MINISTRY OF HEALTH OF THE KYRGYZ REPUBLIC

I.K. AKHUNBAEV KYRGYZ STATE MEDICAL ACADEMY

92, I.K. Akhunbaev str., Bishkek, 720020, the Kyrgyz Republic tel.: 54 58 81, fax: 54 58 54, 54 58 59

e-mail: akhunbaev@kgma.kg http://kgma.kg

Basic professional educational program training in clinical residency for foreign citizens

specialty: "Critical Care Medicine"

Normative period of study: THREE (3) YEARS

No	Name of disciplines according to GOS	Distribution of curriculum time by types of classes		Distribution of hours by years		
		Total labor		1st year	2 nd year	3 rd year
		in credits	in hours	week	week	week
1st ye	ear of study					
	Block 1. Disciplines (modules)	7.68	230.4	46		
	Obligatory disciplines	0.5	15			
	Special disciplines	1.4	40			
	Critical care medicine					
	Infectious diseases	1.15	33			
	ORL-diseases	0.3	10			
	Ophthalmology	0.3	10			
	Urology	0.3	10			
	Obstetrics-gynecology	1.15	32			
	Pathology	0.3	10			
	Pedagogy	0.3	10			
	Public health and health care	0.3	10			
	Legal science	0.3	10			
	Disaster medicine	0.5	15			
	Critical medical care for patients with cardiovascular diseases.	0,68	25			
	Providing medical assistance to victims of road traffic accidents. Providing medical care to patients with cardiac emergencies.					
	Block 2. Practical training	69.13	1983.6	46		
	Block 2.1. Basic part	68	1950			

				1	
	(practice in specialty "Critical				
	care medicine" (clinical				
	residency))				
	Block 2.2. Elective courses	1.12	33.6		
	Ambulance and critical care				
	(including GMP simulation				
	course)				
	Block 3. Final state attestation	3	90	2	
	TOTAL	76.8	2304	48	
1	Organization of critical medical	0.16		2	
1	care	0.10		_	
2	Organization of medical	0.16		2	
	assistance to the population at	0.10		2	
	the pre-hospital stage.				
	Organization of medical				
	assistance in accidents,				
	-				
	catastrophes and natural disasters.				
_		0.16		2	+
3	Fundamentals of medical ethics	0.16		2	
	and medical deontology.	0.15			
4	Fundamentals of labor law.	0.16		2	
	Legal aspects of the work of an				
	critical care physician.				
5	Organization of work of an	0.16		2	
	critical medical setting.				
6	Fundamentals of medical	0.16		2	
	statistics, recording and analysis				
	of main indices of critical				
	medical care.				
7	Principles of record keeping in	0.16		2	
	critical medical care.				
8	KR legislation in the sphere of	0.16		2	
	health care.				
9	Prevalence of diseases among	0.16		2	
	the population.				
10	Structure of calls of critical	0.16		2	
10	medical aid.	0.10		_	
11	Peculiarities of work of line	0.16		2	
11	teams and teams of intensive	0.10		2	
	care.				
12	Equipping ambulances.	0.16		2	+
13	Work with ambulances	0.16		2	
13		0.10			
1.4	equipment.	0.16		2	+
14	Fundamentals of criminal law.	0.16		2 2	+
15	Fundamentals of medical	0.16		2	
1.5	insurance.	0.15			1
16	Fundamentals of the national	0.16		2	
	strategy in the sphere of				
	improvement of critical medical				
	care.				1
17	Principles of critical medical	0.16		2	
	care.				
18	Standards of critical medical	0.16		2	
	care.				

