

I'm not robot!













**Ionotropic glutamate receptors**, **excitatory ionotropic receptors** **IPSPs** (inhibitory postsynaptic potentials) **1-(iodide) pump** **iron ferric** **absorption** of **iron deficiency anemia** **iritidobulbowid** **syndrome** **irritant receptors** **IRV** (inspiratory reserve volume) **Islets of Langerhans** **isometric contractions** **Isoproterenol**, and **airway resistance** **Isometric reabsorption** in **proximal tubule** **Isosmotic volume contraction** **Isosmotic volume expansion** **Isotonic contractions** **Isotonic fluid water shifts** between compartments due to **Isotonic solution** **Isovolumetric contraction** **Isometric relaxation** **ventricular** **Jacksonian seizures** **Janus** family of receptor-associated tyrosine kinase (**JAK**) **Joint receptors**, in control of breathing **Juxtacapillary (J) receptors** **K<sup>+</sup> absorption** of dietary **reabsorption** of secretion of shifts between **ICF** and **ECF** + **K balance**, renal regulation of **K<sup>+</sup> concentration** **insulin** and **K<sup>+</sup> equilibrium potential** **K<sup>+</sup> secretion** by colon factors that change in renal high-**K<sup>+</sup> diet** and renal mechanism of renal **K<sup>+</sup> shifts** **spirinolactone** and renal **Ketoacid(s)** **glucagon** and **insulin** and **Ketoconazole**, for **Cushing disease** **17-Ketosteroids** **17-Ketosteroids** **Kf** (filtration coefficient) **Kidney**, effect of autonomic nervous system **Kinocilium** **Knee-jerk reflex** **K<sup>+</sup>-sparing diuretics** **Kussmaul breathing** **L Lactase** **Lactation** **Lactic acid** **Lactic acidosis** **Lactogenesis** **Lactose intolerance** **Laminar flow** **Laplace's law** **Large intestinal motility** **Lateral geniculate body** **Lateral geniculate cells**, receptive fields of **Lateral vestibulospinal tract** **Learning** **Lecithin:sphingomyelin ratio** **Left atrial pressure** **Left hemisphere**, in language **Left ventricular pressure** **Left-to-right shunts** **Length-tension relationship** in skeletal muscle in ventricles **Lens biconcave convex** **cylindric refractive power** of **Leptin** **Leukenkephalin** **Leydig cells** **LH** (Luteinizing hormone) actions of in menstrual cycle in regulation of ovary in regulation of secretion of in regulation of testes structure of in testosterone synthesis variation over life span **Lidocaine** **Ligand-gated channels** **Linear acceleration** **Lingual lipases** **Lipid(s)** (absorption of digestion of malabsorption of metabolism **Lipid bilayer**, of cell membrane **Lipid-soluble substances**, and cell membrane **Lipocortin** **Lipolysis**, **glucagon** and **β-Lipotropin** **Lithocholic acid** **Liver function** **bilirubin** **metabolism** **detoxification** **metabolic functions** of **Longitudinal muscle** in gastrointestinal motility **Long-term memory** **Long-term potentiation** **Loop diuretics** and **Ca2+ excretion** **isosthenuric urine** due to and **K<sup>+</sup> secretion** **major effects** of mechanism of action of site of action of **Loop of Henle** **countercurrent multiplication** in **thick ascending limb** of in **K<sup>+</sup> reabsorption** in in **Na<sup>+</sup> reabsorption** in in urine production **Losartin** **Lower esophageal sphincter** **Low-K<sup>+</sup> diet** **L-thyroxine** (**T4**) actions of regulation of secretion of synthesis of **Lumbar puncture** **Lumen-positive potential difference**, in thick ascending limb **Luminal anions**, and **K<sup>+</sup> secretion** **Lung capacities** **Lung compliance** **Lung volumes** and **airway resistance** during breathing cycle **Lung-chest wall compliance** **Luteal phase**, of menstrual cycle **Luteinizing hormone** (**LH**) actions of in