Name:	Date:		
PROTOCOL Nr.1 – ALIMENTARY INFECTIONS (food born infections)			
Case report 1			
The girl, age 3 years has 4 weeks diarrhea with short per color, without blood, at home with normal body temper slightly lost weight. She does not go to nursery school, s <u>Anamnesis</u> : the father was 2 months ago in India (2 wee without antimalarial drugs.  The child in ambulance: body temperature 36,8°C, belly <u>Laboratory examination</u> : The blood: normal results Rectal swab – results of bacteriological cultivation: <i>Escho</i> Stool sample - virology: rotaviruses neg., adenoviruses results	rature, without vomiting, with flatulence, he is at home with mother. ks), he is without any health problems, sensitive to palpation.		
Questions:  1. Which other examinations do you suggest?			
2. How would you take the biol. material for cultivation? - for detection of viral antigens (on page above) an			
3. Which microorganisms can be the cause of chronic dia	arrheal disease when stool is without blood?		
4. Which microorganism is on the picture?			
5. Which life form of this microorganism we can see on	the picture?		
6. Which staining methods in parasitology you know?			
7. Therapy ?			

8. What is probably the source of infection for child - patient?

9. Prevention?

Name: Group Nr.:	Date:	
Case report 2		
The young man (20 years, student) – is comming in the addays diarrhea with the blood in the stool, body temperat abdominal pain – now worse, colic  Anamnesis: 6 days ago he was at a home party with a badgo he traveled around Turkey.  In medical ambulance: body temperature 37,6 °C, abdom  Laboratory examination of the blood sample: CRP (C readother examinations normal	ure in the evening was 38,4 °C, he has arbecue (chicken, turkey, beef), two months ninal pain on palpation	
Questions:  1. Which other steps do you suggest?		
2. Which other examination do you propose?		
Cultivation on the selective medium – Karmali agar: 48 hanaerobic environment, oxidase +, motility +. Microscopy: Gram negative, curved rods or short spirals	ours, using higher temperature (42 °C),	
3. Which bacteria is it?		
4. What is the source of this infection?		
5. Which epidemiological data from the history are signif	icant?	
6. The infectious dose required to induce this disease is a	pproximately?	
7. The incidence of this bacteria as a causative agent of e increases ?	nteritis in the population decreases or	
8. Describe therapy and other procedures for this patient	t.	
9. Possible complications of this disease?		

Name: Group Nr.:	Date:	
Case report 3		
Woman, 45 years of age, is coming to the physician ambulance in the vomiting in the early morning hours and just now she has also diarraddition of mucus, without blood.  Traveler's history - negative In the ambulance: body temper. – 37,8 °C, the patient does not show slightly sensitive to palpation The doctor asks about eating the previous day and she answers:  for lunch was a fried cauliflower from the own garden home dinner was bread with butter and honey from the private be	hea — the stool is watery with w signs of dehydration, abdomen emade mayonnaises and	
<b>Questions:</b> 1. Which of biological materials we will take in the ambulance of phexamination?	nysician and for which laboratory	
2. Which bacterium is causative agent of this disesase? What is you	r first idea? Why?	
3. Describe the media used for cultivation and the results of the exa	m – on the picture	
4. Identification of bacterium? Which other tests we add to the first	t tube?	
5. Which other methods we will use for accurate identification of ba	acterium (serotyp)?	
6. What is the infectious dose of this microbe?		
7. What is incubation period?		
8. Therapy?		
9. Other procedures in the family of patient?		

10. Possible epidemiological procedures?

Name:	Date:
Group Nr.:	
Case report 4	
Boy 1 year of age comes with his parents in January to the ambulance of the because he has 1 day of diarrhea with vomiting and high fever, the stool is vanamnesis: older sibling (12 years) suffered with mild diarrhea 5 days befor 2-3 days).  Traveler's history - negative The child in an ambulance: Body temperature 39,5 °C, fatigue, mild tachycan frequency (35/min), abdomen sensitive to palpation, audible accelerated per	watery with mucous. e (this disease lasted cca rdia (121/min), breathing
Questions:	
1. Which microorganisms can cause this disease?	
2. Which biological materials we take from patient, which tests we will do a	nd why?
The boy has positive immunochromatographic test - rotaviruses	
3. In which season infections with rotaviruses occur most frequently in child	dren?
4. How high is the infective dose for rotaviruses?	
5. Therapy?	
6. What was the likely source of infection for a small patient?	
7. How long is the incubation period for rotaviruses?	
8. How long are rotaviruses excreted in the stool, and how large is the viral laffected child in the acute phase?	load in the faeces of the
9. Is there a prevention of this disease?	

