



# *The Hebrew University of Jerusalem*

## *Syllabus*

### *ZOONOTIC DISEASES - 65845*

*Last update 24-03-2015*

*HU Credits: 2*

*Degree/Cycle: 2nd degree (Master)*

*Responsible Department: Veterinary Medicine*

*Academic year: 2*

*Semester: 1st Semester*

*Teaching Languages: Hebrew*

*Campus: Rehovot*

*Course/Module Coordinator: Daniel Barkan*

*Coordinator Email: [daniel.barkan@mail.huji.ac.il](mailto:daniel.barkan@mail.huji.ac.il)*

*Coordinator Office Hours: by appointment*

*Teaching Staff:*

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Daniel Barkan

Course/Module description:

*In the course, students will learn of pathogens and disease transmitted from animals to humans (zoonotic infections). The life cycle, infection cycle, pathogenesis and epidemiology of the disease will be covered.*

Course/Module aims:

*The aims of the course is close acquaintance of the students with the bio-threats that humans face when encountering and handling wild and domesticated animals, including their identification, prevention and treatment.*

Learning outcomes - On successful completion of this module, students should be able to:

*At the end of the course, the students will be able to: suspect a zoonotic infection when they encounter a person suspected of having such infection. They will be able to refer a potential patient to the proper medical authority, and educate people handling animals regarding the potential health threats from these animals.*

Attendance requirements(%):

80

*Teaching arrangement and method of instruction: lectures*

Course/Module Content:

- 1) Introduction to zoonotic infections and discussion of a pathogen making a successful "jump" to humans: HIV.*
- 2) Treatment of animal bites.*
- 3) Psittacosis and avian flu.*
- 4) Plague and tularemia.*
- 5) Zoonotic spirochetes.*
- 6) Rickettsia and bartonella*
- 7) Food pathogens: listeria, salmonella, e.coli and campylobacter.*
- 8) Leishmania and eichinococcus.*
- 9) Disease from pigs: trichinella and taenia solium.*
- 10) Brucellosis*
- 11) Q fever and hemorrhagic fevers.*
- 12) Anthrax*

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Required Reading:

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Additional Reading Material:

*The relevant chapters in such medicine books as Harrison's and Cecil's*

Course/Module evaluation:

*End of year written/oral examination 100 %*

*Presentation 0 %*

*Participation in Tutorials 0 %*

*Project work 0 %*

*Assignments 0 %*

*Reports 0 %*

*Research project 0 %*

*Quizzes 0 %*

*Other 0 %*

Additional information:

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