Glossary

Abduction Movement of a body part away from the midline of the body

Abscess A pus-filled cavity within tissue

Accommodation Focussing adjustment of the eyes to view close objects

Acid Substance that releases hydrogen ions in solution

Acidosis Situation when blood pH falls below the normal pH range

Action potential The electrical current (impulse) conducted along a nerve cell (neurone)

Active transport Movement of substances across a cell membrane, up the concentration gradient, and requiring energy

Acute Of sudden onset

Adaptation Lessening of response by sensory receptors to prolonged stimulation

Adduction Movement of a body part towards the midline of the body

Adenosine triphosphate (ATP) Molecular store of chemical energy for chemical reactions

Adhesions Fusion of two separate tissue layers with fibrous tissue, usually following inflammation

Adipose tissue Fat tissue

Aerobic Requiring oxygen

Aetiology Cause of a disease

Afferent Carrying or travelling towards an organ

Afterload The resistance to blood flow from the heart, determined mainly by the diameter of the arteries

Agranulocyte White blood cell with no granules in its cytoplasm (i.e. lymphocytes and monocytes)

Alkali Substances that accepts hydrogen ions in water or solution

Alkalosis Situation when blood pH rises above the normal pH range

Allele The form of a gene carried on a chromosome

Allergy Targeting and destruction of harmless antigens by the immune system, often with detrimental effects on normal body tissues

Alveolar ventilation The amount of air reaching the alveoli with each breath

Alveolus (pl. alveoli) An air sac in the lungs; also the milk secreting sacs in the mammary glands

Amino acid The building blocks of protein

Anabolism Synthesis of larger molecules from smaller ones

Anaerobic Not requiring oxygen

Anaphase Third phase of mitosis

Anaphylaxis The severest form of allergy, with multiple, potentially fatal, systemic effects

Anastomosis The joining of two tubes, e.g. (i) in blood vessels where there are no capillary beds, (ii) following surgery

Anatomical position Used to maintain consistency of anatomical descriptions – the body is upright, with the head facing forward, the arms at the sides with the palms of the hands facing forward, and the feet together

Aneurysm A weakness in the wall of an artery

Anion A negatively charged ion

Anterior (ventral) Describes a body part nearer the front

Antibody Defensive protein synthesised by B-lymphocytes in response to the presence of antigen

Antigen A protein that stimulates the body's immunological defences

Antimicrobial A substance or mechanism that kills or inhibits growth of micro-organisms

Appendicular skeleton (cf. axial skeleton) The shoulder girdle, upper limbs, pelvic girdle and lower limbs

Arrhythmia An abnormal heart rhythm

Arteriole A small artery

Artery A blood vessel that carries blood away from the heart

Articulation A joint

Atrophy Decrease in cell size resulting in shrinking of an organ or body part

Auditory Related to hearing

Autoimmunity Targeting and sometimes destruction of one's own or 'self' tissues by the immune system

Autoregulation The ability of a tissue to independently control its own blood supply

Autorhythmicity The ability of a tissue to generate its own electrical signals

Autosome Any one of the chromosomes in pairs 1–22 (i.e. all but the sex chromosomes)

Axial skeleton (cf. appendicular skeleton) The skull, vertebral column, sternum (breastbone) and ribs

Bacterium (pl. bacteria) Single-celled micro-organism, common in the external environment, some of which can cause disease

Baroreceptor Sensory receptor sensitive to pressure (stretch)

Basal metabolic rate The energy use of the body when at rest in a warm environment, without having eaten for 12 hours

Benign Non-cancerous or a non-serious condition for which treatment may be required

Blastocyst The hollow ball of cells that, during fetal development, embeds in the uterine wall

Blood–brain barrier The collective term given to the physiological adaptations in the central nervous system that prevents many blood-borne substances from accessing it

Bradycardia Abnormally slow heart rate

Bronchodilation Widening of the larger airways and bronchioles

Buffer A substance that resists a shift in pH of body fluids

Capacitance vessel A vessel that can expand to contain large quantities of blood at low pressure (veins)

Capillary A tiny blood vessel between an arteriole and a venule, which has leaky walls to allow exchange of substances between the blood and tissues

Carbohydrate Group of organic compounds including the sugars and starches

Carcinogen A cancer-causing substance

Carcinoma A tumour arising from epithelial tissue **Cardiac** Of the heart

Cardiac output (CO) The amount of blood ejected by one ventricle every minute: CO = heart rate (HR) × stroke volume (SV)

