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The A to Z of

Anatomical Histological and Medical terms



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Introduction

The following is a glossary of anatomical and histological (microscopic anatomy) terms: their etymology — derivation where relavent, **their word roots, prefixes, suffixes** and their **pronunciation**. Other common medical terminology used in health studies are also included. Many of these terms will appear again and again in medical/health related subjects.

Why such an array of vocabularly in this living document? Because of reader feedback!! This is a living document and it has been expanded with suggestions from students and colleagues alike. Already it is much changed from its first printing, due to this feedback. Initially it was only a glossary of anatomical terms, then as I took my students through Anatomy and onto Histology, they told me these terms too were also foreign to them in many cases and also caused them difficulty hence some common histological and cytological terms (by no means complete) were added. Later a commonality of terms were noted by the students who asked for an inclusion of their word roots and regular repeated prefixes and suffixes; derivations so they could build up and analyse the ANATOMY of the medical words themselves. Hence a section of common prefixes, suffixes and word roots was added to the beginning of the book with some included in the main text in **blue with a pronunciation guide**.

With the presentation of student seminas in anatomy and histology, it became obvious that some guide on how to pronounce many these terms for the new and the non-medical student was needed and so a pronunciation guide and common explanation of some terms were also included in red.

As you can see any contribution is greatly valued and can only make this and other A to Z publications more helpful for the reader, so please send any suggestions to me directly or via Aspenpharmacare who have graciously sponsored much of A to Z projects.

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Acknowledgement and Future Plans

This is the second update of the A to Z books now numbering 5, including: the A to Z of Skeletal muscles, the A to Z of the Bones of the Skull, the A to Z of Bones, Joints and Ligaments, the A to Z of Peripheral Nerves and this book the A to Z of Anatomical Histological and Medical terms. Please see the back of the book for ordering details and the availability of the other titles in the series. The A to Z of Histological and anatomical images is still present on the website although yet to be turned into an A to Z book., and the further suggestions of books such as the A to Z of Surface Anatomy, the A to Z of Gynecological terms, The A to Z of Radiology, The A to Z of Organs and Systems and the A to Z of Emergency Medicine, the A to Z of the skin and the A to Z of Neurology and the Nervous system are also being discussed. As always we value your input and response as to the order and the need for this works. A feedback form at the back of the book is designed to collate any suggestions or ideas you may have. You are always welcome to visit our website and leave your suggestions there. Students, doctors and others, it is hoped you will use these guides and find them helpful in your studies, practice or other aspects of your healthy life.

Dedication

I thank Aspenpharmacare for their ongoing support, in particular the Australian CEO Greg Lan. My family Ali, Zoe, Quentin, Jody and Mickey are my raison d'etre, although I may not always show them how much their support means to me.

Changes to the second edition

Changes to this volume are as follows: inclusion of additional acronyms used in medical and other related health areas, particularly in reference to students and including common abbreviations used on most medical wards and in emergency medicine; inclusion of some common Histological/Immunohistochemical stains and their uses; additional medical facts and tables and basic anatomical concepts and descriptions; guides to degrees diplomas and postnominals and other qualifications and an inclusion of some helpful medical memonics.

Anatomical, Medical and Clinical Abbreviations and Acronyms in common use

and	A	cronyms in comm	on u	SE	
Λ			ARF	_	acute renal failure
Α			AS	_	
AA	=	amino acids / androgenic	AS		Alternative spelling, generally
		alopecia	, 10		referring to the differences b/n
AAA		abdominal aortic aneurysm			British and American spelling
AAD		antibiotic-associated diarrhoea	ASAP	=	
AA0	=		ASCVD	=	
A&0		alert & orientated			disease
Ab (Ab		antibody	ASD	=	atrial septal defect
ABD/Ab			ASHD	=	atherosclerotic heart disease
ABG AC		arterial blood gas	AST		anal skin tag
ACD		before eating	AV	=	atrioventricular
ACLS		acute contact dermatitis	A-V	=	arteriovenous
		advanced cardiac life support	A-V02	=	arteriovenous oxygen
		adrenocorticotropic hormone ad lib = take as needed / no			
au IIDIII	1111/	restrictions	В		
ADD		attention deficit disorder	b/n	=	between
ADH		anti-diuretic hormone	BBB		bundle branch block /blood brain
ADHD		attention deficit hyperactivity			barrier
ADIID	_	disorder	BCAA	=	branched chain amino acids
adi.	_	adiective	BCC	=	basal cell carcinoma
ADR		adverse drug reaction / acute	bd/bid	=	twice a day
ADIT	_	dystonic reaction	BD	E	Bowen's disease / twice daily
AFD	_	antiepileptic drug	BE	=	barium enema
AF		atrial fibrillation / afebrile	BEE	=	basal energy expenditure
AFB		acid-fast bacilli	BF	=	blood flow
AFP		alpha-fetoprotein	BKA	=	below the knee amputation
AFX		atypical fibroxanthoma	BLK	=	benign lichenoid keratosis /
A /G		albumin/globulin ratio			benign lymphocytic keratosis
Ag	_	antigen	BL	=	basal lamina
Al	=	aortic insufficiency	BM	=	bone marrow /bowel
AK		actinic keratosis			movement/basement membrane
AKA	=	above the knee amputation	BMR		basal metabolic rate
ALD		alcoholic liver disease	BOM		bilateral otitis media
ALL		acute lymphocytic leukaemia	BP	=	blood pressure / bullous
alt.		alternative			pemphigoid
Amb	=	ambulate	BPH		benign prostatic hypertrophy
AML	=	acute myelogenous leukaemia	BPM		beats per minute
ANA		antinuclear antibody			bright red blood per rectum
ANS	=	autonomic nervous system	BRP		bathroom privileges
AOB		alcohol on breath	BS	=	bowel sounds / breath sounds /
AODM	=	adult onset diabetes mellitus	DUN		blood stream
AP	4	anteroposterior or abdominal -	BUN		blood urea nitrogen
		perineal	BV		blood vessels
ARDS	=	acute respiratory distress	BW		body weight
		syndrome	Вх	=	biopsy

C with C.f. = as demonstrated / that means C&S = culture and sensitivity CA = cancer/carcinoma CA = calcium / carcinoma CAA = crystalline amino acids CABG = coronary artery bypass graft CAD = coronary artery the sease CAT (scan) = computerized axial tomography CBC = complete blood count CBG = capillary blood gas CC = chief complaint CCV = critical closing volume CCC = chronic cardiac failure CCU = cardiac care unit CCV = critical closing volume CF = cystic fibrosis CGL = chronic granulocytic leukaemia CHF = congestive heart failure CHO = cardioxindex CIN = cardiac index CIN = cardiac index CIN = cardiac index CIN = cardianine kinase CML = chronic myelogenous leukaemia CMV = creatinine kinase CML = chronic myelogenous leukaemia CMV = creatinine kinase CNL = cranial nerves / compound naevus CNH = chondrodermatits nodularis helicis CNS = central nervous system COAD = chronic obstructive ainways disease COAD = chronic obstructive ainways disease COAD = chronic obstructive ainways disease COAD = chronic obstructive ainways pressure CPP = chest pain/cerebral palsy CPAP = continuous positive ainway pressure CPDN = compound naevus CPC = chest pain/cerebral palsy CPC = chest pain/cerebral palsy CPC = chest pain/cerebral palsy CPC = creatinine phosphokinase CPR = cironic roal failure CPC = creatinine phosphokinase CPR = cloronic obstructive inway pressure CPR = coronic superficial scaling DX = diadetes insipidus DX = diadetes mellitus DMS = dermatoribyoras diadetes mellitus DMS = dermatomyositis DNR = do not resuscitate DNR = dondroressing (e.g. diagnosis) DR = direct immunofluorescence provokeratosis TCL = cutaneous T cell lymphoma cut. = cutaneous CTL HORN = cutaneous CVA = cerebrovapscular accident /costovertebral angle CVA = central venous pressure CXA cicatrix CXR/CX= chest X-ray CXR/CX= chest X-ray CXR/CX= chest X-ray CX = cicatina care DAT = diet as tolerated DAW = dispensa sa written DAW = dispensa sa written DAW = dispensa sa written D						
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CSF = Cerebrospinal fluid DX = diagnosis						•
Duen — duenlactic						· ·
	CSSD		•	Dysp	=	ayspiastic

