

<b>Course title</b> <English>	医学基礎 II Basic Medicine II	<b>Affiliated department, Job title,Name</b>	Graduate School of Medicine Professor,KOIZUMI AKIO Kyoto University Hospital Program-Specific Professor,UESHIMA KENJI		
<b>Target year</b>	Professional degree students	<b>Number of credits</b>	2	<b>Course offered year/period</b>	2017/Second semester
<b>Day/period</b>	Thu.2	<b>Class style</b>	Lecture	<b>Language</b>	Japanese and English
<b>[Outline and Purpose of the Course]</b>					
<p>Director and Instructors: Harunori Ohmori (Professor, Emeritus of Kyoto University) Kenji Ueshima(Professor, Department of EBM research,Institute for Advancement of Clinical and translational Science, Kyoto University Hospital)</p> <p>This course introduces the basics of human anatomy , physiology endocrinology , biochemistry , immunology as a basis for the understanding of human diseases.</p>					
<b>[Course Goals]</b>					
<ul style="list-style-type: none"> <li>• To understand the basics of circulatory system</li> <li>• To understand the basics of the structure and function of nervous system</li> <li>• To understand the basics of sensory system</li> <li>• To understand the basics of movement control</li> </ul>					
<b>[Course Schedule and Contents]</b>					
<p>Course Schedule (*Schedule may be changed)</p> <p>1 Oct 5 Circulatory system (Introduction)</p> <p>2 Oct 12 Circulatory system 1 (valvular heart disease, congenital heart disease, and vascular disease)</p> <p>3 Oct 19 Circulatory system 2 (ischemic heart disease and emergency medicine)</p> <p>4 Oct 26 Circulatory system 3 (hypertension and arrhythmia)</p> <p>5 Nov 2 Neuronal cell and signaling</p> <p>6 Nov 9 Nervous cell research</p> <p>7 Nov 16 chemical transport at cell membrane and excitability</p> <p>8 Nov 23 Neuronal activity and ion channels</p> <p>9 Nov 30 Transduction of neuronal activity</p> <p>10 Dec 7 Nervous and muscular signal transduction</p> <p>11 Dec 14 Signal transmission at synapses and their plasticity</p> <p>12 Dec 21 Energy conversion and sensory perception</p> <p>13 Dec 28 Sensory system</p> <p>14 Jan 11 Neuronal mechanisms of auditory system</p> <p>15 Jan 18 Cerebral efferent circuit function</p>					
<b>[Class requirement]</b>					
Second Semester , Required for students without medical background					
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## 医学基礎 II(2)

### [Method, Point of view, and Attainment levels of Evaluation]

Attitude & Attendance 30% , Examination 70%

### [Textbook]

Suggested readings:

- ・佐藤昭夫、佐伯由香編．人体の構造と機能．医歯薬出版，2006．
- ・テイポドー、パットン(コメディカルサポート研究会訳)．カラーで学ぶ解剖生理学．医学書院，2002．
- ・A.シェフラー、S.シュミット(三木明德、井上食央訳)．からだの構造と機能．西村書店，2002．
- ・クロスマン、ネアリー（野村蟻、水野昇訳）．神経解剖カラーテキスト 第2版．医学書院，2008．
- ・大地陸男（著）．生理学テキスト．文光堂，2013．
- ・福田康一郎（監修）．標準生理学．医学書院，2014．
- ・Eric Kandel、James Schwarts 他．Principles of Neural Science 5th edition．McGraw-Hill Professional, 2012.  
（日本語版）金澤一郎、宮下保司（監修）．カandel神経学．メディカルサイエンスインターナショナル，2014．
- ・泰羅雅登、中村克樹（監修、翻訳）．カールソン神経科学テキスト 脳と行動．丸善出版，2013

### [Reference books, etc.]

（ Reference books ）

### [Regarding studies out of class (preparation and review)]

Preparation in advance and review after lecture

### （ Others (office hour, etc.) ）

Akio Koizumi (Education Committee Chairman; Professor , Department of Health and Environmental Sciences : koizumi.akio.5v@kyoto-u.ac.jp)

The class is open to students from Graduate School of Human Health Science.

\*Please visit KULASIS to find out about office hours.