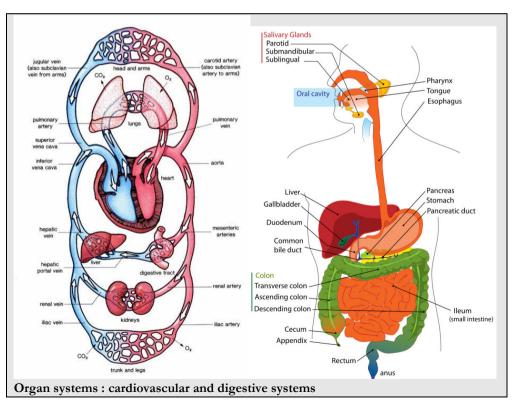
Organ Systems

VOCABULARY *in context.* Match the following definitions with words from the reading passage below, then give an appropriate translation in French.

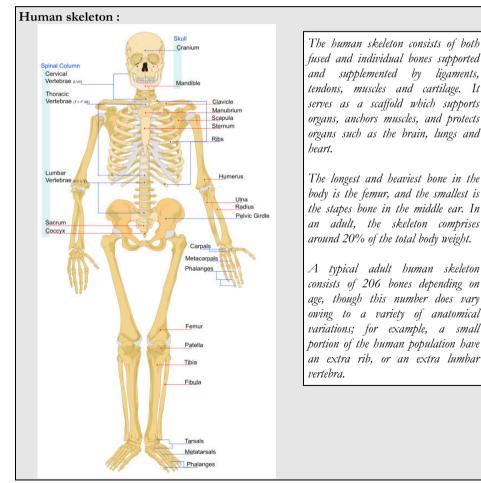
- 1. A pathological condition of a part, an organ, or a system of an organism resulting from various causes, such as infection, genetic defect, or environmental stress, and characterized by an identifiable group of signs or symptoms : _____
- 2. An elastic tubular channel, such as an artery, a vein, or a capillary, through which the blood circulates :
- 3. To cover a certain distance, To occupy a certain volume :
- 4. The opening at the lower end of the alimentary canal through which solid waste is eliminated from the body : ______
- 5. Physiology. To convert (food) into simpler chemical compounds that can be absorbed and assimilated by the body, as by chemical and muscular action in the alimentary canal : ______
- 6. To separate and discharge (waste matter) from the blood, tissues, or organs :
- 7. A useless or worthless byproduct 2. The undigested residue of food eliminated from the body; excrement : ______
- 8. The narrow, winding, upper part of the intestine where digestion is completed and nutrients are absorbed by the blood. It extends from the pylorus to the cecum and consists of the duodenum, the jejunum, and the ileum : _____
- 9. The portion of the intestine that extends from the ileum to the anus, forming an arch around the convolutions of the small intestine and including the cecum, colon, rectum, and anal canal : ______
- 10. To reserve or put away for future use : _____
- 11. The dense, semirigid, porous, calcified connective tissue forming the major portion of the skeleton. It consists of a dense organic matrix and an inorganic, mineral component. Numerous anatomically distinct structures making up the skeleton :
- 12. A tissue composed of fibers capable of contracting to effect bodily movement :
- 13. Anatomy. A sheet or band of tough, fibrous tissue connecting bones or cartilages at a joint or supporting an organ :
- 14. A band of tough, inelastic fibrous tissue that connects a muscle with its bony attachment : ______
- 15. Anatomy. A point of articulation between two or more bones, especially such a connection that allows motion : ______
- 16. Naturally;'Without any doubt; certainly : ____
- 17. The food served and eaten in one sitting; A customary time or occasion of eating food : _____

- 24. The flow of blood through the circulatory system of an organism : _____
- 25. A strong desire or need for food : _____
- 26. The quality or state of being full; saturation, completion; satisfaction :

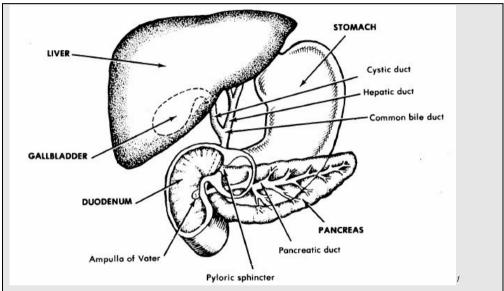
Although an organ has a specific function, organs also function as part of a group, called an organ system. The organ system is the organizational unit by which* medicine is studied, <u>diseases</u> are generally categorized, and treatments are planned. [...]



An example of an organ system is the cardiovascular system, which includes the heart (cardio) and <u>blood vessels</u> (vascular). The cardiovascular system is responsible for pumping and circulating the blood. The digestive (or gastrointestinal) system, <u>extending from</u> the mouth to the <u>anus</u>, is responsible for receiving and <u>digesting</u> food and <u>excreting waste</u>. This* system includes not only the stomach, <u>small intestine</u>, and <u>large intestine</u>, which* move and absorb food, but also associated organs such as the pancreas, liver, and gallbladder, which* produce digestive enzymes, remove toxins, and <u>store</u> substances necessary for digestion. The musculoskeletal system includes the <u>bones</u>, <u>muscles</u>, <u>ligaments</u>, <u>tendons</u>, and <u>joints</u> which* support and move the body.



<u>Of course</u>, organ systems do not function in isolation. For example, after a large <u>meal</u> is eaten, the digestive system needs more blood to perform its* functions. Therefore, it* <u>enlists</u> the aid of the cardiovascular and nervous systems. Blood vessels of the digestive system <u>widen</u> to transport more blood. Nerve impulses are sent to the brain, notifying it* of the <u>increased</u> work*. The digestive system even directly <u>stimulates</u> the heart through nerve impulses and <u>chemicals</u> <u>released</u> into the <u>bloodstream</u>. The heart responds by pumping more blood. The brain responds by perceiving less <u>hunger</u>, more <u>fullness</u>, and less interest in vigorous activity.



How is the digestive process controlled ?²

Hormone Regulators – The major hormones that control the functions of the digestive system are are gastrin, secretin, and cholecystokinin (CCK). These hormones are produced and released by cells in the stomach and small intestine into the blood of the digestive tract, travel back to the heart and through the arteries, and return to the digestive system, where they stimulate digestive juices and cause organ movement.

• **Gastrin** is released by the stomach and duodenum in response to stomach distension, vagal stimulation or the presence of partially digested proteins. Gastrin stimulates the stomach to secrete gastric acid and pepsinogen (the precursor form of pepsin).

