

Cambridge Technicals Health and Social Care

Unit 4: Anatomy and physiology for health and social care

Level 3 Cambridge Technical in Health and Social Care **05830 – 05833**

Mark Scheme for June 2018

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All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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Unit 4 Mark Scheme June 2018

Annotations – These are the annotations to be used when marking Unit 4:

Annotation	Meaning
V	Tick – correct answer
×	Cross – incorrect answer
+	Plus – use for positives
_	Minus – use for negatives
L1	Level 1
L2	Level 2
L3	Level 3
BOD	Benefit of doubt (This does count as a mark – so do not 'tick' as well)
^	Omission mark
TV	Too vague
REP	Repeat
SEEN Or	Noted but no credit given

Unit 4 Mark Scheme June 2018

Q	Question			Answer	Marks	Guidance
1	(a)		One mark for identification. Fixed joint Pivot joint Sliding joint Ball and socket joint	Five required. CRANIUM NECK WRIST HIP	5 (5x1)	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross. Allow alternative examples if correct
			Hinge joint	KNEE		

Question	Answer	Marks	Guidance
1 (b)	Two marks for an explanation. Two required. Osteoarthritis — • wear and tear on joints — linked to sports etc • cartilage worn away by friction • other conditions (secondary arthritis) • Age — more common after menopause • Family history • Obesity • Female (possibly due mainly to posture and joint alignment) • Previous injury Rheumatoid arthritis — • autoimmune response • damages the cartilage (as if it were a "foreign body") • thin layer of cells (synovium) become sore / inflamed • Releases chemicals that damage bones, cartilage, tendons, ligaments • Chemicals cause the joint to lose its shape and alignment • Eventually destroys the joint completely • Risk factors — genes / hormones / smoking • More common in females- probably genetic — most common ages 30-50	4 (2x2)	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross. The name of the type of arthritis is not required. Both examples could be from one type only. Two marks for each explanation. For each cause: one mark for cause given one mark for further explanation provided. ALLOW risk factors Accept reduction in quantity of synovial fluid Accept reduction in size of gap

Question	Answer	Marks	Guidance
1 (c)	One mark for an identification. Four required. Any four points: Physiotherapy Occupational therapy Podiatry Exercise Hydrotherapy Painkillers NSAIDs / anti-inflammatory Steroids DMARDs Biological treatments JAK inhibitors Weight reduction if obesity part of cause Wearing suitable footwear Using special devices to reduce the strain on your joints during everyday activities If particularly severe then surgery (accept without further detail for one mark, but no mark if incorrect detail given e.g. addition of cartilage or synovial fluid)) Artificial joint replacement (Arthroplasty) Fusion of joint (Arthrodesis)	4 (4x1)	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross. NOT HRT Medication without further detail is TOO VAGUE Surgery is TOO VAGUE Do NOT accept "surgery to replace cartilage" If alternative answer given, check with reliable source and allow if correct (e.g.Arthritis U.K.)

Question	Answer/Indicative content	Mark	Guidance		
Question	Answer/indicative content	Wark	Content	Levels of response	
1 (d)*	 Likely impacts of MS on movement: Plaques on long motor nerve tracts in brain or spinal cord may affect walking Leg may drag. Plaques on motor neurons to arms may cause "shakes" and/or loss of coordination. Plaque on fibres in brainstem may affect balance. Alternative periods of remission and relapses. Progressive. Spasm – may be painful deters from further movement Spasticity – muscles become stiff and resistant to movement Ataxia – difficulty with movement and coordination Tremor – shaking of limbs Dizziness and vertigo – leads to fear of attempting movement Musculo-skeletal pain indirectly caused by poor posture or gait – puts pressure on lower back and hips - deters further movement. Slowing of impulse transmission may make reflexes inadequate / lacking for protection purposes Progression may lead to eventual paralysis and being confined to wheelchair 	9	This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is explanation. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 3 – checklist detailed explanation related to movement two or more impacts factually accurate correct terminology QWC – high Level 2 – checklist sound explanation one or two impacts related to movement mostly factually accurate some correct use of terminology Sub–max of 3 if only one impact done well QWC – mid	Answers provide a detailed explanation of two or more likely impacts of MS explicitly related to movement. Answers will be coherent, logically structured factually accurate and use appropriate terminology. There will be few, if any, errors of grammar, punctuation and spelling. Level 2 (4–6 marks) Answers provide a sound explanation of one or two likely impacts of MS on movement. Answers will be factually accurate, presented with some structure and use appropriate terminology. There may be some errors of grammar, punctuation and spelling. Level 1 [1–3 marks] Answers provide a limited description of the likely impacts of MS on movement. May be a description / identification only. Use of appropriate terminology may be limited. Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive.	

