

课程大纲

COURSE SYLLABUS

1.	课程代码/名称 Course Code/Title	热带病研究进展 Advances in Tropical Diseases Research
2.	课程性质 Compulsory/Elective	选修 Elective
3.	开课单位 Offering Dept.	医学院 School of Medicine
4.	课程学分/学时 Course Credit/Hours	3/48
5.	授课语言 Teaching Language	英语 English
6.	授课教师 Instructor(s)	王海东
7.	开课学期 Semester	秋季 Autumn
8.	是否面向本科生开放 Open to undergraduates or not	否 No
9.	先修要求 Pre-requisites	(如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference) 无 None
10.	教学目标 Course Objectives	(如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference) 本课程拟面向医学及相关专业研究生, 围绕在热带地区爆发和流行的疾病, 着重介绍热带疾病的种类, 传播以及致病机理, 防治特点及难点, 现阶段研究进展以及未来发展趋势, 使学生能够全面了解热带疾病的基本特点, 理解相关疾病的致病机理, 并能够把握该领域的未来研究发展方向和需求, 从而为今后从事相关科研工作奠定理论基础。 The Advances in Tropical Disease Research is designed for graduate students in medicine and related majors, focusing on the outbreak and epidemic of Tropical Diseases. By introducing the types, transmission, pathogenic mechanisms of tropical diseases, the characteristics and difficulties in prevention and treatment as well as the current research progress and future development trends in tropical disease research, the students are expected to establish the basic impression of tropical diseases, understand the pathogenic mechanism of related diseases, grasp the direction of future research as well as the emergent needs of the field, which will lay a theoretical foundation for a potential scientific research career.
11.	教学方法 Teaching Methods	(如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference) 本课程拟主要通过讲授和专题讨论的模式, 向学生传递热带疾病的相关专业知识, 同时使学生能够运用所学对具体问题展开分析, 总结和凝练。 This course is intended to convey the relevant expertise of tropical diseases to students mainly through lectures and seminars, in which the students are expected to use what they have learned to analyze on and summarize from specific cases.
12.	教学内容 Course Contents	(如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the

difference.)

课程内容分为讲授和专题研讨两个模块；

讲授内容主要包括：1. 热带疾病种类以及危害，2. 热带疾病的传播以及致病机理，3. 热带疾病的防治技术以及难点，4. 气候变化以及城市化对热带疾病传播的影响，5. 热带疾病的未来研究趋势，6. 热带疾病防控与全球健康，专题研讨：1. 热带疾病防控技术前沿进展，2. 后疫情时代热带病研究现状和趋势，3. 虫媒病毒的研究现状和发展趋势。

The course is divided into two modules: lectures and seminars,

The main content of the lecture includes: 1. The main types of tropical diseases and their emergence, 2. The Transmission and pathogenesis of tropical diseases, 3. The prevention and control technologies and difficulties of tropical diseases, 4. The impact of climate change and urbanization on the spread of tropical diseases, 5. Future research trends of tropical diseases, 6. Prevention and control of tropical diseases and global health,

The topics of seminar includes: 1. Frontier progress of tropical disease prevention and control technology, 2. The current development and future research trend of tropical diseases in the post-pandemic era, 3. Research status and development trend of arboviruses

