PZ10 Clinical microbiology I – general

To study: Sampling, specimen transport (from textbooks, www etc.)

From spring term: Microscopy

Task 1: Indications for microbiological examination

For following casuistries, fill in the table.

- Fill in always the case description (left column).
- 2 Try to find out your solution. Try to structure your answer as follows:

Microbiological examination: yes/no

- \diamond yes \rightarrow select a specimen
- \bullet no \rightarrow select other steps, e. g. direct treatment what antibiotics etc.)

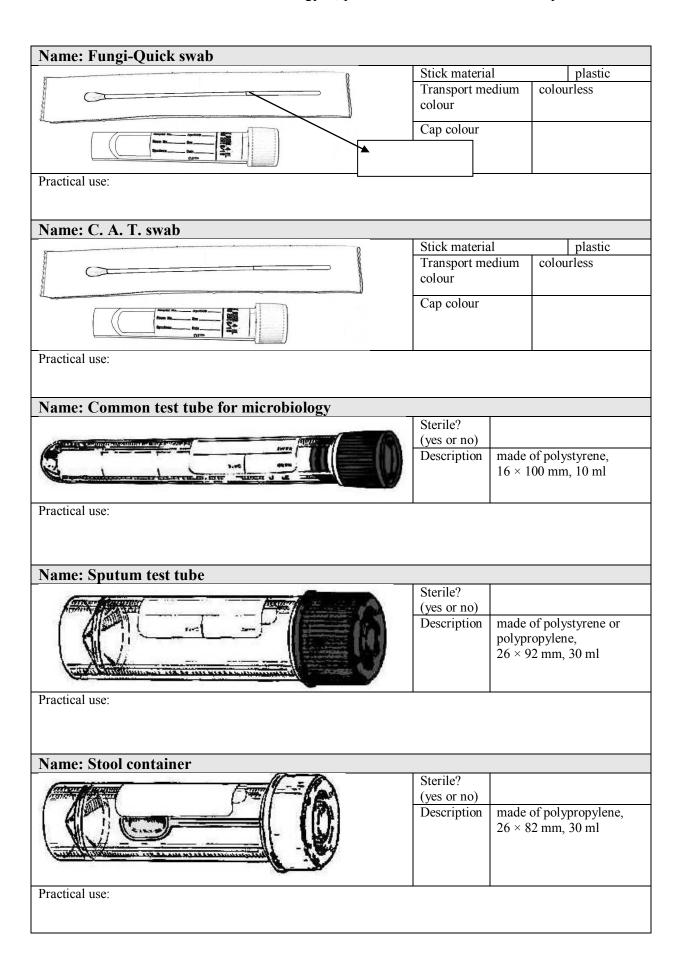
3 After the three minute limit, write down a correction according to the teacher's explanation

	After the three minute limit, write down a correction according to the teacher's explanation.			
	Description of a case	Your solution (① 3 minutes)	Correction according to the	
			teacher's explanation	
a				
b				
c				
d				

Task 2: Swabs and vessels

Observe the swabs in your table and fill in their identity cards.				
Name: Plain swab				
	Stick material	plastic, wood, aluminium		
Dienot ah	Swab material	synthetic cotton		
Practical use:				
Name: Swab with Amies transport medium				
	Stick material	plastic or aluminium		
Person	Swab material	synthetic cotton		
	Medium	Amies (Stuart, Cary Blair)		
Note: The medium may contain charcoal (then it is black); without charcoal, it would be colourless.				
Practical use:				
Variant with aluminium stick is used for				

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Name:	Si Si	ampling vessel for urine	
		Sterile?	
	West C	(yes or no)	
		Description	made of polypropylene,
03-11-11-11-11-11-11-11-11-11-11-11-11-11	(en)		45 × 70 mm, 120 ml
Practical use:			

Task 3: Other sampling methods than swabs and vessels

Fill in the following table:

Sampling method	Typical example(s) of use
smear on a slide	
imprint with an agar	
moulage method (indirect imprint)	
uricult	

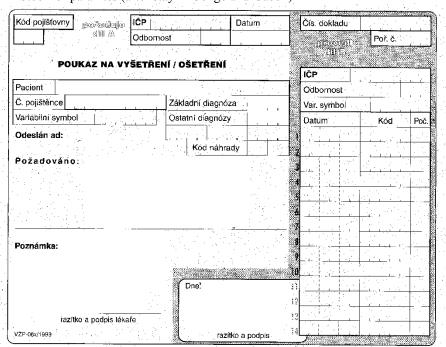
Task 4: The order form

a) Filling in the order form

Fill in the following order form with a patient name and data and the requested examination related to the disease, according to a card that has been given to you by the teacher.

Examples of a description to be written on the request form (in "Požadováno" field):

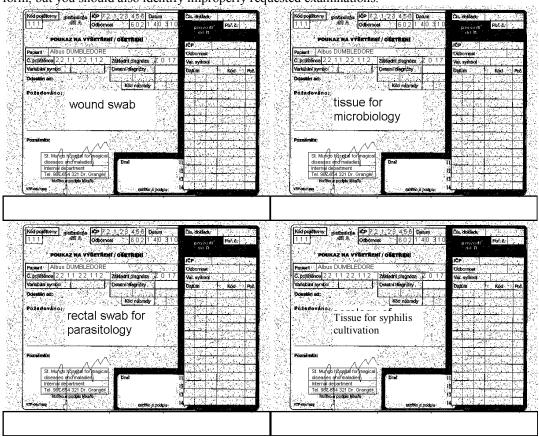
- Throat swab for bacteriology examination
- Blood for antibodies againts EB virus and cytomegatovirus
- Stool for parazites (after stay in Congo and Gabon)



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b) Order form common mistakes

To each of the following order forms write down what is wrong. There are some mistakes at filling in the order form, but you should also identify improperly requested examinations.



Task 5: Interpretation

a) Direct diagnostic interpretation

Using the table in the slideshow, write the likely interpretation for first five of various findings written on cards available on your table. Use terms "pathogen", "common flora", "accidental finding", "colonization" and "contamination"

E. 1.	
Finding	Interpretation

b) Indirect diagnostic interpretation

Interpret several clinical situations with data given on the card. Do not forget to make your interpretation on the base of both clinical findings and laboratory results (clinical findings). Chose only four of five situations.

Rewrite from the card (simplify the sentences)		Conclusion
Clinical situation	Serology examination results	

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