

Theoretical and practical courses-Ilam University of Medical Sciences

Introduction of the course: Emergence and recurrence of arthropod-transmitted diseases in the first semester / second / summer of the academic year 2020-2021

School: Health Department: Biology and Carrier Control

Course and degree: Carrier Biology and Control, Bachelor of the

Day, time and place: Monday 14-16

Number and type of unit (theoretical): 1

Name of the person in charge of the course (course instructor): Dr. Ali Ashraf Eivazi

Prerequisite Courses: General Medical Entomology Office Address: School of Health, Department of Biology and Carrier Control

Phone and contact days: Office hours 32237954

Email: ali.medilam@gmail.com

Overall Objective of the course: Familiarity of students with emerging and relapsing diseases transmitted by arthropods and methods of their diagnosis, monitoring and management

Specific or partial objectives of the lesson: The specific objective is better to be written in a behavioral way (the behavioral objective has the audience, the behavioral verb, the degree and criteria, and the conditions for doing it):

- 1- At the end of the lesson, the learner should write the principles of epidemiology of emerging and reappearing diseases with 80% accuracy on the exam sheet.
- 2- At the end of the course, the learner can write the effective factors in the emergence and reappearance of diseases transmitted by carriers with 70% accuracy in the exam sheet.
- 3- At the end of the course, the learner can write about global warming and its role in the emergence and reappearance of diseases transmitted by carriers with 80% accuracy on the exam sheet.
- 4- At the end of the lesson, the learner can write the emerging and reappearing parasitic diseases transmitted by vectors with 75% accuracy on the exam sheet.
- 5- At the end of the lesson, the learner will be able to write emerging and recurrent arbovirus diseases with 80% accuracy on the exam sheet.
- 6- At the end of the course, the learner will be able to write the role of biotechnology in the identification and management of emerging and re-emerging diseases transmitted by vectors with 80% accuracy on an exam sheet.
- 7- At the end of the course, the learner can understand the system of care, monitoring and management of emerging and re-emerging diseases transmitted by carriers with 80% accuracy in the form.

Write an exam

Student duties (student homework during the semester): regular participation in meetings, previous study of the course materials of each session, doing the presented assignments,

Main sources of the course) Main sources by observing the principles of source writing and giving an address for their preparation, including library, bookstore, and internet and: (...)

1. H.Sabaghyan2005. An overview of emerging and re-emerging common diseases. Iranian Journal of Epidemiology, 1 (3 and 4): 1-9.
2. M.Goyaa M., Shirzadi, M. (2013). Emerging and re-emerging zoonosis. Proceedings of the Conference on Common Human and Animal Diseases, 1 (1).
3. Mostafavi, A., Kaypour, M. (2017). History of Plague Research Center of Pasteur Institute of Iran (from 1952-to 2016). Medical History Studies 6 (3): 139-158.
4. Nadalian, M., Tajbakhsh, H., Mokhberdzfuli, M., Akbarin, H.) .!2017). A review of the most important diseases that can be transmitted between humans and animals with a special focus on emerging and re-emerging diseases and their status in Iran: Challenges, coping policies, strategies and perspectives (Part 1: Bacterial zoonosis). Pathology of Veterinary Clinic (Tabriz Veterinary), 11 (3 (43)): 197-223.
5. Hatami, H (2003), Emergence and reappearance of infectious diseases and health of medical professions; Tehran: Sound Publishing Center.
6. Baylis, M. (2017). Potential impact of climate change on emerging vector-borne and other infections in the UK. Environmental Health, 16(1), 112. doi: 10.1186/s12940-017-0326-1
7. Huntington, M. K., Allison, J., & Nair, D. (2016). Emerging Vector-Borne Diseases. Am Fam Physician, 94(7), 551-557.
8. Kilpatrick, A. M., & Randolph, S. E. (2012). Drivers, dynamics, and control of emerging vector-borne zoonotic diseases. Lancet, 380(9857), 1946-1955. doi: 10.1016/S0140-6736(12)61151-9
9. Kulkarni, M. A. (2016). Global spread and impacts of emerging vector-borne diseases. Can Commun Dis Rep, 42(10), 198-199. doi: 10.14745/ccdr.v42i10a02
10. Mathieu, K., & Karmali, M. (2016). Vector-borne diseases, climate change and healthy urban living: Next steps. Can Commun Dis Rep, 42(10), 219-221. doi: 10.14745/ccdr.v42i10a13
11. Takken, W., & Knols, B. G. J. (2007). Emerging pests and vector-borne diseases in Europe. Wageningen: Wageningen Academic Publishers.
12. Mack, A., & Institute of Medicine (U.S.). Forum on Microbial Threats. (2016). Global health impacts of vector-borne diseases: workshop summary. Washington, DC: The National Academies Press.

Teaching methods + teaching aids used: lectures with the active participation of learners, use of boards, visualizer, slide show, group discussion.

Methods and time of assessment and evaluation of the student and the bar related to each evaluation: (Type of exams in terms of how to design the question - loading - time of exams and assignments should be mentioned): Class assignment 3 points, final exam 17 points. Questions include multiple choice, vacancy, true / false, short answer and descriptive.

Lesson rules and expectations from students:

1- The active participation of the student along with observing the relevant order and principles, respecting the manners of the class and other students, as well as the correct use of materials and teaching aids are essential.

2- The presence of students in extraordinary classes is essential. The time of these classes will be informed in advance to the class representative and the education department of the faculty.

3- According to the current regulations of the university, absence from more than 3 sessions of the classroom is not allowed. Obviously, this figure also includes justified absence.

Schedule and anticipated provisions of each session

Session	Topic	Lecturer
1	History, importance and principles of epidemiology of emerging and re-emerging diseases	Dr.eivazi
2	Factors affecting the emergence and recurrence of vector-borne diseases	
3	Global warming and its role in the emergence and recurrence of vector-borne diseases	
4	Emergence and recurrence of parasitic diseases (malaria and leishmaniasis) transmitted by vectors in Iran and the world	
5	Emergence and reappearance of arbovirus diseases in Iran and the world	
6	The role of biotechnology in the identification and management of emerging and reversible diseases transmitted by vectors	
7	System of care, monitoring and management of emerging and re-emerging diseases transmitted by vectors	
8	Introducing the National Center for Emerging and Reappearing Diseases Research	
9	Final test	