¹ http://www.free-ed.net/sweethaven/MedTech/NurseCare/fig91801_02.jpg ² adapted from : http://digestive.niddk.nih.gov/ddiseases/pubs/yrdd/index.htm

•	Secretin , produced in the duodenum, causes the pancreas to send out a digestive juice that is rich in bicarbonate. It stimulates the stomach to produce pepsin, an enzyme that digests protein, and also stimulates the liver to produce bile.
•	CCK is secreted by the duodenum and causes the pancreas to produce the enzymes of pancreatic juice, and it causes the gallbladder to empty. As a neuropeptide, CCK mediates satiety by acting on the CCK receptors distributed widely throughout the central nervous system. ³
Ada	litional hormones in the digestive system regulate <i>appetite</i> :
•	Ghrelin is produced in the stomach and upper intestine in the absence of food and stimulates appetite. Receptors for ghrelin are expressed by neurons in the hypothalamus.
•	Peptide YY is produced in the GI tract in response to a meal and inhibits appetite.
	rve Regulators Two types of nerves help to control the action of the digestive system.
unco syste	trinsic (outside) nerves come to the digestive organs from the autonomic nervous system, the nscious part of the nervous system. The 2 major divisions are the sympathetic and parasympathetic ms. Two major neurotransmitters in the ANS are acetylcholine (parasympathetic) and norepinephrine, a noradrenaline (sympathetic). ⁴
The inne	vagus nerve, which contains about 75% of all parasympathetic fibers ⁵ , carries the parasympathetic rvation to most of the viscera (heart, lung, stomach, intestine ⁶). The parasympathetic system slows the heart and increases intestinal and gland activity ⁷ .
The trigg	e intrinsic nerves, embedded in the walls of the esophagus, stomach, small intestine, and colon are ered to act when the walls of the hollow organs are stretched by food. They release many different substances speed up or delay the movement of food and the production of juices by the digestive organs.
	hat do the following words refer to ?
a. 1-	"by which* medicine is studied" \rightarrow "Which" refers to
b.	"This* system includes not only the stomach" \rightarrow "This system" refers to
c. d	"which* move food" \rightarrow "Which" refers to
d.	"which* produce digestive enzymes, remove toxins, and store substances" \rightarrow "Which" refers to "which* support and move the body" \rightarrow "That" refers to
e. f.	"more blood to perform its" functions" \rightarrow "Its" refers to
g.	"Therefore, it* enlists the aid of the cardiovascular and nervous systems" \rightarrow "It" refers to
h	"notifying it to the increased work" \rightarrow "It" refers to

- h. "notifying it* of the increased work" \rightarrow "It" refers to ...
- i. "the increased work*" refers to the work of ...

True or False ? (Be ready to explain).

⁶ http://www.uottawa.ca/academic/med/cellmed/auto_5302.pdf

- . The digestive system needs more blood during digestion because its work increases.
- *ii.* Organs can belong to more than one organ system.

Questions : (1) Ask questions about the following points, then (2) let someone else answer in a complete sentence (3) using as many of the suggested terms as possible.

HOW (×2) -- WHAT

1. The means by which food is broken down in the digestive tract. $\rightarrow \dots$

tract i.e.8 -- exposed to -- (e.g. --) -- released by -- glandular -- such as -- and -- as well as

As food moves ...

2. The effect *of* digestion on blood flow. $\rightarrow \dots$

sends out -- and -- which directly -- to pump -- moreover -- dilate -- the extra -- Thus⁹ -- flow to -- during

After a meal ...

3. The reaction of the brain during digestion. $\rightarrow \dots$

less -- and less -- as well as -- feeling of -- in response to -- received from

In addition to the heart, the brain also ...

³ http://en.wikipedia.org/wiki/Cholecystokinin

⁴ adapted from : http ://www.merck.com/mmpe/sec16/ch208/ch208a.html

⁵ http://www.merck.com/mmpe/sec16/ch208/ch208a.html

⁷ http://en.wikibooks.org/wiki/Human_Physiology/The_Nervous_System Page 3 / 17

⁸ NB. <u>i.e.</u> = "id est" (lat.) / *c'est-à-dire*

⁹ NB. <u>thus</u> = in this way, for this reason / *ainsi*

Organ Systems (continued)	52. Two small, dissimilarly shaped endocrine glands, one located above each kidney, consisting of the cortex, which secretes several steroid hormones, and the medulla,
VOCABULARY in context. Match the following definitions with words from the	which secretes epinephrine :
reading passage below, then give an appropriate translation in French.	53. 1. The act or process of flying; 2. The act of running away; an escape :
27. In conformity with; in proportion to :	
28. Necessity; obligation :	54. Strong(ly); forceful(ly), intense(ly), vigorous(ly) :
29. To stop work or activity; relax :	55. To become wider or larger; expand :
30. To reduce speed :	56. The process of respiration :
31. To accelerate; To increase speed :	57. To become more rapid; accelerate :
32. Anatomy. A pair of organs in the dorsal region of the abdominal cavity, functioning to	58. To grow gradually less or smaller in number, amount, or intensity; diminish :
maintain proper water and electrolyte balance, regulate acid-base concentration, and	
filter the blood of metabolic wastes, which are then excreted as urine :	59. Spectacular; impressive, remarkable :
33. Dry; lacking (deficient) in water :	60. Anatomy. A member of a branching system of muscular, elastic tubes that carry blood
34. A state of equilibrium; stability :	away from the heart to the cells, tissues, and organs of the body :
35. The ability of an organism or a cell to maintain internal equilibrium by adjusting its	61. The part of the body joining the head to the shoulders or trunk :
physiological processes :	62. A small, oval endocrine gland attached to the base of the brain and consisting of an
36. Not the one or the other :	anterior and a posterior lobe, the secretions of which control the other endocrine
37. To create; To manufacture :	glands and influence growth, metabolism, and maturation. Also called hypophysis :
38. To produce in excess of need :	
39. To produce in a quantity insufficient to meet demand :	63. A hormone secreted by the posterior lobe of the pituitary gland that constricts blood
40. To preserve or retain; To support; To keep in existence; sustain :	vessels, raises blood pressure, and reduces excretion of urine :
41. To take place; exist :	64. The waste product secreted by the kidneys that is a yellow to amber-colored, slightly
42. The part of the nervous system that regulates involuntary action, as of the intestines,	acid fluid discharged from the body through the urethra :
heart, and glands, and that is divided into the sympathetic nervous system and the	65. To reserve; To keep :
parasympathetic nervous system :	66. A sensation of dryness in the mouth and throat related to a need or desire to drink.
43. A system of lines that cross or interconnect; A complex, interconnected system :	The desire to drink :
	67. A system of glands, such as the thyroid, adrenal, or pituitary, having hormonal
44. To control or direct a process :	secretions that pass directly into the bloodstream :
45. In the body; physical as opposed to mental :	68. A two-lobed endocrine gland located in front of and on either side of the trachea in
46. In the absence of :	human beings, and producing various hormones, such as triiodothyronine and
47. observable; significant :	calcitonin :
48. To go from one place to another; To be transmitted, as light or sound; move or pass :	69. Several closely related metabolically active compounds (as triiodothyronine) that are stored in the thyroid gland in the form of thyroglobulin or circulate in the blood
49. A chemical substance, such as acetylcholine or dopamine, that transmits nerve	apparently bound to plasma protein; especially thyroxine :
impulses across a synapse :	70. Metabolism per unit time especially as estimated by food consumption, energy
50. A hormone secreted by the adrenal medulla that is released into the bloodstream in	released as heat, or oxygen used in metabolic processes. (The complex of physical
response to physical or mental stress, as from fear or injury. It initiates many bodily	and chemical processes occurring within a living cell or organism that are necessary
responses, including the stimulation of heart action and an increase in blood	for the maintenance of life. Some substances are broken down to yield energy for
pressure, metabolic rate, and blood glucose concentration :	vital processes while other substances, necessary for life, are synthesized). :
51. Terrified :	
	71. To go forward; advance; To carry on (execute) a process :

72. The act of using; application : _

73. A class of water-soluble crystalline carbohydrates, including sucrose and lactose, having a characteristically sweet taste and classified as monosaccharides, disaccharides, and trisaccharides :

Communication between organs and organ systems is vital. Communication allows the body to adjust the function of each organ <u>according to</u> the <u>needs</u> of the whole body. The heart must know when the body is <u>resting</u> so that it* can <u>slow</u> <u>down</u> and when organs need more blood so that it* can <u>speed up</u>. The <u>kidneys</u> must know when the body has too much fluid so that they* can excrete more urine and when the body is <u>dehydrated</u> so that they* can conserve water.