19	Indications for hospitalization of patients.	0.16	2	
20	Basics of resuscitation and intensive care. Classification of terminal states.	0.16	2	
21	Cardiopulmonary resuscitation (BLS, ALS) Use of defibrillators.	0.16	2	
22	Critical care for diseases of cardiovascular and respiratory systems.	0.16	2	
23	Normal ECG in traditional and additional leads. Normal ECG. Genesis of abnormal waves and intervals. Conclusion on ECG.	0.16	2	
24	ECG at acute coronary syndrome. CHD, clinic, diagnosis of chest pain.	0.16	2	
25	Acute myocardial infarction, diagnostics. Differential diagnosis of pain in the chest. Complications of AMI, emergency aid. ECG at AMI complications. ECG of recurrent infarction, differential diagnosis. Clinical analysis.	0.16	2	
26	Heart rhythm disorders. Treatment principles of heart rhythm disorders. ECG diagnostics of heart rhythm disorders.	0.16	2	
27	ECG at bradyarrhythmia. Bradyarrhythmia.Emergency aid.	0.16	2	
28	ECG at trachyarrhythmia. Trachyarrhythmia, Emergency aid.	0.16	2	
29	Emergencies at arrhythmias. ECG diagnostics at WPW syndrome. ECG at His bundle branch block. ECG features in patients with implanted cardio- stimulator.	0.16	2	
30	Extrasystole, parasystole, topical diagnosis.	0.16	2	
31	Acute vascular pathology: pulmonary embolism, dissecting aortic aneurysm. Emergency aid.	0.16	2	
32	Hypertension. ECG at hypertension, hypertension crisis. Hypertensive crisis. Emergency aid. Sorting out the patients.	0.16	2	
33	Symptomatic hypertension	0.16	2	
34	Acute arterial hypotension.	0.16	2	

35	Chronic cardiac insufficiency, clinic and emergency therapy.	0.16		2		
	Chronic pulmonary heart, small vessel diseases					
36	Non-coronarogenic myocardial damages. Inflammatory diseases of myocardium. ECG in myocarditis, myocardiodystrophies and cardiac traumas.	0.16		2		
37	Acute lung diseases. Diagnostics, emergency aid (pneumonias, pleurisy, atelectasis). Modern principles of treatment.	0.16		2		
38	Bronchial asthma. Current principles of treatment.Status Asthmaticus. Emergency management	0.16		2		
39	Pulmonary edema, emergency care	0.16		2		
40	Algorithms of examination of cardiac patients at the pre-hospital stage. Errors in the examination and treatment of patients. Management of atypical presentations	0.16		2		
41	Algorithms of examination of patients with acute respiratory failure. Emergency measures in ARF (tapping of pleural cavity, management of pneumothorax, ICT insertion)	0.16		2		
42	Treatment of patients with acute respiratory failure. Management of types respiratory failures	0.16		2		
43	Methods of secure upper airway.LMA airway, EndoTracheal intubation,Direct and Video assisted	0.16		2		
44	Laryngospasm: causes, clinical picture, diagnosis, management protocols	0.16		2		
45	Mechanical Lung Ventilation methods	0.16		2		
46	Basic resuscitation manipulations: tracheostomy, cricothyrotomy, pleurocentesis, paracentesis of pericardium puncture.	0.16		2		
		7.68	220.4	92	02	
	Block 2. Practical training	7.68 69.12	230.4 1983.6		92 46	
	Bloc 3. Attestation	3	90		2	
	TOTAL	7.68	2304		48	
	Block 2. Practical training	69.12	1983.6	46		
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	Block 2.1. (practice in specialty "critical care medicine" (clinical residency))	68	1950			
	Block 2.2. Elective courses Ambulance and critical care (including GMP simulation course)	1.12	33.6			
	Block 3. Final stage attestation	3	90	2		
	TOTAL	76.8	2304	48		
		2 nd year of	study			
1	Acute disorders of cerebral circulation. Indications for cardiopulmonary resuscitation, methods of its implementation, conditions for refusal of resuscitative actions.	0,16			2	
2	Basic manipulations in resuscitation. Laryngospasm. Causes. Clinical presentation & Diagnostics. Rendering emergency and intensive care.	0,16			2	
3	Acute respiratory failure.	0,16			2	
4	Diagnosis and management Laryngospasm. Causes. Clinical picture. Diagnostics. Pre-	0,16			2	
5	hospital management tactics. Thromboembolism of the pulmonary artery. Causes. Classification. Clinical picture. Diagnostics. Rendering emergency and intensive care.	0,16			2	
6	Bronchial asthma. Classification. Clinical picture. Diagnostics. Emergency and intensive care of bronchial asthma attack and status asthmaticus	0,16			2	
7	Lung atelectasis and collapse Causes, Clinical picture. Diagnostics, management. Indications of hospitalization.	0,16			2	
8	Pneumothorax. Causes. Clinical picture. Diagnostics. Emergency and intensive therapy. Indication of hospitalization.	0,16			2	
9	Pneumonia. Causes. Clinical picture. Diagnostics. Emergency and intensive therapy. Indications for hospitalization	0,16			2	
10	Pleural fluid. Causes. Clinical picture. Diagnostics. Chest tube management. Emergency and intensive therapy. Indications for hospitalization	0,16			2	

