P 12 Clinical microbiology I

Task 1: Indications of microbiological examination

For following casuistics, fill in the table.

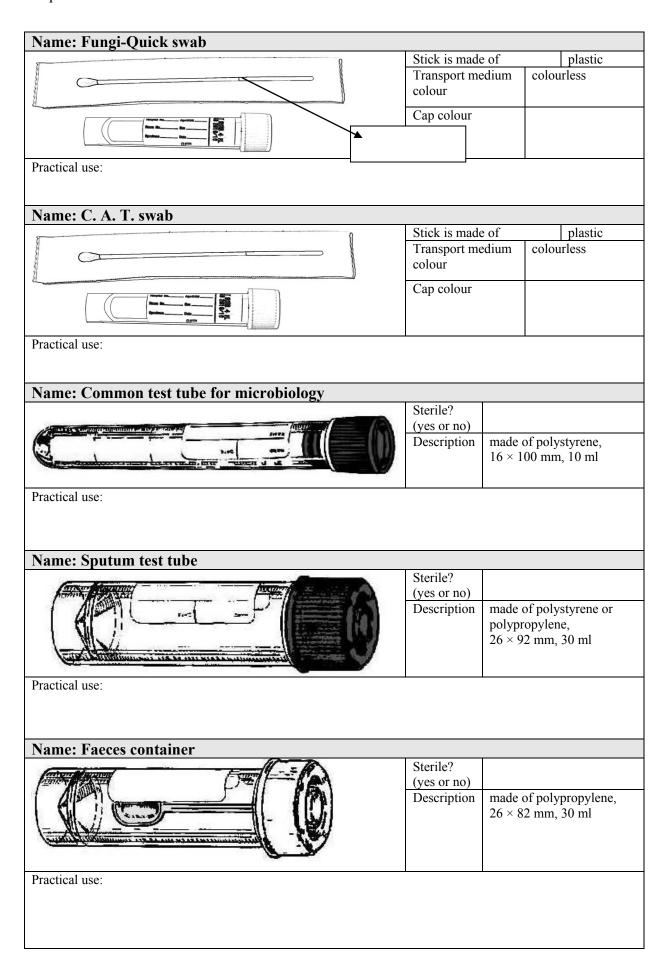
- Allways fill in the case description (left collumn)
- 2 Then try to find out your solution. Try to structure your answer followingly: Microbiological examination: yes/no
 - **tilde** if yes, what type of a specimen(s)
 - ❖ if no, what more steps, e. g. direct treatment what antibiotic, etc.)

3) After the three minute limit, write down correction made according to teachers explanation

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

Task 2: Swabs and vessels
Observe the swabs on your table and fill in their identity cards"

Observe the swabs on your table and fill in their "identity cards".						
Name: Plain swab						
	Stick may be made of	plastic, wood or aluminium				
Dienot ah	Swab is made of	syntetic cotton				
Practical use:						
Name: Amies swab						
	Stick is made o	f plastic or aluminium				
(News) oh	Swab is made of					
	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						



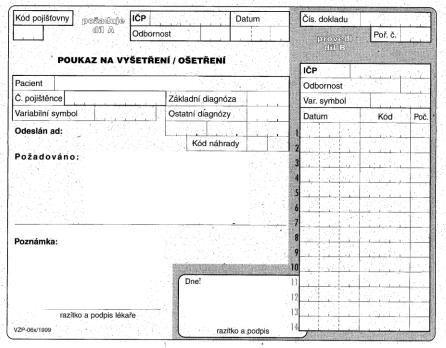
Name:	Sampling vessel for				
		Sterile?			
Thursday 1	NEW S	(yes or no) Description	made of polypropylene,		
23		Doornpalen	45 × 70 mm, 120 ml		
93=			ŕ		
02=	Year				
Practical use:					
T1-2, O4h					
Task 3: Otn	er sampling methods than swabs and	vessels			
a) Moulage					
	oulage method in pairs. Place a sterile filtrati				
transport it care	efully to a Petri dish with agar. After 10 seconds	s, remove it and throw	it away.		
b) Smears					
In some case	es it is recommended to send directly		C Ciamaa atain		
	smear to the laboratory (actinomycosis,	`	Gram–Giemsa stain		
	out also other genital infections). In		\		
	roblems, often two specimens of a vaginal				
	to the laboratory. After coming to the is stained using Giemsa staining and the	\) ————		
	using Gram staining.		/		
	It of a vaginal smear, and draw your result to				
	report. Write down, whether your slide was				
Gram or Giems	sa stained.				
Task 4: Sam	pling in specific types of samples				
a) Blood cul	tures f three types of vessels for blood culture.				
blue	three types of vessels for blood culture.				
Diuc					
green	1				
red	Γ	-			
Till in subst d	C. Leviller the missing on a order form	· af blood ould	1: = (1-, motoriol		
type/examination	lata should not be missing on a order form	in case of blood cult	ture sending (only "material		
type/examman	on type neid)				
Explain:					
Why absolute sterility is necessary in blood culture samples more than in any other blood specimens (e. g. those					
sent for biochemical examination)?					
How many blood cultures should be taken and why?					

Fill in the missing fields in description of process of blood culture examination according to videoclip and teacher explanation. A blood culture vessel comes to the laboratory. Here it is put into a								
The positivity is d	emonstrated by	and	When					
the cultivation is p	ositive, a smear is prepared and the	e sample is	to blood and Endo					
agar. Also a prelim	inary	test is performed	directly from the specimen; as the					
inoculum is not star	inoculum is not standardized here, its results are only							
true/false.	her explanation, tick, what sentend							
Urine examination	is recommended in non-complicated	and necessary in compl	icated cystitis ☐ true ☐ false					
Microbiologists recommend use of cathetrized urine as a routine way of sampling urine for bacteriology ☐ true ☐ false								
It is not important, whether prepucium (in men) or labia minora (in women) is in the way of urine stream when sampling urine for bacteriology ☐ true ☐ false								
External orifice of urine for bacteriolo	urethra should be carefully washed gy □ true □ false	and eventually also dis	sinfected before taking sampling					
	patient urinates in, should be sterile	☐ true ☐ false						
	for urine transporation to the laborate		cap 🗖 true 🗖 false					
The order form sh	nould contain information whether imen taken from a permanent cathete	urine is "routinelly tal						
	ent catether has the same value for		tics as cathetrized urine (just for					
Urine specimen should be delivered to the laboratory in 2 hours after sampling, in impossible, it should be kept in refrigeratior true false								
	ter than urethral swab in gonorrhoea	diagnostics 🗆 true 🗖 fa	alse					
c) Faeces samp For some purposes	les for different types of path s, it is possible to send rectal swal Sometimes also at refrigerator tempe	nogens and toxins bs. For some other pur						
Stool sent for	Type of specimen	Stool sent for	Type of specimen					
bacteriology		virology – virus isolation	· · · ·					
mycology		parasitology						
virology –		detection of toxin of						
antigen detection		Clostridium difficile						

Task 5: The order form

a) Order form filling in

Fill in the following order form with a patient name and data and requested examination related with the disease that is written on a card that was given to you by a teacher



b) Order form common mistakes

To each of following ofder form, write down what is wrong. Some mistakes are mistakes of the order form, but you can also remark inproperly requested examinations.