menstrual cycle in regulation of ovary in regulation of secretion of in regulation of testes structure of in testosterone synthesis variation over life span **Luteinizing hormone** (**LH**) surge **Lymph M M line** **Macula densa**, in tubuloglomerular feedback **Magnesium** (**Mg2+**), renal regulation of **Malabsorption**, of lipids **Male phenotype** **Male reproduction** **Male sex organs**, effect of autonomic nervous system on **Malignancy**, **humoral hypercalcemia** of **Malignant hyperthermia** **Maltase** **Mannitol**, and **extracellular fluid volume** **Many-to-one synapses** **MAO** (monoamine oxidase) **Mean arterial pressure** set point for **Mean pressures** in cardiovascular system **Mean systemic filling pressure** **Mechanoreceptors** **Medulla** in autonomic nervous system in control of breathing **Medullary respiratory center** **Megacolon** **Meissner corpuscle** **Meissner plexus** **Melanocyte-stimulating hormone** (**MSH**) actions of **Membrane(s)** cell structure of transport across **semipermeable Membrane potential**, resting of cardiac muscle of skeletal muscle **Memory** **Menses** **Menstrual cycle** **follicular phase** of luteal phase of menses in negative and positive feedback control of ovulation in **MEPP** (miniature end plate potential) **Merkel disk** **Metabolic acidosis** acid-base map of causes of due to chronic renal failure due to diabetes mellitus due to diarrhea due to hypoaldosteronism **hyperchloremic respiratory compensation** for **Metabolic acidosis** acid-base map of causes of compensatory responses due to hyperaldosteronism due to vomiting **respiratory compensation** for **Metabolic effects**, of thyroid hormone **Metabolic hypothesis**, of local control of blood flow **Metabolism** **bilirubin** **carbohydrate** **lipid** **protein** **Metabotropic receptor** **Metarhodosin** **II** **Metarterioles** **Metenkephalin** **Methemoglobin** **3-Methoxy-4-hydroxyamandelic acid** **3-Methoxy-4-hydroxyphenylglycol** (**MOPEG**) **Mg2+** (**Magnesium**), renal regulation of **Micelles** **bile salts** and in **lipids** **absorption** and **vitamin D** **Microcirculation** **Microglial cells** **Midbrain**, in autonomic nervous system **Migraine** **headaches** **Migrating myoelectric complex**, in gastrointestinal motility **Mineralocorticoids** **Miniature end plate potential** (**MEPP**) **Minimum urine pH** **Minute ventilation** **MIT** (monoiodotyrosine) **Mitochondria**, myocardial **Mitral cells**, in the olfactory bulb **Mitral valve** **closure** of opening of **Molecular layer**, of cerebellar cortex **Monoamine oxidase** (**MAO**) **Monoglycerides**, absorption of **Monoiodotyrosine** (**MIT**) **Monosaccharides**, absorption of **MOPEG** (**3-methoxy-4-hydroxyphenylglycol**) **Mossy fibers** **Motilin** **Motoneuron(s)** convergence on divergence to in stretch reflex **yn** stretch reflex **large small** **Motoneuron** **Motor aphasia** **Motor centers** **Motor cortex** **Motor homunculus** **Motor pathways** **Motor systems** **basal ganglia** in brain stem control of posture in cerebellum in motor cortex in motor unit in muscle reflexes in muscle sensors in spinal organization of **Motor unit** in **MSH** (melanocyte-stimulating hormone) actions of **Mucous cells**, in gastric secretion **Mucous gastric secretion** **Müllerian ducts** **Multi-unit smooth muscle** **Muscarinic receptor(s)** **drugs** that act on **Muscarinic receptor blocker**, and **gastric secretion** **Muscle contraction** **cardiac** **isometric** **isotonic** **skeletal muscle** **Muscle end plate**, **ACh** at **Muscle fibers** **Muscle reflexes** **Muscle relaxation** **cardiac** **skeletal muscle** **sensors** **Muscle spindles** **Muscle tension** **Muscle