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Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY
Director of the Institute of Simulation
and Training Technology
_____ / Gnezdilov V.V./
"10th" of April 2025

COLLECTION OF ASSESSMENT TOOLS
Б1.О.47 Fundamentals of functional diagnostics
of the basic educational program
# of Higher Education

Specialty	**31.05.01 General Medicine for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system)
Mode of study	**Full-time**
Period of mastering the BEP	**6 years** (nominal length of study)
Institute	of Simulation and Training Technology

Vladivostok, 2025

1. INTRODUCTION

1.1. Collection of Assessment Tools is a document that regulates the format, content, and types of assessment tools for continuous assessment, interim examination and final (state final) examination, and graded criteria for each type of assessment tools.

1.2. Assessment tools allows to evaluate the development of universal, general professional, and professional competencies (UCs, GPCs and PCs respectively) outlined in Federal State Educational Standard of Higher Education and defined in the basic educational program of higher education for the specialty 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system).

(BEP HE for the 31.05.01 General Medicine for international students (in English) specialty, section 3 Learning Outcomes Requirements of the Basic Educational Program of Higher Education)

2. DOCUMENT BODY

2.1. Types of Assessment, Formats of Assessment Tools

No.	Types of assessment	Assessment Tools Format
1	**Continuous assessment**	**Tests**
		Checklist
2	**Interim assessment**	**Tests**
		Checklist

3. The contents of assessment tools for continuous and interim examination are prepared by the teacher of the course

Test questions

	Code	Competence description / name of labor function / name of work activity / text
S	31.05.01	General Medicine for international students (in English)
C	GPC-4	Is able to use medical devices included in the healthcare guidelines, as well as perform medical examination to make a diagnosis
C	GPC-5	Is able to assess morphofunctional status, physiological states, and pathological processes in the human body when working to achieve objectives of professional activity
C	PC-3	Ability and readiness to collect and analyze complaints that a patient presents with, anamnestic data, examination results, results of laboratory and instrumental tests, biopsy and other studies in order to identify patient's condition or establish the presence or absence of a disease
F	A/02.7	Examination of the patient in order to make a diagnosis
I		**ANSWER LEVEL 1 TEST QUESTIONS (ONE CORRECT ANSWER)**

		1. THE MOST COMMON SIGN OF SPECIFIC BACTERIAL OR VIRAL INFECTIONS IN BLOOD TESTS IS A) neutropenia B) monocytosis C) eosinophilia +D) lymphocytosis 2. RESPIRATORY FAILURE IS DIAGNOSED IN PATIENTS WITH A) with hypercapnia due to hypoxia during blood gas measurements B) with blood oxygen saturation less than 95%, measured by pulse oximetry +C) with a decrease in oxygen levels during blood gas measurements D) with an increase in oxygen levels during blood gas measurements 3. BLOOD PRESSURE IS NORMAL IF ITS VALUE +A) is less than 139 and 89 mmHg B) is 145 and 90 mmHg C) is 155 and 95 mmHg D) 140 and 90 mmHg 04. THE MOST CHARACTERISTIC FORM OF THE FLOW-VOLUME LOOP CURVE FOR PATIENTS WITH OBSTRUCTIVE PULMONARY VENTILATION DISORDERS IS A) convex and prolonged B) concave and short +C) concave and prolonged D) convex and short 05. THE ACETYLCHOLINE TEST ALLOWS ONE TO DETERMINE +A) bronchial hyperreactivity B) reversibility of bronchial obstruction C) the severity of bronchial inflammatory edema D) the predominant location of bronchial obstruction 06. ST DEPRESSION ≥0.5 MM INDICATES +A) myocardial ischemia B) arterial hypertension C) hyperkaliemia (high potassium) D) myocardial infarction

Assessment criteria
"Very good" – over 80% correct answers of questions of every level
"Good" – 70-79% correct answers of questions of every level
"Satisfactory" – 55-69% correct answers of questions of every level
"Unsatisfactory" – less than 55% correct answers of questions of every level

