THE CASE STUDY

ANNOUNCEMENT Internship at an addiction centre

As a medical student, you will soon intern at an addiction treatment centre. You will be asked to complete a case study. The patient you will be treating must overcome a serious drug, alcohol or anabolic steroid dependency. At the end of your internship, you must present information to your patient that will help him or her stop consuming.

To complete your case study, you are to:

- Select one of the cases included in the table at the bottom of this page.
- Prepare an outline of a poster illustrating the desired and adverse effects of consumed substance(s) on the nervous, musculoskeletal and reproductive systems.
- Present written information that complements the information on the poster including measures for remedying the adverse effects, community resources, valuable sources of information consulted, and so on.

In this case study, you are to play the role of a medical student interning at an addiction treatment centre.

Cases to be studied

		Patient			
Cooo	Phy	sical cha	aracteris	tics	Toxic substances consumed and
Case No.	Gender	Age (years)	Weight (kg)	Height (m)	duration of consumption
1	М	22	98	1.75	Anabolic steroids for four years
2	F	14	56	1.64	Cannabis (hashish, marijuana) for nine months
3	F	19	53	1.61	Hallucinogens (LSD, MDA, mushrooms, ecstasy, PCP) for four years
4	М	22	61	1.65	Stimulants (amphetamines, cocaine) for two years
5	М	15	73	1.60	Solvents and glue for 14 months
6	F	28	59	1.69	Tranquilizers and sleeping pills (GHB, barbiturates) for three years
7	F	21	52	1.58	Opiates (heroin, opium) for five months
8	M	29	102	1.87	Alcohol for six years

Name:	Group:

CREATING THE CONTEXT

I ask myself questions

Cas	se studied:
1.	What is addiction?
2.	For whom is this case study intended?
3.	What questions might guide you as you gather information?
l m	ust
4.	Restate the goal of your case study.
l th	ink
	In your opinion, what are the effects of the substance(s) consumed by your patient on his or her body? Explain your answer.
	In your opinion, what measures would allow your patient to overcome his or her dependency? Explain your answer.

2

CREATING THE CONTEXT (continued)

What I know and what I must find out

7. Write down the information you already know and what you need to find out.

What I know . . .

What I must find out . . .

I prepare my work

8. Where will you find the information to give to your patient?

9. Organize the principal steps of your work in chronological order.

Reflection

Yes No

Do I fully understand what I need to do?

Name:	Group:	
vanic.	_ Gloup	

GATHERING INFORMATION

I do research

Case	e studied:	Substance(s) consumed:	
1 . V	What are the effects	of the consumed substance(s) on the systems of the human body?	
_			
-			<u> </u>
-			
<u>-</u>			<u> </u>
		ld be taken to remedy the adverse effects of the substance(s)? sources exist for people with addictions?	
<u>-</u>			_
_			
3. V	What other informati	on would be helpful to give to the patient?	
- -			
4 . V	What are your princi	pal sources of information?	
-			<u> </u>
<u>-</u>			
=			

GATHERING INFORMATION (continued)

I apply my research results

5. Link the effects of the consumed substance(s) to the corresponding systems of the human body, as well as to their organs or tissues.

Effects of anabolic steroids on the systems of the human body

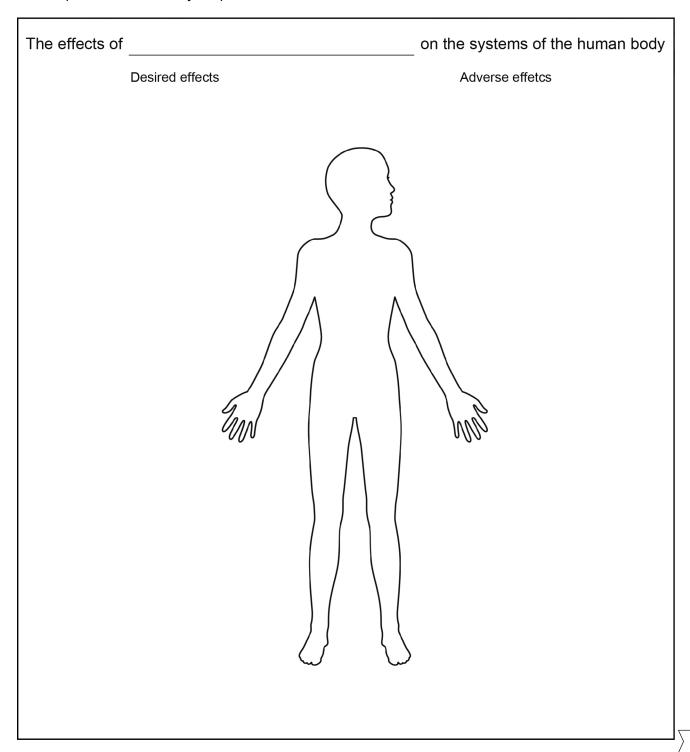
		Affected	systems
Name of sy	rstem	Affected organs or tissue	Effects
Reproductive	Male		
system	Female		
Nervous sy	rstem		
Musculosk systen			