Question	Answer/Indicative content	Mark	Guidance		
Question	Answer/indicative content	Wark	Content	Levels of response	
	 Neuropathic pain (caused by disease itself) may deter from attempting movement In MS demyelination of nerve tissues means nervous impulses cannot be carried correctly. Impulses may "jump" or short circuit or be transmitted more slowly than normal Scar tissue or plaques develop at site(s) of damage Effects depends on siting of these plaques. 		 Level 1 – checklist limited / basic explanation may be other effects of MS and little about movement limited use of terminology list like / muddled QWC – low 	Sub-max of 3 if only one impact done well O marks – response not worthy of credit	

Q	uestion	Answer	Marks	Guidance
2	(a)	One mark for an identification. Five required. A - Stomach B - Pancreas C - Large intestine D - Small intestine E - Rectum	5 (5x1)	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.
2	(b)*	One mark for an identification. Five required. Pancreatic juices play a part in digestion. They are released from the pancreas into the SMALL intestine. They neutralise the chyme (partially digested food from the stomach) because they are ALKALINE. They contain chemicals called ENZYMES which break down the food into smaller soluble molecules. These chemicals break down all three of the major food groups - carbohydrates, FATS and PROTEINS.	5 (5x1)	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross. The two last answers (fats and protein) may be in any order

Q	Question		Answer		Guidance
2	(c)	(i)	 One mark for an identification. One required. Coeliac disease Irritable Bowel Syndrome (IBS) Gallstones 	1 (1x1)	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.

C	uesti	on	Answer	Marks	Guidance
2	(c)	(ii)	Four marks for a description. Coeliac Disease: hypersensitivity to gluten causes autoimmune response walls of villi attacked microvilli become damaged villi appear flattened surface area reduced absorption of digestive products reduced / weight loss abdominal pain Need mention of (micro)villi destruction or reduced surface area for full marks	4	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross. Four marks: • For a detailed, accurate description Three marks: • for a well-developed description Two marks: • for a description showing some understanding
			 IBS: intestinal disorder affects the colon (the large intestine) Muscles in colon do not work at the right speed Or coordination with muscles in the rectum or pelvis is interrupted Leads to abdominal cramps/ spasm, bloating, constipation and diarrhoea / pain 		One mark: • for a simplified descriptions that lacks clarity

Question	Answer	Marks	Guidance
	 Gallstones: Block the normal flow of bile Lodge in the ducts that carry bile from the liver to the small intestine Bile builds up in your gall bladder leading to attacks Gall bladder attacks cause pain in the upper right abdomen 		

