

講義ユニット名 Title of Lecture	Orthopedic Surgery		所属科目名 Title of Course	Clinical diagnosis and treatment II
講義ユニット責任者 Responsible Instructor	NOBUO ADACHI	所属 Affiliation	Orthopedic Surgery (内線 Ext. Number 5233)	
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講義ユニットコーディネーター Lecture Coordinator	NOBUO ADACHI	所属 Affiliation	Orthopedic Surgery (内線 Ext. Number 5233)	
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授業方法 Lesson Style	Lectures using Power Point slides.			
概要 Overview	<p>The scope of orthopaedic surgery is to understand the structure of the Locomotorium, the basic knowledge, diagnosis and treatment of locomotor disorders and diseases. The locomotorium is the general term for tissues that support and move the body, including bones, joints, muscles, ligaments and nerves. Diseases of the locomotorium are prevalent through all age groups, from neonates to elderly people. The diseases are found in various sites of the body, such as the upper extremity (the shoulder, elbow, and hand), the lower extremity (the knee, and foot), the spine/spinal cord, and the pelvis. Diseases range widely, including congenital deformities, disorders during the growth period, sports injury, traffic injury, osteoarthritis, rheumatism, osteoporosis, and bone and soft tissue tumors. Treatment options also range widely from conservative treatments, including medication and physical therapies, to surgical treatments, which require extensive knowledge and skill. Our lecture covers basic science, anatomy, surgical approaches, evaluation, treatment and anticipated outcome of orthopaedic surgery.</p>			
講義ユニットの到達目標 Academic Goals	<p>Highlights include full discussions of:</p> <p>The structures and functions of bones, cartilages, joints, and ligaments of the head and face, the extremities, and the spine.</p> <p>The movements and innervation of the major muscles of the extremities.</p> <p>The mechanisms of bone remodeling..</p> <p>The pro- and anti-gravity muscles in posture and gait.</p> <p>Manual testing (range of motion, manual muscle testing) and sensory testing.</p> <p>Diagnostic imaging tests (radiography, MRI, myelography, bone mineral density testing) of the musculoskeletal system.</p> <p>The diagnosis, treatment and complications of bone fractures.</p> <p>The mechanism and pathology of osteoporosis and list predilection sites for bone</p>			

	<p>fractures.</p> <p>The classification, diagnosis, and treatment of joint dislocation and subluxation.</p> <p>The causes, symptoms and treatment of osteoarthritis.</p> <p>The diagnosis and treatment of lumbar disc herniation.</p> <p>The diagnosis, treatment, and rehabilitation of spinal cord injury.</p> <p>The neurological symptoms of cervical spondylolytic myelopathy.</p> <p>The symptoms and treatment of lumbar spinal canal stenosis.</p> <p>The symptoms and treatment of spondylolysis and spondylolisthesis.</p> <p>The predilection of sites and the diagnosis of metastatic spinal tumors.</p> <p>The diagnosis and treatment of osteosarcoma and Ewing's sarcoma.</p> <p>The diagnosis and treatment of osteogenesis imperfect and osteochondrodysplasia.</p> <p>The diagnosis and treatment of compartment syndrome.</p> <p>Rehabilitation of bone and joint diseases.</p> <p>The current state and future prospect of regenerative medicine.</p>
<p>講義日程 Class Schedule</p>	See the attached schedule.
<p>出席の取り扱い Class Attendance Policy</p>	<p>Attendance is taken every lecture using the Student Attendance Management System.</p> <p>A student whose attendance is less than two-thirds of all the classes is not eligible for taking the final examination.</p>
<p>評価項目 Evaluation Item</p>	Basic understanding and application of knowledge
<p>評価法 Evaluation Method</p>	Term-end Examinations (multiple-choice test)
<p>履修上のアドバ イス Advice for Taking the Lecture</p>	Preparation and review
<p>推奨参考書 Recommended Reference Books</p>	<p><i>Hyojun Seikeigekagaku (Standard Textbook)</i>. 11th ed. Co-authorship. Igakushoin</p> <p>Hoppenfeld S. <i>Physical Examination of the Spine and Extremities (Shishi to Sekitsui no Mikata)</i>. Sutou T. trans. Ishiyaku Publishing Inc.</p> <p>Hoppenfeld S. <i>Orthopaedic Neurology: A Diagnostic Guide to Neurologic Levels (Seikei Gekai-notameno Shinkeigaku Zusetsu: Sekizui Shinkeikon Shogai Level-no Mikata)</i>. Tsuyama N. trans-ed. Nankodo Publishing Inc.</p>