Case study scenario

You will need to complete the case study and programme design based on the information given to you in the case study scenario below. All stages of the 'case study' clients' pregnancy have been documented, so the programme should reflect the information outlined.

Client details

Age: 25

Ante natal lifestyle:

- works full-time in an office
- enjoys various forms of exercise but often finds it hard to maintain a regular exercise routine due to time constraints.
- · evenings consist of watching television, has a busy social life at the weekends.
- non-smoker.
- eats a balanced diet, avoiding alcohol now pregnant.
- activity history: prior to pregnancy, she took part in exercise three times a week, including: a variety
 of group-exercise sessions, swimming about 30 lengths a session and jogging (5km). Jogging was her
- preferred form of exercise. She doesn't like going to the gym, doing yoga or cycling.
- current activity levels: she is only walking two to three times a week (20 minutes at a time).
- barriers and concerns: worried about how exercise will affect the baby, concerned about putting on too much weight.

Post natal lifestyle:

- taking 12 months maternity leave.
- evenings consist of watching television, does not go out socially at the weekends due to tiredness.
- non-smoker.
- eats a balanced diet, avoiding alcohol whilst breast feeding.
- current activity levels and needs: walking 2 to 3 times a week and needs advice on how much she can do. Wants to be able to get back to jogging as soon as she can.



This is a step by step guide to help you complete your case study

Programme design for ante natal and post-natal clients (H504/0994 Level 3)

You are required to complete the answers in the Lifestyle, Attitudes and Barriers Consultation boxes below based on the information provided about THIS client.

Ensure you read the information carefully and extract the relevant details to complete your answers

It is important you recognise the lifestyle and current activity level and intensity this client has described.

The programme you write for the first trimester **must** be appropriate for THIS CLIENT taking into account her current level of fitness and activity profile

L3 Award in Adapting Exercise for Ante & Post-Natal Clients Ante natal and post natal details

First pregnancy (see attached pregnancy PAR-Q for more details)

First trimester: no complications, no morning sickness

Second trimester: starting to feel tired, but baby is developing normally

Third trimester: mild backache (due to being in the final stages of pregnancy); breasts are heavy and uncomfortable; finding it difficult getting up and down from the floor; still tires easily; baby developing normally

Childbirth: labour lasted 18 hours. Delivery was with forceps, and an episiotomy had to be performed

Post natal: first four weeks: client is breastfeeding. Stitches have been removed and healing normally. Diastasis recti check showed signs of a small separation still being present

After six to eight-week check: diastasis recti check shows everything back to normal. Client still breastfeeding.



Case study scenario PAR-Q

PARmed-X for pregnancy is a guideline for health screening prior to participation in a prenatal fitness class or other exercise class.

Healthy women with uncomplicated pregnancies can integrate physical activity into their daily living and can participate without significant risks either to themselves or to their unborn child.

Section A: patient information

Name: Miss Ann Casestudy

Address: 128 Station Rd

Date of birth: 21.04.1987

Name of fitness professional: Miss P Trainer

Section B: pre-exercise health checklist

In the past have you experienced (tick YES or NO): 1. miscarriage in an earlier pregnancy 2. other pregnancy complications 3. I have completed a PAR-Q within the last 30 days If you have answered yes to 1 or 2, please give details	General health status		
2. other pregnancy complications 3. I have completed a PAR-Q within the last 30 days If you have answered yes to 1 or 2, please give details	In the past have you experienced (tick YES or NO):		
3. I have completed a PAR-Q within the last 30 days If you have answered yes to 1 or 2, please give details	1. miscarriage in an earlier pregnancy	YES	NO 🗹
If you have answered yes to 1 or 2, please give details	2. other pregnancy complications	YES	NO 🗹
	3. I have completed a PAR-Q within the last 30 days	YES	NO 🗹
Number of previous pregnancies 0	If you have answered γes to 1 or 2, please give details		
	Number of previous pregnancies	0	



You are required to interpret the information in the PAR-Q (Sections A, B and C - see page below) to complete the section in the case study relating to the PAR-Q Analysis