Question	Answer/Indicative Content	Marks	Guidance		
Question	Answer/indicative Content	IVIAI NO	Content	Levels of response	
2 (d)*	Feedback mechanisms involved in maintaining a steady level of various chemicals in the body: Blood glucose system • glucose levels monitored and controlled by cells in Islets of Langerhans in pancreas. • after a meal blood glucose level rises and is detected • cells release insulin • this enables cells to take up glucose • cells in liver and muscles change glucose to glycogen (storage compound) • blood glucose level falls • detected by cells • insulin production stops • blood glucose levels drop due to metabolic activity / exercise etc • cells detect this • release glucagon • causes (stored) glycogen to be	8	This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is explanation. One system described in both directions can count as two mechanisms Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 3 – checklist detailed explanation of feedback two mechanisms need not be given in equal detail well-developed, clear and logically structured factually accurate correct use of terminology	Level 3 [7–8 marks] Answers provide a fully detailed description of at least two feedback mechanisms in the body. Sentences and paragraphs are relevant and follow a logical sequence with accurate use of appropriate terminology. There will be few, if any, errors of grammar, punctuation and spelling. Level 2 (4–6 marks] Answers provide a basic description of at one/two feedback mechanisms in the body. Answers will be factually accurate, presented with some structure and use appropriate terminology. There may be some errors of grammar, punctuation and spelling.	

Question	Answer/Indicative Content	Marks	Gu	idance
Question	Answer/indicative Content	IVIAI KS	Content	Levels of response
	 turned back into glucose released into blood stream blood glucose levels rise detected glucagon release stops Osmoregulation and ADH Pituitary gland produces ADH - affects permeability of nephron to water If blood water concentration fall, ADH production increases More water returned to blood Balance restored If blood water concentration rises Less ADH produced Less water returned to blood Heat regulation Hypothalamus senses temperature changes Vasodilation when hot brings more blood close to surface of skin Sweat glands release sweat – evaporation cools blood Vasoconstriction when cold – keeps blood away from body surface to reduce heat loss Hairs raised to trap air close to skin surface (insulator Muscles shivering produces heat in muscles 		 QWC – high Level 2 – checklist basic explanation mostly factually accurate mostly relevant information some correct terminology QWC – mid Level 1 – checklist limited explanation information may not be relevant limited structure may be list like / muddled minimal use of terminology QWC – low If candidates mention blood and pH in relation to breathing this should be credited if correct 	Level 1 [1–3 marks] Answers provide a limited description of one feedback. Use of appropriate terminology will be limited. Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive. O marks – response not worthy of credit

Q	uestio	n	Answer	Marks	Guidance	
3	(a)		One mark for correct identification of the part of the eye. Five required. Tear glands Conjunctiva Cornea Iris Retina		Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.	
3	(b)	(i)	 Three marks for an explanation. Explain how cataracts affect functioning of the eye: Cataracts are clouding of lens Lens completes focusing of light on retina Light is poorly focussed initially – may not be noticed Increasing cloudiness eventually means vision becomes blurred / eventual sight loss Colour acuity may lessen due to light being scattered differently Halos around lights Poor night vision Mention of lens required for full marks 	3	 Three marks: for a well-developed explanation Two marks: for an explanation showing some understanding One mark: for a simplified explanation that lacks clarity Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross. 	

0.10	Question		Anouror	Marks	Guidance				
)II	Answer Mark	Iviarks	Content	Levels of response			
3 (1	(b)	(ii)*	 Monitoring for cataracts: Eye tests Visual acuity exam Regular check-ups 	5	This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is assessment. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 2 – checklist detailed description monitoring and one treatment well done well-developed, clear and logically structured factually accurate QWC – high Level 1 – checklist limited / basic one treatment limited structure may be list like / muddled QWC – mid - low	Answers provide a detailed description of monitoring and treatment for cataracts. Answers include accurate use of terminology and follow a logical sequence. Sentences and paragraphs are relevant. There will be few errors, if any, of grammar, punctuation and spelling. Level 1 [1–3 marks] Answers provide a description of monitoring and treatment for cataracts in a limited manner. At the lower end answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar and spelling may be noticeable and intrusive. O marks – response not worthy of credit.			

