INFECTIOUS DISEASES TEST TASKS FOR PREPARATION TO THE STATE LICENSED EXAMINATION "KROK-2. MEDICINE" (booklet 2018)

Methodical recommendations for the domestic and foreign students of V–VI years of higher medical education

МІНІСТЕРСТВО ОХОРОНИ ЗДОРОВ'Я УКРАЇНИ Харківський національний медичний університет

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ТЕСТОВІ ЗАВДАННЯ
З ІНФЕКЦІЙНИХ ХВОРОБ
ДЛЯ ПІДГОТОВКИ ДО ДЕРЖАВНОГО
ЛІЦЕНЗІЙНОГО ІСПИТУ "КРОК-2.
ЗАГАЛЬНА ЛІКАРСЬКА ПІДГОТОВКА"
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Task № 1	Explanation of the task	References
	Antibiotic associated diarrhoea occurs in about 5–3 0% of patients either early during antibiotic therapy or up to two months after the end of the treatment. Clindamycin, ampicillin, and cephalosporins were the first antibiotics associated with antibiotic-associated diarrhoea caused by Clostridium difficile. The second- and third-generation	Harrison's Principles of Internal Medicine / Dennis L. Kasper et al. – 19th edition. – New Yor k: McGraw Hill Education, 2015. –

Task № 2	Explanation of the task	References
A 28-year-old woman complains of nausea, stomachache, pain in her tongue, and liquid faeces. Three days ago, she ate poorly salted pike caviar. Objectively her skin is pale; the tongue looks "lacquered" (bald tongue). Pulse is 100/min., with muffed heart sounds	Diphyllobothriasis is a long-lasting infection. Most cases are asymptomatic. Manifestations may include abdominal discomfort, diarrhoea, vomiting, and weight loss. Vitamin B12 deficiency with pernicious anaemia may occur ("lacquered" bald tongue). Massive infections may result in intestinal obstruction. Migration of proglottids can cause cholecystitis or cholangitis	Harrison's Principles of Internal Medicine / Dennis L. Kasper et al. – 19th edition. – New Yor k: McGraw Hill Education, 2015. –

Task № 4	Explanation of the task	References
The doctor has an appointment with a	Herpes zoster is a viral disease	Harrison's Prin-
patient who 2 days ago developed	characterized by a painful vesicular rash	ciples of Internal
severe chest pain on the left, general	with blistering a localized area. Two to four	Medicine / Dennis
weakness, high temperature, and	days before the rash occurs there may be	L. Kasper et al. –
headache. Objectively along the 4th	tingling or local pain in the area	19th edition. – New
1	accompanied with fever and intoxication.	
the skin is hyperaemic and there are	The rash usually heals within two to four	Education, 2015
tight clusters of small vesicles filled with	weeks	P. 1184
clear serous content. What is the most		
likely diagnosis?		
Herpes zoster		
2. Herpes simplex		
3. Streptococcal impetigo		
4. Dermatitis herpetiformis		
(Duhring's disease)		
5. Pemphigus		

Task № 5	Explanation of the task	References
A 65-year-old woman was diagnosed	For seasonal influenza vaccination WHO	1. Summary of WHO
with the following: chronic rheumatic	recommends, in addition to pregnant women,	Position Papers –
heart disease, I degree of rheumatic	risk groups to be considered: children aged	Recommendations
activity; combined mitral heart disease	6-59 months, elderly persons ≥ 65 years of	for Routine Immuni-
with prevalence of III degree stenosis;	age, individuals with specific chronic medical	zation (updated:
heart failure IIA with retained left	conditions, and health-care workers.	August 2018) from:
ventricular ejection fraction, functional	In addition to seasonal influenza vaccine,	http://www.who.int/i
class III (NYHA – New York Heart	people 65 years and older should also get	mmunization/policy/
Association Functional Classification).	pneumococcal vaccines, which protect against	_
What tactics of vaccination against		ne_table1.pdf
respiratory infections should be chosen	them for all adults over 65 years old and for	2. Recommended Im-
to provide secondary prevention of exacerbations and to avoid heart failure	adults younger than 65 years who have certain chronic health conditions; chronic heart	munization Schedule for Adults Aged
decompensation in this patient?	disease (excluding hypertension), chronic lung	
1. Scheduled yearly vaccination	disease, chronic liver disease, alcoholism,	United States, 2018
against influenza and	diabetes mellitus, cigarette smoking	from:
pneumococci	diabetes mentas, signification smoking	https://www.cdc.gov
Vaccination should be combined		/vaccines/schedule
with antibiotic administration		s/hcp/imz/adult.html
3. Any vaccination is contraindicated		5, .
due to elderly age of the patient		
4. Any vaccination is contraindicated		
due to mitral valve disease		
5. Vaccination is contraindicated due		
to severe heart failure		