weakness**, **K<sup>+</sup> concentration** and **Muscularis mucosa**, of **GI tract** **Myasthenia gravis**, **AChE** receptors in **Myelinated axon** **Myenteric plexus** **Myocardial cell structure** **Myocardial contractility** **Ca2+ and cardiac output** factors that decrease factors that increase in **Frank-Starling relationship** and **ventricular pressure-volume loop** **Myocardial O2 consumption** **Myofibrils** **Myogenic hypothesis**, of local control of blood flow renal **Myopia** **Myosin** in excitation-contraction coupling **Myosin cross-bridges** **Myosin-light-chain kinase** **Myotatic reflex** **inverse stretch N Na<sup>+</sup> channels** activation and inactivation gate of complete blockade of **Na<sup>+</sup> current**, inward **Na<sup>+</sup> diffusion potential** **Na<sup>+</sup> equilibrium potential** **Na<sup>+</sup> gradient** **Na<sup>+</sup> reabsorption** **Na<sup>+</sup>-Ca2+ countertransport** **Na<sup>+</sup>-Ca2+ exchange** **NaCl**, absorption of **Na<sup>+</sup>-Cl<sup>-</sup> cotransporter** **NaCl** intake, water shifts between compartments due to **NaCl regulation** **Na<sup>+</sup>-dependent cotransport** of amino acids of **carbohydrates** **Na<sup>+</sup>-glucose cotransport** **Na<sup>+</sup>-glucose cotransporter 1** (**SGLT 1**) **Na<sup>+</sup>-H<sup>+</sup> exchange** **Na<sup>+</sup>-K<sup>+</sup> pump** **Na<sup>+</sup>-K<sup>+</sup>-ATPase** **Na<sup>+</sup>-K<sup>+</sup>-2Cl<sup>-</sup> cotransport** **Na<sup>+</sup>-phosphate cotransport** **Near point** **Nearsightedness** **Negative chronotropic effect** **Negative feedback**, for hormone secretion **Negative inotropic agents** and **cardiac output** curve **Negative inotropic effect** **Neonatal respiratory distress syndrome** **Neostigmine**, and neuromuscular transmission **Nephrogenic diabetes insipidus** **Nephron** in calcium regulation **concentration** and **dilution** of urine in disorders related to effects of diuretics on in **K<sup>+</sup> regulation** in magnesium regulation in **Na<sup>+</sup> reabsorption** in **NaCl** regulation in phosphate regulation in urea regulation **Nernst equation** **Nerve fiber** types **Neurocrines** **Neuromuscular junction** **Neuromuscular transmission** **Neuropeptide Y** **Neurophysiology** of autonomic nervous system of blood-brain barrier and cerebrospinal fluid of higher functions of cerebral cortex **motor systems** **basal ganglia** in brain stem control of posture in cerebellum in motor cortex in muscle reflexes in muscle sensors in spinal organization of of sensory system(s) **audition** as olfaction as sensory receptors in somatosensory taste as vestibular vision as of temperature regulation **Neurotransmitters** **excitatory** **inhibitory** **release** of **NH3** (**ammonia**) **synthesis** **NH4+** (**ammonium**), **H+** excretion as **Nicotinic receptors** **drugs** that act on and **epinephrine** **secretion** on **ligand-gated channels** at neuromuscular junction **Night blindness** **Nitric oxide** (**NO**) **Nitric oxide** (**NO**) **Nitric oxide** (**NO**) **synthase** **Nitrous oxide** (**N2O**), perfusion-limited exchange of **NMDA** (**N-methyl-D-aspartate**) receptor **N-methyl-D-aspartate** (**NMDA**) receptor **NO** (nitric oxide) **Nociception** **Nociceptors** **Nodes of Ranvier** **Neuroadrenergic**, noncholinergic neurons **Noniconic diffusion** **Nonvolatle acids** **Norepinephrine** and **adenylyate cyclase** in autonomic nervous system in hemorrhage **synthetic pathway** for **Normal blood values** **Normetanephrine** **Noxious stimuli** **Neurax** **bag fibers** **Nuclear chain fibers** **Nucleus gracilis** **Nucleus cuneatus** **Nucleus gracilis** **Nystagmus** **postrotatory O O2** in control of breathing **diffusion-limited** gas