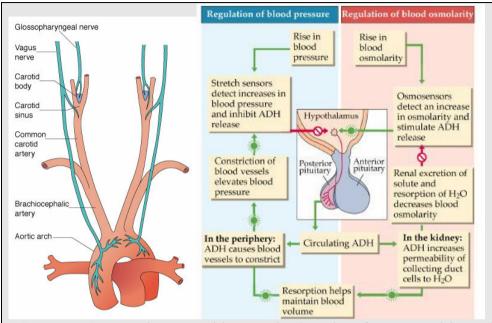
Through communication, the body keeps itself in <u>balance</u> -- a concept called <u>homeostasis</u>. Through homeostasis, organs <u>neither</u> <u>underproduce</u> <u>nor</u> <u>overproduce</u>, and each organ facilitates the functions of every other organ.

Communication to <u>maintain</u> homeostasis can <u>occur</u> through the nervous system or through chemical stimulation. One part of the nervous system, the <u>autonomic nervous system</u>, largely controls the complex communication <u>network</u> that <u>regulates bodily</u> functions. This* part of the nervous system functions <u>without</u> a person's thinking¹⁰ about it* and without much <u>noticeable</u> indication that it* is working. Chemicals used to communicate are called transmitters. Transmitters that are produced by one organ and <u>travel</u> to other organs through the bloodstream are called hormones. Transmitters that conduct messages between parts of the nervous system are called <u>neurotransmitters</u>.

One of the best known transmitters is the hormone <u>epinephrine</u> (adrenaline). When a person is suddenly stressed or <u>frightened</u>, the brain instantly sends a message to the <u>adrenal glands</u>, which quickly release epinephrine. Within moments, this* chemical has the entire body on alert, a response sometimes called the "fight-or-<u>flight</u>" response. The heart beats more rapidly and <u>powerfully</u>, the eyes <u>dilate</u> to allow more light in, <u>breathing quickens</u>, and the activity of the digestive system <u>decreases</u> to allow more blood to go to the muscles. The effect* is rapid and intense.

Other chemical communications are less <u>dramatic</u> but equally effective. For example, when the body becomes dehydrated and needs more water, the volume of blood circulating through the cardiovascular system decreases. This decreased blood volume is perceived by receptors in the <u>arteries</u> in the <u>neck</u>. They* respond by sending impulses through nerves to the <u>pituitary gland</u>, at the base of the brain, which* then produces <u>antidiuretic hormone</u>. This hormone signals the

kidneys to produce less <u>urine</u> and <u>retain</u> more water. Simultaneously, the brain senses <u>thirst</u>, stimulating a person to drink.



^{1.} Receptors : Location and innervation of the aortic arch and carotid sinus baroreceptors and the carotid body chemoreceptors. ; **2. Vasopressin (a.k.a. antidiuretic hormone ADH)**¹¹ is secreted from the posterior pituitary gland in response to reductions in plasma volume and in response to increases in the plasma osmolality (osmotic pressure). Secretion in response to reduced plasma volume is activated by pressure receptors (a.k.a. baroreceptors) in the veins, atria, and carotids. Secretion in response to increases in plasma osmotic pressure (the tendency of a solution to take up water due to a high concentration of solutes¹²) is mediated by osmoreceptors in the hypothalamus.

The body also has a group of organs – the <u>endocrine system</u> – whose* primary function is to produce hormones that regulate the function of other organs. For example, the <u>thyroid gland</u> produces <u>thyroid hormone</u>, which controls the <u>metabolic rate</u> (the speed at which the body's chemical functions <u>proceed</u>); the pancreas produces insulin, which controls the <u>use</u> of <u>sugar</u>; and the adrenal glands produce epinephrine, which stimulates many organs to prepare the body for stress. (see Major Organ Systems infra)

¹⁰ NB. N-'S + V-ING is the construction normally used to connect a substantive verb (V-ING) with its logical subject (N-'S).

¹¹ Illustration : http ://www.mie.utoronto.ca/labs/lcdlab/biopic/fig/51.15.jpg

¹² http://everything2.com/index.pl?node_id=848513

*What do the following words refer to ?

- j. "so that it* can slow down ... so that it* can speed $up'' \rightarrow$ "It" refers to ...
- k. "so that they* can excrete more urine ... so that they* can conserve water" \rightarrow "They" refers to ...
- 1. "This* part of the nervous system functions" \rightarrow "This part" refers to ...
- m. "without a person's thinking about $it^{*'} \rightarrow$ "It" refers to ...
- n. "that it* is working" \rightarrow "It" refers to ...
- o. "this* chemical has the entire body on alert" \rightarrow "This chemical" refers to ...
- p. "The effect* is rapid and intense" refers to the effect of ...
- q. "They* respond by sending impulses" \rightarrow "They" refers to ...
- r. "which* then produces antidiuretic hormone" \rightarrow "Which" refers to ...
- s. "whose" primary function is to produce hormones" \rightarrow "Whose" refers to ...

True or False ? (Be ready to explain).

- iii. Vasoconstriction and vasodilation are examples of homeostasis.
- *iv.* Through homeostasis the body maintains heart rate, respiration, temperature and blood pressure at a constant level.
- v. The endocrine system is controlled by the autonomic nervous system.
- vi. The hormones produced by the hypothalamus and pituitary gland stimulate other endocrine glands.

Questions : (1) Ask questions about the following points, then (2) let someone else answer in a complete sentence (3) using as many of the suggested terms as possible.

WHAT (\times 2) -- HOW MANY -- HOW (\times 2)

5. Systems by which the communication necessary for homeostasis is carried out. $\rightarrow \dots$

regulation -- a.k.a.13 -- in large part -- and also

Communication ...

6. *The number of* major categories of chemical transmitters. $\rightarrow \dots$

which -- through -- from -- by which -- produced -- to other -- and -- which -- within -- system

There are ...

7. *The effects of* epinephrine on the body. $\rightarrow \dots$

which -- released by -- as a reaction – causes S+TO+V -- rate and -- and makes S+V -- simultaneously -- decrease in -- so that -- more -- available for

Epinephrine, a.k.a. ...

8. Processes *that* dehydration triggers (initiates) in the body. $\rightarrow \dots$

as a result of -- send -- to -- which -- hormone -- thus signaling -- to -- and -- to sense

When blood volume ...