Section 1	热带病的种类及危害-The types of tropical diseases and their pathogenesis 1.1 什么是热带病? The concept of tropical disease 1.1 热带病的常见类型 The types of tropical disease 1.3 热带病的主要危害 The pathogenesis of tropical disease
Section 2	热带病的传播和爆发-The transmission and emergence of tropical disease 2.1 热带病的主要传播模式 The transmission mode of tropical disease 2.2 热带病的爆发和流行 The outbreak and epidemic of tropical disease 2.3 控制热带病传播的环境因素 Environmental factors related to tropical disease
Section 3	热带病的防治策略-The prevention strategy of tropical diseases 3.1 热带病的主要防治手段 The control methods of tropical disease 3.2 热带病地区医疗体系现状 The current medical system in tropical area 3.3 热带病的防治难点 The difficulties in tropical disease prevention
Section 4	烈性病毒性热带病专题-1 Acute virus induced tropical disease-1 4.1 登革热的发现和流行 The emergence and epidemic of dengue fever 4.2 登革热的致病机制 The pathogenesis mechanism dengue fever 4.3 登革热的传播机制 The transmission mechanism of dengue fever
Section 5	烈性病毒性热带病专题-2 Acute virus induced tropical disease-2 5.1 登革热的防治研究进展 The advances in dengue fever prevention 5.2 登革热防治研究展望 The future respective of dengue fever control
Section 6	烈性病毒性热带病专题-3 Acute virus induced tropical disease-3 6.1 西尼罗热的发生和流行 The emergence and epidemic of West Nile fever 6.2 西尼罗热的爆发和影响因素 The outbreak and associated factors of West Nile fever 6.3 西尼罗病毒的传播和致病机制 The mechanism of transmission and pathogenesis
Section 7	烈性病毒性热带病专题-4 Acute virus induced tropical disease-4 7.1 西尼罗病毒的检测和防治 The surveillance and prevention of West Nile fever 7.2 西尼罗病毒的未来研究展望 The future respective of West Nile fever
Section 8	烈性病毒性热带病专题-5 Acute virus induced tropical disease-5 8.1 寨卡的发生和流行 The emergence and epidemic of zika 8.2 寨卡的传播特点和危害 The transmission and prevalence of zika
Section 9	烈性病毒性热带病专题-6 Acute virus induced tropical disease-6 9.1 寨卡病毒的致病机制 The pathogenesis mechanism of zika virus 9.2 寨卡病毒的防治策略 The prevention strategy of zika virus 9.3 寨卡病毒的检测和未来研究展望 The surveillance and future respective of zika
Section 10	烈性病毒热带疾病的共感染 The co-infection of acute virus induced tropical diseases 10.1 热带疾病共感染现状 The current co-infection of virus induced tropical

	disease 10.2 共感染的潜在威胁 The potential threat of co-infection 10.3 共感染问题的难点 The difficulties in co-infection research
Section 11	寄生虫引起的热带病专题-1 11.1 寄生虫引起的主要热带病种类 The types of parasites induced tropical disease 11.1 疟疾的发生和流行 The origin and epidemiology of Malaria 11.2 疟疾传播的和防治 The transmission and prevention strategy of Malaria
Section 12	寄生虫引起的热带病专题-2 12.1 疟原虫 Plasmodium 12.2 疟原虫的传播 The transmission of plasmodium 12.3 疟原虫和宿主 Plasmodium and its host
Section 13	寄生虫引起的热带病专题-3 13.1 血吸虫病发生与流行 The origin of schistosomiasis and it epidemiology 13.2 血吸虫病的传播 The transmission of schistosomiasis 13.3 血吸虫病的主要危害 The pathogenesis of schistosomiasis
Section 14	寄生虫引起的热带病专题-4 14.1 血吸虫种类 The types of schistosome 14.2 血吸虫与宿主 The schistosome and its host 14.3 血吸虫病的防治和展望 The prevention and future research perspective
Section 15	寄生虫引起的热带病专题-5 15.1 包虫病的发生与流行 The origin of echinococcosis and its epidemiology 15.2 包虫病的传播及危害 The transmission and pahotogenesis of echinococcosis 15.3 包虫病的防治以及展望 The prevention and future research perspective
Section 16	寄生虫引起的热带病专题-6 16.1 利什曼病的发生与流行 The origin of Leishmaniasis and its epidemiology 16.2 利什曼病的传播及危害 The transmission and pahotogenesis of Leishmaniasis 16.3 利什曼病的防治以及展望 The prevention and research perspective of Leishmaniasis
Section 17	细菌引起的热带病专题-1 17.1 细菌引起的热带病种类 The types of bacterial induced tropical disease 17.2 麻风病的发生和流行 The origin of leprosy and its epidemiology 17.3 麻风病的传播及危害 The transmission and pahotogenesis of leprosy
Section 18	细菌引起的热带病专题-2 18.1 霍乱的发生与流行 The emergence and epidemic of cholera 18.2 霍乱的传播与防治 The transmission and prevention of cholera 18.3 细菌性热带病的防治和展望 The prevention and future research perspective of bacterial induced tropical disease
Section 19	气候变化及城市化对热带病传播的影响 The impact of climate change and urbanization on the tropical disease spread 19.1 全球气候变化趋势及对热带病传播的影响 The trend of global climate change and its impact on tropical disease transmission 19.2 热带地区快速城市化对热带病防治的影响 The urbanization in tropical area and its impact on tropical disease 19.3 热带地区城市化进展中医疗体系的构建和发展 The establishment and development of medical system in tropical are under the rapid urbanization
Section 20	热带病的防控及全球健康 The control of tropical disease and global health 20.1 全球健康理念 The concept of the global health 20.2 热带病防治在全球健康中的位置 The position of tropical disease prevention in the global health