C	Question		Answer		Guidance
3	(c)	(i)	Axons carry "message" away from cell body (soma). (1) Dendrons carry "message" towards from cell body (soma) (1) If candidate identifies that direction is different award 1 mark. Second mark requires relative direction to be correct	2	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.
3	(c)	(ii)	Synapse is gap between two nerve cells. Neurotransmitter (chemical) released from one side (1) Triggers ongoing message at other side of gap (1)	2	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross. ALLOW one mark for simple identification of what a synapse is.

Q	uesti	on	Answer	Marks	Guidance
4	(a)		Two marks for an explanation. Two required.		Two marks for each reason given:
			 Reasons why the heart is referred to as a double pump Two completely separate sides (L & R) – blood kept separate so functions as two pumps Top chambers (atria) contract – two lower chambers (ventricles) contract separately Right side pumps blood to lungs – left side pumps blood around the body – two separate circuits Blood passes through the heart twice to make a complete circuit Blood at R side is de-oxygenated / blood at L side is oxygenated 		One mark: For reason stated Two marks: For reason stated and further explanation provided Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.

Q	uestion	Answer	Marks	Guidance
4	(b)	Four marks for an explanation. What the ECG trace tells us about what is happening in the heart: • waves represent the electrical activity of heart • different sections represent different activities within heart • P wave at the beginning shows atrial contraction • QRS shows ventricular contraction (systole) • T ventricles relaxing (diastole) - repolarisation • if waves disordered / out of rhythm etc. indicates which part of the heartbeat is "wrong" • shows if heart rate is too fast • shows is heart rate is too slow • shows if heart rate is irregular • indicates abnormal heart conditions (heart attack / heart valve conditions	4	Link to electrical activity required to satisfy explain. Three marks available if this is missing Four marks: • For a detailed, accurate description Three marks: • for a well-developed description Two marks: • for a description showing some understanding One mark: • for a simplified descriptions that lacks clarity Annotation: The number of ticks must match the number of
				marks awarded. For an incorrect answer use the cross .

Question	Answer		Guidance	
4 (c)	 Four marks for a description. How blood plasma becomes tissue fluid and lymph blood plasma in capillaries – forced out through "leaky" capillary walls by hydrostatic pressure (pressure from heart pumping) fluid carries nutrients and oxygen to cells of tissues (now known as tissue fluid) this fluid must return to circulatory system otherwise oedema occurs majority of fluid returns to capillaries remaining fluid (10%) drains into lymph vessels this re-joins blood system near top of body 	4	 Four marks: for a well-developed description with all three fluids mentioned Three marks: for a well-developed description with possibly only two of the fluids linked Two marks: for a description showing some understanding One mark: for a simple description/statement that lacks clarity Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.	

Q	Question		Answer	Marks	Guidance	
4	(d)	(i)	Any two from: Removal of urea Regulation of water levels / Osmoregulation (Ultra)filtration (filters blood) Reabsorption Salt regulation Urine production	2	One mark for each correct answer Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.	
			ReabsorptionSalt regulation		The number of ticks must match the number of marks awarded.	

	Question			Answer/Indicative content Marks		Guidance			
	Anesti	on		Answer/indicative content	Warks	Content	Levels of response		
4	(d)	(ii)*	•	Blood in renal artery enters glomerulus. Blood at very high pressure so much of plasma forced out (ultrafiltration) Small molecules (urea, glucose, amino acids, vitamins, mineral salts) removed with much of the water. Blood cells and proteins remain in blood as too large (if kidney working properly) Along proximal tubule most of the water, all glucose, amino acids, vitamins & most mineral salts move back into blood vessel running alongside. (reabsorption) NO urea returns. In medulla (Loop of Henle) a specialist blood supply removes salt from urine which then allows more water back into blood to balance osmotic potential of body. (osmoregulation) Blood leaving in renal vein should have no urea but other substances in balance. (removal of urea) Collecting ducts lead urine to the bladder	7	This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is description. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 3 – checklist detailed description (2 functions) well-developed, clear and logically structured factually accurate correct use of terminology QWC – high Level 2 – checklist description mostly factually accurate mostly relevant information some correct use of terminology qwc – mid Level 1 – checklist basic description information may not be relevant limited structure may be list like / muddled minimal use of terminology	Answers provide a fully detailed description of how the kidney carries out at least two of its functions. Sentences and paragraphs are relevant and follow a logical sequence with accurate use of appropriate terminology. There will be few errors, if any, of grammar, punctuation and spelling. Level 2 (4-5 marks] Answers provide a description of how the kidney carries out at least two of its functions and includes some accurate use of terminology. Answers are presented with some structure and are relevant using some accurate terminology. There may be some errors of grammar, punctuation and spelling. Submax 4 for one function done well Level 1 [1–3 marks] Answers provide a limited description of how the kidney carries out its function(s). Answers may be list like, muddled, demonstrating little knowledge or understanding. Errors of grammar		