9. *The importance of* endocrine hormones to the equilibrium of physiological processes. → ...

system -- active in V-ING -- processes -- balance -- For example, -- of glucose -- thereby¹⁴ -- level -- Likewise¹⁵, -- speed -- consumed -- and energy is -- also known as -- by -- hormone

Certain hormones of ...

¹⁴ NB. <u>thereby</u> = By that means; because of that / *de cette manière, ainsi*

¹⁵ NB. <u>likewise</u> = in the same way, similarly ; as well, also / de même, de la même façon

System	Organs in the System		Thyroid gland
Cardiovascular	 Heart Blood vessels (arteries, capillaries, veins) 	Endocrine	 Parathyroid gland Adrenal glands
	• Nose		Pancreas (the part that produces insulin)
	MouthPharynx		KidneysUreters
Respiratory	Larynx	Urinary	Bladder
	• Trachea		• Urethra
	• Bronchi		• Penis
	Lungs Brain		Prostate gland
Nervous	 Brain Spinal cord 	Male reproductive	Seminal vesiclesVasa deferentia
11011040	Nerves		Testes
Skin	• Skin		• Vagina
	Muscles		• Cervix
Musculoskeletal	• Tendons and ligaments	Female reproductive	• Uterus
	BonesJoints		Fallopian tubesOvaries
	Blood cells and platelets		- Ovalies
	Plasma (liquid part of blood)		
Blood	• Bone marrow (where blood cells are produced)		
	• Spleen		
	Thymus Mouth		
	MouthEsophagus		
	Stomach		
Digestive	Small intestine		
Digestive	Large intestine		
	• Liver		
	Gallbladder		
	Pancreas (the part that produces enzymes)		

Barriers on the Outside and the Inside	99. Various simple submicroscopic parasites of plants, animals, and bacteria that often cause disease and that consist essentially of a core of RNA or DNA surrounded by a
VOCABULARY in context. Match the following definitions with words from the	protein coat :
reading passage below, then give an appropriate translation in French.	100. Unicellular, prokaryotic microorganisms of the class Schizomycetes, which vary in
74. In fact; really :	terms of morphology, oxygen and nutritional requirements, and motility, and may be
75. Easily perceived or understood; quite apparent :	free-living, saprophytic, or pathogenic, the latter causing disease :
76. A boundary or limit; obstacle :	101. An infectious disease caused by the tubercle bacillus and characterized by the
77. To stop; to interpose an obstacle :	formation of tubercles on the lungs and other tissues of the body :
78. Injurious, destructive :	102. Except if :
79. Despite the fact that :	103. A protein substance produced in response to a specific antigen, such as a bacterium
80. Relatively small in extent from one surface to the opposite or in diameter:	or a toxin. They destroy or weaken bacteria and neutralize organic poisons, thus
	forming the basis of immunity :
81. Anatomy. The organ of hearing, responsible for maintaining equilibrium as well as	104. To oppose; combat :
sensing sound :	105. Invasion by and multiplication of pathogenic microorganisms in a bodily part or tissue,
82. The narrow, tubelike passage through which sound enters the ear. :	which may produce tissue injury and progress to disease through cellular or toxic
83. To regard, consider, conceive :	mechanisms :
84. Downward below a surface; inward from an outer surface; profound, penetrating :	106. A microscopic hairlike process extending from the surface of a cell or unicellular
	organism. Capable of rhythmical motion, it acts in unison with other such structures to
85. The uppermost or forwardmost part of the body containing the brain and the eyes,	bring about the movement of the cell :
ears, nose, mouth, and jaws :	107. To clear away as if with a broom or brush :
86. To go along (a curving or twisting course) :	108. Carried by or through the air :
87. To go out :	
88. A nutritious ingredient or substance in a food :	As strange as it* may seem, defining what's outside and what's inside the
89. The part of the human face that contains the nostrils and organs of smell and forms	body isn't always easy because the body has many surfaces. The skin, which is
the beginning of the respiratory tract :	actually an organ system, is obviously outside the body. It forms a <u>barrier</u> that
90. 1. The anterior portion of the neck. 2. Anatomy. The portion of the digestive tract that	prevents many harmful substances from entering the body. Although covered* by
lies between the rear of the mouth and the esophagus and includes the fauces and	a thin layer of skin, the ear canal is usually thought of as inside the body because
the pharynx :	it* penetrates <u>deep</u> into the <u>head</u> . The digestive system is a long tube that begins
91. Anatomy. A thin-walled tube of cartilaginous and membranous tissue descending	at the mouth, winds through the body, and exits at the anus. Is food that's
from the larynx to the bronchi and carrying air to the lungs :	partially absorbed as it* passes through this* tube inside or outside of the body?
92. A passage in which air circulates :	Nutrients and fluid aren't really inside the body until they* are absorbed into the
93. Two main branches of the trachea, leading directly to the lungs :	bloodstream.
94. A nonmetallic element constituting 21 percent of the atmosphere by volume that	
occurs as a diatomic gas and in many compounds such as water. It is essential for respiration. Atomic number 8; atomic weight 15.9 :	
95. Beneficial; Having practical utility :	The ear canal, is a tube running
	Pinna from the outer ear to the middle ear.
96. Up to the time that; (Not) before :	Auditory nerve

Ear cana

Ear drum

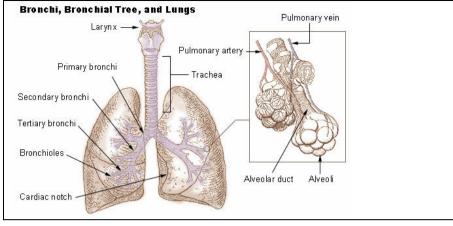
6

Eustachian Tube

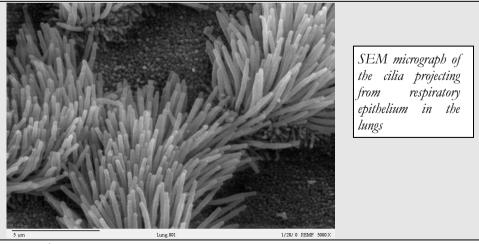
ochlea

- 97. A single thickness covering a surface; a stratum : ______
 98. To form a bordering line; To cover the inner surface : _____

The ear canal extends from the pinna to the eardrum and is about 26 mm in length and 7 mm in diameter.



Air passes through the <u>nose</u> and <u>throat</u> into the <u>windpipe (trachea)</u>, then into the extensive, branching <u>airways</u> of the lungs (<u>bronchi</u>). At what point is this passageway inside the body? <u>Oxygen</u> in the lungs is not <u>useful</u> to the body <u>until</u> it* enters the bloodstream. To enter the bloodstream, oxygen must cross through a thin <u>layer</u> of cells <u>lining</u> the lungs. This layer acts as a barrier to <u>viruses</u> and <u>bacteria</u>, such as those* that cause <u>tuberculosis</u>, which* may be carried into the lungs with air. <u>Unless</u> these* organisms penetrate the cells or enter the bloodstream, they* generally do not cause disease. Because the lungs have many protective mechanisms, such as <u>antibodies</u> to <u>fight infection</u> and <u>cilia</u> to <u>sweep</u> debris out of the airways, most <u>airborne</u> infectious organisms never cause disease.