Catabolism Breaking down of larger molecules into smaller ones

Catalyst A substance that speeds up a biochemical reaction without taking part in it

Cation A positively charged ion

Cerebrospinal fluid (CSF) The fluid bathing the brain and spinal cord

Chemoreceptor A sensory receptor sensitive to chemicals in solution

Chemotaxis The movement of a cell towards a chemical attractant

Chondrocyte Mature cartilage cell

Chromatin The uncoiled state of chromosomes during interphase

Chromosome Sausage-shaped structure consisting of a tightly coiled molecule of DNA visible at the end of interphase

Chronic Long-standing or recurring

Cilia (sing. cilium) Microscopic cell extensions for moving materials through the lumen of a tube

Circadian rhythm The regular, predictable fluctuation of a physiological function over a 24-hour period

Circumduction Movement of a body part to describe a cone shape

Citric acid cycle Important sequence of aerobic metabolic reactions in cellular energy production

Coagulation Blood clotting

Co-dominance The situation when more than one form of a gene is dominant

Coitus The act of sexual intercourse

Commensal A harmless micro-organism that lives in the body or on its surfaces, which may bring advantages to its host, e.g. by producing vitamins, or by preventing the growth of pathogens

Communicable (disease) Transferable from one person to another

Compliance The stretchability of a tissue

Compound A molecule containing more than one element

Concentration gradient Where two areas of, e.g., liquid have different concentrations of a solute

Congenital Inherited

Constriction Narrowing of a tube or vessel due to contraction of circular muscle in its wall

Convergence The turning of the eyes inward to focus on a close object

Cortex The outer layer of a gland or structure

Costal Related to the ribs

Cytoplasm The contents of a cell except the nucleus (i.e. cytosol + organelles)

Deamination Removal of the amine group from an amino acid

Deep A body structure or part that is not close to the body surface

Defaecation Expulsion of faeces from the rectum

Deglutition Swallowing

Dehydration Excessive loss of body water

Deoxyribonucleic acid (DNA) The molecule in which the genetic code is written, and packaged into chromosomes in the nucleus

Diapedesis Movement of an independently motile cell from one place to another

Diaphysis The shaft of a long bone

Diastole Resting period of the heart or its individual chambers

Diastolic blood pressure The pressure recorded in the systemic circulation (often at the arm) when the pressure is at its lowest, corresponding to relaxation of the myocardium; the lower of the two measurements used to denote a blood pressure recording

Differentiation The process of cell specialisation **Diffusion** Movement of substances down a concentration gradient, which does not require energy or presence of a membrane

Dilation Widening of a tube or vessel due to relaxation of circular muscle in its wall

Diploid A cell with 46 chromosomes, the whole complement of 23 pairs

Distal Further from the origin of a body part or point of attachment of a limb

Diuresis The passing of urine

Dominant In genetics, the preferential expression of one form of a gene over another

Efferent Carrying or travelling away from an organ

Elasticity The ability of a tissue to stretch and recoil to its original length or shape

Electrolyte An inorganic ion in body fluids, which conducts electricity

Element A chemical whose atoms are all of the same type

Embolus A blood clot or other substance that travels in a blood vessel and may lodge blocking a smaller vessel

Embryo In humans, the first eight weeks of development after fertilisation following which it is referred to as the fetus

Endocrine gland A ductless gland that secretes a hormone which travels to its target organ in the bloodstream

Endogenous Internal, produced by the body **Endothelium** Epithelium lining blood vessels

Enzyme A protein substance that speeds up (catalyses) chemical reactions

Epidermis The outermost layer of the skin

Epinephrine Another term for adrenaline

Epiphysis Each end of a long bone

Epithelium Tissue that lines and covers most body organs

Equilibrium The state of physiological balance or equivalence

Erythropoiesis Production of red blood cells

Essential nutrient A nutrient that must be eaten in the diet

Eversion Turning the soles of the feet outwardsExocrine gland Gland that secretes its product into ducts for transport

Exocytosis Process by which particulate waste is expelled from a cell

Exogenous External; not produced by the body

Expiration (cf. inspiration) The physical process of breathing out

Extension An increase in the angle between two bones, straightening a limb

External respiration Exchange of gases in the lungs

Extracellular Outside a cell

Extrinsic pathway Clotting process triggered by damaged extravascular tissues

Facilitated diffusion A form of diffusion that requires carrier proteins for transfer of substances across cell membranes