Question	Answer/Indicative content	Marks	Guidance		
Question			Content	Levels of response	
			• QWC – low	and spelling may be noticeable and intrusive. 0 marks – response not worthy of credit.	

Q	Question		Answer		Guidance	
5	5 (a) One mark for an identification. Three required. Epiglottis		3	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.		
			Larynx			
			Trachea (accept bronchus)			

Ougotion	Anguay/Indiastive content	Marka	Guidance			
Question	Answer/Indicative content	Marks	Content	Levels of response		
5 (b)*	Breathing in Increase a sent to the diaphragm and intercostal muscles intercostal muscles (between the ribs) contract – raising he ribcage upwards and outwards diaphragm muscle contracts – moving in a downward direction pleural membranes are attached to lungs, inside of ribcage and diaphragm therefore movement of the lungs is brought about air is brought into the lungs because of resultant pressure and volume changes Breathing out nervous impulse stop and diaphragm and intercostal muscles relax rib cage swings down and in due to gravity diaphragm returns to its domeshaped position pressure /volume changes push air out of the lungs the diaphragm can put additional pressure on the lungs to increase emptying of the lungs	6	This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is explanation. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 3 – checklist detailed explanation clear and logically structured role of pleural membranes must be mentioned correct nomenclature for full marks factually accurate correct use of terminology WC – high Level 2 – checklist sound explanation mostly factually accurate mostly relevant information some correct terminology WC – mid Level 1 – checklist basic explanation information may not be relevant limited structure may be list like / muddled	Answers provide a fully detailed explanation of how breathing occurs, including the role of the pleural membranes. For full marks the correct nomenclature should be used. Sentences and paragraphs are relevant and follow a logical sequence with accurate use of appropriate terminology. There will be few errors, if any, of grammar, punctuation and spelling. Level 2 (3-4 marks] Answers provide an explanation of how breathing occurs that includes some use of accurate terminology. Answers are presented with some structure and include relevant information. There may be some errors of grammar, punctuation and spelling. Level 1 [1-2 marks] Answers provide a limited explanation of how breathing occurs. Use of appropriate		

Quantian	An array flooding time a containt	Marks	Guidance			
Question	Answer/Indicative content	Warks	Content	Levels of response		
			 minimal use of terminology QWC – low No credit for "route map" or description of gaseous exchange 	terminology may be limited. Sentences and paragraphs are not always relevant, with the material presented in a way that does not always address the question.		
				marks – response not worthy of credit.		

Q	Question		Answer		Guidance	
5	(c)	(i)	One mark for an identification. One required.Medulla (oblongata)	1	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.	
5	(c)	(ii)	One mark for an identification. One required. One other process controlled by this part of the brain: heart rhythm / rate blood pressure / vasoconstriction swallowing digestion	1	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross. • Allow vomiting sneezing and coughing	

Unit 4 Mark Scheme June 2018

Question		ion	Answer/Indicative content	Marks	Guidance
5	(d)	(i)	 One mark for an identification. One required. One from the following: Asthma Emphysema Cystic fibrosis 	1	Annotation: The number of ticks must match the number of marks awarded. For an incorrect answer use the cross.

