

## Course description

### Part 2

Other useful information about the course		
<b>12. Department of Hematology and Bone Marrow Transplantation, Dąbrowskiego 24, 40-032 Katowice, e-mail: klinhem@sum.edu.pl</b>		
<b>13. Name of the course coordinator: Professor Grzegorz Helbig PhD, MD</b>		
<b>14. Prerequisites for knowledge, skills and other competencies:</b> <b>For knowledge</b> – student acquires basic knowledge about blood and bone marrow disorders: aplastic anemia, granulocytopenia, agranulocytosis, thrombocytopenia, acute leukemia, myeloproliferative and myeloproliferative-myelodysplastic neoplasms, myelodysplastic syndromes, mature B and T cell neoplasms, coagulation disorders, thrombophilia, life threatening conditions in hematology, hematological disorders in other diseases <b>For skills student:</b> is able to take patient’s history, perform physical examination, knows how to recognize life threatening disorders, can plan patient’s diagnostics, therapy and prophylaxis, can choose which patients need to be hospitalized and which patients can be treated out-patiently, can interpret lab tests and can identify the possible causes of abnormal results <b>For social competencies student knows</b> how to behave and how to create and maintain good relationship with a patient, obeys the rule that patient's wellbeing is the most important principle, knows patients' laws and how to keep physician-patient privilege, knows about his own limitations and realizes the need of constant self-education		
<b>15. Number of students in groups</b>	In accordance with the Senate Resolution	
<b>16. Study materials</b>	Lectures, literature – as provided below	
<b>17. Location of classes</b>	Dept. of Hematology and Bone Marrow Transplantation	
<b>18. Location and time for contact hours</b>	Dept. Of Hematology and Bone Marrow Transplantation, time of contact hours: individually scheduled	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01 / C_K01	The student acquires knowledge of diagnosis and treatment of anemias.	E.W.7 p. 6)
P_W02 / C_K02	The student acquires knowledge of diagnosis and treatment of coagulopathies.	E.W.7 p. 6)
P_W03 / C_K03	The student acquires knowledge of acute leukemias and myelodysplastic syndromes.	E.W.7 p. 6)
P_W04 / C_K04	The student acquires knowledge of diagnosis and treatment of myeloproliferative neoplasms, spleen disorders and hypersplenism.	E.W.7 p. 6)

P_W04 / C_K04	The student acquires knowledge of diagnosis and treatment of lymphoproliferative neoplasms.	E.W.7 p. 6)
P_W04 / C_K04	The student acquires knowledge of the principles of hematooncological treatment.	E.W.7 p. 6)
P_U01 / C_S01	The student takes patient history	E.U.1
P_U02 / C_S02	The student performs physical examination	E.U.3
P_U03 / C_S03	The student recognizes life threatening disorders in hematology	E.U.14
P_U04 / C_S04	The student plans diagnostic procedures, treatment and prophylaxis	E.U.16
P_U05/ C_S05	The student chooses which patients need to be hospitalized and which patients can be treated out-patiently	E.U.20
P_U06/ C_S06	The student interprets lab tests and identifies the possible causes of abnormal results	E.U.24
<b>20. Forms and topics of classes</b>		<b>Number of hours</b>
<b>21.1. Lectures</b>		
<b>Principles of oncohematological treatment. Bone marrow and blood cell transplantation: autologous, allogeneic form siblings and from unrelated donors.</b>		<b>1</b>
<b>Coagulopathies – Vascular and platelets bleeding disorders.</b>		<b>1</b>
<b>Acute lymphoblastic leukemia.</b>		<b>1</b>
<b>Multiple myeloma and plasma cell dyscrasia – diagnosis and treatment. Hodgkin and non-Hodgkin lymphoma.</b>		<b>1</b>
<b>Chronic myelogenous leukemia and myeloproliferative disorders: polycythemia vera, myelofibrosis, essential thrombocythemia, chronic myelomonocytic leukemia (CMML)</b>		<b>1</b>
<b>Acute leukemias – pathophysiology, diagnostics and classification. Myelodysplastic syndromes.</b>		<b>1</b>
<b>Patients with leukemia -demonstration. Microscopic examination of leukemic blood and bone marrow smears.</b>		<b>1</b>
<b>Patients after BMT, principles of BMT and post-transplant care. Cell separators.</b>		<b>1</b>
<b>Anaemias – classification, diagnosis and treatment. Part II</b>		<b>1</b>
<b>Anaemias – classification, diagnosis and treatment. Part I</b>		<b>1</b>
<b>23.3. Labs</b>		
<b>Microscopic examination of normal blood and bone marrow smears (cytomorphology, cytochemistry), reactive changes, CML. Microscopic examination of leukemic blood and bone marrow smears.</b>		<b>2</b>
<b>Patients with hemorrhagic diathesis. Laboratory hemostasis evaluation.</b>		<b>2</b>
<b>Non Hodgkin Lymphomas - demonstration of patients.</b>		<b>2</b>
<b>Multiple myeloma- demonstration of patients- standard management, microscopic/ laboratory evaluation</b>		<b>2</b>
<b>Chronic lymphocytic leukemia and related disorders- demonstration of patients and microscopic evaluation.</b>		<b>2</b>
<b>Anaemias- demonstration of patients and microscopic/ laboratory evaluation.</b>		<b>2</b>
<b>Hodgkin Disease- demonstration of patients.</b>		<b>2</b>
<b>Haematological laboratory- cell counters, cytogenetics, molecular biology</b>		<b>2</b>
<b>Hematological laboratory- flow cytometry immunophenotyping of acute leukemias,</b>		<b>2</b>
<b>Collection of hematopoietic stem cells, cryopreservation</b>		<b>2</b>

**24. Readings**

**Oxford handbook of clinical haematology D.Provan, T. Baglin, I. Dokal, J de Vos. 4th Edition**

**25. Detail evaluation criteria**

In accordance with the recommendations of the inspection bodies

Completion of the course – student has achieved the assumed learning outcomes

Detail criteria for completion and evaluation of the course are specified in the course regulations