011). Current Essentials of Medicine. 4<sup>th</sup> Edition. McGraw Hill Medical.

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- B. G. Katzung,(2018) Basic & Clinical Pharmacology, Fourteenth Edition, United States of America: McGraw-Hill Education,

- **Recommended Books:**

- DebmalyaBarh and Dipali Dhawan. (2013). Omics (Pharmacogenomics) for Personalized Medicine. Springer New Delhi Heidelberg New York Dordrecht London. 3<sup>rd</sup> edition.
- Sandosh Padmanabhan. (2014). Handbook of Pharmacogenomics and Stratified Medicine. 1<sup>st</sup> Edition. Academic Press USA.
- Meyer and Tyndale. (2005). Pharmacogenomics. Second Edition. Toronto, Ontario, Canada. United States of America.
- Despina Sanoudou. (2012).Clinical Applications of Pharmacogenetics.1<sup>st</sup> edition.
- Antonarakis and Motulsky. (2010). Human genetics Problems and Approaches. 4th Edition. Spain.
- Richard N. Herrier, et al. (2015). Patient assessment in pharmacy.
- Karen J Tietze. (2012). Clinical skills for pharmacist. Third edition.
- G. Patrick: Introduction to Medicinal Chemistry, Oxford University Press, 2005
- G. Thomas: Medicinal Chemistry: An Introduction (Wiley),
- Wilson and Gisvold`s, Textbook of Organic Medicinal and Pharmaceutical Chemistry. Twelfth Edition, Wolters Kluwer Health/Lippincott Williams & Wilkins Publishers. 2011
- Graham L. Patrick, An Introduction to Medicinal Chemistry, Fourth Edition, Oxford University Press. 2013
- Gareth Thomas Medicinal Chemistry, An Introduction, Second Edition. John Wiley and Sons Ltd. Publishers. 2007
- Michael Heinrich, Joanne Barnes, Simon Gibbons, Elizabeth M. Williamson (2012). (Fundamentals of Pharmacognosy and Phytotherapy E-Book) Elsevier Health Sciences. 2nd edition.
- Bruneton Jean. (2008). (Pharmacognosy, Phytochemistry, Medicinal Plants). Lavoisier .2nd Edition.
- Andrew chevalier. (2016). Encyclopedia of Herbal Medicine. Penguin Random House. 3<sup>rd</sup> Edition.
- H. P. Rang, J. M. Ritter, R. J. Flower, G. Henderson (2016) RANG & DALE'S Pharmacology, eight edition 2016, China : Elsevier Ltd.
- D. L. Longo, A.S. Fauci,D. L. Kasper, S. L. Hauser, J. L. Jameson, J. Loscalzo,(2018)Harrison's M A N U A L O F M E D I C I N E, 20th edition , McGraw-Hill Companies,

- **Periodicals and websites:**

- Nature Reviews Drug Discovery
- Drug Discovery Today
- Philippe Colucci, Corinne Seng Yue, Murray Ducharme, and Salvatore Benvenga (2013). A Review of the Pharmacokinetics of Levothyroxine for the Treatment of Hypothyroidism. 9(1):40-47.

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- Garry G. Graham, Jeroen Punt, Mani Arora, Richard O. Day, Matthew P. Doogue, Janna K. Duong, Timothy J. Furlong, and Kenneth M. Williams. (2011). Clinical Pharmacokinetics of Metformin. 50:81-98.
- Tatsuhiko Urakami, Remi Kuwabara, Masako Habu, Ayako Yoshida, Misako Okuno, Junichi Suzuki, Shori Takahashi, and Hideo Mugishima.(2013).Pharmacologic Treatment Strategies in Children with Type 2 Diabetes Mellitus. 22(1), 1–8.
- Aaron Michels and Nicole Michels. (2014). Addison Disease: Early Detection and Treatment Principles. 89(7):563-568.
- Karuna Sree P. (2013). Pharmacogenomics in Diabetes Mellitus: Pathway to Personalized Medicine. Helix: 1: 216
- <https://www.medicines.org.uk/emc/product/1135/smpc>
- [www.drugbank.com](http://www.drugbank.com)
- <https://dailymed.nlm.nih.gov/dailymed/>

## 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.