Question		Answer/Indicative content	Marks	Guidan	се
5 (d)	(ii)*	Evaluate the methods of monitoring and treatment Emphysema: Treatment aims to stabilise the condition and prevent complications Lung function tests / chest x-ray / CT scan Inhalers / nebulisers (bronchodilators) — widen the airways and make breathing easier Corticosteroid drugs Oxygen therapy Chest drain Antibiotics to treat bacterial infection Quit smoking Healthy diet Exercise Drinking lots of water Avoid cold air Cystic Fibrosis: No cure, but a range of treatments can help control the symptoms — this can help make the condition easier to live with	5	This is a levels of response question – marks are awarded on the quality of the response given. The focus of the question is evaluation. Annotation: The number of ticks will not necessarily correspond to the marks awarded. Level 2 – checklist sound evaluation mostly factually accurate mostly relevant information some correct use of terminology QWC – mid Level 1 – checklist limited /basic evaluation information may not be relevant limited structure may be list like / muddled minimal use of terminology QWC – low	Answers will provide an evaluation of the monitoring and treatment for their chosen dysfunction. One treatment will be evaluated well at upper end of this level. Answers will be factually accurate, presented with some structure and use appropriate terminology. There may be some errors of grammar, punctuation and spelling. Sub-max of 3 If no qualitative judgements about treatment given e.g. quitting smoking most important single treatment and slows progress Level 1 [1-3 marks] Answers provide a limited (or no) evaluation of the monitoring or treatment for their chosen dysfunction but may simply identify or describe. Answers may be list like or muddled and demonstrate little knowledge or understanding. Errors of

Question	Answer/Indicative content	Marks	Guidan	Guidance	
	Regular appointments to monitor the condition			grammar and spelling may be noticeable and intrusive.	
	Different medicines needed to treat and prevent lung problems			0 marks – response not worthy of	
	 Antibiotics to prevent and treat chest infections 			credit.	
	Medicines to make the mucus in the lungs thinner and easier to cough up				
	Bronchodilators – widen the airways and make breathing easier				
	Steroid medicine to treat small growths inside the nose				
	Exercise can help				
	Physiotherapy / vibrating jackets				
	Airway clearance techniques				
	Healthy diet				
	Lung transplant (in severe cases)				
	Monitoring by lung function tests ant bacterial assays				
	Asthma:			Accept "asthma pump" instead of	
	 Monitoring by peak flow or spirometry (unusually) Regular checks with GP / asthma nurse 			inhaler Credit (1mark) for saying there are two different types of inhaler	

Question	Answer/Indicative content		Guidance	
	 Use of a reliever inhaler – fast acting – gives immediate effect – relaxes muscles of bronchi. Use of a preventer inhaler – must be used regularly for best effect – may keep individual symptom-free – reduces inflammation, reduces sensitivity of airways. Inhalers must be used correctly – many have poor technique – can be difficult for young children. Steroid or other medication may be required if inhalers fail or during a flare-up – have side effects so best avoided. Use of spacer with inhaler improves uptake of drug Inhalers portable, unobtrusive Use of nebuliser improves uptake of drug Awareness of triggers and avoidance where possible may reduce symptoms – may be unable to avoid some things e.g. weather conditions. Attend check-ups regularly – may be a nuisance – may get deterioration if not done. Flu jab annually – gives some protection – don't like being "labelled" as at risk. Exercise regularly as recommended – some afraid – some use their asthma as an excuse for low activity. 			

Question	Answer/Indicative content Ma		Guidance	
	 Keep weight within healthy limits – reduces risk of increased attacks – may be tempted to "comfort eat" because of diagnosis. In general, most asthmatics can lead a full and active life helped by medication Accept any other relevant point. 			

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