_			ar		grain, 1 grain 65mg
Е			gr Thorof		grain; 1 grain = 65mg. Vgr = 325mg
EAA	=	essential amino acids	GSW		gun shot wound
EAC	=	erythema annular centrificum	Gt/qtt		drops
EBA	=	epidermolysis bullosa acquisita	GTT		glucose tolerance test
EBL	=	estimated blood loss	GU		genitourinary
EC	=	extracellular (outside the cell)	GVDH		graft versus host disease
ECG	=	electrocardiogram	GXT	=	
ECT	=	electroconvulsive therapy	UAI	_	(Stress test)
EED	=	erythema elevatum diutinum			(Siless lest)
EEG	=	electroencephalogram	Н		
EFAD	=	essential fatty acid deficiency	Н	_	hormone
e.g.	=	example	HA		headache
EMG	=	electromyogram	HAA		hepatitis B surface antigen
EMS	=	erythema multiforma	HAV		hepatitis A virus
EMV	=	eyes, motor, verbal response	Hb		haemoglobin
		(Glasgow coma scale)	HBP		
ENT	=	ears, nose, and throat	HCG		high blood pressure
EOM	=	extraocular muscles	HCT		human chorionic gonadotropin hematocrit
ESR	=	erythrocyte sedimentation rate	HDL		
ET	=	endotracheal			high density lipoprotein
ETT	=	endotracheal tube			head, eyes, ears, nose and throat
ERCP	=	endoscopic retrograde	Hg		haemorrage
		cholangio-pancreatography	Hgb		haemoglobin
ETOH	=	ethanol	H/H		haemoglobin/haematocrit
EUA	=	examination under anaesthesia	HIV		human immunodeficiency virus
_			HLA		solar keratosis
F			HMF		histocompatibility locus antigen Hutchinson's melanotic freckle
FB	=	foreign body	HJR		hepatojugular reflex
FBS	=	fasting blood sugar	HO		history of
FDE		fixed drug eruption	HOB		head of bed
FEV	=	forced expiratory volume	HP		high power
FFP	=	fresh frozen plasma	HPF		high power field
FFFT		fits, faints and/or funny turns	HPV		human papilloma virus
FRC	=	functional residual capacity	HPI		history of present illness
FTT	=	failure to thrive	HR		heart rate
FU	=	follow-up	HS		at bedtime
FU0	=	fever of unknown origin	HSM		hepatosplenomegaly
FVC	=	forced vital capacity	HSP		herpes simplex virus
Fx	=	fracture			human lymphotropic virus, type
•			IIILV-II		III (AIDS agent, HIV)
G			HSV	_	herpes simplex virus
GA	=	2	HTN		hypertension
GC	=	Gonorrhoea	Hx	=	
GD	=	Grover's disease	ПХ	=	HIStory
GETT	=	general by endotracheal tube	1		
GFR	7		I&D		incigion and drainege
GH	F	growth hormone	1&D		incision and drainage intake and output
Gl	#	gastrointestinal	IBR		insect bite reaction
GIT	=	gastrointestinal tract	IC IDN		intracellular (inside the cell)
Gk.	=	Greek	ICD		intracellular (inside the cell)
g/gm	=	gram	IUD	=	imani comaci definalilis

		111077102	OI / III late	51111	our motological and modical terms
ICS	=	intercostal space	LLL	=	left lower lobe
ICU	=	intensive care unit	LMM	=	lentigo maligna (melanoma)
ID	=	infectious disease/identification	LMP	=	last menstrual period
IDDM	=	insulin dependent diabetes	LNMP	=	last normal menstrual period
		mellitus	LOC	=	loss of consciousness/level of
IFC	=	intradermal carcinoma			consciousness
IG/Iq		immunoglobulin	ΙP	=	lumbar puncture / lichen planus
IHSS		idiopathic hypertrophic subaortic	Lt.		Latin
		stenosis			
IM/im	_	intramuscular	М		
IMV		intermittent mandatory ventilation	M	_	margin (generally of the skin)
INF		intravenous nutritional fluid	MAO		monoamine oxidase
IPPB		intermittent positive pressure	MAP		mean arterial pressure
1110	_	breathing	MAST		medical anti-shock trousers
IRRRR	_	incomplete right bundle branch	MBT		maternal blood type
טטטווו	_	block	MCH		mean cell haemoglobin
IRDM		insulin resistant diabetes	MCHC		mean cell haemoglobin
INDIVI	_	mellitus	IVIOLIC	17	concentration
IT		intrathecal	MCTD		mixed connective tissue disease
ITP		idiopathic thrombocytopenic	MCV		mean cell volume
III	=		MI		myocardial infarction/mitral
IV/iv		purpura	IVII	7)	insufficiency
		intravenous	ml /ml		millilitre
IVC	=	intravenous			
IV/D		cholangiogram/inferior vena cava	MLE		midline episiotomy
IVP	=	intravenous pyelogram	MM		malignanat melanoma maximal mid expiratory flow
J			MMEF		millimole
JN		i makimal manus	Mmol MMR		
		junctional naevus	MRI		measles, mumps, rubella
JODM		juvenile onset diabetes mellitus			magnetic resonance imaging
JVD	=	jugular venous distention	MRSA		methicillin resistant staph aureus
K			MS	=	multiple sclerosis/mitral
KA		l	MACCA		stenosis/morphine sulphate
		keratocanthoma			methicillin-sensitive staph aureus
KOR		keep open rate	MVA		motor vehicle accident
KP		keratous pilaris	MVI		multivitamin injection
KUB KVO		kidneys, ureters, bladder	MVV	=	maximum voluntary ventilation
NVU	=	keep vein open	N		
L			NAD		no active disease/ no
Ē		left	INAD	=	abnormality detected
_			NAS		
LAD	7	left axis deviation/left anterior			no added salt nerve conduction velocity
		descending	NCV		
LAE		left atrial enlargement	NED		no evidence of recurrent disease
LAHB		left anterior hemi-block	Ng		nanogram
LAP	=	left atrial pressure or leukocyte	NG		nasogastric
LDDD		alkaline phosphatase	MUUUIN	=	non-insulin dependent diabetes
LBBB		left bundle branch block	AUZA		mellitus
LDH		lactate dehydrogenase	NKA		no known allergies
LE	Ξ	lupus erythematosus	NKDA		no known drug allergies
LIH		left inguinal hernia	NMR		nuclear magnetic resonance
LK	=	lichinoid keratosis	nocte	=	at night

NPO NRM	=	nothing by mouth /nil by mouth no regular medications	PMI PMN		point of maximal impulse polymorphonuclear leukocyte
NSAID		non-steroidal anti- inflammatory	1 10114	_	(neutrophil, polymorph)
		drugs	PN	=	
NS	=	nervous system	PND	=	paroxysmal nocturnal dyspnea
NSR		normal sinus rhythm	PNS	=	peripheral nervous system
NT	=	nervous tissue / nasotracheal	PPD		pigmented purpuric dermatosis
0			PR		petechial rash
0			prn	=	given as required no set
OB		obstetrics	DO.		treatment regime
OCG		oral cholecystogram	PS		pulmonic stenosis
0D		overdose / right eye = on examination	PT	=	prothrombin time, or physical
OE / U		on examination otitis media	Pt		therapy patient
OOB		out of bed	PTCA		percutaneous transluminal
OP OP		out patients - hospital patients	FTUA	_	coronary angioplasty
OF	_	treated but not admitted	PTH	_	parathyroid hormone
OPV	_	oral polio vaccine	PTHC		percutanous transhepatic
OR		operating room	1 1110	5	cholangiogram
OS.		left eye	PTT		partial thromboplastin time
OU	=	both eyes	PUD		peptic ulcer disease
_			PUPP	=	
P					plaques of pregnancy
Р	=	para	PVC	=	premature ventricular contraction
PA	=	posteroanterior	PVD	=	peripheral vascular disease
PAC	=	premature atrial contraction			
PA02	=		Q		
Pa02	=	p	q	=	every (e.g. q6h = every 6 hours)
PAP	=	pulmonary artery pressure	qd		every day
PAS	=	periodic acid Schiff's stain	qh	=	every hour q4h, q6h every 4
PAT	=	pan and a pan a pa			hours, every 6 hours etc.
P&PD	=	harran harran managa	did		four times a day
Pb PC	=	Process of the contract of the	QNS Qod	=	4
PCWP	=	after eating pulmonary capillary wedge	Qs/Qt		every other day shunt fraction
FCVVF	=	pressure	Q5/Q1		total cardiac output
PD	=	· ·	Qί	_	total da diad dutput
PDA	_		R		
PDR	_	· ·	R	=	right
PDx	=		RA	=	rheumatoid arthritis or right atrium
PE	=		RAD	=	right atrial axis deviation
		exam / pleural effusion	RAE	=	right atrial enlargement
PEEP	=	positive end expiratory pressure	RAP	=	right atrial pressure
PFT	=	pulmonary function tests	RBBB	=	
Pg/pg	=	1	RBC		red blood cell
PHx		past history	RBP		retinol-binding protein
PI	f	pulmonic insufficeny disease /	RBS		random blood sugar
DIZLI		pulmonary index	RBT		random breath test
PKU		phenylketonuria	RDA		recommended daily allowance
pl.	=	plural	RDW		red cell distribution width
PMH	=	previous medical history	RIA	=	radioimmunoassay