Task № 6	Explanation of the task	References
A 6-month-old infant is not vaccinated. The physician recommends a DPT (diphtheria, pertussis, tetanus) vaccination but the mother is absolutely against this procedure. Choose the most substantial argument in favour of vaccination: A. Risk of lethal consequences B. Epidemic risk for the others C. High quality of vaccines D. Personal professional experience E. –	Correct answer: Risk of lethal consequences Explanation. Diphtheria in unvaccinated persons causes death in 5 to 10 % of cases, mostly due to complications (laryngeal croup and myocarditis). In 2013, the Global Burden of Disease Study estimated mortality due to pertussis in the first year of life to be approximately 400 per million live births, or approximately 56 000 deaths. Tetanus mortality rates were still high in a number of countries in 2015 (more than 1,000 deaths per 100,000 population) were observed in Somalia, South Sudan, Afghanistan, and Kenya due to lack of vaccines. So vaccination with DTP is strongly recommended to reduce risk to a child	Immunization, Vaccines and Biologicals. Diphtheria. Retrieved November 1, 2018 from http://www.who.int/immunization/diseases/diphtheria/en/2 Cohen Jonathan Infectious Diseases/Jonathan Cohen, William Powderly, Steven Opal. – 3rd

Tools No. 7	Fundametian of the tools	Defenses
Task № 7	Explanation of the task	References
caused predominantly by virus	Explanation . According to WHO guidelines and the European Centre for Disease Prevention and Control guidelines, 2017, Neuraminidase inhibitors (Oseltamivir) are medicines of choice to treat pandemic and	lines for the clinical management of se- vere influenza virus infections Initial Guide- line Development

Task № 8	Explanation of the task	References
A 23-year-old man complains of facial	Correct answer: Beta-hemolytic	1.Harrison's Manual
oedema, headache, dizziness, low urinary	streptococcus	of Medicine / Har-
output, urine discoloration (dark red). These	Explanation . Group A Beta-hemolytic	rison, Tinsley Ran-
complaints arose after the patient had	Streptococcus causes suppurative	dolph, and Eugene
had a case of acute tonsillitis. On	infections and is associated with	Braunwald 16th
examination there are facial oedema,	postinfectious syndromes such as acute	ed. – New York:
the skin is pale, temperature is 37.4 °C;	rheumatic fever and poststreptococcal	McGraw-Hill Me-
heart rate is 86/min., blood pressure is	glomerulonephritis.	dical Pub. Division,
170/110 mm Hg. Heart sounds are muffled,		2005. – P. 814
the II heart sound is accentuated over		
the aorta. What etiological factor is the		
most likely in this case?		
A. Beta-hemolytic streptococcus		
B. Staphylococcus aureus		
C. Streptococcus pyogenes		
D. Staphylococcus saprophyticus		
E. Streptococcus viridans		

