

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. (10/2) Orientation, Preparation of samples and reagents</li> <li>2. (10/10) Tue. Determination of total protein and serum albumin</li> <li>3. (10/16) Determination of protein fraction</li> <li>4. (10/23) Determination of non-protein nitrogen 1 : Creatinine and Creatinine clearance</li> <li>5. (10/30) Determination of non-protein nitrogen 2 : Urea nitrogen</li> <li>6. (11/13) Determination of non-protein nitrogen 3 : Bilirubin</li> <li>7. (11/20) Determination of lipids 1 : Lipoprotein fraction</li> <li>8. (12/4) Determination of lipids 2 : Total cholesterol, HDL cholesterol, and triglyceride</li> <li>9. (12/11) Preparation of samples and reagents 2</li> <li>10. (12/18) Determination of enzymes 1 : ALP</li> <li>11. (12/25) Determination of enzymes 2 : AST</li> <li>12. ( 1/9) Tue. Determination of enzymes 3 : LD and LD isozymes</li> <li>13. (1/17) Wed. Determination of minerals 1 : Ca and Inorganic phosphorus</li> <li>14. (1/22) Determination of minerals 2 : Fe and TIBC</li> <li>15. (1/29) Final Examination</li> <li>16. (2/5) Occasional date</li> </ol>					
Levels for credit needed	Minimal requirement for credit grant (criteria common to all practical subjects of Sch. Med. Sci.): 1) At least 2/3 attendance to the class, and 2) Submission of reports evaluated as Grade C or higher.				
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	In addition to performance in the class and the report evaluation, examinations may be underwent for particular subjects. For this subjected, evaluation is made by 【 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.					