RIH	=	right inguinal hernia	SLE	=	systemic lupus erythematous
RLL	=	right lower lobe	SMO	=	slips made out
RLQ	=	right lower quadrant	SN	=	spinal nerve
RML		right middle lobe	SO		standing orders
RNA		ribonucleic acid	SOAP		Subjective, Objective,
R/0		rule out	00/ !!		Assessment, Plan
ROM		range of motion	SOB	_	shortness of breath
ROS		review of systems	SQ		subcutaneous
RPG		retrograde pyelogram	SS		one-half /same side /signs and
RRR		regular rate and rhythm	33	_	symptoms
nnn RT		respiratory therapy / radiation	SSM		superficial spreading melanoma
ΝI	=		SSMM		
DTA		therapy	SSIVIIVI	=	superficial spreading malignant melanoma
RTA		renal tubular acidosis	OTAT		
RTC		return to clinic	STAT		immediately
RU		resin uptake	STD		sexually transmitted disease
RUG		retrograde urethogram	sup.	Ξ	and the second s
RUL		right upper lobe	supf.		superficial
RUQ		right upper quadrant	SVD	=	spontaneous vaginal delivery
RV		residual volume	Sx	=	symptoms
RVH	=	right ventricular hyperthrophy	+		
Rx	=	treatment / regime	T		
_			T&C	=	type and cross
S			TAH	=	total abdominal hysterectomy
S	=	without	T&H	=	type and hold (blood or serum
SA	=	sinoatrial			products)
SAA	=	synthetic amino acid	TB	=	tuberculosis
S&E	=	sugar and acetone	TBG	=	total binding globulin
SBF		subacute bacterial endocarditis	Td		tetanus-diphtheria toxoid
SBFT	=	small bowel follow through	tds		three times daily
SBS		short bowel syndrome	TIA		transient ischemic attack
SC		spinal cord / subcutaneously	TIBC		total iron binding capacity
SC		subcutaneously	Tid/td		three times a day
SCC		squamous cell carcinoma	TIG		tetanus immune globulin
SCr		serum creatinine	TKO		to keep open
SFB K		seborraeic keratosis	TLC		total lung capacity
SFM		systolic ejection murmur	TMJ		temporo-mandibular joint
SG			TNTC		too numerous to count
SGA		Swan-Ganz (catheter)			
		small for gestational age	TO TOPV		telephone order
SGGT	=	serum gamma- glutamyl			trivalent oral polio vaccine
		transpeptidase	TPN		total parenteral nutrition
SGOT	7	serum glutamic- oxaloacetic	TSH		thyroid stimulating hormone
		transaminase	TT		thrombin time
SGPT	=	serum glutamic- pyruvic	TTP	=	thrombotic thrombocytopenic
		transaminase			purpura
SIADH	=	syndrome of inappropriate	TU	=	tuberculin units / transurethral
		antidiuretic hormone	TUR	=	transurethral resection
Sig	=	write on label	TURBT	=	TUR bladder tumors
SIMV	=	synchronous intermittent	TURP	=	transurethral resection of prostate
		mandatory ventilation	TV	=	tidal volume
sing.	=	singular	TVH	=	total vaginal hysterectomy
SK	=	solar keratosis	Tw		twice a week
sl	=	sublingual	Tx	=	treatment, transplant

U			WO	=	written order /weeks old/ wide
UA	=	urinalysis			open.
UAC	=		WOP		without pain
UAO	=		WOS		wedge of skin
UBD	=	universal blood donor	W.P.		whirlpool
UC	=		WPW		Wolff-Parkinson-White (syndrome)
Ud		as directed	W-T-D		wet to dry
UFH		unfractionated heparin	W/U	=	workup
UGI	=	upper gastrointestinal	X		
URI	=	upper respiratory infection	X2d		times 2 days.
URQ	=	upper right quadrant	XI		eleven
URTI	=	upper respiratory tract infection	XII		
US	=	ultrasound	,		twelve
UTI	=	urinary tract infection	XL		extended release / extra large.
UUN	=	urinary urea nitrogen	XM		crossmatch
UVA	=	ultraviolet A light	XMM		xeromammography
		· ·	XOM		extraocular movements
V			XRT		X-ray therapy (radiation therapy)
VA	=	verrica / verrucous	XS		excessive
VAD	=	venous access device	XULN	=	times upper limit of normal
VC		vital capacity	v		
VCT		venous clotting time	Y		
VCUG		voiding cysourethrogram	У		years / yes
VDRL		Venereal Disease Research	YF	=	yellow fever
VDITE		Laboratory (test for syphilis)	YLC	=	youngest living child
VMA	_	vanillymadelic acid	уо	5	years old
VO		verbal order / voice order	YOB	F	year of birth
V/Q		ventilation - perfusion	yr	=	year
VRF		vancomycin-resistant	ytd	=	year to date
VIIL	_	enterococcus	_		
VSS	_	vital signs stable	Z		
VT		ventricular tachycardia	ZDV	=	zidovudine
VV		varicose veins	ZE	=	Zollinger-Ellison (syndrome)
VW		vessel wall	Z-ESR	=	zeta erythrocyte sedimentation ate
VWD		von Willebrand's disease	Zn	=	zinc
VVVD V7V		varicella zoster virus	Zn0	=	zinc oxide
VZV	=	Varicella Zoster virus	ZSB	=	zero stools since birth
W					
WB	=	whole blood	#	=	fracture / number
WBC		white blood cell / white blood	~	=	,
***		cell count	0	=	no (e.g. FFFT° = no fits, faints or
WBR	=	whole body radiation			funny turns)
WD		well developed	1º	=	primary
WF		white female	2°	=	secondary
WIA		wounded in action	9/12	=	nine months
WID		widow, widower	3/52	=	three weeks
WM		white male	5/7	=	five days
WN		well nourished	2/24	=	two hours
w/n		within	3/60	=	three minutes
			3/360	=	three seconds
W/0		without	3s		three seconds
WNL	=	within normal limits			

Common Histological Stains and their uses

Histology stains are a confusion of eponymous terms and methods used in individual laboratories. In many cases individual variations exist in different laboratories and it is advised that contact with the appropriate laboratory will give the medical professional the details they need, concerning their particular specialities and variations on these common stains. Those included here are those stains common to most labs and the principles behind the staining methods. There are many more and this list is by no means complete, also one stain may be used for many purposes eg the routine stain used in all labs. - H&E.

More details can be found in the A to Z of Histology / Histopathology, and the A to Z of the Skin and surface anatomy. See www.aspenatlas.com.

General Stains

Haematoxylin and Eosin (H&E)

This is an all round stain and used on nearly every section in the histology laboratory. The haematoxylin stains the nucleic acids and other acid material blue and the eosin acts as a counter stain to colour most other structures non-specifically red/pink, allowing an overall view of the cellular morphology. It generally not interfere with other stains and can be used in conjunction with them, for example with PAS.

PAS (periodic acid-Schiff)

This an all-around useful stain for many things. It stains glycogen, mucin, mucoprotein, glycoprotein, as well as fungi. A predigestion step with amylase will remove staining for glycogen. PAS is useful for outlining tissue structures: basement membranes, capsules, blood vessels, etc. It does stain a lot of things and, therefore, can have a high background. It is very sensitive, but not very specific.

Structures stained

AFB (acid fast bacilli) stain for mycobacterium

This stain uses carbol-fuchsin to **stain the lipid walls of acid fast organisms such as** *M. tuberculosis.* The most commonly used method is the <u>Ziehl-Neelsen method</u>, though there is also <u>Putt's stain</u>, <u>Kinyoun's method</u> a modification of which is the <u>Fite-Faraco stain</u> and has a weaker acid for supposedly more delicate *M. leprae* **bacilli**. Lipid is often removed in the processing, so this stain can be

insensitive particularly when looking in large granulomatous tissue. The most sensitive stain for mycobacteria is the <u>Auramine-Rhodamine stain</u> which requires a fluorescence microscope for viewing. There are things other than mycobacteria that are "acid fast". Included are *cryptosporidium*, *isospora*, and the hooklets of *cysticerci*.

Amyloid

Amyloid is a substance which can be found in all tissues pathologically. Although a fatty substance it is not fat but can be stained using <u>Congo red</u>, or <u>Lieb's Crystal Violet method</u>.