*What do the following words refer to ?

- t. "As strange as it^* may seem" \rightarrow "It" refers to ...
- u. "Although covered* by a thin layer of skin" \rightarrow covered refers to ...
- v. "because it* penetrates deep into the head" \rightarrow "It" refers to ...
- w. "as it* passes through" \rightarrow "It" refers to ...
- x. "passes through this* tube" \rightarrow "This tube" refers to ...
- y. "until they* are absorbed into the bloodstream" \rightarrow "They" refers to ...
- z. "does this* passageway stop being outside" \rightarrow "This passageway" refers to ...
- aa. "until it* enters the bloodstream" \rightarrow "It" refers to ...
- bb. "such as those" that cause tuberculosis" \rightarrow "Those" refers to ...
- cc. "which* may be carried into the lungs with $air'' \rightarrow$ "Which" refers to ...
- dd. "Unless these* organisms penetrate the cells or enter the bloodstream, they* don't cause disease" \rightarrow "These organisms" and "they" refer to ...

True or False ? (Be ready to explain).

- vii. Nutrients, oxygen and pathogens are only considered to be inside the body once they enter the bloodstream.
- viii. The airways stop stop being outside and become inside the body in the alveoli.
- ix. Infection in the lungs is known as "pneumonia".

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Questions : (1) Ask questions about the following points, then (2) let someone else answer in a complete sentence (3) using as many of the suggested terms as possible.

WHERE -- WHAT -- HOW -- WHAT SORT

11. One area in which skin is considered to be inside the body. $\rightarrow \dots$

typically -- as -- surface -- thin -- which lines -- deep -- and consequently -- usually

Although skin ...

12. The point at which food is actually considered to be inside the body. $\rightarrow \dots$

through -- system -- only partially -- the rest -- eventually -- Thus¹⁶, -- actually -- only when -- into

As food ...

13. Ways in which the lining of the lungs prevents disease. Protective mechanisms that it contains. $\rightarrow \dots$

not only -- barrier to -- but also -- such as -- to fight -- and -- out of -- and thus -- most of -- carried into -- (e.g.¹⁷ -- or --) -- from

The lining ...

14. Make up one original question of your own relating to this section of the article, and write a 2-3 line answer to it using information either from the article or from outside sources.

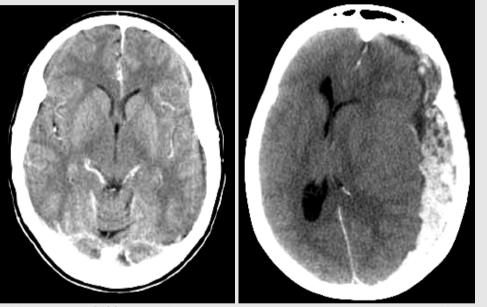
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¹⁶ NB. <u>thus</u> = in this manner ; therefore, consequently / *ainsi*

 $^{^{17}}$ NB. <u>e.g.</u> = (latin) exempli gratia, for example

VOCABULARY in context. Match the following definitions with words from the	Bod
reading passage below, then give an appropriate translation in French.	structu
109. To maintain; preserve :	proper
110. Correct; appropriate :	normal
111. To be suspended in or move through space as if supported by a liquid :	parts o
	tissues
112. An accumulation of liquid :	into the
113. Under normal circumstances; ordinarily, usually :	<u>skull</u> . (
114. To restrict :	does n
115. To escape or pass through an opening or a rupture :	
116. Excessive discharge of blood from the blood vessels; profuse bleeding :	
117. To be deficient; perform ineffectively; To be unsuccessful :	
118. Hurt; injury; damage :	
119. Enough (adequate) space :	
120. The bony or cartilaginous framework of the head, made up of the bones of the	
braincase and face; cranium :	
121. Quantity :	
122.1 a : the part of the body between the thorax and the pelvis with the exception of the	
back — called also belly b : the cavity of this part of the trunk lined by the peritoneum,	12
	623
enclosed by the body walls, the diaphragm, and the pelvic floor, and containing the	153
visceral organs (as the stomach, intestines, and liver) c: the portion of this cavity	
between the diaphragm and the brim of the pelvis — compare PELVIC CAVITY :	
123. The watery mixture of secretions from the salivary and oral mucous glands that	
lubricates chewed food, moistens the oral walls, and contains ptyalin :	
124. To draw into the lungs; breathe in, take in :	
125. A clear, colorless, poisonous, highly acidic aqueous solution of hydrogen chloride,	
HCI. It is found in the stomach in dilute form :	
126. To damage by fire, heat, radiation, electricity, or a caustic agent :	1. Norn
127. The muscular, membranous tube for the passage of food from the pharynx to the	is seen as
stomach :	
128. To move in the manner characteristic of a fluid; To circulate :	Sali
129. In reverse :	
130. Waste matter eliminated from the bowels; excrement :	the lun
	the lur
131. Potentially mortal; extremely dangerous :	there*.
132. Constituting the intestine; inside the intestine :	bookuu
133 The covity within the obdomen that contains the stomach intestines liver nancreas	backwa
133. The cavity within the abdomen that contains the stomach, intestines, liver, pancreas,	Stool (
gallbladder, spleen, and kidneys, and the lower part of the esophagus:	

Body surfaces not only separate the outside from the inside, but also <u>keep</u> structures and substances in their* <u>proper</u> place so that they* can function properly. For example, internal organs do not <u>float</u> in a <u>pool</u> of blood; blood is <u>normally confined to</u> blood vessels. If blood <u>leaks</u> out of the vessels into other parts of the body (<u>hemorrhage</u>), it* not only <u>fails to</u> bring oxygen and nutrients to issues but also can cause severe <u>harm</u>. For example, a very small hemorrhage not the brain destroys brain tissue because there is no <u>room for</u> expansion in the <u>skull</u>. On the other hand, a similar <u>amount</u> of blood leaking into the <u>abdomen</u> does not destroy tissue because the abdomen has room for expansion.



1. Normal head CAT scan. 2. Recent bleeding (subdural hematoma) in an injured patient is seen as a bright mass that is pushing the brain to the other side.¹⁸

<u>Saliva</u>, so important in the mouth, can cause severe damage if* <u>inhaled</u> into the lungs, because saliva carries bacteria that can cause an abscess to form in the lung. The <u>hydrochloric acid</u> produced by the <u>stomach</u> rarely causes harm there*. However, the acid can <u>burn</u> and damage the <u>esophagus</u> if it* <u>flows</u> <u>backward</u> and can damage other organs if it* leaks through the stomach wall. Stool (a.k.a. <u>feces</u>), the undigested part of food expelled through the anus, can

¹⁸ http://www.radiologyinfo.org/en/photocat/photos_more_pc.cfm?pg=headct&bhjs=0

cause <u>life-threatening</u> infections if it* leaks through a hole the <u>intestinal</u> wall into the <u>abdominal cavity</u>.

*What do the following words refer to ?

