

講義ユニット名 Title of Lecture	Hematology		所属科目名 Title of Course	Clinical diagnosis and treatment II
講義ユニット責任者 Responsible Instructor	ICHINOHE TATSUO	所属 Affiliation	Hematology (内線 Ext. Number 5858)	
		メール E-mail		
講義ユニットコーディネーター Lecture Coordinator	ICHINOHE TATSUO	所属 Affiliation	Hematology (内線 Ext. Number 5858)	
		メール E-mail		
授業方法 Lesson Style	Lectures using Power Point slides.			
概要 Overview	Students will acquire basic knowledge and skills in hematology through understanding normal hematopoietic tissues and the diagnosis and treatment of representative hematological disorders and learning blood testing skills.			
講義ユニットの到達目標 Academic Goals	<p>Explain the structure of the bone marrow.</p> <p>Explain the process of differentiation and maturation of blood stem cells into all types of blood cells.</p> <p>Explain the structures and functions of the spleen, the thymus, the lymph node, the tonsils, and the Peyer's patches.</p> <p>Explain the types, structures, and functions of plasma proteins.</p> <p>Explain the structure and function of a red blood cell and of hemoglobin.</p> <p>Explain the types and functions of white blood cells.</p> <p>Explain the function of blood platelets and the mechanisms of hemostasis and coagulation/fibrinolysis.</p> <p>Explain reference values of plasma proteins and the significance of changes in these values.</p> <p>Explain the causes, classification, and pathology of anemia.</p> <p>Classify anemia and list tests useful for differentiation.</p> <p>Explain important points in treating patients with anemia.</p> <p>Explain the causes, pathology, diagnosis, and treatment of iron-deficiency anemia.</p> <p>Explain the causes, pathology, diagnosis, treatment, and prognosis of aplastic anemia.</p> <p>Explain the causes, pathology, diagnosis, and treatment of hemolytic anemia.</p> <p>Explain the causes, pathology, diagnosis, and treatment of megaloblastic anemia.</p> <p>Explain the causes, pathology, diagnosis, treatment, and prognosis of acute leukemia.</p> <p>Give an outline of the FAB Classification of acute leukemia.</p> <p>Explain the pathology, diagnosis, treatment, and prognosis of chronic myeloid</p>			

	<p>leukemia.</p> <p>Explain the clinical presentation of myelodysplastic syndrome (MDS).</p> <p>Explain the causes, epidemiology, and clinical findings of adult T-cell leukemia.</p> <p>Explain the difference between childhood leukemia and adulthood leukemia.</p> <p>Explain the causes, pathology, diagnosis, and treatment of polycythemia vera.</p> <p>Give an outline of the classification of malignant lymphoma and explain the pathology, symptoms, diagnosis, treatment, and prognosis.</p> <p>Explain the pathology, symptoms, diagnosis, treatment, and prognosis of multiple myeloma.</p> <p>Give an outline of monoclonal gammopathy.</p> <p>Explain the causes and pathology of bleeding tendency.</p> <p>Explain the causes, pathology, symptoms, and diagnosis of bleeding tendency.</p> <p>Explain important points in diagnosing patients with bleeding tendency.</p> <p>Explain the pathology, symptoms, diagnosis, and treatment of idiopathic thrombocytopenic purpura (ITP).</p> <p>Explain the pathology, symptoms, diagnosis, treatment, and hereditary forms of hemophilia.</p> <p>Explain the underlying disease, pathology, diagnosis, and treatment of disseminated intravascular coagulation (DIC).</p> <p>Explain the underlying disease, pathology, diagnosis, and treatment of hemolytic-uremic syndrome (HUS).</p> <p>Give an outline of allergic/vascular purpura.</p> <p>Give an outline of thrombotic thrombocytopenic purpura (TTP).</p> <p>List diseases causing splenomegaly and explain key points of differentiation.</p> <p>Give a brief explanation of hematopoietic stem cell transplantation as regenerative therapy and immunotherapy.</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>	Attendance is taken every lecture using the Student Attendance Management System. A student whose attendance is less than two-thirds of all the classes is not eligible for taking the final examination.
<p>評価項目 Evaluation Item</p>	Achievement level of goals (basic understanding and application of knowledge)
<p>評価法 Evaluation</p>	Examination (in the form of MCQ)

Method	
履修上のアドバイス Advice for Taking the Lecture	
推奨参考書 Recommended Reference Books	[Reference books recommended for purchase] Pathophysiology of Blood Disorders, 1st edition, edited by H. Franklin Bunn and Jon C. Aster, McGraw-Hill (2011)