Section 21	热带病的未来研究趋势 The future research direction of tropical disease 21.1 热带病的研究展望 The future research perspective of tropical disease 21.2 热带病的监测和诊疗技术 The surveillance and diagnosis techniques of tropical disease 21.3 热带病的综合防治展望 The perspective of the comprehensive prevention of tropical disease
Section 22	专题研讨-1 热带疾病防控技术前沿进展 Seminar-1 The advances in the frontiers of tropical disease prevention 22.1 前沿技术在热带病检测中的应用 The application of emerging technology in the surveillance of tropical disease 22.2 疫苗以及抗病药物进展 The vaccine and antiviral drugs development 22.3 健康大数据在热带病防控中的应用 The application of mega health data in the prevention of tropical disease
Section 23	专题研讨-2 易被忽视的热带病 Seminar-2 The neglected tropical disease 23.2 热带病为什么易被忽视? Why tropical disease is often neglected? 23.3 热带病有哪些值得关注的公共卫生隐患? The potential public health concern caused by tropical disease 23.4 如何为可能的公共卫生隐患做出相应的准备? How to prepare for the potential public health concern caused by tropical disease
Section 24	专题研讨-3 后疫情时代热带病研究发展趋势 Seminar-3 The development of tropical disease in the post covid19 pandemic 24.1 新冠疫情对热带病的诊疗和监测的影响 The impact of covid pandemic on the surveillance and diagnosis of tropical disease 24.2 后疫情时代热带病研究展望 The future perspective for tropical disease research the post pandemic
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13. 课程考核 Course Assessment	
(①考核形式 Form of examination; ②.分数构成 grading policy; ③如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference.) 本课程考核方式为考查, 期末考核满分 100 分。主要将从出勤 (15%), 课堂表现 (15%), 课后作业 (20%) 和期末报告 (50%) 等几个方面的对学生进行考查。 This course is assessed by examination, and the final assessment is account for 100 points. Students will be assessed from attendance (15%), class performance (15%), homework (20%) and final report (50%).	
14. 教材及其它参考资料 Textbook and Supplementary Readings	
主要参考教材以及书籍: 1.周元平, 侯金林主编. 热带病学 (第二版) 【M】.北京: 人民卫生出版社, 2013 2.贺联印主编. 热带医学【M】.北京: 人民卫生出版社, 2004 3. Yann A. Meunier. Tropical Diseases: A Practical Guide for Medical Practitioners and Students, Oxford University Press, 2013 4. Jeremy Farrar et al., Manson's Tropical Diseases, (23 rd ed.), Saunders Ltd, 2014 5. Andrew Brent et al., Oxford Handbook of Tropical Medicine (4 th ed.), Oxford University Press, 2014. 6. Camilla Rothe, Clinical cases in Tropical Medicine (2 nd ed.), Elsevier, 2020. 7. Giovanni Benelli and Heinz Mehlhorn, Mosquito-borne Diseases: Implication for Public Health (1 st ed.), Springer, 2018.	