

**Appendix 2:****Academic requirements for the 6<sup>th</sup> (clinical rotation) year****I. Program of the 6th year's requirements and clerkship in internal medicine**

Students are provided with a lecture book in internal medicine at the beginning of their internal medicine studies, i.e. in September of the 5th year, which is to be completed in the final year.

The aim of the 6th year clerkship in internal medicine is to develop skills that meet the requirements of a young general practitioner. The clerkship is going to finish with an end semester-type exam (rigorosum) consisting of a written part (test), a practical part (investigation and evaluation of a patient) and an oral part (four titles).

To meet the requirements of the aim clerkship and that of the exam, the 7 week clerkship can be fulfilled completely in university hospitals or university teaching hospitals only providing tertiary care in the major internal medicine subspecialties: cardiology, endocrinology, gastroenterology, genetics, hematology/oncology, infectology/immunology, intensive care, nephrology, pulmonology/allergology. The seven-week clerkship should be structured as follows:

- 2 weeks cardiology – pulmonology
- 2 weeks endocrinology – diabetology – metabolic diseases
- 2 weeks nephrology – gastroenterology
- 1 week intensive care unit

The students are supposed to work as young resident doctors tutored by an assigned senior internal medicine specialist. The participation in the above practices should be signed by the assigned tutor in the lecture book indicating the activity of the student. The students should provide a written case report from each ward where they have done the practices (altogether four reports) to be evaluated by the tutor. Participation in grand rounds or consultations in cardiology, endocrinology, gastroenterology, hematology/oncology, infectology, intensive care, nephrology, pulmonology and immunology are required. It is extremely important for the student to be able to establish an appropriate relationship with patients and their relatives as well as to display appropriate diagnostic thinking by the end of the clerkship.

Certain practical skills in internal medicine have already been established during the 3-4-5th year internal medicine training of the students. To develop these skills to the level of a graduated general medical doctor, certain specific skills should be achieved as listed in the lecture book of students and are listed below:

History taking (hereto- and autoanamnesis)	C
Physical examination	C
Determination of blood pressure	C
Preparing and assessing outpatient charts	C
Preparing and assessing inpatient files	C
Preparing and assessing inpatient flow charts	C
Routine urinalysis	C
Evaluation of urinary sediment	C
Evaluation of CBC, determination of WBC and PLT by hemocytometry	C
Preparation and evaluation of peripheral blood smears. Assessment of differential count	C
Macroscopic evaluation of the stool	C
Nursing and feeding	C
Obtaining of somatometric factors and indices (body weight, height, BMI)	C
Physical antipyretic techniques	C
Somatomotoric and mental development status	C
Bed-side determination of blood group antigens	C
Red cell transfusion	K
Application of plasma-derived preparations	K
Platelet transfusion	K
ECG analysis	C
ABPM	C
HOLTER monitoring	C

Blood sampling – finger prick and venous blood	C
Analysis of blood gases and acid-base balance	C
Application of intracutaneous, subcutaneous, intramuscular and intravenous injection	C
Establishing i.v. line and application of parenteral infusion	C
Assessment and treatment of dehydration	C
Assessment of hernias	C
Reposition of inguinal and umbilical hernias	C
Bladder catheterization	C
Performing gastric lavage	C
Assessment of electrolyte homeostasis and correction of electrolyte disturbances	C
Application of positive inotropic agents	K
Treatment of asthmatic attacks	K
Treatment of seizures and convulsions	K
Anti-infective treatment	K
Antipyretic treatment	C
Dosages and use of frequently used drugs	K
Dosages and use of life-saving drugs	C
Differential diagnosis of sore throat	K
Differential diagnosis of rashes	K
Differential diagnosis of vomiting	K
Differential diagnosis of diarrhea	K
Differential diagnosis of constipation	K
Differential diagnosis of bleeding disorders	K
Differential diagnosis of anemia	K
Differential diagnosis of jaundice	K
Differential diagnosis of hepatosplenomegaly	K
Differential diagnosis of cyanosis	K
Differential diagnosis of hypertension	K
Differential diagnosis of proteinuria and hematuria	K
Differential diagnosis of hyperglycemic and hypoglycemic coma	C
Evaluation and treatment of the unconscious patient	K
Evaluation and treatment of urinary tract infections	K
Evaluation and treatment of patients with heart murmur and arrhythmias	K
Evaluation of chest X-ray	K
Evaluation and treatment of diabetic ketoacidosis	C
Oral glucose tolerance test	K
Assessment of growth hormone level-performance of dopamine and insulin test	K
Evaluation of frequently used laboratory parameters	K
Complex resuscitation	K
Mechanical ventilation	K
Continuous monitoring of patients treated in intensive care unit	K
Bone marrow aspiration, biopsy. Evaluation of panoptically stained bone marrow smears	A
Central venous line	A
Measurement and evaluation of central venous pressure	A
Cranial ultrasound	A
Abdominal ultrasound	K
Echocardiography	A
Irrigoscopy	A
Cranial CT	A
Urography	A
Radiologic examination of gastrointestinal passage	A
Native abdominal X-ray	K
Panendoscopy	A

A = awareness, C = competence, K = knowledge

**If the teaching hospital does not meet the above requirements, the students should spend at least two weeks of their clerkship in the Department of Internal Medicine of the given home university whose medical diploma will be issued.**

*Anyway, to spend two weeks at the Department of Internal Medicine of the home university is strongly recommended so as to acquire the necessary knowledge in the particularities of internal medicine of the home country of the university, i.e. Hungary.*

## Completion of Internal Medicine

Name of the student: \_\_\_\_\_

Starting date: (DD, MM, YYYY) \_\_\_\_\_

Place of course: \_\_\_\_\_

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Finishing date: (DD, MM, YYYY): \_\_\_\_\_

Assessment: \_\_\_\_\_

Comments, suggestions and proposals of assessing doctor(s):

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Signature and stamp