

Course syllabus

College of Pharmacy

Credit No. 1(1-0-2) Section 01, 02 Academic year 2023

Course codePHA 441Course titleDietary supplementsSemester1StudentsPharmacy students, 4th yearInstructors

- 1. Assoc.Prof.Dr. Apirak Sakunpak
- 2. Asst.Prof.Dr. Thanapat Songsak
- 3. Asst.Prof.Dr. Surang Leelawat
- 4. Asst.Prof.Dr. Piyanuch Thongphasuk
- 5. Asst.Prof.Dr. Supawan Bunrathep
- 6. Asst.Prof.Dr. Tossaton Charoonratana
- 7. Dr. Yupin Lawanprasert

Course coordinators Asst.Prof.Dr. Surang Leelawat and

Asst.Prof.Dr. Tossaton Charoonratana

| Class hours and location | Friday, 08.00 - 10.00 a.m., 4/1-503 | |
|--------------------------|-------------------------------------|--|
| Pre-requisite courses | te courses PHA 342 Pharmacognosy 2 | |
| | PHA 354 Pharmacology for Pharmacy 2 | |

Course description

Laws relating to dietary supplements in Thailand and AEC, dietary supplements used in depressive, anxiety, and sleeping disorders, used for physical and mental performance enhance, cardiovascular and metabolic disorders, neurodegenerative and cognitive disorders, women and men health issues; Interactions between complementary medicines and drugs and update of complementary health products.

Learning objectives When completion of this course, the students should be able to:

- 1. Evaluate the efficacy, safety, and quality of those products using both evidence-based and ethnopharmacology studies
- 2. Know the necessity of specific herbal product without an extravagant consumption

Course outlines (as shown in table below)

Methods of Instruction

- 1. Lecture: PowerPoint presentation
- 2. Case-based learning
- 3. Individual and group assignment
- 4. Quiz: Pre-quiz/Post-quiz

Assessment

Learning evaluations include

- Paper examinations will cover all topics in Course Outlines. Weighted components of paper examination are allocated as percent content of each topic and divided into: Final examination
 95%
 - Quiz and assignment 5%

Note Class attendance is not less than 80% of all class sessions.

Required texts and references

- Bascom A. Incorporating herbal medicine into clinical practice. Philadelphia: Davis Company; 2002.
- 2. Baskin S., Salem H. Oxidants, antioxidants and free radicals. New York: CRC Press; 1997.
- Eskin M., Tamir S. Dictionary of nutraceuticals and functional foods. New York: CRC Press; 2005.
- 4. Geoffrey PW. Dietary supplements and functional foods. Oxford: Wiley-Blackwell; 2006.
- 5. Lam YWF, Huang S, Hall SD. Herbal supplements-drug interactions. New York: Taylor & Francis Group; 2006.
- 6. Lockwood B. Nutraceuticals: A guide for healthcare professionals. 2nd Edition. London: Pharmaceutical Press; 2007.
- 7. Robert E.C. Wildman. Handbook of nutraceuticals and functional foods. 2nd Edition. New York: CRC Press; 2006.

Special materials and data

- 1. WHO (2003) Special supplement of the Food and Nutrition Bulletin based on a WHO expert consultation on complementary feeding.
- 2. WHO (1998) Development of food based dietary guidelines for the Asian region
- 3. Association of South East Asian Nations. (2015a). Annex III ASEAN guidelines on limits of contaminants for traditional medicines and health supplements. ASEAN.

Suggested materials and data

- 1. <u>http://www.ncbi.nlm.nih.gov/pubmed/</u>
- 2. <u>https://www.nlm.nih.gov/medlineplus/</u>
- 3. http//:www.sciencedirect.com/

Course outline

Course code/ title PHA 441 Dietary Supplements Semester 1

Class hours and location Fri 8.00-10.00 a.m., 4/1-503

| No. | Day | Topics | Instructors |
|---------------------|--------------|--|--------------------------------------|
| 1 | 16 Aug 2023 | Regulatory status of herbal and dietary | Dr. Yupin Lawanprasert |
| | (13.00-14.00 | supplements in Thailand and AEC | |
| | p.m.) | | |
| 2-4 | 16 Aug 2023 | An evidence-based approach to the clinical | |
| | (14.00-15.00 | use of dietary supplements and | |
| | p.m.) | nutraceuticals | |
| | and | I. Dietary supplements used for women | Asst.Prof.Dr. Supawan Bunrathep |
| | 25 Aug 2023 | and men health issues | |
| | | II. Dietary supplements used for hair, nail, | |
| | | and skin health | |
| 5-6 | 1 Sep 2023 | III. Dietary supplements used for weight | Assoc.Prof.Dr. Apirak Sakunpak |
| | | control & Physical performance | |
| | | IV. Dietary supplements used for exercise | |
| | | and athlete performance | |
| 7-8 | 8 Sep 2023 | V. Dietary supplements used for | Asst.Prof.Dr. Tossaton Charoonratana |
| | | cardiovascular disorders | |
| 9-10 | 15 Sep 2023 | VI. Dietary supplements used for | Asst.Prof.Dr. Surang Leelawat |
| | | neurodegenerative and cognitive | |
| | | disorders | |
| 11-13 | 22 Sep 2023 | VII. Dietary supplements used for | Asst.Prof.Dr. Piyanuch Thongphasuk |
| | | depressive, anxiety, and sleeping | |
| | | disorders | |
| | | VIII. Dietary supplements used for eye | |
| | | health | |
| 14-15 | 29 Sep 2023 | Interactions between complementary | Asst.Prof.Dr. Thanapat Songsak |
| medicines and drugs | | medicines and drugs | |
| | | Final exam, 2-13 Oct 2023 | |

Academic year 2023 Section 01, 02

Credit No. 1 (1-0-2)