Task № 9	Explanation of the task	References
A 1-year-old child with a case of URTI	Correct answer: Stenosing laryngotracheo-	Infectious Diseases /
suddenly developed noisy respirations	bronchitis.	Jonathan Cohen,
with difficult inspiration, intercostal	Explanation . Parainfluenza infection in children	William Powderly,
retractions, and barking cough on the	is associated with an acute febrile illness in	Steven Opa I3rd
2nd night after the disease onset. What	up to 80 % of cases. Initial symptoms include	edition 2010
is the most likely diagnosis?	coryza, sore throat, hoarseness and dry cough.	P. 1606–1607
A. Stenosing	In croup, a brassy or barking cough may progress	
laryngotracheobronchitis	to stridor and occasionally to airway obstruction.	
B. Acute bronchitis	The anteroposterior radiograph of the neck	
C. Bronchial asthma	shows glottic and subglottic narrowing	
D. Acute pulmonary inflammation	('steeple sign') which differentiates croup	
E. Acute bronchiolitis	from epiglottitis. In cases of bronchiolitis and	
	pneumonia, progressive cough is accom-	
	panied by wheezing, tachypnea and	
	hypoxemia. Chest X-ray examination may	
	reveal air trapping and interstitial infiltrates.	
	In older children and adults, HPIV infections	
	tend to be milder and present as URTI	

Task № 10	Explanation of the task	References
A 32-year-old pregnant woman at the term of 5-6 weeks was vaccinated against influenza along with her whole family. At that time she was not aware of her pregnancy	Correct answer: Vaccination against influenza is safe during pregnancy Explanation. Multiple studies have shown that women who have influenza vaccination during pregnancy have not had a higher risk for spontaneous abortion (miscarriage) but pregnant women are risk group of severe course in case of pandemic influenza A/California/04/2009 (H1N1)	Summary of WHO Position Papers – Recommendations for Routine Immunization Retrieved November 1, 2018 from http://www.who.int/immu

Task № 11	Explanation of the task	References
Among first-year schoolchildren	Correct answer: Measles-Mumps-	1. Table 3: Recommen-
there was a case of measles	Rubella vaccine.	dations for Interrupted or
registered. A 7-year-ol boy from the	Explanation . WHO recommends that	Delayed Routine Immu-
same group was not vaccinate		
against measles due to refusal of his	against measles, mumps, and rubella.	WHO Position Papers.
parent His clinical history has no	Children should get two doses of MMR	Retrieved November 1,
cases of measles in the past and is	vaccine, starting with the first dose at 12	2018 from
not contraindicatory to immuno-	to 15 months of age, and the second	https://www.who.int/imm
biological agents. Choose the mo	dose at 4 through 6 years of age. Teens	unization/policy/Immuniz
rational tactics of measles prevention	and adults also should also be up to date	ation_routine_table3.pdf
in this schoolboy:	on their MMR vaccination	?ua=1
A. Measles-Mumps-Rubella		2. Infectious Diseases /
vaccine		Jonathan Cohen, Wil-
B. Antiviral agents		liam Powderly, Steven
C. Isolation for 20 days		Opal 3rd edition
D. Antibiotics		2010. – P. 51–52
E. Immunomodulators		

Task № 12	Explanation of the task	References
A 26-year-old man is undergoing a	Correct answer: Adsorbed diphtheria	1. Immunization, Vaccines
regular check-up. One year ago he had	tetanus vaccine (modified)	and Biologicals. Diphthe-
a case of tonsillar diphtheria complicated	Explanation . Adsorbed modified	ria. Retrieved November 1,
with myocarditis. Presently his	diphtheria tetanus vaccine is used for	2018 from
	routine booster immunization against	
The state of the s	tetanus and diphtheria in persons of	· ·
	18 month, 6 and 16 y.o. and older every	
What vaccine was administered to	10 years subsequently.	Harrison's Principles
this man according to his age?		of Internal Medicine /
A. Adsorbed diphtheria tetanus		D. L. Kasper et al. – 19th
vaccine (modified)		Ed. – McGraw-Hill, 2015
B. Oral polio vaccine (OPV)		[pdf 120 MB] P. 785-
C. Acellular DPT vaccine		793, 977–981
D. BCG vaccine		
E. Tetanus anatoxin		