Faeces Waste product of digestion excreted through the anus

Fascia Fibrous membrane that supports, covers and separates muscles

Fertilisation The penetration of an ovum by a spermatozoon to form a zygote that can grow into a fetus

Fibre Muscle cell; in nutrition, the indigestible part of the diet also known as non-starch polysaccharide

Fibrinolysis The breakdown of a blood clot

Fibroblast Connective tissue cell that produces collagen fibres

Filtration The movement of small molecules, by hydrostatic pressure, through a selectively permeable membrane

Fistula An abnormal passageway between two organs or an organ and the body surface

Flagella (sing. flagellum) Long cell extensions used for cellular propulsion

Flexion The reducing of the angle between two bones; straightening a limb

Follicle A small secretory gland

Gamete An ovum or spermatozoon (reproductive cell)

Gastric Of the stomach

Gene An area on a chromosome that codes for one particular protein

Genome All the genes in a cell

Genotype The genetic make-up of an individual

Gestation Pregnancy

Glia Nervous tissue that supports neurones

Globulin One class of plasma protein, including antibodies

Glucocorticoids Group of steroid (fat-based) adrenal cortex hormones essential for life

Gluconeogenesis The production of glucose from non-carbohydrate molecules

Glucose Simple sugar used by cells for energy

Glycogen Storage, very high molecular weight form of glucose

Glycolysis The anaerobic breakdown of glucose to release some of its stored energy

Granulation tissue Newly formed repair tissue following tissue damage

Granulocyte General term for a white blood cell without cytoplasmic granules

Granulopoiesis The production of white blood cells **Gustation** Taste

Haematemesis Vomiting of blood

Haemolysis The breakdown of red blood cells

Haemopoiesis The production of blood cells

Haemorrhage Profuse blood loss

Haemostasis The cessation of blood flow

Haploid A cell with 23 chromosomes (half the total chromosome complement)

Hepatic Of the liver

Heterozygous Genetically, a form of a gene on one chromosome that is different to the form of the same gene on the other chromosome of the pair

High-density lipoprotein A lipid/protein complex in the bloodstream important in transporting cholesterol to the liver for disposal

Hilum Indented area of an organ where blood vessels, nerves and ducts enter and leave

Homeostasis Maintenance of a stable internal environment

Homozygous Genetically, a form of a gene on one chromosome that is the same as the form of the same gene on the other chromosome of the pair

Hormone A substance secreted by an endocrine gland that is transported in the blood and acts on specific target cells elsewhere in the body

Hydrophilic Water loving

Hydrophobic Water hating

Hydrostatic pressure The pressure exerted by a fluid on the walls of its container, e.g. of blood on the walls of blood vessels

Hypersecretion Abnormally high secretion of a body product, e.g. a hormone

Hypersensitivity An abnormal immune response directed either against a harmless antigen (allergy) or a 'self' antigen (autoimmunity)

Hypertension Abnormally high blood pressure

Hypertonic A solution with a solute concentration higher than body fluids

Hypertrophy An increase in cell size resulting in enlargement of an organ or body part

Hyperventilation Abnormally high respiratory effort, associated with loss of excessive amounts of carbon dioxide

Hyposecretion Abnormally low secretion of a body product, e.g. a hormone

Hypotension Abnormally low blood pressure

Hypothermia An abnormally low body temperature (core temperature <35°C)

Hypotonic A solution with a solute concentration lower than body fluids

Hypoventilation An abnormally low respiratory effort, associated with retention of carbon dioxide

Hypoxia Inadequate levels of oxygen in the tissues **latrogenic** A condition resulting from a healthcare

Idiopathic A condition of unknown cause

intervention

Immunity Body defence mechanisms against a specific disease

Incontinence Inability to control the voiding of urineInfarction Death of a region of tissue due to interruption of its blood supply

Infection The invasion of body tissues by pathogenic organisms

Inferior Structure further from the head

Inflammation Non-specific tissue response to damage **Ingestion** Taking in of substances orally, i.e. through the mouth

Insensible water loss Loss of water through the skin and respiratory tract

Insertion (cf. origin) The point where a muscle is attached to the bone in moves

Inspiration (cf. expiration) The physical process of breathing in

Integumentary Of the skin

Internal respiration Exchange of gases in the tissuesInterphase Phase of the cell cycle when there is no division

