

Course number	Name of the Course			Japanese Name	
HE40043	Practice of Clinical Biochemistry			生化学成分検査学実習	
Class	Unit	Module	Week	Time	Room
2 <sup>nd</sup> year	2 unit	Fall A, B C	Monday	3 <sup>rd</sup> - 5 <sup>th</sup> hour 3 <sup>rd</sup> - 4 <sup>th</sup> hour	4B211
Instructors (Office • Tel • email • Office hour)					
Junichi Shoda ( Room: Medical Sciences building 860 • Tel:91651)					
Yoshimi Nakagawa ( Room: Health Medical Science Innovation Laboratory 703 • Tel: 3345)					
Eiji Warabi (Room: 4A 872-2 • Tel: 3291)					
Fumiyo Yoshida (Room: 4B 208 • Tel: 7995, 91344)					
Objectives					
Analyze the biochemical components in blood according to the experimental protocols. Evaluate the results taking into account the analytical and physiological change factors.					
Language: <input checked="" type="checkbox"/> / <input type="checkbox"/> Japanese、 <input type="checkbox"/> English、 <input checked="" type="checkbox"/> Bilingual					
<ol style="list-style-type: none"> <li>1. (10/1) Orientation, Preparation of samples and reagents</li> <li>2. (10/9) Determination of total protein and serum albumin</li> <li>3. (10/15) Determination of protein fraction</li> <li>4. (10/22) Determination of non-protein nitrogen 1 : Creatinine and Creatinine clearance</li> <li>5. (10/29) Determination of non-protein nitrogen 2 : Urea nitrogen</li> <li>6. (11/12) Determination of non-protein nitrogen 3 : Bilirubin</li> <li>7. (11/19) Determination of lipids 1 : Lipoprotein fraction</li> <li>8. (11/26) Determination of lipids 2 : Total cholesterol, HDL cholesterol, and triglyceride</li> <li>9. (12/3) Preparation of samples and reagents 2</li> <li>10. (12/10) Determination of enzymes 1 : ALP</li> <li>11. (12/17) Determination of enzymes 2 : AST</li> <li>12. (1/7) Determination of enzymes 3 : LD and LD isozymes</li> <li>13. (1/15) Determination of minerals 1 : Ca and Inorganic phosphorus</li> <li>14. (1/23) Determination of minerals 2 : Fe and TIBC</li> <li>15. (1/28) Final Examination</li> <li>16. (2/4) Occasional date</li> </ol>					
Levels for credit needed	Attendance to the class; report submission; practical exam at end-term				
Text and materials	Original experimental textbook (2014 version) Text : 臨床検査学講座／臨床化学検査学 (医歯薬出版)				
Grade evaluation	The percentage of attendance, reports, final examination				
Remarks : ① Minimal requirement for credit grant: 1) At least 70% attendance to the class, and 2) Submission report Grade C or higher.					
② The clinical chemistry is a practical study. Preparation for the lessons is important. Take care to get the exact results quickly, even if you use a small volume of samples.					