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Task № 13	Explanation of the task	References
A 69-year-old woman was diagnosed	Correct answer: Type of influenza	1. Flu and Heart Disease
with the following: ischemic heart	vaccine is not important	& Stroke //
disease; stable exertional angina	Explanation . Flu vaccination is especially	https://www.cdc.gov/flu/h
pectoris, FC III; heart failure IIA with	important for people with heart disease or	eartdisease/index.htm
retained left ventricular ejection	who have had a stroke because they are	
fraction, functional class III (NYHA).		
What vaccine should be chosen for	vaccines are often updated each season	
influenza prevention and to avoid		
destabilization of the patient's condition?	immunity wanes over a year so annual	
A. Type of influenza vaccine is not		P. 785–793, 1200–1215
important	possible protection against influenza.	
B. Recombinant influenza vaccine		
(RIV)	za vaccine are used. The live attenuated	
C. Inactivated influenza vaccine	, , , , , , , , , , , , , , , , , , , ,	
(IIV)	vaccine, is recommended as an option for	
D. Vaccination is contraindicated		
due to severe heart failure	49 years of age. There is a precaution	
E. Vaccination is contraindicated		
due to elderly age of the patient	(LAIV) in people with certain underlying	
	medical conditions, including heart disease	

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Task № 15	Explanation of the task	References
A 26-year-old man complains of chills, rhinitis, dry cough, and fever up to 38 °C. Examination shows him to be in a moderately severe condition; there are small pale pink non-merging spots on the skin of his back, abdomen, and extremities. Palpation reveals enlarged occipital and axillary lymph nodes. No	Correct answer: Rubella virus. Explanation. An acute febrile illness (fever up to 38 °C, chills) associated with upper respiratory tract affection (rhinitis, dry cough), rash and polylymphadenopathy (palpation reveals enlarged occipital and axillary lymph nodes) in person who has not been immunized (no information about vaccination history could be	1. Harrison's Principles of Internal Medicine / D. L. Kasper et al. – 19th Ed. – McGraw-Hill, 2015 [pdf 120 MB]. – P. 1299. 2. Infectious Diseases / J. Cohen et al. – 3rd Ed. – Mosby, 2010 [pdf 182
information about vaccination history could be obtained. What is the likely aetiology of this disease? A. Rubella virus B. Mumps virus C. Epstein-Barr virus D. Neisseria meningitis E. Streptococcus	obtained) is suggestive of rubella. Moreover, the rash described (small pale pink non-merging spots on the skin of the back, abdomen, and extremities) is typical for rubella and enlargement of occipital lymph nodes is a pathognomonic sign of this disease. Rubella, also known as German measles, is caused by the rubella virus, a member of the Togaviridae, which is a single-stranded RNA virus	•

Task № 16	Explanation of the task	References
A 5-year-old child that contacts with	Correct answer: ALT activity in blood.	1. Harrison's Principles
viral hepatitis in the kindergarten	Explanation. To confirm presence of	of Internal Medicine /
presents with increased body	acute hepatitis, which was suspected	D. L. Kasper et al. – 19th
temperature up to 38 °C, weakness,	according to epidemiological (contact with	Ed McGraw-Hill, 2015
low appetite, single case of vomiting,	viral hepatitis in the kindergarten) and	[pdf 120 MB] P. 2004-
dull pain in the subcostal area on the	clinical (increased body temperature up to	2023.
right. The child is provisionally diagnosed	38 °C, weakness, low appetite, single case	2. Infectious Diseases /
with viral hepatitis. What examination	of vomiting, dull pain in the subcostal area	J. Cohen et al. – 3rd Ed. –
would be the most informative for	on the right) data, in preicteric period	Mosby, 2010 [pdf 182
diagnosis confirmation?	transaminase (ALT) level, which reflects	MB] P. 408-413
A. ALT activity in blood	cytolytic syndrome, should be checked.	
B. Thymol turbidity test	The transaminase levels in acute hepatitis	
C. Blood analysis for stercobilin	may reach 5-100 times normal. Infection	
D. Blood test for bilirubin	with HAV can be diagnosed by the	
E. Urine analysis for bile pigments	presence of anti-HAV IgM with very high	
	sensitivity and specificity	

