

Category (科目区分)	Cluster of Biofunctional Systems		
Course Title (授業科目名)	Cardiovascular surgery, practical training		
Instructors (担当者名)	Hiroyuki Nakajima	Academic Year (配当年次)	1st or 2nd year
Required course / Elective Course (必修/選択)	Elective Course	Credits (単位数)	1 credit
Class Format (授業形態)	Lecture		
Schedule (開講期間)	Students will be notified by email after course registration.		
Class Date/Period (開講曜日・時間)	Students will be notified by email after course registration.		
Course Outline/ Course Objectives (授業の概要・到達目標)			
<p>Course Outline</p> <ol style="list-style-type: none"> 1. surgical procedures for congenital heart disease (inguinal surgery, endocardial repair surgery) 2. valvular disease (valvuloplasty, valve replacement, aortic root replacement) 3. coronary artery disease (on pump and off pump surgery) <p>Surgical techniques for aortic disease (true aortic aneurysm, dissecting aortic aneurysm, aortitis syndrome, etc.)</p> <ol style="list-style-type: none"> 5. peripheral vascular disease (arterial revascularization for chronic atherosclerosis) 6. assisted circulation (intra-aortic balloon pump, left ventricular assist device, etc.) <p>Endovascular therapy (stent therapy)</p> <p>Course Objectives</p> <p>The goal of this course is to understand the basic concepts of cardiovascular diseases that are subject to surgery and the pathology and conditions necessary for surgical treatment.</p>			
Course Planning (授業計画)			
	Course Outline/ Course Objectives (授業の概要及び到達目標) (Contents of Class) (授業内容)	Instructor (担当教員名)	Department (講座名) Class Room [実施場所]
1	Surgery for congenital heart disease	Hiroyuki Nakajima Daichi Takagi	Department of cardiovascular surgery [Online/on-demand]
2	Surgery for valvular disease		
3	Surgery for coronary artery disease		
4	Surgery for aortic disease		
5	Surgery for peripheral artery disease		
6	Assisted circulation (Ventricular assist device, etc.)		
7	Endovascular aortic repair		
Grading Criteria (成績評価の基準と方法)			
Evaluation will be based on attendance and submitted reports.			
Contact Information (問い合わせ先(氏名, メールアドレス等))			
Name: Hiroyuki Nakajima / E-mail: cvs@cvs.med.akita-u.ac.jp			
Comment (その他特記事項)			
<p>Information about the course:</p> <p>For working graduate students who are unable to attend the practical training due to work commitments, the schedule will be adjusted.</p> <p>Textbook and references: Kirklin/Barratt-Boyes Cardiac Surgery, 4th ed.</p> <p>Self-study time: It is desirable to use reference materials after the course in order to deepen understanding of the contents.</p>			