Biogenic Amine stains for Argentaffin cells

(Autofluorescence, Diazo, Fontana-Masson, modified Giemsa, Schmorl's Pascual's and Weisel's stains)

Cells that produce polypeptide hormones, active amines, or amine precursors (adrenalin = epinephrine, noradrenalin = norepinephrine) can be found individually (Kulchitsky cell of Gl tract) or as a group (adrenal medulla). The following is a traditional classification of the staining patterns based upon the ability of the cells to turn soluble silver nitrate to metallic silver - causing a black deposit in tissue sections.

Traditionally there are 3 patterns of staining although this is fairly artificial, as they are interchangeable when the fixative is changed. **Chromaffin** cells have cytoplasmic granules that appear brown when fixed with a dichromate solution as in the adrenal medulla and their tumours pheochromocytomas; **Argentaffin** cells reduce a silver solution to metallic silver after formalin fixation, as in carcinoid tumours of the gut. Using a pre-reduction step may cause a more intense stain. This is called an **argyrophil** (silver loving) reaction.

Blood smear stains

Romanowsky stains eg Giemsa stains, Wright-Giemsa stains

All these stains contain mixtures of methylene blue, azure, and eosin compounds. One property of methylene blue and toluidine blue dyes is metachromasia. This means that a tissue component stains a different colour than the dye itself. For example, mast cell granules, cartilage, mucin, and amyloid will stain purple and not blue, which is helpful in identifying these components, while using only the one stain.

Calcium (Ca) Stains

Ca bound to an anion, such as phosphate (PO_a) or CO_3 (carbonate) can be demonstrated with the <u>Von Kossa stain</u>. Ca forms a blue-black lake with haematoxylin to give a blue colour on H&E stain, usually with sharp edges. This stain is most useful when large amounts are present, as in bone.

<u>Alizarin red S</u> forms an orange-red lake with Ca. It works best with small amounts of Ca (such as in Michaelis-Gutman bodies). The Alizarin method is also used in analyzers to measure serum calcium photometrically.

Azan stain can be used to differentiate osteoid from mineralized bone.

Connective tissue stains (collagen, elastin, reticulin fibres and fibrin)

The <u>trichrome stain</u> helps to highlight the supporting **collagenous stroma** in sections from a variety of organs. This helps to determine the pattern of tissue injury. Trichrome will also aid in identifying normal structures, such as **connective tissue capsules of organs, the lamina propria of gastrointestinal tract, and the broncho-vascular structures in lung**. <u>Sirius red stain</u> is also used for **collagen** staining.

The <u>reticulin stain</u> is useful in parenchymal organs such as liver and spleen to outline the architecture. Delicate **reticular fibres**, which are argyrophilic, can be seen. A reticulin stain occasionally helps to highlight the growth pattern of neoplasms, by showing the dispersal of the normal fibrous architecture.

An elastic tissue stain such as the <u>Verhoff's van Giesen stain</u> or <u>Orcein-Giemsa stain</u> help to outline arteries, because the elastic lamina of muscular arteries, and the media of the aorta, contain elastic fibres, and if used with the <u>Masson stain</u> for collagen and muscle fibres provides a good contrast.

<u>Martius's scarlet blue stain</u> distinguishes **fibrin** from true connective tissues and should be used where there is extensive inflammation.

Exogenous pigments and minerals (asbestos, carbon, silica)
Asbestos is a special type of long-thin silica crystal, usually of the
mineral group chrysotile. In tissue, these crystals are highly irritative
and highly fibrogenic. The fibres become coated with a protein-ironcalcium matrix, giving them a shish-kebab appearance. These are
called "ferruginous bodies" because they are highlighted with <u>an iron</u>

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stain, such as Perl's iron stain, or the Prussian blue reaction. **Carbon** appears as anthracotic pigment in the lungs. It can be distinguished from melanin by doing a Melanin bleach, which helps to distinguish carbon from melanin. Poorly fixed tissues may contain formalin-heme pigment, which is black and finely granular, but this is widely scattered in the tissues without regard to cellular detail. Formalin-heme pigment is also birefringent on polarization.

Silica is present in many minerals and building materials. Most forms are very inert and cannot be stained in tissue but can be demonstrated by white birefringence on polarization. It is most often present in lung, but can make its way into lymph node.

Street drugs for injection often are diluted with compounds containing minerals such as silica or talc. These crystals can be found throughout the body, but especially in lymphoreticular tissues. Tattoo pigment is usually black and is inert and non-polarizable. Red tattoo pigment often contains cinnabar (which has mercury in it). there are no specific stains for these materials, and in general, minerals are best demonstrated by microincineration techniques or by scanning electron microscopy with energy dispersive analysis (SEM-EDA), which is also used in the analysis of gunshot residue, because of its composition of antimony, barium, and lead.

Fat stains

The oil red 0 (0R0) stain can identify neutral lipids and fatty acids in smears and tissues. Fresh smears or cryostat sections of tissue are necessary because fixatives containing alcohols, or routine tissue processing with clearing, will remove lipids. The ORO is a rapid and simple stain. It can be useful in identifying fat emboli in lung tissue or clot sections of peripheral blood.

Fungi stains

(Gomori methenamine silver stain = GMS)

Fungi and *Pneumocystis carinii*, have cell walls which stain black or brown, outlining the organisms clearly. Disadvantages with this stain is the large amount of background staining, so the morphology of the organism needs to be known. Fungi also stains red with the <u>PAS method</u> and blue with <u>H&E.</u>

Iron (haemosiderin) stains

Haemosiderin (storage iron granules) may be present in areas of old haemorrhage or be deposited in tissues with iron overload (haemosiderosis - physiological, haemochromatosis - pathological).

<u>Perl's iron stain</u> is the classic method for demonstrating iron in tissues. The section is treated with dilute hydrochloric acid to release ferric ions from binding proteins. These ions then react with potassium ferrocyanide to produce an insoluble blue compound (<u>the</u> Prussian blue reaction).

Lipochrome (lipofuschin) pigments - Age spots

These are the breakdown products within cells from oxidation of **lipids and lipoproteins.** They are the wear-and-tear pigments found most commonly in heart, liver, CNS, and adrenal cortex (zona reticularis). The less highly oxidized "ceroid" pigment of testis interstitium and seminal vesicle is another form of lipochrome.

Lipochrome can be stained by <u>Sudan black B, long Ziehl-Neelson acid fast, and Schmorl's methods</u>. **Lipochrome** may also exhibit a strong orange <u>autofluorescence</u> in formalin-fixed, unstained paraffin sections.

Melanin stains

The <u>Fontana-Masson</u> stain, relies upon the **melanin granules** to reduce silver nitrate (note, argentaffin, chromaffin, and some lipochrome pigments also will stain black as well). <u>Schmorl's method</u> uses the reducing properties of **melanin** to stain granules blue-green, but the most specific method is an enzyme histochemical method, <u>DOPA-oxidase</u>. DOPA substrate is acted upon by DOPA-oxidase in the **melanin-producing cells** to produce a brownish black deposit.

Bleaching techniques remove **melanin** in order to get a good look at cellular morphology. They make use of a strong oxidizing agent such as potassium permanganate or hydrogen peroxide. **Ocular melanin** takes hours to bleach, while **skin melanin** takes minutes. Formaldehyde-induced fluorescence can be used to highlight biogenic amines (chromaffin, argentaffin) and melanin in tissues. Formalin fixation imparts a strong yellow autofluorescence to unstained tissues with these substances.

Pseudomelanin of melanosis coli is <u>PAS positive</u> whereas true melanin is not. **Pseudomelanin pigment** is also found in **macrophages.**

Microorganisms - bacteria stains

<u>Gram stain</u> gram positive organisms stain purple and gram negative organisms stain red poorly. In H&E all bacteria appear as blue rods or cocci regardless of gram reaction. Colonies appear as fuzzy blue

clusters. **Spirochetes** are very difficult to stain. The best method is the <u>Warthin-Starry stain</u>. A <u>Giemsa stain</u> may help demonstrate **Donovan bodies and leishmania**.

Mucin stains

There are a variety of mucin stains, all attempting to demonstrate one or more types of mucopolysaccharide substances in tissues. The types of **mucopolysaccharides** are as follows:

- Neutral glands of the GI tract and in prostate. They stain with PAS.
- Acid (simple, or non-sulphated) are in epithelial cells containing sialic acid. They stain with <u>PAS, Alcian blue</u>, colloidal iron method, and metachromatic dyes.
- Acid (simple, mesenchymal) found in tissue stroma and sarcomas - These contain hyaluronic acid. They stain with Alcian blue, colloidal iron, and metachromatic dyes.
- Acid (complex, or sulphated, epithelial) These are found in adenocarcinomas. PAS, Alcian blue, colloidal iron, mucicarmine, and metachromatic stains are positive.
- Acid (complex, connective tissue) found in tissue stroma, cartilage, and bone and include substances such as chondroitin sulphate or keratin sulphate. They stain with Alcian blue.