Due date: April 1. marked fatigue 2. bleeding from the vagina (spotting) 3. unexplained faintness or dizziness 4. unexplained abdominal pain 5. sudden swelling, pain or redness in the calf of one leg 6. persistent headaches or problems with headaches 7. sudden swelling, pain or redness in the calf of one leg 7. sudden swelling, pain or redness in the calf of one leg 7. sudden swelling of ankles, hands or face 8. absence of foetal movements after sixth months 7. sudden swelling of ankles, hands or face 8. absence of foetal movements after sixth months 9. failure to gain weight after fifth month 9. failure to gain weight after fifth month 1. List only regular fitness/recreational activities: Walking three times a week for approx. 20 mins - medium intensity. 2. Does your regular occupation (job/home) activity involve: heavy lifting 7. YES NO 7. Or occupantion with a music with a music with a safe. No 7. op our currently smoke tobacco? 9. YES NO 9. Or on or on or on or one of the fam unsure what is safe.	Status of oursent programs						
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What physical activity do you intend to do?							
	·						
I need advice, I want to do more but I am unsure what is safe.	What physical activity do you intend to do?						
I need advice, I want to do more but I am unsure what is safe.							
	I need advice, I want to do more but I am unsure what is safe.						
NOTE: pregnant women are strongly advised not to smoke or consume alcohol during pregnancy	NOTE	alle a ball about a					

Section C: contraindications to exercise: to be completed by your health care professional

Absolute contraindications		
Does the patient have:		
1. ruptured membranes, premature labour	YES 🗆	NO 🗹
2. persistent second or third trimester bleeding/placenta praevia	YES 🗆	NO 🗹
3. pregnancy-induced hypertension or pre-eclampsia	YES 🗆	NO 🗹
4. incompetent cervix	YES	NO 🗹
5. evidence of intrauterine growth restriction	YES 🗆	NO 🗹
6. high-order pregnancy (triplets)	YES	NO 🗹
7. uncontrolled type-1 diabetes, hypertension or thyroid disease, other serious cardiovascular, respiratory or systemic diseases	YES 🗆	NO 🗹
Relative contraindications		
Does the patient have:		
1. history of spontaneous abortion or premature labour in previous pregnancies	YES	NO 🗹
mild/moderate cardiovascular or respiratory disease (eg, chronic hypertension, asthma)	YES	NO 🗹
3. anaemia or iron deficiency	YES 🗆	NO 🗹
4. malnutrition or eating disorder	YES 🗆	NO 🗹
5. twin pregnancy after 28th week	YES 🗆	NO 🗹
6. other significant medical conditions	YES 🗆	NO 🗹
NOTE: risk may exceed benefits of regular physical activity. The decision to be be made with qualified medical advice.	physically active	or not should
Physical activity recommendation		
Recommended/approved: ✓ Contraindicated:		
I a company to the standard co		

I, Ann Casestudy (patient's name), have discussed my plans to participate in physical activity during my current pregnancy with my health care provider and I have obtained his/her approval to begin participation.

Signed: A Casestudy (patient's signature)

Name of health care provider: Dr Foster

Heath care provider's signature: Dr Foster

	· -				
Lifestyle, attitudes and barriers consultation					
Case study					
Circa heigh au	erview of the client's current lifestyle				
Give a brief ov	erview of the client's current lifestyle				
Client's physica	Prior to pregnancy	Currently (before	Post natal		
	riioi to pregnancy	recommended	recommendations		
		programme)			
Frequency					
Intensity					
Time					
Time					
Туре					
Туре					
Client's activity	preferences				
Likes		Dislikes			
Summarise the	e client's attitude and motivation to exer	cise			



All answers within this section should relate to both the ante and post-natal periods.

Ensure you provide detailed answers that cover all information gathered in the profile.

Department is a self-transfer or		
Perceived barriers		Actual barriers
Medical and pregna	ncy history	
ee pregnancy PAR-Q		
	the client's pregnancy PAR-Q a	nd the details given in the scenario, list any special
		onsidered when developing the client's programme.
PAR-Q analysis		Considerations for programme
Goals and needs		
Goals and needs		
	ion given in the lifestyle and me	edical sections above, list the client's overall needs and
		edical sections above, list the client's overall needs and
Based on the informati set realistic goals for th		edical sections above, list the client's overall needs and
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Based on the informati set realistic goals for the Client's needs Client's SMART goals During pregnancy:		edical sections above, list the client's overall needs and



See Section 8 in the manual; Screening and gathering information.