11	Pulmonary	0,16	2	
11	hemorrhage/hemoptysis .	0,10	<u> </u>	
	Causes. Clinical picture.			
	Diagnostics. Emergency and			
	intensive therapy. Indications			
	for hospitalization			
12		0.16	2	
12	Myocardial infarction. Causes.	0,16	2	
	Clinical picture. Diagnostics.			
	Emergency and intensive			
	therapy. Indications for			
10	hospitalization.	0.16	2	
13	Acute left ventricular failure.	0,16	2	
	Causes. Clinical picture.			
	Diagnostics. Emergency and			
	intensive therapy, NIV.			
	Indications for hospitalization.			
14	Hypertensive crisis. Causes.	0,16	2	
	Clinical picture. Diagnostics.			
	Emergency and intensive			
	therapy. Indications for			
	hospitalization.			
15	Paroxysmal supraventricular	0,16	2	
	tachycardia. Causes. Clinical			
	picture. Diagnostics. Emergency			
	and intensive therapy.			
	Indications for hospitalization.			
16	Paroxysm of atrial fibrillation.	0,16	2	
	Causes. Clinical picture.			
	Diagnostics. Emergency and			
	intensive therapy.Indications for			
	hospitalization.		 	
17	Paroxysmal ventricular	0,16	2	
	tachycardia. Causes. Clinical			
	picture. Diagnostics. Emergency			
	and intensive therapy.			
L	Indications for hospitalization.			
18	AV conduction disorders with	0,16	2	
	the development of syncope			
	(Morgagni-Adams-Stokes			
	syndrome). Causes. Clinical			
	picture. Diagnostics. Emergency			
	and intensive therapy.			
	Indications for hospitalization.			
19	Acute renal failure. Causes.	0,16	2	
	Clinical picture.	,		
	Diagnostics.Hemodialysis and			
	CRRT.Emergency and intensive			
	therapy.Indications of			
	hospitalization.			
20	Acute and chronic	0,16	2	
20	glomerulonephritis. Causes.	0,10	<i>≟</i>	
	Clinical picture. Diagnostics.			
	Emergency and intensive			
	therapy. Indications of			
	hospitalization.			
21	Acute and chronic	0,16	2	
41	pyelonephritis. Causes. Clinical	0,10	<i>L</i>	
	pycionephrins. Causes. Chinear			

