

Clinical Anatomy

1. Staffs and Students (April, 2009)

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2. Purpose of Education

Clinical anatomy is generally considered as the practical application of anatomical knowledge to diagnosis and treatment, however we think that this course is a part of pure anatomical science based on the findings of the morphological observations of the human bodies. Main objective of Clinical anatomy in the graduate course is to make detailed anatomical data to answer the questions developed from clinical fields especially by surgeons and radiologists. We collaborate with many clinicians: ENT, orthopedics, gynecology, thoracic surgery, radiology and so on, and our projects have been broad areas. Students are expected to get fine dissection techniques of human bodies and also learn techniques of histology and embryological experiments. By using these techniques, we study the spatial relationships of organs, vessels nerves, and also try to examine their developmental processes in various projects.

3. Research Subjects

- 1) Anatomical study of the shoulder joint and rotator cuff.
- 2) Analyses of the lamination in the masticatory muscles with special reference of nerve supply
- 3) Embryological study of the differentiation of cloaca and surrounding muscles.
- 4) Cadaveric study of the female pelvis for the gynecologic oncology and colposcopy

4. Publications

Original Article

1. Yamaguchi K, Kiyokawa J, Akita K. Developmental processes and ectodermal contribution to the anal canal in mice. *Ann Anat.* 2008 190(2):119-28.
2. Mochizuki T, Sugaya H, Uomizu M, Maeda K, Matsuki K, Sekiya I, Muneta T, Akita K. Humeral insertion of the supraspinatus and infraspinatus. New anatomical findings regarding the footprint of the rotator cuff. *J Bone Joint Surg Am.* 2008 May;90(5):962-9.
3. Tanaka R, Ibukuro K, Akita K. The left inferior phrenic artery arising from left hepatic artery or left gastric artery: radiological and anatomical correlation in clinical cases and cadaver dissection. *Abdom Imaging.* 2008 May-Jun;33(3):328-33.
4. Usui A, Akita K, Yamaguchi K. An anatomic study of the divisions of the lateral pterygoid muscle based on the findings of the origins and insertions. *Surg Radiol Anat.* 2008 Jun;30(4):327-33.
5. Arai R, Sugaya H, Mochizuki T, Nimura A, Moriishi J, Akita K. Subscapularis tendon tear: an anatomic and clinical investigation. *Arthroscopy.* 2008 Sep;24(9):997-1004.
6. Hamada J, Igarashi E, Akita K, Mochizuki T. A cadaveric study of the serratus anterior muscle and the long thoracic nerve. *J Shoulder Elbow Surg.* 2008 Sep-Oct;17(5):790-4.
7. Nakamura M, Nishiyama Y, Henmi C, Iwanaga S, Nakagawa H, Yamaguchi K, Akita K, Mochizuki S, Takiura K. Ink jet three-dimensional digital fabrication for biological tissue manufacturing: analysis of alginate microgel beads produced by ink jet droplets for three dimensional tissue fabrication. *J. Imaging Sci Technol.* 2008 52:6