Barriers to exercise- Read the information in the manual and then apply this to the client. What information can you extract from the profile to complete this section?

You will need to include perceived and actual barriers for both ante and post-natal phases.

Check for any positive responses on the PAR-Q

Include information for the ante and post-natal phases looking at all aspects of the PAR-Q and lifestyle information.

Consider information in the client profile relating to her wants and needs. Apply the information you have learnt on course to expand in this area. What may the client benefit from to prepare her for labour? What is important to the client from the antenatal perspective?

For both stages consider a pelvic floor goal and a physical activity goal, ensuring that both are very specific (FITT principles can be used here)

'Pelvic floor exercises 3 times a day' or 'get back to jogging' are not SMART as they are not specific enough nor time bound.

Whilst monitoring weight gain is a good strategy, the client could be very disappointed if she gains more than expected despite exercising and eating well, due to water retention or size of the baby. For this reason weight related goals should be avoided.





You are required to design a single session for the **case study client** who is currently in the first trimester of the pregnancy. The session that you design should be a general exercise session taking into account the clients likes and dislikes.

A full gym based session or full yoga session would not be appropriate as the client has stated she does not like going to the gym or doing yoga.

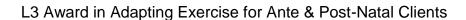
NOTE: You are required to use the information learnt during your pre-requisite course (Gym, PT, Yoga, Pilates) and the information learnt during your Adapting Exercise for the Ante/Post Natal Client and APPLY your knowledge to create a general exercise session. You can include some yoga postures if this is your area of speciality but these must not be held for long periods and need to be modified to allow for the growing baby, back care and relaxin. The focus of this case study is to ensure you have the knowledge and ability to adapt exercises in line with best practice for a general exercise session.

You will then need to add adaptations for the second and third trimester and post-natal period.

These adaptations should include;

- Changes in duration and intensity of exercise
- Changes in position for the exercise
- Adaptations of the exercise to suit the trimester (you may need to provide a different exercise)
- Changes in equipment or environment.
- You must ensure that you consider the anatomical effects of pregnancy for the client and show consideration to this when making adaptations.
- You must design a session that contains the following components; Warm up (mobility, pulse raiser, preparatory stretches) CV, muscular fitness, pelvic floor, stretch and relaxation.
- Provide enough information in the programme card to enable another trainer to deliver it, without having to make assumptions.
- Provide clear and detailed teaching points for all exercises in the first instance and for each adaptation also. For example
 - 'Hamstring stretch' is not sufficient. How will the client perform the exercise (seated/standing/lying)? What have you taken into consideration (posture/form/technique). How long will the client hold the stretch for?

Ensure you follow the guidance in your manual or reputable resources when programming your exercises and session overall. See sections 9-16 in the manual





Warm Up

Include mobility, pulse raiser and preparatory stretches covering a whole body approach. Note stretching in the warm up should help to promote relaxation and reduce tension.

- Use the appropriate RPE and exercise timings for an ante and post-natal warm up.
- Focus on a gradual increase of intensity with considerations for the different trimesters and their implications.
- Detailed pregnancy specific teaching points need to be included for all exercises in the first trimester and adaptations for each exercise for 2nd, 3rd trimester and post-natal period.

Ante natal and post natal programme: warm-up			
Component duration:	ion:		
Resources required:	d:		

This session is based on the client in the case study and covers the first trimester of pregnancy and highlights the changes that would be made during the second and third trimesters and the post natal period after the 6 to 8 week check.

First trimester exercise, intensity and duration	Pregnancy-specific teaching points	Adaptations for second trimester	Adaptations for third trimester	Post natal adaptations



CV Component

- Select exercises/approaches specific to meet the client's needs taking into account the information provided, including likes and dislikes.
- Provide an explanation of the session if it is integrated with the muscular fitness component (circuit, outdoor, ETM etc.)
- Use the RPE scale to identify intensity during each section of the CV component (re-warm, main, warm down) for each trimester and the post-natal period.
- Include exercises suitable for the first, second, third trimester and post-natal period.
- Demonstrate an understanding of the FITT principles
- Postnatal adaptations use relevant exercises, include FITT principles.
- Consider the environment, walking, hill walking, stair climbing as well as repetitive whole body movements such as step touch
 can be included.
- Aim to have adaptations in each column, all exercises can be adapted or changed to suit the ante and post-natal client.