There are a variety of stains for mucin:

- Colloidal iron ("AMP") stain acid mucopolysaccharides.
- · Alcian blue stains all mucins using a variety of methods
- PAS (peroidic acid-Schiff) stains glycogen as well as mucins
- Mucicarmine specifically stains epithelial mucins.

The mucin stain with the most specificity is <u>mucicarmine</u>, but it is very insensitive. PAS is most sensitive but least specific <u>Colloidal iron stains</u> are unpredictable. <u>Alcian blue stains</u> are simple, but have a lot of background staining.

Urates

Uric acid crystals are seen in acid urine. In tissue, urates are present as **sodium urate**. They are soluble in aqueous solutions and slightly soluble in weak alcoholic solutions. Therefore, tissues must be fixed in 95% or absolute alcohol to prevent leaching of urates.

Methenamine silver stains urates black. Sodium urate crystals are also birefringent on polarization.

Common Exogenous materials found in tissues

substance	usual site	origin
aluminium	lungs skin	air / mining
asbestos	lungs	air / asbestos building materials / mining
beryllium	lungs, skin	mining
carbon	lungs, skin	gas emissions Traffic, smoking
fungal spores	lungs, skin, hair	mould, fungi, gardens
lead	kidney, bone, lungs, mucosal linings	paint, mining
silica	lungs, skin	glass, fibroglass material
silver	nasal passages, respiratory mucosa, skin	photography materials, silver, mining



How to use the Pronunciation guide in this glossary

Words are written in Bold with a (bracketed guide) listed afterwards in English sounds - the syllables in CAPITALS are the syllables emphasized in the pronunciation of the word.

Words with a guide are often listed twice the pronunciation guide is first and the etymology or derivation of the word is then listed next with further explanation if necessary.

Please note spelling is both English and American with cross reference to each. With the inclusion of prefixes and suffixes where necessary, their simple pronuciation guide is backeted after their inclusion. It is not listed in the front guide.

Guide to Naming muscles

Most skeletal muscles are named based on one or more criteria

- 1 the direction of the muscle fibres eg rectus meaning straight (running parallel to an anatomical line -<u>Rectus Abdominus</u> parallel to the abdominal midline) as opposed to oblique or transverse.
- 2 location where the muscle os located generally the associated bone eg <u>Temporalis</u> near the Temporal bone
- 3 size or series ie in a series of closely related muscles is it the largest maximus or the smallest minimus (gluteus maximus, gluteus minimus) or with only 2 the larger, major or the smaller minor eg Pectoralis major and Pectoralis minor. Maybe it is the longest, longus or the shortest, brevis or the first second or third prima, secondo, tertius.
- 4 **number of origins** eg <u>Biceps</u> which has 2 origins as opposed to <u>Triceps</u> which has 3.
- 5 insertion and/or origin where the muscle inserts and originates eg <u>Sternocleidomastoid</u> giving in the name the insertion and the origins of this muscle
- 6 action muscles are named for their actions in which case there is frequently an opposing muscle named to demonstrate this purpose: flexors extensors / abductors adductors / supinators pronators / depressors elevators / tensors rotators.

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ummary of prefixes, word roots and suffixes

Prefixes	Word root	Suffixes
A-: without / no	abdomin- abdomin, belly	-ac /aceous: pertaining to
Ab-: away from	acanth- spiny, thorny	-acousia: condition of hearing
Ac- /Ad-: towards /near	acar- mite, itch	-ac: state or quality of
Acu-: sharp /sudden	acet- vinegar	-ad: towards
	acetab- saucer	
	acou- hearing	
	acr- extremities	
	actin- ray	
	aden- gland	-adeni: state of glands
	adenoid- glandlike	
	adip- fat	
Af- / Ag-: near /going to	aemia- blood	-aemia /-emia: blood
	aer- air	-aethesia/-esthesia: condition
		involving sensation
	aesthesi- feeling, perception	-adol: an analgesic
	aeti- cause	-age: rate action or process
	ala- wing	-agnosia: loss of ability to know
Alb-: white	alg- /algesi- pain	-agra: pain or painful seizure

								The	e A to	o Z (of An	aton	nical	Hist	olog	ical a	and	Med	ical t	terms
-al: pertaining to	-ance /-ancy: quality or state	-algesia /-algia: sensitivity to pain	-arche: beginning	-ary: pertaining to													-aster: star shaped	-asthenia: weakness	-ate: to use /act like /subject to	-atresia: condition of occlusion
aliment- nourishment	alveoli- air sac	amm- sand	amnio- with foetal membranes	amyl- starch	andr- man	angi- blood vessel	an- anus, anal	anth- floral	anthrop- man, human	antr- antrum, sinus	aqua- water	argyr- silver	arrhen- man, male	artereo- artery	arthr- joint	articul- joint surface	aster-, astr- star	ather- fat	atm- gas, atmosphere	atri- waiting room
All-: other different	Ambi-: both	Ambly-: dull	Ametri-: disproportionate	Amphi-: both sides, both, double	An-: without /lack of		Anis-: unequal / dissimilar	Anomalo-: unequal, abnormal	Ante-: before	Anti-: against	Anykl-: bent, crooked, looped					Apo-: away from, detached		Asthen-: weakness	At-: towards	Atel-; imperfect

Prefixes	Word root	Suffixes
Atreto-: imperfect /imperforate, closed	audi- hearing	-atrophia: condition of malnutrition / wasting
Auto-: self	aur- ear, ear shape	-aux/-auxe: enlargement
Aux-: growth, increase	auri- gold	
	axi- axis, axial	
	axilla- armpit	
	azot- nitrogen, urea	
Ball-: throw	balan- glans penis	
Bar-: pressure	bar- pressure, weight	-biosis / -biotic: life
Basi-: base, foundation	blenn- mucus	-blast: bud forming / immature / embryonic
Bi- /Bin-/ Bis-: two	blephar- eyelid	-blepharia: re the eyelid
Brachy-/Brevi-: short	brachi- arm / upper arm / gill	-blepsia/ -blepsy: condition of sight
Brady-: slow	branchi- gill	-brachia: to do with the arm
	bronchi- air transport in the lung / branch -bund: prone to	-bund: prone to
	bucc- cheek	
Cac-: diseased, abnormal	calc- heel / lime /calcium	-cace: bad / diseased / deformed
	calor- heat	7.7.
	canth- slit for eyelids	
	capill- small tube or hair	

PREFIXES, WORD ROOTS, SUFFIXES

								The	e A t	o Z (of An	aton	nical	Hist	olog	ical	and	Med	ical †	terms
			-carcinoma: cancer of the epithelial cells	-cardia: to do with the heart	-cathartic: cleaning								-cele/ -coele: hernia, tumor or swelling	/cavity of the body	-centesis: puncture	-centric: with a centre	-cephalia: to do with the head	-cerebral: pertaining to the brain	-chesia: pertaining to faeces defecation	
capit-/ caput- head	caps- capsule	carcin- cancer of epithelial origin	cardi-/ cardio- heart	carp-/ karp- wrist	cary-/ kary- nucleus	case- cheeselike	caus-/ caut- burn / burning	caud- tail	caul- stem	cav- cavity, hole, hollow	cel-/ coel- cavity / something coming	through a hole e.g, a hernia			centr- central	cephal-head	cer- wax	cerat- cornea/ horny tissue	cerebell- little brain	cerebr-brain
	Cat-/ Cath-: down / against										Cen-/ Coen-: general									

PREFIXES, WORD ROOTS, SUFFIXES		
Prefixes	Word root	Suffixes
	cervic-, cervix- neck	
	chal-copper	-cerebral: pertaining to the brain
	chancr- rotting, growing abnormally, cancer -chesia /chezia: to do with defecation	-chesia /chezia: to do with defecation
(cheil-/ chil- lip	-chondria: condition of worrying about a
		disease
7	cheir /chir- hand	-chromasia: condition of colour
	chol- bile / gall bladder	
	chondro- cartilage	
	chord- cord, string	
	chrom- coloured	
	chron- time	
	chyle- digested food / fats	
	cili- eyelash / eyelid	-chylia: condition of digestion
Circum-: around, circular / surrounding	cilia- hairlike / hair	-cide: to kill killer
Cirrho-: yellow	cine- movement	
Cis-: on this side / on the same side	clast- breaking / an instrument which breaks	3.5
Cleist- /Clist-: closed	cleid- clavicle	-clasia /-clasis /-clast /-clastic: crushing or
		breaking up
	clin- to bend	-cle: little diminutive
Co-/ Col-/ Com- / Con- /Cor-: together with col-/coel- colon	col-/coel- colon	-cleisis: closure, conclusion

