P 12 Clinical microbiology I

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.)

U A		it, write down a correction according to the tea	
	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
Nienal ah	Swab material	synthetic cotton
Practical use:		
Name: Swab with Amies transport medium		
	Stick material	plastic or aluminium
The sales	Swab material	synthetic cotton
	Medium	Amies (Stuart, Cary Blair)
Note: The medium may contain charcoal (then it is black); without char	arcoal, it would i	be colourless.
Practical use:		
Variant with aluminium stick is used for		

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N E OLL I			
Name: Fungi-Quick swab	Gr. 1	1	1 1 1
	Stick materia Transport me		plastic colourless
	colour	arum	Colouriess
	Cap colour		
D (: 1			
Practical use:			
Name: C. A. T. swab			
Trainer Crist It street	Stick materia	.1	plastic
	Transport medium		colourless
	colour		
	Cap colour		
Name No	Cap colour		
Practical use:			
Practical use.			
Name: Common test tube for microbiology			
B _N	Sterile?		
1000 July Samuel Company Compa	(yes or no)		
	Description		of polystyrene,
THE THE PARTY OF T		16×1	00 mm, 10 ml
Practical use:			
Name: Sputum test tube			
Name: Sputum test tube	Sterile?	l	
former from the second	(yes or no)		
	Description	made	of polystyrene or
	l P	polypropylene,	
		26 × 9	2 mm, 30 ml
Wast Sundianier as a market market			
Practical use:			
Practical use.			
Name: Stool container			
	Sterile?		
	(yes or no)		
	Description		of polypropylene,
		26×8	32 mm, 30 ml
The state of the s			
- B 3			
Practical use:			

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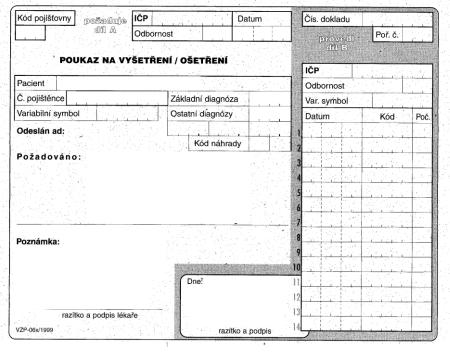
Name:	Sampling vessel for u			
	CAN 2	Sterile?		
	New 24 A	(yes or no)		
		Description	made of polypropylene,	
03			$45 \times 70 \text{ mm}, 120 \text{ ml}$	
04-2	46-			
	The state of the s			
WANTED TO THE STATE OF THE STAT				
Practical use:				
Tl- 2. O4l-		1-		
	er sampling methods than swabs and ve	esseis		
a) Imprint n				
	apprint method in pairs. Place a sterile filtration pa			
transport it care	efully to a Petri dish with nutrient agar. After 10 sec	conds, remove it a	nd throw it away.	
b) Smears				
,	es it is recommended to send directly			
	mear to the laboratory (actinomycosis,		Gram/Giemsa staining	
	out also other genital infections). In /	/	\	
gynecologic pr	roblems, often two specimens of a vaginal			
smear are sent	to the laboratory. There, one is stained by			
	e other by Gram.		/	
	It of a vaginal smear and draw your result in	\	/	
	report. Write down whether your slide was			
Gram or Giems	a stained.			
Task 4: Sam	npling in specific types of specimens			
a) Blood cul				
	e of three types of blood culture vessels.			
blue				
green				
red				
Fill in which	data should not be missing on the order form	in the case of bl	ood culture (only "material	
type/examination	on type neid)			
Explain:				
	e sterility in blood culture samples more necessary	than in any other	blood specimens (e. g. those	
sent for biochemical examination)?				
11 11	1 1/ 1 111 / 1 1 1 2			
How many bloc	od cultures should be taken and why?			

Fill in the missing clip and the teacher	fields in the description of blood cur's explanation	ulture processing and ex	camination according to the video			
	ssel arrives in the laboratory. Here it	t is put into a				
The positive result	t is demonstrated by	and	·			
When the cultivati	When the cultivation is positive, a smear is prepared and the content of the vessel is					
onto the blood and	onto the blood and Endo agar. Also, a preliminary test is performed directly					
from the specimen;	from the specimen; as the inoculum is not standardized here, its results are only					
true/false.	eacher's explanation, tick which ser					
	is recommended in non-complicated					
bacteriology. tru						
	whether praeputium (in men) or late urine for bacteriology. □ true □ fa		are in the way of urine stream			
External orifice of for bacteriology.	urethra should be carefully washed at true false	and eventually also disir	nfected before sampling the urine			
	ich the patient urinates should be ste	rile. 🗆 true 🗖 false				
	for urine transportation to the laborat		w cap. □ true □ false			
	hould contain information whethe					
	her it is a specimen taken from a per					
	anent catheter is equally important					
(just for examination						
Urine specimen should be delivered to the laboratory within 2 hours after sampling; if this is impossible, it should be kept in a refrigerator. □ true □ false						
	ter than urethral swab in gonorrhoea	diagnostics. true	false			
c) Stool samples for different types of pathogens and toxins For some purposes, it is possible to send rectal swabs, while for others, it is necessary to send a piece of stool, sometimes even refrigerated. Fill in the next table.						
Stool sent for	Type of specimen	Stool sent for	Type of specimen			
bacteriology		virology – virus isolation				
mycology		parasitology				
virology –		detection of the				
antigen detection		Clostridium difficile toxin				
		IOXIII				

Task 5: The order form

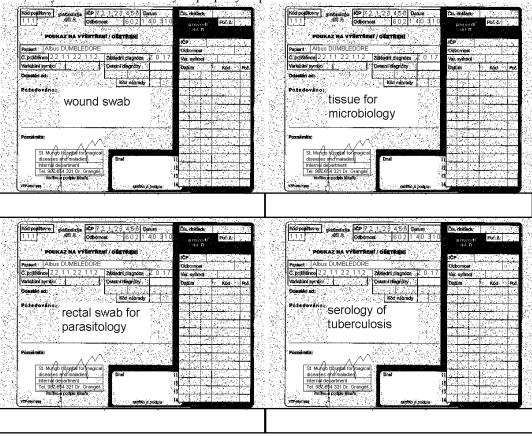
a) Filling in the order form

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.



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.



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