- ee. "in their* proper place so that they* can function properly" \rightarrow "Their" and "they" refer to ...
- ff. "it* not only fails to bring oxygen" \rightarrow "It" refers to ...
- gg. "can cause severe damage if* inhaled into the lungs" means that severe damage can occur if ...
- hh. "rarely causes harm there*" \rightarrow "There" refers to ...
- ii. "burn and damage the esophagus if it* flows backward... if it* leaks through the stomach wall" \rightarrow "It" refers to ...
- ij. "if it* leaks through the intestinal wall into the abdominal cavity" \rightarrow "It" refers to ...

True or False ? (Be ready to explain).

- x. A hemorrhage in the abdomen is less dangerous than a hemorrhage in the brain.
- xi. A "hematoma" is the result of blood leaking out of vessels into other parts of the body.
- xii. The medical term for the escape of acid from the stomach back into the esophagus is reflux or gastroesophageal reflux disease (GERD).

Questions : (1) Ask questions about the following points, then (2) let someone else answer in a complete sentence (3) using as many of the suggested terms as possible.

HOW -- WHAT + HAPPEN

15. The relative danger of a minor hemorrhage in the abdomen or in the brain. $\rightarrow \dots$

not -- pressure -- tissue in -- which -- compensate by V-ING -- the same -- severely -- for lack of

Whereas¹⁹ a small ...

16. *The potential risk* when usually harmless bodily substances accidentally come into contact with nearby organs. → ...

severe -- or -- threatening -- if -- accidentally -- for example -- inhaled -- when -- through -- or -- up into -- or if -- from -- into

Usually harmless ...

¹⁹ NB. <u>whereas</u> = while on the contrary / *tandis que* + prop (**ne pas confondre** avec "unlike" = contrairement \dot{a} + nom) Page 12 / 17

Anatomy	and	Disease
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	body – Part 2		
Anatomy and Disease	157. Medicine. The act or process of identifying or determining the nature and cause of a disease or injury through evaluation of patient history, examination, and review of		
VOCABULARY in context. Match the following definitions with words from the	laboratory data. The opinion derived from such an evaluation :		
reading passage below, then give an appropriate translation in French.	158. A major achievement or success that permits further progress, as in technology :		
134. To plan out in systematic form; To create for a particular purpose :			
135. A large amount (quantity) or degree :	159. A relatively high-energy photon with wavelength in the approximate range from 0.01		
136. More than usual, more than necessary :	to 10 nanometers. A stream of such photons, used for their penetrating power in		
137. Satisfactory or sufficient :	radiography, radiology, radiotherapy, and scientific research :		
138. Two out of three equal parts (67%) :	160. To make able (capable); supply with the means, knowledge, or opportunity :		
139. To continue to live; To remain alive or in existence after an event :			
140. Complete :	161. Techniques for making detailed x-rays of a predetermined plane section of a solid		
141. Resulting from operations or procedures involving the removal or replacement of a	object :		
diseased organ or tissue :	162. To connect :		
142. On the condition that, provided that :	163. An image produced by a device that produces cross-sectional views of an internal		
143. A sudden severe attack, as of paralysis; A sudden loss of brain function caused by a	body structure using computerized axial tomography :		
blockage or rupture of a blood vessel to the brain, characterized by loss of muscular	164. Medicine. The use of ultrasonic waves for diagnostic or therapeutic purposes,		
control, diminution or loss of sensation or consciousness, dizziness, slurred speech,	specifically to visualize an internal body structure, monitor a developing fetus, or		
or other symptoms that vary with the extent and severity of the damage to the brain.	generate localized deep heat to the tissues :		
Also called cerebral accident, cerebrovascular accident :	165. A moving curve; an undulation; Physics. A disturbance traveling through a medium by		
144. Incapable; incompetent :	which energy is transferred from one particle of the medium to another without		
145. One of the jointed appendages such as an arm or a leg used for locomotion or	causing any permanent displacement of the medium :		
grasping :	166. An audible or inaudible longitudinal pressure variation :		
146. Acute myocardial infarction typically resulting from an occlusion or obstruction of a	167. The use of a nuclear magnetic resonance spectrometer to produce electronic images		
coronary artery and characterized by sudden, severe pain in the chest that often	of specific atoms and molecular structures in solids, especially human cells, tissues,		
radiates to the shoulder, arm, or jaw :	and organs :		
147. A transformation; modification :	168. A unit of matter, the smallest unit of an element, having all the characteristics of that		
148. An amount or quantity available (ready, accessible) for use; provision :	element and consisting of a dense, central, positively charged nucleus surrounded by a system of electrons :		
149. Pathology. Necrosis as a result of obstruction of local blood supply, as by a thrombus	169. A condition found in the region around a magnet or an electric current, characterized		
or an embolus :	by the existence of a detectable magnetic force at every point in the region and by the		
150. Irregular; strange :	existence of magnetic poles :		
151. Any of the valves regulating the flow of blood through and from the heart, consisting	170. An isotope of artificial or natural origin that exhibits radioactivity. They serve as		
of the aortic valve, the left and right atrioventricular valves, and the pulmonary valve. :	agents in nuclear medicine and genetic engineering, and play a role in computer imaging for diagnosis and experiment []:		
152. Pathology. An abnormal mass of tissue, such as a tumor, growing in or on a living	171. Process whereby a radionuclide is injected or measured (through tissue) from an		
organism :	external source, and a display is obtained from any one of several rectilinear scanner		
153. Malignant neoplasms characterized by the proliferation of anaplastic cells that tend to	or gamma camera systems. The image obtained from a moving detector is called a		
invade surrounding tissue and metastasize to new body sites :	scan, while the image obtained from a stationary camera device is called a		
154. Force applied over a surface :	scintiphotograph. :		
155. At the end of a process; At last; in the end; eventually :	172. Not penetrating the body, as by incision or injection :		
156. A chief (principal) support :	173. A manner or method :		

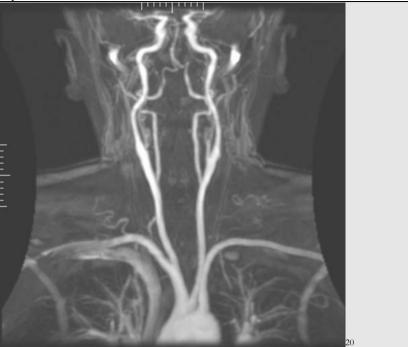
174. Relating to a medical procedure in which a part of the body is entered, as by puncture or incision : ______

The human body is remarkably well <u>designed</u>. Most of its* organs have <u>a</u> <u>great deal</u> of <u>extra</u> capacity or reserve : They* can still function <u>adequately</u> even though damaged*. For example, more than <u>two thirds</u> of the liver must be destroyed before serious consequences occur, and a person can usually <u>survive</u> after an <u>entire</u> lung is <u>surgically</u> removed <u>as long as</u> the other lung is functioning normally. Other organs can tolerate little damage before they* malfunction and symptoms occur. For example, if a an artery in the brain becomes blocked or ruptures (<u>stroke</u>), and even a small amount of tissue in a vital part of the brain is destroyed, a person may be <u>unable to</u> speak, move a <u>limb</u>, or maintain balance. If a <u>heart attack</u> destroys a small amount of tissue in the part of the heart that creates or carries the signals to beat, the heart rate may become dangerously slow and the person may even die.