Contra-: against	colp-/ kolp- vagina	-clonia: re spasms
	con-/ kon- dust / together, with	-cnemia: condition of leg below the knee
	cor-/ coron- heart / crown	-coccus: berry shaped
	core- pupil	-comma: a piece of something
	corp- body	-crania: re the head
Cryo-: cold	cost- rib	-crasia: a condition of / a mixture
Crypto-: hidden	crani- skull	-cratia: re incontinence
Cyano-: blue	cresc- to grow / to expand	-crine: secretion eg glandular
	crur- leg	-cule/- culum/-culus: diminutive
	cusp- point	-current: running, flowing
	cutis- skin	-cusis: hearing
	cycl- circle /cyclical	-cyst/- cystic: bladder / fluid filled sac
	cry-/kry- frost	-cyte: cell / mature cell
	cyst- bladder / sac of fluid	-cythemia / cythaemia: condition of cells of the blood
	cyt- cell	
De-/Des-/Dis-: remove, undo	dacry- tears	
Demi-: half	dactyl- fingers/ toes	-dactyl: condition of fingers or toes
	dem- people	-demic: relating to a region
	dent-/ dont-/odont- tooth, toothlike, teeth	-dendron: treelike formation

PREFIXES, WORD ROOTS, SUFFIXES		
Prefixes	Word root	Suffixes
	der- neck	-dermia: skin
Dextra-: right	derm-/ dermato- skin	-desis: binding / fixation
	desm- bond / bind / ligament	-desma: bridging or connecting
Di-: two	digit- finger / toe	-dipsia: thirst
Dia -: through / between / apart	dors- back	-dontia: to do with teeth
Diplo-: double / twin		-drome: that which follows a specifc path
Dis-/ Dys-: difficult / wrong / incorrect		-dynamia /-dynamy: strength, power
Duo-/ Dy-: two	dur- hard	-dynia: condtion of pain
E-/Ec- / Ecto: outside / external		
Ectro-: absence / congenital	echin- spikey	-eal: pertaining to
Ef-: move away / go away / outside	ec- house	-ectasia /- ectasis /- ectasy: expansion
		stretching
Em-/en- /endo-: within inside	ele-/eole- oil	-ectomy: excision of / cutting out
Ent-: inner within	emet- vomiting	-ectopia: out of place
Ep-/ epi-: upon, in addition to, over	encephalo- brain	-edema /oedema: swelling
Equi-: equal	entero- gut / intestine / GIT	-eidos: shape, form
Eryth-: red	episi- vulva	-ellum: small, diminutive
Eso-: within, inside	erg-work/activity	-emetic: pertaining to vomit
		-enchyma: nourishing of cells and structures
		,

								The	e A to	o Z (of An	aton	nical	Hist	olog	ical	and	Med	ical 1	erms
-eous: composed of / like	-ergetic/-ergic: effect of activity	-ergy: effect or result	-escent: become like / emmiting light	-esis: action / process or the result of	-fast: securely attached confined	-febrile: feverish	-ferous: bearing	-fibroma: benign tumour of fibrous tissue	-flect / -flex : to bend	-fluent: to flow	-form / forme: to have a shape	-fuge: to drive away						-gamy: marriage, union	-gen: that which generates	-genesia: condition concerning information
	lesire					fasci- band or sheet (of CT)			fibr- fibrers / to do with fibres		cleft	foet-/ fet- to do with foetus	opening		40				t	nach
ergy- action	erot- love desire				faci- face	fasci- band	febri- fever	ferr- iron	fibr- fibrers	fila- threadlike	fiss-split / cleft	foet-/ fet- to	for place / opening	fract- break	fus-spindle		galact- milk	gam- union	gangli- knot	gastri- stomach
		Eu-: normal, well	Ex-/ exo-/extro-: external, outside, protruding	Extra-: in addition to							Flav- : yellow	Fore-: before, in front of			Fund-: to pour / the body of					

	PREFIXES, WORD ROOTS, SUFFIXES		
27	Prefixes	Word root	Suffixes
		gemin- twin	-genisis: origin
		gen- race /sexual/ reproduction	-genia: condition of the jaw
		geni- chin	-genic: origin , formation
		genu- knee	-geusia / geustia: to do with taste
		geny- under the jaw	-glia: to glue, stick, adhesion
	Ges-: to carry, bear	ger-/ geri-/ geront- old / aged	
		gingivi- gum	
		glia- glue / gluelike	-gluten : glue
		gloss-/glosso- tongue	-glossia: to do with the tongue
		glyc-sweet/sugar	-glycaemia: condition of sugar in the blood
	Gravis-: heavy	gnath- jaw	-gnathia: condition of the jaw
	Gymno-: naked	gn- know / discem	-gnomy: science of judging
		gon-/ knee / sexual /semen	-gnosia: condition of knowing
		goni- corner / angle	-gony: birth origin
		gran- grain-like/ granular	
		gravid- pregnancy	
		gyn/gyno/gynaeco- female	-gyne: female characterisitcs
0			
A. L.	Hapl-: single	haeme-/heme- blood	
Neill		hallux- big toe	

Hemi-: half	hel- horn /corn	
Hetero-; different	helc- ulcer, sore	
Holo-: entire, whole	heli- sun	
Homo-/ Homeo-: same / level	helic- spiral	
Hyper-: excessive	hepat- liver	
Hypo-: less than normal	hidr-/ hidro- sweat	
	hier- sacrum	-hydat : water
	hist/ histo- tissue	-hydria: fluid level in the body
	horm- to stimulate	
	hyal- glasslike, glassy	
	hydr- water, wet / hydrogen	
	hyster -uterus	
II- : negative, against		
lm-/ ln- : in, into/onto/ no, non	iatro- to treat	-iatric: to treat / cure
Infra-: below, beneath / inside	icter- jaundice	-iatrician; physician / healer
Inter- : between	ide- mind	-iatry: specific type of medical condition
Intra-: within	idi- distinct / separate	-ible: ability, capacity
	ili- pertaining to the flank or lower abdomen -ic /ical/: pertaining to / similar to	-ic /ical/: pertaining to / similar to
	ima- below, beneath, the lowest	-id: state or condition, structural element of
	inguin- groin	teeth

Prenxes	Word root	Sullixes
	ini- back of the head	-ism: resulting from practice or theory of
Ithy-: straight	insul- island	-ismus: spasm /contraction
	irid- iris of the eye, rainbow colours	-ist: agent, person, practitioner
	isch- suppression / stoppage	-itic: relating to
	ischi- hip	-ium: diminutive
	jug- yoke	
	jugu- throat / neck	
Juxt-: next to	juxta- next to	
	kali- potassium	-kinesia: condition relating to movement
	kaps- capsule	-kinesis: division of cells / activation
	kary-/cary- nucleus	
	kerato- hormy	
Koilo-: hollow / concave	kinesi- movement	
	kolp-/colp- vagina	
	labi- lip	-labial: pertaining to the lips
Laevo-/levo-: left	lac- milk	-labile: unstable changeable
Leio-/lio-: smooth	lacri- tears	

PREFIXES, WORD ROOTS, SUFFIXES

lal- talk / babble -lalia: condition involving speech	lamina- layer, veneer -lemma: sheath, envelope / confining membrane	lapar- abdominal cavity	lapis- stone	Jaryng- voice box/voice		lat/later- side -lepsis /-lepsy/ -leptic: seizure	lex- read -lexia: reading conditions	lien-spleen	lim- hunger	lingu/lingua- tongue/tonguelike	lip- fat	lith- stone	loc- place	luc-/leuc- light /white/ pale	lue- syphilis	lumb- loin / lower back -lucent: light admitting	lumin- light/ cavity / channel	luna- moon -lymph; clear fluid	lvc- wolf
lal- talk / babble	lamina- layer, veneer	lapar- abdominal cav	lapis- stone	laryng- voice box/voi		lat/later- side	lex- read	lien- spleen	lim- hunger	lingu/lingua- tongue/	lip- fat	lith- stone	loc- place	luc-/leuc- light /whit	lue- syphilis	lumb- loin / lower ba	lumin- light/ cavity /	luna- moon	Ivo- wolf
Lep-: to take or seize	Lepto-: thin, narrow / small		2/		Leuco-/Leuko/Luco-/Luko-: white/	colourless/ pale				Liga- bind together			Longus-: long	Loxus-: oblique					