exchange dissolved partial pressure of alveolar arterial perfusion-limited exchange in ventilation/perfusion defect **O2-binding capacity**, of hemoglobin **O2 consumption** **cardiac** **during exercise** **O2 content** of blood **O2 delivery** **O2 transport** **alveolar gas** and **pulmonary capillary blood** changes in hemoglobin in hemoglobin-**O2** dissociation curve and hypoxemia and hypoxia **Oxctroleid** **Odorant molecules** **Off-center**, on-surround pattern **Ohm's law** **Oil/water partition coefficient** **Olfaction** **Olfactory bulb** **Olfactory nerve** **Olfactory pathways** **Olfactory receptor neurons**, transduction in **Olfactory receptor proteins** **Olfactory system** **Oligodendrocytes** **Omeprazole**, and **gastric secretion** **On-center**, off-surround pattern **Oncotic pressure** **Bowman space** **capillary glomerular interstitial fluid** **One-to-one synapses** **Opsin** **Optic chiasm** **lesion** of **Optic nerve** **lesion** of **Optic pathways** **Optic tract** **lesion** of **Optics** **Orad** region, of stomach **Orexigenic neurons** **Organ of Corti** **auditory** **transduction** by **Orthostatic hypotension** after **sympathectomy** due to hypoaldosteronism **Osmolarity** of body fluids **calculation** of plasma estimation of regulation of of urine **Osmole**, ineffective **Osmosis** **Osmotic diarrhea**, due to lactose intolerance **Osmotic exchangers** **Osmotic gradient**, corticopapillary **Osmotic pressure** **effective** **Ossicles** **Osteomalaria** **Outer ear** **Outer hair cells** **Outward current** **Own window** **Ovary**, regulation of **Overshoot**, of action potential **Ovulation** **lactation** and **Oxalic acid** **Oxygen** (see **O2**) **Oxyhemoglobin** as intracellular buffer **Oxytocin** actions of regulation of secretion of **P P50**, hemoglobin-**O2** dissociation curve **P wave** absent additional **Pacemaker**, cardiac in **AV node** **latent Pacemaker potential**, in **SA node** **Pacinian corpuscles** **PAH** (see **Para-aminohippuric acid** (**PAH**)) **Pain** **fast flexor** **withdrawal reflex** to referred **slow Pancreas**, endocrine **Pancreatic cholera** **Pancreatic enzymes** **Pancreatic juice** **Pancreatic lipases** **Pancreatic polypeptide** **Pancreatic proteases** **Pancreatic secretion** **composition** of flow rates for formation of inhibition of modification of stimulation of **Papillae** **Para-aminohippuric acid** (**PAH**) **clearance** of excretion of filtered load of renal blood flow **secretion** of titration curve **transport maximum** (**Tm**) curve for in tubular fluid **Paracines** **Parallel fibers**, of cerebellar cortex **Parallel resistance** **Paraplegia** **Parasympathetic effects**, on heart rate and conduction velocity **Parasympathetic ganglia** **Parasympathetic nervous system** of **GI tract** organization of **Parasympathetic stimulation** and **airway resistance** and myocardial contractility of **saliva** **Parathyroid adenoma** **Parathyroid hormone** (**PTH**) actions of in **Ca2+ reabsorption** in calcium regulation and phosphate reabsorption renal effects of secretion of **Parathyroid hormone-related peptide** (**PTH-rp**) **Parietal cell** **H<sup>+</sup> secretion** by agents that stimulate and inhibit mechanism of **Parkinson disease** **Partial pressure(s)** of carbon dioxide **Dalton's law** of of oxygen **Partial pressure differences** **Parturition** **Passive transport** **Patent ductus arteriosus** **PBS** (Bowman space hydrostatic pressure) **PCO2** **alveolar arterial** and **HCO3<sup>-</sup>** reabsorption on hemoglobin-**O2** dissociation curve **venous** **Pelvic nerve** **Pepsin** **Pepsinogen** **Peptic ulcer disease** **Peptide hormone**, synthesis of **Perchlorate anions** **Perfusion-limited