Name:	Date:
Group Nr.:	

## **LABORATORY PROTOCOL Nr. 3 - SKIN, SOFT TISSUES, BONES AND JOINTS INFECTIONS**

## Case report 1

6 yrs. old girl attending kindergarten comes with her mother to the pediatrician with multiple focuses on her face. Swimming course in the anamnesis.

Objective: afebrile, multiple focuses on the face in different stage – vesicles with pus contents to

focuses covered with crust, submandibular lymphatic nodes enlarged  Laboratory examinations:
Blood count: leucocytosis
Questions:
1. Which infections are suspected?
2. Which microbiologic examinations will be performed?
3. What is the result of cultivation?
4. Which agent is most likely suspected and which tests may be used for its identification?
5. Which is the second most frequent agent causing impetigo?
6. Which antibiotics are the most appropriate for the therapy of isolated agent?

Name:	Date:
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Case report 2	
56-yrs. old man comes to the infectious clinic department for skin affect—cir progressively extending and disappearing in the centre. The man had a tick be skin area. The tick was removed as late as the following day after walking in reddening appeared after 4 days.	pite in the mentioned
Objective: afebrile, reddening of 7 cm with central paleness on the left calf, b	olood count normal
Questions:	
1. Which infection is suspected?	
2. What is the etiologic agent? Which species of this pathogen do you know?	
3. What are the possibilities of laboratory examination? What about cultivation	ion?
4. Is the suspected infection primarily human or zoonosis?	
5. What the term vector means (which other infection is transmitted by it) an animals?	nd what are the reservoir
6. Indicate the suitable antibiotics for the therapy.	

Name:	Date:
Group Nr.:	
Case repo	ort 3
45-yrs. old man operated for acute apendicitis complication appendectomy enlarged painful swelling with brown expound surroundings. Patient is exhausted, febrile with of gas in abdominal wall.	exsudate secretion appears in the operation
Questions:  1. Which biological specimens will be sent for microbio	ologic examination?
2. Which infection is most likely suspected?	
3. Which agents are suspected? Which examinations of	of affected tissue will be performed?
4. Describe the microscopic findings in the wound exs	udate.
5. Which agent is suspected? List also the species naminfection.	es of microorganism causing described
6. Which antibiotics with effect against anaerobic bact	eria do you know?

Date:	
Case report 4	
for arthtrosis 16 months ago. Since operation febrile temperature.  esis – endoprosthesis healing has not realized,	
<b>3</b> ,	
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Name: Group Nr.:	Date:
Case report 5	
18-yrs. old man comes to his GP for redding focus above clavicle.  Objective: afebrile, solitary focus with purulent contents and redding in the sulymphadenopathy	rroundings, no regional
Questions: Which disease is suspected?	
Laboratory examinations:  2nd day the spontaneous evacuation of focus appeared, swab from affect perf cultivation  Result of cultivation after 24 hours – on the slide	ormed and sent for
Questions:  1. Which agent was cultured?	
2. Is ATB therapy necessary? Indicate the suitable ATB.	
3. What is the source of infection?	
4. Which complications can Staphylococcus aureus cause when entering the bl	ood circle?
5. Which ATB is the ATB of choice for therapy of staphylococcus sepsis?	
6. Explain the term MRSA, what are the consequences for the patients with M	RSA infection.

Name: Group Nr.:	Date:	
Case report 6		
78-yrs. old woman with diabetes mellitus comes to her diabetologist for controlitching focuses under her breasts.  Objective: afebrile, multiple tiny reddish focuses between and mostly under book into large festering area		
Laboratory examination: CRP 8 mg/l, glycaemia 12,8 mmol/l		
Questions: 1. Which infection is most likely suspected?		
2. Which agent is detected most frequently, which examination may determine	e the agent?	
3. Indicate at least 3 candida species isolated from clinical specimens.		
4. Which methods of candida determination in clinical specimens are used?		
5. What is the name of agar used for selective cultivation of candidas?		