Prefixes	Word root	Suffixes
	ly- dissolve	-lyse/-lyze/-lysis: to decompose / to breakdown
	lys- disintegrate	-lytic: production of / decomposition
Macro-/ Makro-: large	malar- cheek bone	-ma/ -mata: result of an action
Magna-: huge	mamm- breast	-malacia: softening
Mal-: bad	man- hand	-mancy: divination
Malac-: soft	mania- obsession	-mania: obsession, compulsion
	mast-/mastoid-/maz- breast/ breastlike	-manic: specified pyschosis
	maxilla- upper jaw	-mastia/ -masty /mazia/: re the breast
Medi-/ Mes-: middle	maz- breast	-megaly: enlargement
Meg-/ Megalo-: large, great	meat- opening /hole	-melia: re the limbs
	mel- cheek / limb / member	-mentia: re the mind
Meio-/ Mio-: reduced, contraction	melan- dark / black	-mere/ -mer / meria: part of / condition of
		the parts
Meli-: sweet/ honey	men- periods, menstruation, menses	
Meta-: subsequent transformation	mening- membrane	-meter: measurement
	menisci- disc / crescent	
	ment- mind / chin/	
	mer- part	
	metop- forehead	

PREFIXES, WORD ROOTS, SUFFIXES

								The	e A t	o Z (of An	ator	nical	Hist	olog	ical	and	Med	ical	terms
-metria: re the uterus	-metry: re measuring	-mimesis: imitation / simulation	-mittent: send	-mnesia: re the memory	-moria: condition of dementia	-motor; effects of activity			-myelia: re the spinal cord							-nephric: re the kidney	-neural: re nerves structurally	-neuria: a condition of nerves		
metr- mother, uterus	micr- small /abnormally small	mit- threadlike	mnem- memory	morph- form	mot- movement	muc-/myx- mucus	my- muscle	myc- fungal	myel- bone marrow /spinal cord	myl- molar	myring- eardrum		narc- stupor	naris- /nas- nose	necr- death	nephr- kidney	neuro- nerve / brain	noci- pain	nod- knot	
	Micro-: small	Mid-: middle	Mis-: hatred	Multi-: many											Necr-: death	Neo-: new				

																			u L		
	Suffixes								-odontia: treatment of teeth		-oedema: condition of swelling	-oid: resembling / form	-ol: oil		-oma: mass, tumour, lump, swelling		-on: unit		-opia/-opsia /-opy: condition of vision	-orexia: condition of appetite	-osmia: sense of smell
	Word root	nos- disease	not- back	nucha- neck, nape of neck		occipit- back of the head	occlus- to close or shut up	ocul- eye	odont- teeth	odyn- pain, distress	oedem-/edem- swelling	olfact- smell	om- shoulder	omphal- navel	onc-tumour, mass, swelling / bulk / hooked -oma: mass, tumour, lump, swelling	onych-/onyx- nail	0-/00-/0vi- egg/ovum	ooph-/ oophor-/othec- ovary	ophthalm- eye	ops-/opt-/optic- eyesight	orb- sphere
PREFIXES, WORD ROOTS, SUFFIXES	Prefixes				()	Ob-/ Oc-: against			Oes-: inside, internal			Olig-: scant, few									
	33																		0	A. L	. Neill

The A to Z of Anatomical Histological and Medical terms														erms						
	-otomy: removal of				-osteon/ -osteum: bone	-otia /otic: ear		-pachy: thickening	-paedic/-pedic: children	-path :individual; suffering from a disease /	individual treating a disease using a system	-pathetic: relating to emotions				-pathy: disease of / therapy	-pede /-ped: number of feet	-paenia/ -penia: deficiency of	-pepsia /-peptic: state of digestion	-phagia: eating / desire to eat -
orch-/orchid- testis	or-/ora- mouth	os- mouth/ bone	osche- scrotum	osm- odour/impulse/osmosis	oss-/osteo- bone	ot- ear	S	paed-/ped- child		palat- roof of the mouth		palpebra- eyelid /eyelash	palpit- flutter		papilla- nipple	part- childbirth	path- disease	pect-/pector- chest, breast. / thorax	ped-/pes- foot	petr- stone
		Ortho-: straight, correct, normal						Pachy-: thick	Paleo-: ancient old	Pali-: repetition recurrence		Pan-: everything	Par-/ Para-: against / aside /	nearby / abnormal	Parvi-: small	Per-: through	Peri-: around / surrounding	Pero-: stunted		

Prefixes	Word root	Suffixes
Phan- /Phas- visible / speak	phac-/phak- lens	-phasia /-phemia: re speech
Phen-: light, bright	phag- eater, to eat	-philia /-philic /-phily: love of, affinity with
	phalan- fingers / toes	-phobe /-phobia: resisting / avoiding,
		fearing, dreading
	phall- penis, penile	-phoresis: transmission
	phas- speech	-phoria: tendancy to /emotional state/ visual
		ахеѕ
Phleg-: inflammation	phleb- vein, veinous	-phragm: separation
	phren- mind	-phrasia: re speech
	physi- natural	-phrenia: re the mind
	pil- hair	-phrenic: re the diaphragm
Plan-: flat	plantar- sole of the foot	-phyisis: growth, growing
Plat- /platy-: flat/ broad, wide	plas- grow and form	-plakia: patches on membrane
Pleo-: many	pleo- many	-plasia: condition / formation
Pluri-: many more	pleur- walls of the lungs, thorax	-plasty: repair of / involving surgery
Poikilo-: irregular / abnormal	plic- fold ridge	-plegia /-plegic: paralysis
Polio-: grey	pne-/pneum- breath, air, lungs, gas	-plex/-plexus: network
	pod-foot	-plexia /-plexy: condition resulting from a
		stroke
	pollex- thumb	-pnea/-pnoea: beathing, re respiration

PREFIXES, WORD ROOTS, SUFFIXES

								1116	a A U	υ Z (JI A[]	idlUl	nical	nist	olog	icai	aliu	iviea	ıcaı	terms
-podia: re feet	-poeisis: formation / development	-pore: passageway		-proctia: re the anus	-prosopia: re the face	-pterygium: re the conjunctiva	-ptosis: downward displacement			- ptysis: spitting		-pubic: frontal part of the pelvis	-pulsion: push		-pyrexia: re fever					
poples- posterior part of the knee	pont- bridge	por- passage / pore/ callus	presby- old	proct- anus, anal / rectum	prosop- face	psor- to itch	psych- mind	pter- wing / feather	ptoma- corpse	ptyal- saliva	ptysis- to cough or spit	pub- adult	puer-/pueb- child/infantile/ undeveloped	pulm- lung	pur-/py-/pyron- pus,	pyel- renal pelvis / kidney		rachi- spine	radi- radiation, ray	radi-/radicul- root/ tooth / nerve
	Poly-: many	Post-: after		Prae-: in front of / young	Pre-: before	Presby-: old	Prim-: first	Pro-: before, in front of		Pronus-: face down	Pseudo-: false			Quad-: four						

PREFIXES, WORD ROOTS, SUFFIXES		
Prefixes	Word root	Suffixes
Re-: return / again / contrary	rami- branch	
Retro-; behind / go back	rect- rectal / straight	-rrhagia/-rhagia: excessive flow/ rupture
Rhabdo-: striped	ren- kidney	-rrhea /-rrhoea: flow, discharge
Rhod- / Rub-: red	rhabdo- stick, straight /rod	-rrhaphy: suturing in place
	rhachi- spine, vertebral column	
	rhe- flow	-rrhea: flow
	rhig- stiff / cold	
	rhin- nose /noselike	
	rhiptid- wrinkles	
	rhiz- root	
	rost- beck	
	rot- to turn	
		4
Schiz-: split	sangui- blood	
Scirrho-: hard	sanita- health	
Sclera-: hardening	sapr-/seps- decaying	-scelia: re legs
Scolio-: twisted	sarc-/sark- muscle / network / flesh	-sclerosis: hardening
Semi-: half	scaph- boatlike	
Sicc-: dry	scat- faeces, dung	

Sinistro-: left	scel- leg	
Spano-: few / scant	schist- split, fissured /cleft	
	schiz- divided	
	scia-/skia- shadow	
	scolec- worm	
	scope- examine	
	scyt- skin	
	sect- to cut	-sect: to cut
	sens- perception, feeling	-sepsis: condition of decay
	seps- decay	
	sept- wall /to separate/ border	
	sial- saliva	
	sider- iron	
	sin- hollow cavity	
	soma-/somatic- body	
	somn- sleep	
	spasm- tighten / straighten, cause rigidity	-spasm: involuntary contraction
	sperm-/spermato- seed	
Spheno-: wedge	sphen- wedge	
Spiro-: coil	sphym- pulse	-sphygmia: condition of the pulse
	spin- spine	