exchange** **Perilymph** **Peripheral chemoreceptors**, in control of breathing **Peripheral proteins** **Peristalsis** **esophageal large** **intestinal small** **intestinal** **Peristaltic contractions** **esophageal primary** **secondary** in small intestine **Peritubular capillaries**, **Starling forces** in **Permeability** of cell membrane of ion channels **Pernicious anemia** **Peroxidase** **PGC** (glomerular capillary hydrostatic pressure) **pH** and buffers **calculation** of central chemoreceptors and **gastric secretion** on hemoglobin-**O2** dissociation curve **urine** **acidic** **alkaline** **minimum** of **venous blood** **Phasic contractions**, in gastrointestinal motility **Phasic receptors** **Phenotypic sex** **Phenoxbenzamine** **Phenylalanine**, and **gastrin** **secretion** **Pheochromocytoma** **phenoxbenzamine** for **vanillylmandelic acid** **excretion** with **Phosphate(s)** as extracellular buffer **renal regulation** of **PTH** and as urinary buffer **Phosphatidyl Phospholamban** **Phospholipids**, in cell membrane **Phosphoric acid** **Photoisomerization** **Photoreception** **Photoreceptors** **Physiologic dead space** **Physiology** **shunt** **Physiology** equations **PIF** (prolactin-inhibiting factor) (see also **Dopamine**) actions of **Pink pigments** **Pinoctyosis** **Pituitary gland** anterior hormones of posterior hormones of and relationship with hypothalamus **pK**, of buffers **Plasma** **Plasma osmolarity** estimation of regulation of sweating and **Plasma**, serum, or blood concentrations **Plasma volume** **Plateau** phase, of action potential **Pneumotoxic center**, in control of breathing **Pneumothorax** **PO2** **alveolar arterial** **Poiseuille's equation** **Poiseuille's law** **Polypidpsia** **POMC** (proopiomelanocortin) **Pontine reticulospinal tract** **Pontocerebellum** **Positive chronotropic effects** **Positive cooperativity** **Positive inotropic effects** **Positive feedback**, for hormone secretion **Positive inotropic agents** and **cardiac output** curve **Positive inotropic effect** **Positive staircase** **Posterior pituitary gland** hormones of **Postganglionic neurons** **Postganglionic sympathetic neurons** **Postganglionic cell membrane** **end plate potential** in **Postsynaptic potentials** **excitatory** **inhibitory** **Posture**, brain stem control of **Potentialiation** of **gastric H<sup>+</sup> secretion** long-term **posttetrastasytic** **post-tetanic** **Power stroke** **PR interval** **PR segment** **Prazosin** **Precaipillary sphincter** **Proganglionic neurons** **Pregnancy hormone** **levels** during human chorionic gonadotropin in **Pregnenolone** **Proland** **ventricular** and **ventricular pressure-volume loop** **Premotor cortex** **Preprohormone** **Prenatal azotemia** **Presbyopia** **Pressure profile**, in blood vessels **Presynaptic terminal** **Primary active transport** **Primary motor cortex** **Primordial follicle** **Principal cells** in **K<sup>+</sup> regulation** in **Na<sup>+</sup> reabsorption** in water regulation **Progesterone** actions of during menstrual cycle during pregnancy **Protein(s)** absorption of in cell membrane digestion of integral as intracellular buffer metabolism peripheral **Protein hormones**, synthesis of **Protein kinase C** **Proton** (see **H+**) **Proton pump** **Proximal tubular reabsorption**, **ECF volume** and **Proximal tubule(s)** glomerulotubular balance in isosmotic reabsorption in **K<sup>+</sup> reabsorption** in **Na<sup>+</sup> reabsorption** in **Na<sup>+</sup>-glucose cotransport** in **PAH** secretion in reabsorption of filtered **HCO3<sup>-</sup>** **TF/P** ratios in urine production **Pseudohypparathyroidism** **PTH** (parathyroid hormone) actions