Name: Group Nr.:	Date:	
Case report 5		
A man, 35 years, comes in February to a GP with 8 days laws 37,2 – 37,4 °C. Tired, lethargic, several diarrheal stocof blood in the stool and pains in the right lower abdome season he makes pig slaughters in households and he is t just now in the morning is 37,2 °C; CRP by quick test in the abdomen sensitive on palpation, practitioner with redoxycycline and a control in two days at the latest. He tal	ols per day, mucous, yesterday he was scared n. The patient is a butcher, now in the ired. He does not travel. Body temperature e consulting room of practitioner is 30 mg/L, gard to the patient's occupation prescribes	
Questions:  1. Which of microorganism can cause this alimentary info your diagnostic considerations??	ection (GIT infection) and what will be in	
2. Why with regard to the occupation of a patient? What	is important?	
3. Which other microbiological examinations would you	make?	
4. What is probably the source of infection for the patier	nt?	
5. Was the therapy correctly selected for the identified b	acteria?	
6. What is the <i>Yersinia enterocolitica</i> infective dose?		
7. Period of incubation?		
8. Can develop infection of <i>Yersinia enterocolitica</i> to the	septic form?	
9. Which antibiotics do you choose in this case?		

(Note: Solid medium CIN – a name is derived from content of antibiotics to suppress the growth of other microbes:  $\underline{\mathbf{C}}$ efsulodin -  $\underline{\mathbf{I}}$ rgasan –  $\underline{\mathbf{N}}$ ovobiocin)

Name:		Date:
Group Nr.:  Case report 6		
from home for the e amounts and is free patient is immobile, rehabilitation nurse, infections.	elderly with 3 days of diarrhea, of blood. The patient complair bedridden (confined to bed by incontinent and in the last 4 woody temperature 38,4 °C, pulse	the internal department of the district hospital the stool is watery, is often excreted in small ns of abdominal pain and twice vomited. The y sickness or old age), walking only with a weeks repeatedly treated for urinary tract as 85/min, breath 20/min, blood pressure 120/65
Questions:		materials will be made without delay?
2. Evaluate result of section of the instru		test on the cassette, as shown in the bottom
3. Therapy ?		
•••	<u>n: The stool sample</u> : (sensitive to Metronidazol, Var <i>Escherichia coli</i> 10²bact./ml ur <i>Staphylococcus epidermidis</i> 10 <i>Staphylococcus aureus</i> rarely	rine
4. Does the patient h	have a urinary infection again?	Which of the microbes is a causative agent?
5. Is changing of ATE	3 therapy necessary?	

Name: Group Nr.:	Date:
Case report 7	
Woman, 30 years of age comes to his doctor with two days of C), loss of appetite and nausea, morning vomiting, for sever right costal arch.  Traveler's history: Three weeks ago, she returned from a three English in a school for children of poor parents. Hygienic conshe was vaccinated against: Hepatitis A and B, meningococcatake an antimalarial medication - the emergency pack she had directly to the ambulance of the Infectious Clinic.  On the Clinic: body temperature 37,4 °C, conjunctiva slightly more right; describes a slight headache.	ee-month stay in India where she taught ditions were terrible. Before traveling, al meningitis (A,C), tetanus, she did not ad with her. The practitioner sends her
Results of laboratory tests:  CRP 10, ALT 个个, AST 个, In urine bilirubin, other values are Thick and thin blood films - negative, PCR for DNA of pathog The result of a virological examination: Detected antibodies hepatitis A virus in the IgG class, hepatitis E virus in the IgM of borderline value	genic leptospires – negative against: hepatitis B virus in the IgG class,
Questions:  1. On which diseases you will be thinking? Which biological	materials will you take from a patient?
2. Can clinical signs lead to suspected leptospirosis?	
3. What is an emergency package with regard to malaria?	
4. Your diagnosis? And is based on ???	
5. Can it be hepatitis A or B??	
6. Why is in the result of serological tests for hepatitis E pres	sent only borderline titer IgG?
7. What it means "seroconversion" in results of serological	tests of infectious diseases?

8. What we can still include in the diagnostic balance of a patient with any hepatitis - in general? Think of a few examples.