	picture. Diagnostics.Emergency			
	and intensive therapy.			
	Indications for hospitalization.			
22	Acute retention of urine. Causes.	0,16	2	
	Clinical picture. Diagnostics.	,		
	Emergency and intensive			
	therapy. Indications of			
	hospitalization.			
23	Renal colic. Causes. Clinical	0,16	2	
	picture. Diagnostics. Emergency	·		
	and intensive therapy.			
	Indications for hospitalization.			
24	Acute hepatic failure &	0,16	2	
	encephalopathy Emergency and	·		
	intensive care. Indications for			
	hospitalization. Rules of			
	hospitalization.			
25	Gallstone colic. Causes. Clinical	0,16	2	
	picture. Diagnostics. Emergency			
	and intensive therapy.			
	Indications for hospitalization.			
	Rules of hospitalization.			
26	Acute ulcers. Causes. Clinical	0,16	2	
	picture. Diagnostics. Emergency			
	and intensive therapy.			
	Indications for hospitalization			
27	Gastrointestinal hemorrhage.	0,16	2	
	Causes. Clinical picture.			
	Diagnostics. Emergency and			
	intensive therapy. Indications			
	for hospitalization.			
28	Acute abdominal pain. Causes.	0,16	2	
	Clinical picture. Diagnostics.			
	Emergency and intensive			
	therapy. Indications for			
	hospitalization. ICU care.			
29	Ascites. Causes. Clinical	0,16	2	
	picture. Diagnostics. Emergency			
	and intensive therapy.			
	Indications for hospitalization.			
	ICU care.			
30	Acute pancreatitis. Clinical	0,16	2	
	picture. Diagnostics. Emergency			
	and intensive therapy.			
	Indications for hospitalization.			
2.1	ICU care.	0.15		
31	Shock. Classification. Clinical	0,16	2	
	picture. Diagnostics. Emergency			
	and critical care hospital			
	management protocols. ICU			
22	care.	0.15		
32	Methyl alcohol poisoning.	0,16	2	
	Clinical picture. Diagnostics.			
	Emergency and intensive			
	therapy. Indications for			
	hospitalization.ICU care.			

33	Ethyl alcohol poisoning Clinical			2	
33	picture, diagnosis, emergency				
	and intensive care Indications				
	for hospitalization				
34	Ethylene glycol (antifreeze	0,16		2	
	substance) poisoning. Clinical				
	picture. Diagnostics. Emergency				
	and intensive therapy.				
	Indications for hospitalization				
35	Dichloroethane poisoning.	0.16		2	
	Clinical picture. Diagnostics.				
	Emergency and Intensive				
	therapy, indications for hospitalization				
36	Poisoning with poisonous	0.16		2	
30	mushrooms (fly agaric, false	0.10		2	
	honey mushrooms, morels,				
	death-cups). Diagnostics.				
	Emergency and intensive				
	therapy, indications for				
	hospitalization,				
37	Snake venom poisoning.	0.16		2	
	Diagnostics. Emergency and				
	intensive therapy, indications for				
20	hospitalization	0.16			
38	Poisoning by concentrated acids	0.16		2	
	(nitric acid, acetic acid, sulfuric				
	acid). Diagnostics. Emergency and intensive therapy,				
	indications for hospitalization,				
39	Alkali poisoning. Diagnostics	0.16		2	
	and ICU Management	0.10		_	
40	Hemp poisoning (hashish,	0.16		2	
	marijuana, anasha, plan).				
41	Poisoning with pharmacological	0.16		2	
	preparations of various groups.				
42	Modern methods of treatment of	0.16		2	
	acute poisoning. Principles of				
10	detoxification. Antidote therapy.	0.1.5			
43	Poisoning with plant and animal	0.16		2	
11	poisons.	0.16		2	
44	Pathologic syndromes in acute poisoning.	0.10		2	
45	Algorithms of examination of	0.16	+	2	
13	patients with acute poisoning.	0.10		2	
46	Acute poisoning with amystic	0.16		2	
	poisons. Errors of the pre-				
	hospital stage.				
		7.68	230.4	92	
	Block 2. Practical training	69.12	1983.6	46	
	Block 3. Attestation	3	90	2	
	TOTAL	76.8	2304	48	
	Dlo als 1 Do 24-42	3 rd year of		<u> </u>	AC
	Block 1. Resuscitation and	7.68	230.4		46
	Intensive treatment (IT) of critical conditions				
	CITICAL CONCINUIS			L	<u> </u>