Interstitial fluid Fluid situated between body cells, also known as tissue fluid

Intracellular Inside a cell

Intrinsic factor A protein secreted by the stomach required for absorption of vitamin B_{12} (the extrinsic factor)

Intrinsic pathway Clotting process triggered by damaged blood vessels

Inversion The turning of the soles of the feet to face each other

Involuntary Not under conscious control

lon A charged atom (which has either lost or acquired electrons)

lonising radiation Radiation that generates ions when it passes through atoms; can damage cells by changing the atoms in the molecules that make up living tissue, e.g. X-rays

Ischaemia Impaired blood supply to a body part

Isometric Muscle work where the tension in the muscle rises but the muscle does not shorten, e.g. if trying to lift a weight that is too heavy to move

Isotonic Muscle work where the muscle shortens as the tension rises, allowing, e.g., a load to be lifted by the arm; in chemistry, solutions with a solute concentration the same as body tissues

Isotope A form of an element that has a different number of neutrons from the principal form

Karyotype Photographic presentation of a cell's chromosomes as matched pairs in descending order of size

Lactation Production of breast milk

Lateral Structure further from the midline or at the side of the body

Leukocyte General term for a white blood cell

Leukopenia A low blood white cell count

Ligament Band of connective tissue that binds one bone to another

Lipase Enzyme that breaks down fat

Lipid The general term for any substance that does not dissolve in water but dissolves in non-polar solvents like alcohol

Lipolysis Breakdown of fat

Low-density lipoprotein A lipid/protein complex in the bloodstream associated with deposition of cholesterol in arterial walls

Lumen The central passageway within an internal tube or duct

Lymph Watery fluid drained by the lymphatic system from the tissue spaces

Lysis Destruction of a cell, e.g. haemolysis

Lysozyme An antimicrobial enzyme present in some body fluids

Macrophage A phagocytic cell usually found in connective tissue

Malignant Cancerous

Mastication Chewing

Meatus An opening into a passage

Medial Structure that is nearer to the midline

Median plane An imaginary line that divides the body longitudinally into right and left halves

Mediastinum The region between the lungs, containing the heart, great vessels, trachea and other important structures

Medulla The inner layer of a gland or structure

Meiosis Process of cell division by which gametes are formed

Melaena Blood in the faeces

Menarche The onset of puberty in females, marked by the start of menstruation

Menopause Time of the female life span when reproductive function ceases

Menstruation (menses) Regular shedding of uterine lining, usually monthly, during the reproductive period of the female life span

Metabolic pathway Sequence of metabolic steps in cellular biochemistry

Metabolism All the chemical reaction that take place within the body

Metaphase Second phase of mitosis

Metastasis (pl. metastases) Secondary deposits from a primary malignant tumour

Microbe Micro-organism, e.g. a fungus, bacterium or virus

Micturition Passing urine

Mitosis Cell division giving two identical daughter cells

Mole In chemistry, the quantity of a substance representing its molecular weight in grams

Motor nerve or neurone An efferent nerve that carries impulses from the central nervous system to muscles or glands

Mucosa Lining of body tracts (also mucous membrane)

Mutagen Any substance that causes mutation

Mutation A genetic change that arises during cell division

Myelin A fatty substance that surrounds the axons of myelinated nerves

Myofilaments Intracellular protein threads within muscle cells, made either of actin or myosin, responsible for muscle cell contraction

Necrosis Cell death caused by an injury or a pathological condition

Negative feedback (cf. positive feedback) Any control mechanism that resists and reverses any change from normal in a physiological system

Neoplasm A new growth which may be benign or malignant

Nephron The structure in the kidneys responsible for the formation of urine

Neuromuscular junction The synapse between a motor nerve and a skeletal muscle cell

Neurone Nerve cell

Neurotransmitter Chemical that transmits an impulse between one nerve and the next, or between a nerve and the neuromuscular junction

Non-specific defence The defence mechanisms of the body that are effective against different types of threat, e.g. the skin, inflammation, complement

Norepinephrine Alternative name for noradrenaline

Nucleotide Building block of nucleic acids

Nutrient Any substance that is digested, absorbed and used to promote body function

Oedema Tissue swelling due to collection of fluid in the intercellular spaces

Olfaction Sense of smell

Oncogenic Cancer-causing

Organ Body part, composed of different tissues, that carries out a specific body function