Task № 17	Example for solution of task	References
A 60-year-old man presents with	Correct answer: Scheduled yearly	Harrison's principles of
subcompensated viral liver cirrhosis	vaccination	internal medicine. Part 8
(HCV Child-Pugh class B. What	Explaining. It is well known that old	infectious diseases. Im-
tactics should I chosen regarding the	patient which is presents with	munization principles
vaccination again influenza in this		
case?	Child-Pugh class B are remain in risk	Edition. – P. 785
A. Scheduled yearly vaccination	group for mortality outcomes due to	
B. Contraindicated due to disease	complications of influenza. In these	
progress stage, as shown by	connection there is good way for	
Child-Pugh class	precaution of mortality - is it scheduled	
C. In case of influenza outbreak	yearly vaccination	
D. Combined with antiviral drugs		
E. Contraindicated due to elderly		
age of patient		

Task № 18	Example for solution of task	References
A healthy child 1 year and 5 month	Correct answer: 1 month	Harrison's principles of
of age is being vaccinated against	Explaining . The minimum interval	internal medicine. Part 8
hepatitis B. The child did not receive	between doses of vaccine in this case	infectious diseases. Im-
the first dose the vaccine previously,	must be according to national protocol of	munization principles
while in the maternity hospital. The	routine childhood immune prophylaxis	and vaccine use 19th
doctor makes an individual		Edition. – P. 785
vaccination schedule for this child		
and planning the administration of		
the next dose the vaccine. What is		
the minimum interval between doses		
of vaccine in this case?		
A. 1 month		
B. 3 months		
C. 6 months		
D. 12 months		
E. 2 months		

Task № 19	Example for solution of task	References
A 26-year-old woman has been undergoing treatment for community-acquired pneumonia for 10 days. It is	Correct answer: HIV infection and pneumocystic pneumonia. Explaining. It is well known that combination	Harrison's principles of internal medicine. – 19 th Edition. – Pneumonia. –
known that her husband had been treated for drug addiction. Sequential intravenous administration of Amoksiklav (Amoxicillin+Clavunate) + Levofloxacin	Amoksiklav (Amoxicillin + Clavunate) + + Levofloxacin are include respiratory fluor khinolones (as Levofloxacin). This antibiotic is drug of choose for community – acquired	P. 803. – Pneumocystis infections. – P. 1358. The Human retroviruses. – P. 1215
combination and vancomycin in the prescribed dosage was ineffective. Within the last two days the patient's dyspnea and intoxication acutely	pneumonia due to streptococcus pneumonia. The vancomycin it is drug of choose due to MRSS staphylococci. As well known when we are got ineffectiveness after cause of	
exacerbated, bilateral pulmonary infiltrates are observed. What is the most likely cause of the medication ineffectiveness?	the medication with combination Amoksiklav (Amoxicillin+Clavunate) + Levofloxacin + + vancomycin we are need considered	
A. HIV infection and pneumocystic pneumonia B. Idiopathic fibrosing alveolitis C. Cancer metastases in the	diagnosis as atypical pneumonia. In this clinical case within the last two days the patient's dyspnea and intoxication acutely exacerbated, bilateral pulmonary infiltrates	
pulmonary tissues D. Infection with polyresistant bacterial strains E. Tuberculosis mycobacterium	are observed. As known dyspnea is it typical symptom pneumonia cause by pneumocystic and other point for atypical pneumonia is it ineffectiveness after	
infection with development of tuberculosis	cause of the medication with first line of antibiotics	

