

0 2

Coronary heart disease (CHD) is a non-communicable disease.

CHD is caused when fatty material builds up in the coronary arteries.

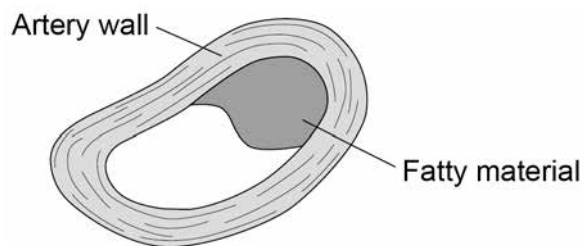
0 2 . 1

Explain what a non-communicable disease is.

[2 marks]

Figure 4 shows a coronary artery of someone with CHD.

Figure 4



0 2 . 2

Explain how CHD can cause a heart attack.

[3 marks]



0 2 . 3

Explain how lifestyle and medical risk factors increase the chance of developing CHD.

[6 marks]

11**Turn over for the next question****Turn over ►**

Question	Answers	Extra information	Mark	AO / Spec. Ref.
02.1	is not caused by a pathogen / infective organism	allow not caused by a microorganism / microbe ignore not caused by infection ignore named pathogen unless bacteria, virus and fungus all mentioned	1	AO1 4.2.2.4 4.2.2.5 4.3.1.1 4.3
	(so) is not passed / spread (from person to person)	allow cannot be spread / caught allow is not infectious / contagious	1	AO2 4.2.2.4 4.2.2.5 4.3.1.1 4.3
02.2	reduced / restricted / stopped blood flow	allow 'it' for heart it does not matter where blood flow is restricted to – heart / body	1	AO1 4.2.2.4
	(so) less oxygen reaches heart (muscle / cells)	must reference heart / it allow no oxygen reaches the heart (muscle / cells)	1	
	(so heart muscle / cells) cannot respire (enough) or (so heart muscle / cells) do not release (enough) energy	do not accept do not make / produce / create energy ignore references to breathing / suffocation ignore blood clots / blockages	1	

Question	Answers	Mark	AO / Spec. Ref.
02.3	Level 3: Relevant points (factors / effects) are identified, given in detail and logically linked to form a clear account.	5–6	AO2
	Level 2: Relevant points (factors / effects) are identified and there are attempts at logical linking. The resulting account is not fully clear.	3–4	AO2 AO1
	Level 1: Points are identified and stated simply, but their relevance is not clear and there is no attempt at logical linking.	1–2	AO1
	No relevant content	0	
	<p>Indicative content</p> <p>medical risk factors:</p> <ul style="list-style-type: none"> • high blood pressure • high cholesterol • diabetes • genetic factors • medications <p>lifestyle risk factors:</p> <ul style="list-style-type: none"> • smoking • obesity • lack of exercise • high fat / energy diet • eating insufficient fruit / vegetables • alcohol • high salt intake • exposure to air pollution • certain drugs / correct named drug <p>examples of links:</p> <ul style="list-style-type: none"> • smoking – high bp / cholesterol / fatty deposition • obesity – lack of exercise / high bp / cholesterol / fatty deposition / diabetes • exercise – obesity / bp /diabetes • diet – obesity / cholesterol / diabetes • alcohol – bp / cholesterol • high salt intake - high blood pressure • genetic factors – bp / cholesterol / diabetes / obesity • medication – can affect blood / blood vessels / metabolism <p>the main discriminator is the quality of linking both lifestyle and medical factors are required for level 3</p>		4.2.2.2 4.2.2.4 4.2.2.5 4.2.2.6
Total		11	