Organelle Intracellular structure that carries out a specific function

Organic A molecule or substance containing carbon

Origin Point of attachment of a muscle to a bone that moves least during muscle contraction

Osteoid The organic constituent of bone tissue

Osteon Structural unit of compact bone

Osteopenia Age-related bone degeneration

Osmoreceptors Specialised sensory receptors sensitive to solute concentration

Osmosis Movement of water down its concentration gradient across a semipermeable membrane

Osmotic pressure The pressure exerted by water in a solution

Ossicles Bones of the middle ear: hammer, anvil and stirrup

Ossification The production of bone tissue

Ovulation The release of a mature ovum from the ovary

Oxidative phosphorylation The aerobic high energy-generating metabolic process of cellular respiration

Oxyhaemoglobin The oxygenated form of haemoglobin

Parasympathetic nervous system Division of the autonomic nervous system that prepares the body for 'rest and repair'

Parietal layer A layer of serous membrane lining a body cavity (cf. visceral layer)

Parturition Childbirth

Passive transport Any form of transport within the body that does not require the use of energy

Pathogen Micro-organism capable of causing disease

Peptidase An enzyme that breaks down protein

Peripheral nervous system Nervous tissue that is not part of the brain or spinal cord

Peripheral resistance The force against which the blood has to push to move through the arterial circulation, determined mainly by the diameter of the arterioles

Peristalsis Rhythmical contraction of smooth muscle in the walls of hollow organs and tubes, e.g. the alimentary canal

PH scale Scale of measurement of acidity or alkalinity **Phagocytosis** Defence mechanism by which body cells consume and destroy foreign materials, 'cell eating'

Phenotype The expression of the genes in an individual, e.g. hair colour, height, etc.

Phospholipid Fat-based molecule containing phosphate, essential to the structure of the cell membrane

Pinocytosis Ingestion of small vacuoles into a cell, 'cell drinking'

Plasma Clear, straw coloured liquid portion of the blood

Plasma protein Any one of a group of important proteins synthesised by the liver and carried in the plasma, with diverse physiological functions, e.g. as antibodies or clotting proteins

Platelet (thrombocyte) Small cell fragments involved in blood clotting

Pleural Related to the lungs

Plexus A network formed by a collection of nerves or blood vessels

Polymophonuclear leukocyte A general term for a white blood cell with an irregular nucleus (i.e. basophils, eosinophils and neutrophils)

Polyuria Production of large quantities of urine

Positive feedback (cf. negative feedback) A control mechanism that increases and accelerates any change from normal in a physiological system; much rarer than negative feedback control

Posterior (dorsal) Lying to the back of the body

Preload The amount of blood in the ventricle just prior to ventricular contraction, determined mainly by venous return

Presbycusis Irreversible hearing loss, usually due to ageing, which results from degeneration of the cochlea and begins with an inability to hear high pitched sounds

Presbyopia Stiffening of the lens, usually due to ageing, which impairs the ability of the eye to change focus (accommodate)

Pressure ulcer Damage to superficial tissues caused by prolonged pressure and interrupted blood supply, usually over a bony prominence

Primary wound healing Simple repair of relatively minor tissue damage

Prognosis Likely outcome of a disease

Prophase First phase of mitosis

Pronation The turning of the palms to face backwards

Protein A large polypeptide

Proximal Nearer the origin of a body part or point of attachment of a limb

Puberty The stage of life in males or females where reproductive maturity is achieved

Pulmonary Of the lungs

Pulse The pressure wave generated by the heart, felt along an arterial wall where that artery lies close to the body surface

Pulse pressure Diastolic blood pressure subtracted from the systolic value

Pyrexia Fever

Pyrogen A substance that causes fever

Radiation The transmission of energy in waves

Receptor A molecule, usually on the cell surface, that detects and responds to chemicals in the cell's external environment, e.g. a neurotransmitter. Also, a sensory nerve ending that detects physical changes in the local environment, e.g. a baroreceptor measuring pressure

Recessive Genetically, a form of a gene that can only be expressed if it is present as two identical forms on the chromosome pair

Refraction The bending of light rays as they pass through a lens, e.g. the lens of the eye

Renal Of the kidneys

Resistance vessel A blood vessel, usually an arteriole, with a thick layer of smooth muscle in its tunica media, that constricts or dilates to regulate blood flow and blood pressure