Descriptive assignment

	Code	Competence description / name of labor function / name of work activity / text
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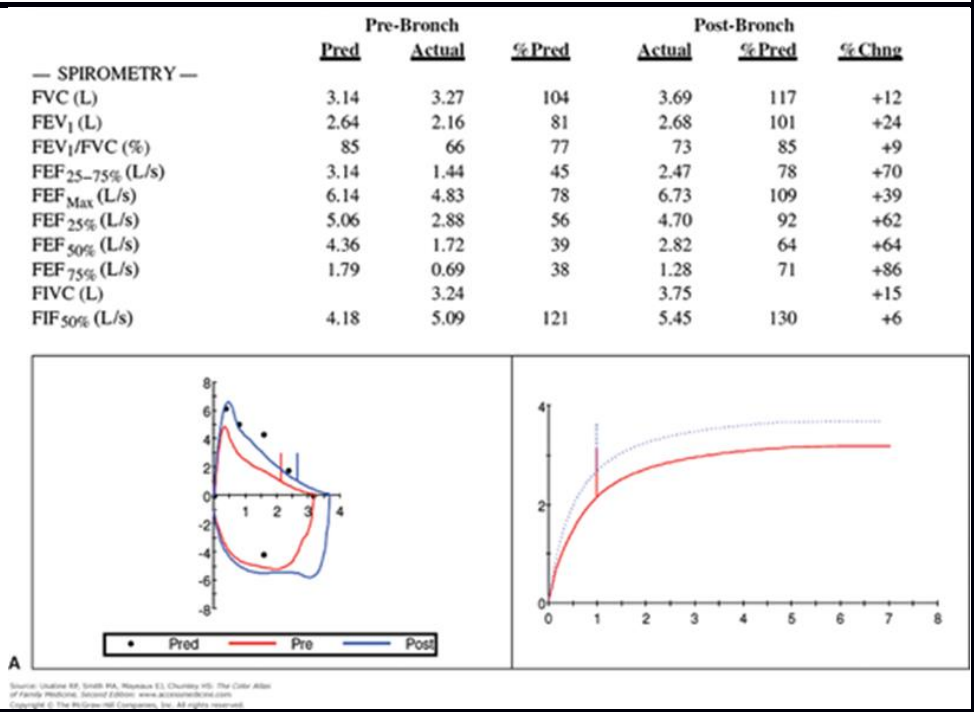
C	GPC-5	Is able to assess morphofunctional status, physiological states, and pathological processes in the human body when working to achieve objectives of professional activity
C	PC-3	Ability and readiness to collect and analyze complaints that a patient presents with, anamnestic data, examination results, results of laboratory and instrumental tests, biopsy and other studies in order to identify patient's condition or establish the presence or absence of a disease
F	A/02.7	Examination of the patient in order to make a diagnosis
I		**ANALYZE THE SPIROGRAM AND GIVE A CONCLUSION**
		

	Pre-Bronch			Post-Bronch		
	Pred	Actual	%Pred	Actual	%Pred	%Chng
— SPIROMETRY —						
FVC (L)	3.14	3.27	104	3.69	117	+12
FEV_1 (L)	2.64	2.16	81	2.68	101	+24
FEV_1/FVC (%)	85	66	77	73	85	+9
$FEF_{25-75\%}$ (L/s)	3.14	1.44	45	2.47	78	+70
FEF_{Max} (L/s)	6.14	4.83	78	6.73	109	+39
$FEF_{25\%}$ (L/s)	5.06	2.88	56	4.70	92	+62
$FEF_{50\%}$ (L/s)	4.36	1.72	39	2.82	64	+64
$FEF_{75\%}$ (L/s)	1.79	0.69	38	1.28	71	+86
FIVC (L)		3.24		3.75		+15
$FIF_{50\%}$ (L/s)	4.18	5.09	121	5.45	130	+6