of in **Ca2+ reabsorption** in calcium regulation and phosphate reabsorption renal effects of secretion of **PTH-rp** (parathyroid hormone-related peptide) **Puberty** **Pulmonary artery pressure** **Pulmonary blood flow** (**Q**) in different regions of lung distribution of during exercise **gravitational forces** and regulation of **Pulmonary circulation** **Pulmonary embolism**, **V/Q** ratio in **Pulmonary fibrosis** **diffusion-limited** exchange during **FV1** in lung compliance in **PaCO2** in **Pulmonary vascular resistance** **fetal** **Pulmonary vasoconstriction**, in high altitudes **Pulmonary wedge pressure** **Pulmonic valve**, closure of **Pulse pressure** **extrasystolic** **beat** and **Purkinje cell layer**, of cerebellar cortex **Purkinje cells** **Purkinje system**, action potentials of **Pursed lips** **intralesural pressure** **Pyramidal tracts** **Pyrogens** **Q** **QRS complex** **QT interval** **R** **Radiation**, heat loss by **Rapid eye movement** (**REM**) **sleep** **Rapidly adapting receptors** **RBCs** (red blood cells), lysis of **RBF** (renal blood flow) **Reabsorbed substance**, **transport maximum** (**Tm**) curve for **Reabsorption** of filtered **HCO3<sup>-</sup>** of glucose of **Na<sup>+</sup> reabsorption** **Reabsorption** **Rebound phenomenon** **Receptive relaxation** of structure of **Stress**, **glucocorticoid** response to **Stretch reflex** **Striatum** **lesions** of **Stroke** **volume** **afterload** and in baroreceptor reflex **defined** **end-diastolic volume** and **extrasystolic** **beat** and **gravitational forces** and **preload** and **pulse pressure** in ventricular pressure-volume loops **Stroke work** **Sublingual glands** **Submandibular glands** **Submucosal plexus**, of **GI tract** **Substance P** **Substantia nigra** **lesions** of **Subthalamic nuclei** **lesions** of **Sucrase** **Sucrose**, digestion and absorption of **Sulfonylurea** **drugs** **Sulfuric acid** **Summation** **spatial** at synapses **temporal** **Supplementary motor cortex** **Suprachiasmatic nucleus** **Surface tension**, of alveoli **Surfactant** **Surround**, of receptive field **Swallowing** **Swamp glands** effect of the autonomic nervous system on in heat loss **Sweating**, water shifts between compartments due to **Sympathectomy**, orthostatic hypotension after **Sympathetic effects**, on heart rate and conduction velocity **Sympathetic ganglia** **Sympathetic innervation** and **blood flow** to skeletal muscle to skin of vascular smooth muscle **Sympathetic nervous system** of **GI tract** in heat generation in heat loss organization of and renal blood flow **Sympathetic stimulation** and **airway resistance** and myocardial contractility renal effects of of saliva **Symport** **Synapses** input to many-to-one one-to-one summation at **Synaptic cleft** **Synaptic transmission** **Synaptic vesicles** **Syndrome** of inappropriate antidiuretic hormone (**SIADH**) **urine** production in vs. water deprivation water shifts between compartments due to **Systole** **Systolic pressure** **Systolic pressure** curve **T T3** (triiodothyronine) actions of regulation of secretion of reverse synthesis of **T4** (**L-thyroxine**) actions of regulation of secretion of synthesis of **T** (transverse) **tubules** **depolarization** of myocardial **T wave** **Taste** **Taste buds** **Taste chemicals** **Taste pathways** **Taste receptor cells** **Taste transduction** **TBG** (thyroxine-binding globulin) **TBW** (total body water) measuring volume of **TEA** (tetraethylammonium) **Tectorial membrane** **Tectospinal tract** **Temperature**, body core on hemoglobin-**O2** dissociation curve **hypothalamic set point** for **Temperature** regulation and **blood flow** to skin **Temperature sensors** **Temporal summation** **Terminal cisternae** **Testes**, regulation of **Testosterone** actions of and male phenotype **synthesis** of **Tetanus** **Tetraethylammonium** (**TEA**) **Tetralogy of Fallot** **Tetrodotoxin** **TF/Pinulin ratio** **TF/PR ratio** **along proximal tubule** **TF/Px/TF/Pinulin ratio** **GC** (**thyroglobulin**) **Thalamus**, in somatosensory system **Theca cells** **Thiazide diuretics** and **Ca2+ reabsorption** for idiopathic hypercalciria and **K<sup>+</sup> secretion** **major effects** of mechanism of action of site of action of **Thick ascending limb** and **Ca2+ reabsorption** ion transport and **K<sup>+</sup> reabsorption** and **Mg2+ reabsorption** and **Na2+ reabsorption** in urine production **Thick filaments** **Thin filaments** **Thiocyanate** **Threshold** **Thromboxane** **A2**, in blood flow regulation **Thyroglobulin** (**TG**) **Thyroid deiodinase** **Thyroid gland** **pathophysiology** of physiology of **Thyroid hormones** actions of in heat generation mechanism of actions of regulation of secretion of **Thyroid-stimulating hormone** (**TSH**) actions of in regulation of secretion of thyroid hormone structure of in synthesis of thyroid hormones **Thyroid-stimulating immunoglobulins** **Thyrotropin-releasing hormone** (**TRH**) actions of and prolactin in regulation of thyroid hormone secretion **Thyroxine-binding globulin** (**TBG**) **Tidal volume** (**VT**) **Tight junctions** **Titratableacid** **H<sup>+</sup> excretion** as **Titration curves** **glucose** **PAH** **TLC** (total lung capacity) **Tm** (transport maximum) **Tm** (transport maximum) curve for reabsorbed substance for secreted substance **Tonic receptors** **Tonotopic representation** **Total body water** (**TBW**) measuring volume of **Total lung capacity** (**TLC**) **Total peripheral resistance** (**TPR**) **Total peripheral resistance** (**TPR**) **Total peripheral resistance** (**TPR**) **Transducin** **Transferrin** **Transport across cell membranes** active primary secondary carrier-mediated coupled **Transport maximum** (**Tm**) curve for reabsorbed substance for secreted substance **Transverse** (**T**) tubules **depolarization** of **Trehalase** **Tremor**, intention **TRH** (thyrotropin-releasing hormone) actions of and prolactin in regulation of thyroid hormone secretion **Tricuspid valve**, closure of **Triiodothyronine** (**T3**) actions of regulation of secretion of reverse synthesis of **Tripeptides** **Tritiated water**, as marker for **TBW** **Tropical sprue** **Tropomyosin** **Troponin** **Troponin C**, **Ca2+**-binding to **Trypsin** **Trypsinogen** **Tryptophan**, and **gastrin** **secretion** **TSH** (thyroid-stimulating hormone) actions of in regulation of secretion of thyroid hormone structure of in synthesis of thyroid hormones **Tubular fluid** (**TF**) **alanine** in glucose in inulin in para-aminohippuric acid in **Tubular fluid/plasma** (**TF/P**) ratio **Na<sup>+</sup> and osmolarity** **Tubuloglomerular feedback** **Twitch tension** **Tympanic membrane** **Type II** alveolar cells **Tyrosine kinase-associated receptor** **U** **UDP** (uridine diphosphate) **glucuronyl transferase** **Ulcers**(s) **duodenal** **gastric** **peptic** **Ultrafiltration** **pressure**, net **Undershoot**, of action potential **Unitary smooth muscle** **Unmyelinated axon** **Upper esophageal sphincter** **Ure**-regulation, of hormone receptors **Upstroke**, of action potential **Urea** **glucagon** and **hypotonic renal regulation** **Urea** **recycling**, in urine production **Uridine diphosphate** (**UDP**) **glucuronyl transferase** **Urinary buffers** **Urinary cyclic AMP** **Urine** **concentrated** (hyperosmotic) **dilute** (hyposmotic) **isosthenuric osmolarity** of **Urine** **pH** **acidic** **alkaline** **minimum** **Urobilin** **Urobilinogen** **UTI** transporter **ADH** effect role in urea recycling **Utricle** **V** **V1** receptors **V2** receptors **VA** (alveolar ventilation) **Vagal stimulation**, of gastric **H<sup>+</sup> secretion** **Vagotomy** and **H<sup>+</sup> secretion** **Vagovagal reflexes** **Vagus nerve** **Valsalva maneuver** **Vanillylmandelic acid** (**VMA**) **van't Hoff's law** **Vasa recta**, in urine production **Vascular resistance** **blood vessel radius** and **Vascular smooth muscle** **sympathetic innervation** of **Vasculature**, components of **Vasoactive intestinal peptide** (**VIP**) in esophageal motility and **GI smooth muscle** **relaxation** **Vasoconstriction** in baroreceptor reflex in hemorrhage **hypoxic pulmonary**, in high altitudes **Vascular** **Vasodilation** **renal arterioles** **Vasodilator** **metabolites** **exercise** and **Vasomotor center** in baroreceptor reflex chemoreceptors in **Vasopressin**, and arterial blood pressure **VC** (vital capacity) measurement of Veins **Venoconstriction**, in baroreceptor reflex **Venous blood**, pH of **Venous compliance** and **mean systemic pressure** and **venous return** curve **Venous constriction** **Venous pooling** **Venous pressure** and **edema** **Venous return** and **cardiac output** **diarrhea** and **exercise** and **Venous return** curve **Ventilation** **alveolar** **minute** **positive** **pressure**, pulmonary **blood flow** **V/Q** ratios in different parts of lung **Ventilation** **perfusion** (**V/Q**) defects as cause of hypoxemia **Ventilation/perfusion** (**V/Q**) ratio with airway obstruction changes in defined in different parts of lung during exercise in pulmonary embolism **Ventral respiratory group** **Ventricles**, length-tension relationship in **Ventricular action potential** **Ventricular ejection** **rapid** **reduced** **Ventricular filling** **rapid** **reduced** **Ventricular pressure-volume loop** **Ventricular volume** **Venules** **Vestibular organ** **Vestibular system** **Vestibular transduction** **Vestibular-ocular reflexes** **Vestibule**, of inner ear **Vestibulocerebellum** **Vestibulospinal tract**, lateral **Vibrio cholerae** **VIP** (vasoactive intestinal peptide) in esophageal motility and **GI smooth muscle** **relaxation** **Vision** **layers** of retina in optic pathways and lesions in optics in photoreception in rods in receptive visual fields in **Visual cortex**, receptive fields of **Vital capacity** (**VC**) measurement of **Vitamin A**, in photoreception **Vitamin(s)**, absorption of **Vitamin B12**, absorption of **Vitamin D** actions of in calcium metabolism **metabolism** of **VMA** (**3-methoxy-4-hydroxymandelic acid**) **VMA** (vanillylmandelic acid) **Volatile acid** **Voltage-gated channels** **Volume contraction** **alkalosis** due to diarrhea due to vomiting **hyperosmotic** in hypoaldosteronism **hyposmotic** **isosmotic** **Volume expansion** **hyperosmotic** **hyposmotic** **isosmotic** **Volume of distribution** **Vomiting** and **gastric secretion** **metabolic alkalosis** due to **W Water** (**H2O**) absorption of distribution of secretion of shifts between compartments of total body measuring volume of **tritiated Water** **deprivation** and **free-water** **clearance** and **H2O reabsorption** and **TF/P** **osmolarity** **Water** **intake**, response to **Water-soluble substances**, and **cell membrane** **Weak acids** **Weak bases** **Wernicke** **area** **Wheal** **Wolff-Chaikoff effect** **Wolffian ducts** **Z Z** line **Zollinger-Ellison syndrome** **Zona glomerulosa** **Zona reticularis** **Zonae fascicularis** **Zonula occludens**



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