Task № 20	Example for solution of task	References
The dermatologist has an	Correct answer: Scabies.	Harrison's principles of
appointment with a 30-year-old man	Explaining. The agent of Scabies is	internal medicine19th
that complains of severely itching	Sarcoptes scabiei.	Edition. – Ectoparasite
rashes that especially disturb him at	The human itch mite, Sarcoptes scabiei	Infestations and
night. The rashes developed 2	var. hominis, is a common cause of itching	Arthropod Injuries. –
weeks ago, after he had returned	dermatosis, infesting ~300 million persons	
from a travel. Objectively on the	worldwide at any one time. Gravid female	Patient with a Skin
lateral surfaces of his fingers-,	mites (~0.3 mm in length) burrow superficially	Disorderc. – P. 339.
hands, wrists, elbows, lower	within the stratum corneum, depositing three	Skin Manifestations of
abdomen, genitals, and thighs there	or fewer eggs per day. Six-legged larvae	internal Disease. –
are paired papulovesicles, single	mature to eight-legged nymphs and then	P. 353
pustules, and scratch marks. What	to adults. Gravid adult females emerge to	
disease can be suspected?	the surface of the skin about 8 days later	
A. Scabies	and then (re)invade the skin of the same or	
B. Pyoderma	another host. The itching and rash associated	
C. Eczema	with scabies derive from a sensitization reaction	
D. Dermatitis	to the mites and their secretions/excre-	
E. Shingles	tions. A person's initial infestation remains asymptomatic for up to 6 weeks before	
	the onset of intense pruritus, but a	
	reinfestation produces a hypersensitivity	
	reaction without delay. Pruritus typically	
	intensifies at night and after hot showers.	
	Classic burrows are often difficult to find	
	because they are few in number and may	
	be obscured by excoriations. Burrows	
	appear as dark wavy lines in the upper	
	epidermis and are 3–15 mm long.	
	Scabies, with typical scaling	
	erythematous papules and few linear	
	burrows. Groin, axillae, between fingers	
	and toes, beneath breasts	

Task № 21	Example for solution of task	References
A 16-year-old adolescent living in a	Correct answer: Antirabies vaccination	Harrison's principles of
rural area has been bitten in the shin	Explaining . As known 16-year-old adoles-	internal medicine. – 19th
by a stray dog. The wound is	cent has been bitten in the shin by a stray	Edition Rabies -
superficial. Regular vaccination against	dog. There is real risk of rabies in this situation.	P. 1299–1301
tetanus was received 3 months ago.	Rabies is a rapidly progressive, acute	
What treatment tactics would be the	infectious disease of the central nervous	
most advisable in this case?	system (CNS) in humans and animals that	
A. Antirabies vaccination	is caused by infection with rabies virus. The	
B. Antitetanus immunoglobulin	infection is normally transmitted from	
C. Antitetanus serum	animal vectors. Rabies has encephalitic	
D. Antirabies immunoglobulin	and paralytic forms that progress to death.	
E. Tetanus toxoid adsorbed	Since there is no effective therapy for rabies,	
	it is extremely important to prevent the disease	
	after an animal exposure. Postexposure	
	Prophylaxis (PEP) includes local wound care	
	and both active and passive immunization	

Task № 22	Explanation of the task	References
A 22-year-old woman complains of	The correct answer: Metronidazole	Workowski K. A. Centers
itching and profuse discharge from her	Logic of answer. Trichomonas vaginalis	for Disease Control and
genital tracts. The condition developed	is the etiological agent of trichomoniasis,	Prevention (2015). Sexually
10 days ago after a sexual contact.	the most prevalent non-viral sexually	transmitted diseases
Bacterioscopy of a discharge sample	transmitted disease worldwide.	treatment guidelines, 2015.
detected trichomonads. What drug	Classical symptoms include a	MMWR. Recommendations
should be prescribed for treatment in	malodorous and purulent discharge	and reports: Morbidity and
this case?	which results in local pain and irritation.	mortality weekly report.
A. Metronidazole	Currently, metronidazole and tinidazole	Recommendations and
B. Valcyclovir	drugs are most commonly used for	reports, 64(RR-03) /
C. Ampicillin	treatment of trichomoniasis by oral and	K. A. Workowski, G. A. Bo-
D. Zovirax (Acyclovir)	parenteral routes	lan. – P. 1–137
E. Erythromycin		