Reticulocyte Immature red blood cell

Retroperitoneal Lying behind the peritoneum

Ribonucleic acid (RNA) Molecule used to transfer genetic instructions from DNA to cytoplasmic ribosomes

Rotation The movement of a body part around its long axis

Rugae Folds in the internal surface of a hollow organ when the organ is relaxed

Sagittal plane An imaginary vertical line dividing the body into right and left halves either down the midline (midsagittal) or on either side of the midline (sagittal)

Salt The product of a reaction between an acid and a base

Saltatory conduction The 'jumping' of a nerve impulse along a myelinated nerve axon, from one node of Ranvier to the next

Scar tissue The nonfunctional tissue that replaces damaged tissue

Secondary wound healing Repair of tissue after extensive damage; a more complex and intense process than primary wound healing

Semipermeability (selective permeability) A property of cell membranes that allows passage of some substances but not others

Senescence Cell ageing and the decline in function that accompanies it

Sensory nerve or neurone An afferent nerve that carries impulses to the central nervous system

Serous fluid The general term for protein-containing fluid secreted by certain membranes, e.g. serous pericardium and visceral pleura

Sex chromosome The X or Y chromosome (pair 23)

Sign An abnormality observed by people other than a patient

Simple propagation The continuous conduction of an impulse along an non-myelinated nerve fibre

Sliding filament theory The accepted mechanism by which actin and myosin filaments within muscle cells slide over one another to permit muscle shortening (contraction)

Specific defence mechanisms Immunity; body's protective mechanisms raised against a specific threat or antigen

Sphincter Circle of muscle surrounding an internal passageway or orifice, used to regulate passage through the opening

Spinal reflex Involuntary, usually protective, action controlled at the level of the spinal cord (i.e. independent of the brain)

Squamous Flattened (epithelial cells)

Stratified Of tissues, having several cell layers

Striated The microscopic appearance of a striped pattern on skeletal and cardiac muscle cells

Stroke volume The volume of blood ejected by the ventricle when it contracts

Superficial Near the body surface

Superior Towards the upper part of the body

Supination Turning the palm to face forwards

Sympathetic nervous system Division of the autonomic nervous system that prepares the body for 'fight or flight'

Symptom An abnormality described by a patient

Synapse The junction between a nerve and the cell it supplies

Syndrome A collection of signs and symptoms that tend to occur together

Systemic circulation The blood supply to all body organs except for the pulmonary arteries and veins

Systole Contraction period of the heart or its individual chambers

Systolic blood pressure The pressure recorded in the systemic circulation (often at the arm) when the pressure is at its highest, immediately following ventricular contraction; the higher of the two measurements used to denote a blood pressure recording

Tachycardia Abnormally fast heart rate

Telophase Fourth (final) phase of mitosis

Telomere Non-coding sections of DNA that cap and protect the ends of each chromosome

Tendon A band of fibrous tissue connecting muscle to bone

Teratogen Any substance or agent known to cause abnormal fetal development

GLOSSARY

Thrombosis The inappropriate, pathological formation of stationary blood clots within blood vessels

Thrombus (pl. thrombi) Stationary blood clot (clots)

Tissue fluid Fluid between body cells, also known as interstitial fluid

Tolerance The ability of the immune system and its defensive cells and mechanisms to identify, and not attack, 'self' tissues

Tract A bundle of axons in the central nervous system

Transcription Production of mRNA from DNA **Translation** Production of protein from mRNA

Transverse plane An imaginary line slicing the body into an upper and a lower part

Trophic hormone Hormone released that causes the release of a second hormone

Trophoblast Outer cell layer of the blastocyst that forms the placenta

Tumour Mass of cells growing outwith the body's normal control mechanisms

Tunica adventitia The outer, supportive lining of blood vessels

Tunica intima The lining of blood vessels (also called endothelium)

Tunica media The middle layer of tissue in larger blood vessels

Urine Liquid waste product made in the kidneys

Vasoconstriction Decrease in diameter (narrowing) of a blood vessel

Vasodilation Increase in diameter (widening) of a blood vessel

Vein A blood vessel that carries blood towards the heart

Venule A small vein

Virus Non-living particle, which may be capable of causing disease

Visceral layer A layer of serous membrane covering a body organ

Voluntary control Conscious control of a body function **Zygote** Fertilised egg formed by fusion of an ovum and spermatozoon