Disease often affects anatomy, and <u>changes</u> in anatomy can cause disease. If the blood <u>supply</u> to a tissue is blocked or cut off, the tissue dies (<u>infarction</u>), as in a heart attack (myocardial infarction) or stroke (cerebral infarction). An <u>abnormal</u> <u>heart valve</u> can cause heart malfunction. Trauma to the skin may damage its ability to act as a barrier, which may lead to infection. Abnormal <u>growths</u>, such as <u>cancer</u>, can directly destroy normal tissue or produce <u>pressure</u> that <u>ultimately</u> destroys it*.

Because of the relationship between disease and anatomy, methods of seeing into the body have become a <u>mainstay</u> in the <u>diagnosis</u> and treatment of disease. The first <u>breakthrough</u> came with <u>x-rays</u>, which <u>enabled</u> doctors to see into the body and examine organs without surgery. Another major advance was computed <u>tomography</u> (CT), in which* x-rays are <u>linked with</u> computers. A <u>CT</u> <u>scan</u> produces detailed, cross-sectional (two-dimensional) images of the body's interior.

Other methods of producing images of internal structures include <u>ultrasound</u> scanning, which uses <u>sound</u> <u>waves</u>; <u>magnetic resonance imaging (MRI)</u>, which uses the movement of <u>atoms</u> in a <u>magnetic field</u>; and <u>radionuclide imaging</u>, which uses radioactive chemicals injected into the body. These* are <u>noninvasive</u> <u>ways</u> to see into the body, in contrast to surgery, which is an <u>invasive</u> procedure.



Magnetic resonance angiography (MRA) is used to generate pictures of the arteries in order to evaluate them for stenosis (abnormal narrowing) or aneurysms (vessel wall dilatations, at risk of rupture). MRA is often used to evaluate the arteries of the neck and brain, the thoracic and abdominal aorta, the renal arteries, and the legs.

*What do the following words refer to ?

- kk. "Most of its* organs have a great deal of extra capacity" \rightarrow "Its" refers to ...
- ll. "They* can still function adequately" \rightarrow "They" refers to ...
- mm."even though damaged*" means even if ...
- nn. "before they* malfunction" \rightarrow "They" refers to ...
- oo. "or it* may result in death" \rightarrow "It" refers to ...
- pp. "that ultimately destroys $it^{*"} \rightarrow$ "It" refers to ...
- qq. "in which* x-rays are linked with computers" \rightarrow "Which" refers to ...
- rr. "These* are noninvasive ways to see into the body" \rightarrow "These" refers to ...

²⁰ http://en.wikipedia.org/wiki/Image:Mra1.jpg

True or False ? (Be ready to explain).

- xiii. Common causes for pneumonectomy (removal of a whole lung) include lung cancer, transplantation and tuberculosis.
- xiv. Some lung transplants come from living donors.
- xv. "Benign" tumors are not dangerous, unlike "malignant" tumors.
- xvi. Other modern, non-invasive techniques of medical imaging include PET (positron emission tomography), ultrasound, and endoscopy.

Questions : (1) Ask questions about the following points, then (2) let someone else answer in a complete sentence (3) using as many of the suggested terms as possible.

WHY -- HOW MUCH -- CAN -- HOW (×2) -- WHAT SORTS/KINDS (×2)

The reason certain organs can sustain substantial damage without endangering a person's life. The quantity of healthy tissue that can maintain adequate liver function. The possibility of remaining alive with just one lung. → ...

can -- because -- a great deal -- functional -- Indeed²¹, -- adequately -- even -- less -- intact --Likewise, -- healthy -- enable -- to -- despite -- of the other

Organs like ...

19. The potential seriousness of infarctions in sensitive organs (e.g. the brain or heart). Losses or impairments that such infarctions may cause. $\rightarrow \dots$

(a.k.a. -- attack) -- or -- (a.k.a. --) -- especially -- given that -- even -- slight -- causing -- of speech -- motor -- output -- and even

Infarctions that occur ...

20. The relationship between disease and anatomy. $\rightarrow \dots$

sign of -- such as -- but -- also -- either by -- or by -- and -- supply -- thus causing

Anatomical changes, e.g. ...

21. Tools that have become essential to the diagnosis and treatment disease. $\rightarrow \dots$

many other -- i.e. nonsurgical -- of seeing -- such as -- (another -- technology) -- (which exploits --) -- (which involves -- chemicals --) -- become -- diseases affecting

Since the discovery of ...

²¹ NB. <u>indeed</u> = used in order to introduce an example, explanation or justification / *en effet* Page 15 / 17

- a great deal / une bonne quantité, beaucoup
- abdomen / 1. l'abdomen OU 2. la cavité paupière = eyelash)) abdomino-pelvienne
- abdominal cavity / la cavité abdominale (ou decrease / diminuer, baisser, (se) réduire abdomino-pelvienne)
- abnormal / anormal
- according to / selon, en fonction de
- actually / en fait, en réalité
- adequate(ly) / suffisant (suffisamment), acceptable(ment), (de manière) satisfaisant(e)
- adrenal glands / les surrénales
- airborne / aérotransporté
- airway / une voie respiratoire
- although / bien que
- amount / une quantité
- antibody / un anticorps
- antidiuretic (hormone) / antidiurétique
- anus / l'anus
- artery / une artère
- as long as / tant que, à condition que
- atom / un atome
- autonomic nervous system / le système nerveux epinephrine (adrenaline) / l'adrénaline neurovégétatif
- backward(s) / en arrière
- bacterium (pl. bacteria) / une bactérie
- balance / l'équilibre
- barrier / une barrière
- blood vessel / un vaisseau sanguin
- bloodstream / le système sanguin, le sang
- bodily / corporel
- bone / l'os
- breakthrough / une percée, une découverte float / flotter capitale
- breathing / la respiration., le souffle
- bronchus (pl. bronchi) / la bronche
- burn / brûler
- cancer / le cancer
- CAT scan (Also called CT scan) / le harm / du mal, du tort scanner, la tomodensitométrie (TDM)
- change / un changement
- chemical / une substance chimique

- confine (to) / limiter, enfermer, confiner

 - deep / profond
 - dehydrated / déshydraté
 - design / concevoir
 - diagnosis / un diagnostic (NB. pl. = increase / augmenter
 - diagnosES; ne pas confondre avec le verbe "to • infarction / un infarctus diagnoSE")
 - digest / digérer
 - dilate / (se) dilater
- disease / une maladie, une pathologie
 - dramatic / spectaculaire, remarquable
- ear / l'oreille
 - ear canal / le conduit auditif (externe)
 - enable / permettre à qqn. de, rendre qqn. capable de
 - endocrine system / le système endocrinien
 - enlist / mobiliser, faire appel à
 - entire / entier

 - esophagus / l'æsophage (m.)
 - excrete / excréter
 - exit / sortir
 - extend (from ... to) / s'étendre de... à
 - extra / supplémentaire, en plus
 - fail to / échouer, manquer, ne pas réussir
 - feces / le fecès
 - fight / combattre
 - flight / la fuite (aussi : le vol en avion etc.)