Assessment criteria

"Very good" – analysis was conducted in accordance with the analysis methodology, a complete and correct conclusion was given

"Good" – analysis was conducted in accordance with the analysis methodology, an incomplete and correct conclusion was given

"Satisfactory" – analysis was conducted in accordance with the analysis methodology, an incomplete and incorrect conclusion was given

"Unsatisfactory" – analysis was conducted inconsistent with the analysis methodology, an incomplete and incorrect conclusion was given

	Code	Competence description / name of labor function / name of work activity / text
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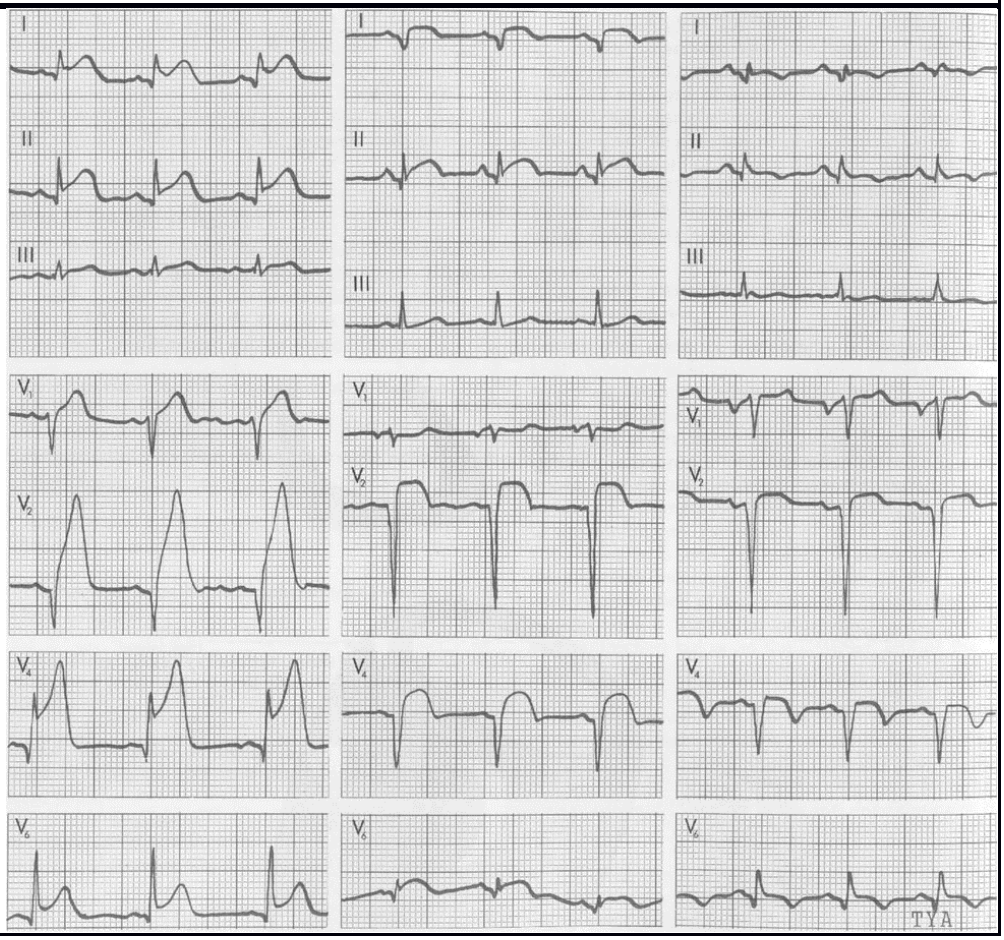
F	A/02.7	Examination of the patient in order to make a diagnosis
I		**ANALYZE THE ECG AND GIVE A CONCLUSION**
		

Assessment criteria

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