2022 Akita University Faculty of Medicine Syllabus

Category ： 基礎医学アドバンストコース
Course Title ： Advanced Clinical Anatomy
Eligible Students ： grade 2 Elective Course
Code ： 71564009
Schedule ： week 31 〜 week 31
Credits ： 1

1. **Lead Instructor**

Yoshio Bando (Professor, Dept. of Anatomy, 6053, Office Hour: 随時（要アポイントメント）)

2. **Instructors**

Yoshio Bando (Professor, Dept. of Anatomy, 6053, Office Hour: 随時（要アポイントメント）)
Ryoji Suzuki (Associate Professor, Dept. of Anatomy, 6054, Office Hour: 随時（要アポイントメント）)
Hiroshi Minagawa (Part-time Lecturer, Johto Orthopedic clinic)
Etsuko Fushimi (Part-time Lecturer, Hiraka general hospital)

3. **Course Description Outline(Course Objectives)**

Aim

In order to understand the pathophysiology of each disease required in clinical practice and practice medical treatment, we perform regional anatomy to deeply understand. Also through lectures by the outstanding specialist in orthopedics and cardiology, you will learn the principles and basic operations of ultrasound equipment, as well as the basic view of ultrasound images. Moreover, you will also be asked to understand current regional medical care and issues in Akita and you are facing in various issues of regional medical care in the case of Akita. Professionalism, medical ethics, medical safety, medical law (system) and EBM are also practiced in this course.

Overview

1)Understand and explain the major organs.
2)Explain the structure and function of major organs, vessels and nerves.
3)Explain the elbow and carpal joints and their surrounding structures (ligaments, tendons, blood vessels, nerves).
4)Explain the structure and function of the heart.
5)Explain the principle of ultrasound equipment.
6)Can perform basic operations of ultrasound equipment.
7)By associating the normal ultrasound image of the joint obtained using the ultrasound equipment with the image of the joint structure observed by regional anatomy, the information obtained from the ultrasound image can be explained accurately.
8)By associating the normal ultrasound image of the heart obtained using an ultrasound device with the image of the heart structure observed by local anatomy, the information obtained from the ultrasound image can be explained accurately.
9)Understand the basic view of ultrasound images in typical heart diseases and can actually identify the main abnormal findings.
10)Be able to explain the problems and required clinical abilities of community medicine related to this area, and express one's own thoughts on the solutions.
11)Professionalism, medical ethics, medical safety, medical law (system), related to this area, EBM Can explain and practice.

4. **Textbook/Reference Books**

1.Textbook
Gray's anatomy (Elsevier Japan)
Clinical Neuroanatomy (Elsevier Japan / Ishiyaku Publications)
Neuroanatomy Lecture Note (Kinhodo)
Anatomy training tebiki (Nanzan-do)
Anatomy Atlas (Netter, Gray, Prometheus Anatomy, etc.)

2. Reference book

Moore Clinical Anatomy (Medical Science International)

Anatomy for clinical practice (Medical Science International)

5. **Assessment**

Comprehensive evaluation will be made based on the approach to practical training, attendance status, and report assignments in special lectures and practical training.

6. **Out of Class Study/Message**

In this course, we will practice a new medical education (integrated curriculum) that integrates anatomy (basic) and clinical practice. Due to the short implementation period, you yourselves set the composition of the group, the training schedule, the contents and the goals to be achieved before the start of this course. It is desirable to work voluntarily according to the rules (notify the students separately). In addition, attendance at the cremation held after the end of this course must be required (scheduled date on the syllabus and undecided). If the schedule changes due to the situation, we will notify you in advance.

Topics and Contents of class, Course Objectives						
	Class Date	**Period**	**Class Format**	**Topics and Contents of class, Course Objectives**	**Instructors**	**Class Room**
1	12 / 5 (Mon)	1-10	Practice	Theme: Regional anatomy Perform regional dissection based on the tasks and goals set for each group	Yoshio Bando Ryoji Suzuki	第 1 実習室
2	12 / 6 (Tue)	1-10	Practice	Theme: Regional anatomy Perform regional dissection based on the tasks and goals set for each group	Yoshio Bando Ryoji Suzuki	第 1 実習室
3	12 / 7 (Wed)	1-4	Practice	Theme: Regional anatomy 1)Perform regional dissection based on the tasks and goals set for each group 2)Observe the elbow and carpal joints and their surrounding structures and explain their characteristics.	Yoshio Bando Ryoji Suzuki	第 1 実習室
4	12 / 7 (Wed)	5-10	Practice	Theme: Observation of joints and nerves by ultrasound Understand the principles and basic operations of ultrasonic diagnostic equipment. 1)Explain the principle of ultrasonic diagnostic equipment. 2)Explain the advantages and disadvantages of ultrasonic diagnostic equipment. 3)Can perform basic operations of ultrasonic diagnostic equipment. 4)Operate the device by yourself with ultrasound images of elbows and wrists 5)Can explain a normal structure and an abnormal structure with ultrasound images. 6)Explain the problems and the clinical capabilities in community medicine in Akita in the field of orthopedics.	Hiroshi Minagawa	第 1 会議室（予定）
5	12 / 8 (Thu)	1-10	Practice	Theme: Regional anatomy 1)Perform regional dissection based on the tasks and goals set for each group 2)Observe heart and the surrounding structures and explain their characteristics.	Yoshio Bando Ryoji Suzuki	第 1 実習室
6	12 / 9 (Fri)	1-4	Practice	Theme: cleaning of the practical room, encoffinment and cremation cleaning of the practical room, encoffinment and cremation		第 1 実習室
7	12 / 9 (Fri)	5-8	Lecture	Theme: Basic medical research in neurological diseases 1) grow research-mind up to be a physician/scientist 2) learn how to do research 3) understand the meaning of medical research	Yoshio Bando	第 1 会議室（予定）
8	12 / 9 (Fri)	9-10	Lecture	Theme: Clinical Anatomy for Echocardiography Basic cardiac anatomy and echocardiographic images for clinical use Understand the point of view. 1)Can explain the structure of the heart on echocardiographic images . 2)Judging normal and abnormal valve movement from echocardiographic images 3)The major abnormal findings can be identified from the echocardiographic images. 4)Explain the problems and the clinical capabilities in community medicine in Akita in the field of cardiology.	Etsuko Fushimi	

Topics and Contents of class, Course Objectives						
	Class Date	**Period**	**Class Format**	**Topics and Contents of class, Course Objectives**	**Instructors**	**Class Room**
9	12 / 12 (Mon)	1-10	Other	Theme: Cremation Must attend cremation	Yoshio Bando Ryoji Suzuki	