 - flow / couler, circuler
 - frightened / effrayé
 - fullness / la satiété
 - growth / une excroissance, une grosseur (aussi neck / le cou : la croissance)

 - harmful / nuisible, nocif
 - head / la tête

• heart valve / une valve cardiaque

• hydrochloric acid / l'acide chlorhydrique

• hemorrhage / une hémorragie

• homeostasis / l'homéostasie

• hunger / la faim

• infection / l'infection

• intestinal / intestinal

• joint / une articulation

• keep / garder, maintenir

• ligament / un ligament

• line / recouvrir (l'intérieur)

• limb / un membre

• link with / relier à

• maintain / maintenir

métabolisme (de base)

• meal / un repas

• muscle / le muscle

• need / un besoin

• network / un réseau

neuromédiateur

un pilier

• large intestine / le gros intestin

• layer / une couche, une épaisseur

• life-threatening / qui peut être mortel

• magnetic field / un champ magnétique

(imagerie par résonance magnétique)

• neither ... nor / ni (l'un) ni (l'autre)

• leak / fuir, s'échapper (liquide), (aussi : une

• invasive / invasif

• kidney / le rein

fuite)

• inhale / inhaler, inspirer

- cilium(pl. cilia) / un cil (NB le cil de la beart attack / une crise cardiaque, un noninvasive / non invasif infarctus du myocarde
 - normally / habituellement, d'ordinaire
 - nose / le nez
 - noticeable / sensible, visible
 - nutrient / un nutriment
 - obvious / évident
 - occur / se produire, avoir lieu
 - of course / bien sûr
 - overproduce / surproduire
 - oxygen / l'oxygène (m.)
 - pituitary gland / l'hypophyse (f.), la glande thirst / la soif • throat / la gorge pituitaire

• sugar / le sucre, les glucides

une alimentation (en...)

chirurgicale

• survive / survivre

• sweep / balayer

• thin / mince, fin

• tendon / un tendon

• think of (as) / considérer comme

• thyroid gland / la thyroïde

• tomography / la tomographie

• tuberculosis / la tuberculose

• unable to+V / incapable de

• use / l'usage, la consommation

• virus (pl. viruses) / un virus

• widen / élargir, agrandir

• wind (through) / onduler

• windpipe (trachea) / la trachée

• waste / des déchets, des excréments

• way (to+V / of+V-ING) / une manière de,

16

• travel / se déplacer

dernière analyse

ultrason

avant

• urine / les urines

• useful / utile

• wave / une onde

un moyen de

• without / sans

• supply / une provision, un approvisionnement,

• surgical(ly) / chirurgical, par intervention

• thyroid hormone / une hormone thyroidienne

• ultimately / finalement, en fin de compte, en

• ultrasound (scan) / une échographie, un

- pool / un étang, une mare
- powerful(ly) / puissant (puissamment), fort
- pressure / la pression
- prevent (from V-ING) / empêcher (de), (aussi : prévenir)
- proceed / se passer, se dérouler, avancer two thirds / les deux tiers
- (procéder)
- produce / produire • proper / juste, correct
- quicken / accélérer, hâter
- radionuclide / un radionucléide
- radionuclide imaging / °la scintigraphie, underproduce / produire insuffisamment °l'exploration radio isotopique, (°techniques • unless / à moins que de l'imagerie nucléaire) • until / 1. jusque, jusqu'à ce que 2. (pas)
- magnetic resonance imaging (MRI) / l'IRM regulate / régler, réguler
 - release / (re)lâcher, libérer
- mainstay / un soutien, un support, une base, rest / le repos
 - retain / retenir
 - room for / (assez d') espace pour

• small intestine / l'intestin grêle

• sound wave / une onde sonore

(vasculaire cérébral), un AVC

• store / stocker, conserver, garder en réserve

- saliva / la salive
- metabolic rate / le rythme métabolique, le • skull / le crâne

• slow (down) / ralentir

• speed (up) / accélérer

• stimulate / stimuler

• neurotransmitter | un neurotransmetteur, un • stroke | un accident cérébrovasculaire • x-ray | un rayon X

nucleolus

nucleus

nutrient

organelle

oxygen

pancreas

perform

pupil

rate

receptor

refer to (as)

small intestine

sound wave

spinal cord

spleen

stomach

tendons

thyroid gland

tomography

tuberculosis

ultrasound

ureter

thyroid hormone

trachea (windpipe)

throat

tissue

ribosome

saliva

skin

skull

sample

rectum

pituitary gland

radionuclide

radionuclide imaging

organ

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urethra

urine

valve

wall

waste

wave

x-rays

vena cava (pl. venae cavae)

17

virus (pl. viruses)

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Medical Vocabulary : The Human Body parts 1 & 2 (liste récapitulative du vocabulaire à réviser pour l'examen) Dorenavant le vocabulaire à réviser sera donné en italique et numéroté en gras.

- abdomen ٠
- abdominal cavity ٠
- abnormal ٠
- adrenal glands ٠
- airways ٠
- amount ٠
- antibody ٠
- antidiuretic hormone ٠
- anus
- ٠ aorta
- appendix (vermiform appendix)
- artery
- atom ٠
- autonomic nervous system
- bacterium (pl. bacteria) ٠
- bile ٠
- biopsy ٠
- bladder (urinary) ٠
- blood
- blood vessel ٠
- bloodstream
- bodily
- bone
- brain
- breast ٠
- breathing ٠
- bronchus (pl. bronchi) ٠
- ٠ cancer
- CAT scan (Also called CT scan)
- cell division ٠
- cell membrane ٠
- central nervous system ٠
- centriole ٠
- chemical

Page 17 / 17

- chromosome ٠
- cilium (pl. cilia)

- compartment ٠ connective tissue
- cornea ٠
- cvtoplasm ٠
- ٠ decrease
- dehvdrated ٠
- diagnosis ٠
- diaphragm ٠
- digest ٠
- disease ٠
- ۲ drug
- ear canal ٠
- ٠ egg (cell)
- endocrine system ٠
- endoplasmic reticulum ٠
- enzyme ٠
- epinephrine (adrenaline) ٠
- epithelium ٠
- esophagus ٠
- excrete ٠
- ٠ eve
- feces ٠
- gallbladder ٠
- glandular ٠
- Golgi apparatus ٠
- ٠ gross anatomy growth
- ٠
- head ٠
- ٠ heart ٠
- heart attack
- ٠ heartbeat
- hemorrhage ٠
- homeostasis ٠
- hormone ٠
- hydrochloric acid ٠
- impulse ٠

- impair ٠ ٠ infarction
- infection ٠
- inhale ٠
- insulin ٠
- intestinal ٠
- invasive ٠
- joints ٠
- kidney ٠
- large intestine ٠
- layer ٠
- lens ٠
- life-threatening ٠
- ligament ٠
- limb ٠
- lining ٠
- liver ٠
- ٠ lung
 - lysosome ٠
 - magnetic field ٠
 - magnetic resonance imaging ♦ ٠ (MRI)
 - metabolism (metabolic rate) ٠

neuron (also called nerve cell)

- microscope ٠
- mitochondrion ٠
- mouth 4

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4

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- mucus ٠
- muscle ٠
- muscle fiber ٠ neck

nerve

nose

network

neurotransmitter

noninvasive