1	Resuscitation and IT in acute	0.16	2		
	cardiovascular failure				
2	Resuscitation and IT in various forms of respiratory failure	0.16	2		
3	Resuscitation and IT in	0.16	2		
	infectious diseases and septic				
	conditions				
4	Resuscitation and IT of children	0.16	2		
	and newborns				
5	Resuscitation and IT at acute intoxication	0.16	2		
6	Resuscitation and IT in	0.16	2		
	traumatology and orthopedics				
7	Resuscitation and IT at ACVA	0.16	2		
	and in acute neuro-traumatology				
	patients	0.16	2		
8	Resuscitation and IT at surgical pathology	0.16	2		
9	Resuscitation and IT at	0.16	2		
10	obstetrics and gynecology	0.16			
10	IHD, clinical picture, diagnosis	0.16	2		
11	of breast-pang	0.16	2		
11	Acute myocardial infarction, diagnostics	0.16	2		
12	Differential diagnosis of cardiac	0.16	2		
12	pain	0.10	2		
13	ECG in acute coronary	0.16	2		
13	syndrome	0.10	2		
14	Complications of AMI,	0.16	2		
	differential diagnosis,				
	emergency care				
15	Acute vascular pathology:	0.16	2		
	pulmonary embolism, aortic				
	dissecting aneurysm. Emergency				
1.0	and ICU care	0.16	2		
16	ECG at complications of AMI	0.16	2 2		
17	ECG at reinfarctions, differential diagnostics.	0.16	2		
	Clinical analysis				
18	Cardiac rhythm disorders.	0.16	2		
10	Treatment principles of cardiac	0.10			
	rhythm disorders.				
19	Hypertensive disease	0.16	2	1	
20	Modern principles of treatment	0.16	2		
21	Symptomatic hypertensions				
22	ECG at hypertensive disease,	0.16	2		
	hypertensive crisis. Examination				
	of patients				
23	Hypertensive crisis. Emergency	0.16	2		
	and ICU care		_	1	
24	Acute lung diseases. Diagnosis,	0.16	2		
	emergency care (pneumonia,				
25	pleurisy, atelectasis)	0.16	2	1	
25	Pneumonia. Current principles of treatment	0.10	2		
<u> </u>	or meaninem				

26	Bronchial asthma.Current	0.16	2			
20	principles of treatment	0.10	2			
27	Status asthmaticus. Emergency and ICU care	0.16	2			
28	Pulmonary edema. Emergency n And ICU care	0.16	2			
29	Chronic heart failure, clinical picture, emergency and ICU therapy	0.16	2			
30	Acute arterial hypotension	0.16	2			
31	Cardiogenic shock	0.16	2			
32	Algorithms of examination of patients with acute respiratory failure	0.16	2			
33	Treatment of patients with acute respiratory failure. Solution of situational tasks	0.16	2			
34	Emergency measures in ARF (tapping of pleural cavity, elimination of open pneumothorax).	0.16	2			
35	ALV methods	0.16	2			
36	Methods of secure upper airway	0.16	2			
37	Tracheal Direct and video intubation.	0.16	2			
38	Principles of emergency and intensive care for traumas of musculoskeletal system	0.16	2			
39	Traumas of musculoskeletal system, clinical picture, diagnostics	0.16	2			
40	Acute renal failure	0.16	2			
41	Traumatic shock. Pathogenesis. Clinical picture, diagnostics, treatment	0.16	2			
42	Spinal cord and vertebral spine injuries. Emergency and ICU care	0.16	2			
43	Local anesthesia in traumatology	0.16	2			
44	Concomitant, multiple and combined traumas	0.16	2			
45	Algorithm of emergency and ICU care for traumas	0.16	2			
46	Principles of infusion therapy in burns, frostbite and general hypothermia of the body	0.16	2			
	Block 2. Practical training	69.12	1983.6			46
	Block 3. Attestation	3	90			2
TOT		76.8	2304			48
	ations			4	4	4
Tota		230.4	6912	52	52	52
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