Reflection	Yes	No
Do I fully understand the scientific concepts involved in this situation?		

COMPLETING THE CASE STUDY

I make suggestions

1. Prepare the outline of your poster.



COMPLETING THE CASE STUDY (continued)

© **ERP!** Reproduction and adaptation permitted solely for use with *Observatory*.

 Reflection
 Yes
 No

 Have I considered other solutions or explanations?
 □
 □

VALIDATING THE PROJECT

I justify my approach

1.	What are the most adverse effects of the consumed substance(s) on your patient's health?
2.	Do you think the information you will give to your patient will help him or her stop consuming? Is certain information more convincing than others? If yes, explain your answer.
3.	What are the benefits and drawbacks of the measures you are suggesting to your patient to encourage him or her to stop consuming?
4.	Among your sources of information, are certain ones more useful than others? Justify your answer.
5.	Do you think your poster is a good method for giving useful information to your patient? If not, what would you suggest? Explain your answer.

Observatory/Guide

MY EVALUATION

Use the evaluation grid on the next page to do a self-evaluation. Write A, B, C, D, or E in the appropriate space.

	SSC2 Makes the most of and technology	of hi	s/her	knowledge of science
Criteria*	Observable indicators	Ме	Teacher	Comments
1	Creating the context			
	Formulation of questions for information gathering and definition of the case study goal		□ With help	
2	Gathering information			
	Listing of effects produced by consumed substances and identification of their repercussions on systems and organs (or tissues)		□ With help	
3	Completing the case study			
	Grouping of listed effects into desired and adverse ones, and citing of community resources		□ With help	
4	Validating the case study			
	Justification of the solution using information sources		□ With help	

* Evaluation criteria

- 1 Formulation of appropriate questions
- 2 Appropriate use of scientific and technological concepts, laws, models and theories
- 3 Relevant explanations or solutions
- 4 Suitable justification of explanations, solutions, decisions or opinions

EVALUATION GRID

Makes the most of his/her knowledge of science and technology

)						
*Criteria	Observable indicators	A	В	С	D	Е
7	CREATING THE CONTEXT	The questions	The questions	The questions directing	The questions directing	The work
•	Formulation of questions for information gathering and definition of the case study goal	information gathering process are relevant. The case study goal is very clear.	information gathering process are relevant. The case study goal is clear.	gathering process are more or less relevant OR the case study goal is more or less clear.	gathering process are more or less relevant AND the case study goal is more or less clear.	be redone.
2	GATHERING INFORMATION	Many effects are listed	Many effects are	Some effects are listed	Some effects are listed	The work
I	Listing of effects produced by consumed substances and identification of their repercussions on systems and organs (or tissues)	systems and organs (or tissues).	are linked to the appropriate systems and organs (or tissues).	appropriate systems and organs (or tissues).	appropriate systems and organs (or tissues).	be redone.
3	COMPLETING THE CASE STUDY	All the listed effects are correctly grouped into desired and	All the listed effects are correctly desired	The grouping of listed effects into desired and adverse	The grouping of listed effects into desired and adverse ones contains	The work needs to
	Grouping of listed effects into desired and adverse ones, and citing of community resources	adverse effects: several community resources are mentioned.	and adverse and adverse a feet; a few community resources are mentioned.	contains against ones; contains some errors; at least one community resource is mentioned.	several errors.	
4	VALIDATING THE CASE STUDY	The information presented is supported by varied and reliable	The information presented is supported by reliable	The information presented is supported by sources of	The information presented is not supported by any	The work needs to be redone.
	Justification of the solution using information sources	sources of information.	but unvaried sources of information.	information that are more or less reliable and varied.	sources of information.	

Evaluation criteria

Formulation of appropriate questions

Observatory/Guide

- Appropriate use of scientific and technological concepts, laws, models and theories Relevant explanations or solutions Suitable justification of explanations, solutions, decisions or opinions