Total No 00	Forder of the took	D. (
Task № 23	Explanation of the task	References
A 46-year-old man came to the		Kasper Dennis L. Harri-
surgeon's office. He complains of	Logic of answer. You should suspect	son's infectious diseases /
twitching sensation in the wound on	tetanus if a cut or wound is followed by	Dennis L. Kasper,
his left foot, insomnia, and anxiety.	one or more of these symptoms: stiffness	Anthony S. Fauci The
According to the patient, he received	of the neck, jaw, and other muscles,	McGraw-Hill Companies,
this wound 5 days ago, when he	often accompanied by a grotesque,	Inc., 2010 P. 429-434
accidentally stepped on a glass shard,	grinning expression, difficulty swallowing,	
while on the beach. He requested no	irritability, uncontrollable spasms of the	
medical assistance. Objectively the patient's	jaw, called lockjaw, and neck muscles	
general condition is satisfactory, pulse is		
75/min., blood pressure is 130/80 mm		
Hg, temperature is 36.9 °C. On the		
plantar surface of his foot there is a		
wound 1.5 cm long and up to 3 cm deep.		
The wound edges are moderately		
hyperaemic, no discharge from the		
wound is observed. What disease		
can be suspected in this patient?		
A. Tetanus		
B. Fasciitis		
C. Diphtheria		
D. Anthrax		
E. Phlegmon		

Tack No 25	Evolunation of the task	References
for regular examination. In his duties he frequently deals with animals, however he denies working with rabies-affected animals. Previously he has received no antirabic vaccination. What should the doctor recommend in this case? A. Preventive immunization with antirabic vaccine B. Vaccination in case of contact with sick animal	immunization with antirabic vaccine Logic of answer: Preexposure rabies vaccination may be recommended for veterinarians, animal handlers, field biologists, cavers, missionaries, and certain laboratory workers. In case of infrequent exposure (veterinarians and animal control staff working with terrestrial carnivores in areas where rabies is uncommon to rare; veterinary students; and travelers visiting areas where rabies is enzootic and immediate	Kasper, Anthony S. Fauci. – The McGraw- Hill Companies, Inc. –
B. Vaccination in case of contact	students; and travelers visiting areas	
anti-rabies serum E. Administration of antirabic vaccine and rabies immunoglobulin	serologic testing or booster vaccination.	

Task № 26	Explanation of the task	References
A 20-year-old student was brought to	The correct answer: Dynamic case	Liang, J. L. Prevention of
the first-aid center. He has a closed	monitoring Logic of answer: Persons who	Pertussis, Tetanus, and
fracture of the left forearm and a	have completed the 3-dose primary tetanus	
contused lacerated wound on his left	vaccination series and have received a	in the United States:
shin. After the patient received initial		Recommendations of the
wound management, he presented	< 5 years earlier are protected against	
the documents confirming that he		
has received all the necessary		\ /
preventive vaccination as scheduled.	. , ,	
What should the doctor do to prevent	management	Morbidity and mortality
tetanus in this patient?		weekly report. Recommen-
A. Dynamic case monitoring		dations and reports,
B. Administration of anti-tetanus		67(2), 1–44. doi:
serum		10.15585/mmwr.rr6702a
C. Administration of tetanus toxoid		1 / J. L. Liang, T. Tiwari,
D. Antibiotic therapy		P. Moro, N. E. Messonnier,
E. Administration of tetanus		A. Reingold, M. Sawyer,
immunoglobulin		& T. A. Clark. – 2018

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