See Section 11 Cardiovascular (aerobic) training Section in the manual

CV component	atai programme.				
Component duration: Resources required:					
First trimester exercise, intensity and duration	Pregnancy-specific teaching points	Adaptations for sec trimester	cond Adaptat	ions for third trimester	Post natal adaptations



Muscular Fitness Component

- Include at least 4 exercises.
- Must be based on a whole-body approach and be relevant to the needs of the client during each trimester
- Include functional exercises and exercises to support the clients changing needs of the body throughout each trimester. For example;
 - o Consider muscle imbalances (muscles which become weak and lengthened, muscles which become tight)
 - Change in centre of gravity
 - Loss of co-ordination
 - o Carpal tunnel syndrome
- Include FITT principles (weight used or strength of band, repetitions, sets, timings, equipment)
- Provide specific teaching points for all exercises and their safe adaptations.

See Section 12 Muscular strength and endurance section in the manual

Ante natal and post nat muscular fitness compo					
Component duration: Resources required:					
First trimester exercise, intensity and duration	Pregnancy-specific teaching points	Adaptations for second trimester	Adaptations for third trimester	Post natal adaptations	

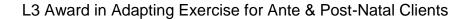


Pelvic Floor, Stretch and Relaxation Component

- Provide clear teaching points on pelvic floor exercises and how these will change throughout pregnancy and post-natal period.
- Include the two types of pelvic floor contractions and detail number of repetitions and sets.
- It is important to recognise that the local stabilisers need to be the underlying foundation to support weak abdominal global muscles.
- Include descriptive core exercises that are suitable for the client, even in the first trimester. Focus on the relevant abdominal muscles.
- Include detailed stretches using anatomical language and suitable timings/ positions for a relaxing post workout stretch. These should differ from your preparatory stretches in position.
- Ensure you link stretches to the muscles used in the session and those related to the pregnant body.
- Include a short relaxation element, with a full description. Consider the changes to client position in the different trimesters.

See Sections 12 and 13 in your Manual

Ante natal and post n stretch and relaxation					
Component duration: Resources required:					
First trimester exercise, intensity and duration	Pregnancy-specific teaching points	Adaptations for se trimester	econd	Adaptations for third trimester	Post natal adaptations





Activities of Daily Living: This should be based on the clients' daily activities and their lifestyle, refer to the client profile.

- Consider day to day chores, parking further away from office/shops,
- Include posture reinforcement and pelvic floor exercises with details of repetitions and sets.
- Show how these will adapt as the pregnancy progresses.
- Identify how the client can increase their overall activity safely in all stages of pregnancy.
- In the post-natal period consider activities which can be done with the baby.

Ante natal and post natal programme: activities of daily living (ADLs) First trimester exercise, intensity and duration teaching points Pregnancy-specific tracking points Adaptations for second Trimester Post natal adaptations Prost natal only: give details of appropriate activities for the following stages: Immediately after birth (first six weeks) Post natal progression (activity advice for eight weeks onwards)



Case study and programme design: checklist

The learner:	Outcome
1. gave exercises/physical activities for all the components of physical fitness	
2. gave exercises/physical activities for the components: warm up, main session	
and cool down	
3. gave exercises/physical activities that were appropriate to the client's needs	
4. gave exercises/physical activities that were appropriate for the ante natal period	
5. gave exercises/physical activities that were appropriate for the post natal period	
6. gave exercises/physical activities that were consistent with accepted good practice	
7. described a range of safe and effective exercises/physical activities for each	
component of the session	
8. applied the principles of training to the programme design for the ante natal period	

Top Tips

- Ensure you read the client profile fully before answering the questions.
- Read the questions and ensure you have answered them fully for both ante and post-natal periods.
- Give explanations for any changes made throughout the programme. If you haven't made any adaptations between the different stages include why for example, 'same as Trimester 1' is not sufficient, you should explain why you are keeping it the same.
- Make sure you read over the assessment criteria (above) to ensure you have provided the assessor with the appropriate information.
- Use the manual for guidance and credible resources to enable you to complete the work.

Your work must be your own. Do not share your work or copy from other students.