Prefixes	Word root	Suffixes
	test- testimony, witness / testicles	
	thec- sheath	-therapy: re treatment
	thel- nipple	-thetic: to put, to place
	thely- female	-thymia: re the mind and emotions
	thenar- palm of hand /sole of foot	-trichia: re hair
Thyr-: shield	therap- treatment, cure	
	thix- touch	-tomy /-tome /-tomic: re incisions, cutting
Trachy-: rough	thora- chest	-tonia: re muscle contraction
Trans-: across	thrix- hair	-tresia: perforation
	thromb- clot, lump	
	thym- thymus, mind or spirit	
	top- place /to place	
	tox- poison	
	trachel- neck windpipe	
	tract- draw, drag	
Trop-: turn / change	troph- food / to feed	
	typ- model	
		7
Ultra-: beyond	ul- gums / scar	
	ungu- nail	

PREFIXES, WORD ROOTS, SUFFIXES

															- Sui	a. Id IV	Juliu	l term
			-verse: to change	-vorous: re eating										-zoite: simple organism	-zyme: re enzymes			
	ur-/ urin-/uron- urinary tract	uter- uterus	vas- vessel / duct	ven- vein	venter- belly / hollowed part	ventr- front	vermi- wormlike	vesic- bladder / blister	vir- virus	viscer- internal organs	vivi- living	xen- different foreign	xiphi- swordlike	zyg- yoke / union / pair				
Uni-: single - one								Volv-: turn			Xanth-: yellow	Xero-: dry						

Common organ specimens sent to Pathology Laboratories

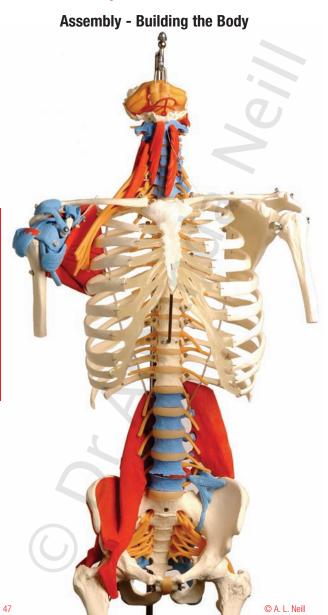
Tissue / Organ (Specimen types)	Non-Tumor Pathology	Tumor Pathology
Appendix (appendectomy)	appendicitis mucocele	carcinoid tumor 1° or 2° tumor (rare)
Artery (Bx)	arteritis atheroma aneurysm	chemodectoma (eg. carotid body tumor)
Bladder (Bx / cystectomy)	cystitis diverticulae fistulae tuberculosis schistosomiasis	transitional cell Ca SCC adenocarcinoma
Bone / Bone Marrow (Bx)	osteoporosis osteomalacia osteomyelitis Paget's disease	osteochondroma myeloma metastatic tumor (eg breast, bronchus, thyroid, prostate, kidney)
Breast (Bx / mastectomy)	cysts fibrocytic disease abscess fat necrosis	adenoma fibroadenoma adenocarcinoma Paget's disease of the Nipple
Bronchial (Bx)	inflammation squanous metaplasia	SCC oat cell Ca
Cervix (cone Bx / punch Bx)	inflammation dysplasia (CIN)	SCC SCC CIN genital warts
Colon / Rectum (Bx / colonectomy)	UC Crohn's disease amyloidosis fistulae amoebiasis diverticular disease	adenomatous polyps adenocarcinoma lymphoma polyps
Endometium (Bx / curettings)	endometritis abnormalities of the menstral cycle hyperplasia	adenocarcinoma sarcomas polyps

Epididymis (Bx)	cysts inflammation tuberculosis	adenocarcinoma				
Fallopian tubes (Bx / salpinectomy)	salpingitis ectopic pregnancy endometriosis	adenocarcinoma				
Gall bladder (Bx/cholecystecomy)	cholecystitis calculi	adenocarcinoma				
Joints / Tendons / Synovial membrane (Bx / curretings)	arthritis crystal synvitis (eg gout)	sarcoma				
Kidney (Bx / nephrectomy)	amyloidosis glomerulonephritis pyelonephritis cysts calculi tuberculosis	adenocarcinoma transitional cell Ca - pelvis				
Larynx / Vocal Cords (Bx)	laryngeal nodules inflammation	polyps SCC				
Liver (Bx / lobectomy)	hepatitis cirrhosis obstructive jaundice sarcoidosis amyloidosis storage disorders	hepatocellular Ca lymphoma 2º tumor (eg. breast, colon, pancreas and stomach)				
Lung (Bx / pneumonectomy)	pneumonia	SCC oat cell Ca adenocarcinoma 2º tumor (eg. bone, breast and brain)				
Lymph node (Bx / radical removal of LN group)	reaction to inflammation tuberculosis sarcoidosis	Hodgkin's lymphoma / non-Hodgkin's lymphoma 2º tumor (eg. breast, colon, lung, testis)				
Muscle (skeletal) (Bx)	myopathies neuropathic atrophy	rhabdomyosarcoma				
Nasal mucosa (Bx)	inflammation	mucoepidermoid Ca polyps SCC				

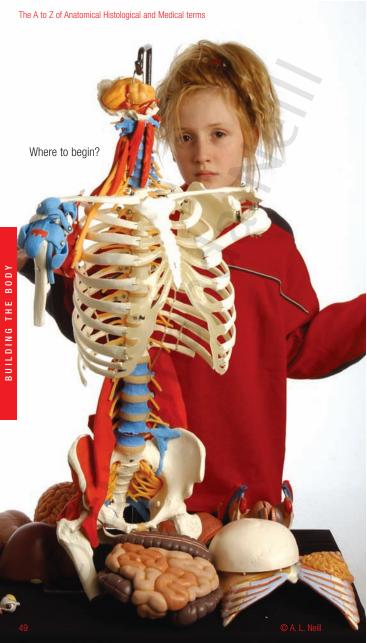
The A to Z of Anatomical Histological and Medical terms

Oral cavity (Bx)	cysts (dental) inflammation	polyps salivary gland tumors - adenocarcinomas SCC					
Oesophagus (Bx)	oesophagitis strictures ulceration (peptic)	SCC					
Ovary (Bx / oophrectomy)	cysts endometriosis	benign and malignant tumors of respective tissues epithelium = mucinous cystadenoma stroma = thecoma germ cells = dermoid cyst, dysgerminoma 2° tumor (eg. stomach)					
Pancreas (Bx)	cysts pancreatitis	adenocarcinoma (exocrine) apudomas (endocrine)					
Parathyoid gland	hyperplasia	adenoma					
Placenta / umbilical cord	malformations infarctions	choriocarcinoma hydatiform mole					
Pleura (Bx)	inflammation tuberculosis sarcoidosis	mesothelioma 2º tumor (eg. breast, lungs)					
Prostate gland (Bx / prostatectomy)	hyperplasia prostatitis	adenocarcinoma					
Salivary gland (Bx)	calculi sialoadenitis	adenolymphoma (Warthin's) mucoepidermoid tumor pleomorphic adenoma					
Skin / hairy skin (Bx / punch Bx / curettings / shaves / ellipsoid excision / Mohs sections)	cysts dermatitis reactive changes fungal infections alopecia psoriasis	adenocarcinoma BCC carcinoid tumor CIN - Bowen'sdisease lymphoma melanoma naevi skin tags / polyps SCC warts					

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Small intestine (Bx / resection of the small bowel partial or complete)	Crohn's disease coeliac disease diverticulae infarction	adenocarcinoma carcinoid tumor lymphoma
Spleen (Bx / splenectomy)	amyloidosis hypersplenism syndromes thrombocytopenic purpura traumatic rupture	lymphoma leukaemia
Stomach (Bx)	gastritis peptic ulceration	adenocarcinoma leimyoma lymphoma
Testis (Bx / orchidectomy)	hydrocoele orchiditis tuberculosis	lymphoma teratoma
Thyroid (Bx / thyroidectomy)	nodular goitre Hashimoto's thyroiditis thyrotoxic hyperplasia	adenoma adenocarcinoma leiomyoma (fibroid) medullary carcinoma (+ amyloid)
Uterus (Bx / hysterectomy)	abnormal cyclical bleeding adenomyosis endometriosis	leiomyoma (fibroid) adenocarcinoma (of endometrium)
Vulva (Bx / excision)	dysplasia inflammation leukoplakia	SCC CIN warts







The A to Z of Anatomical Histological and Medical terms

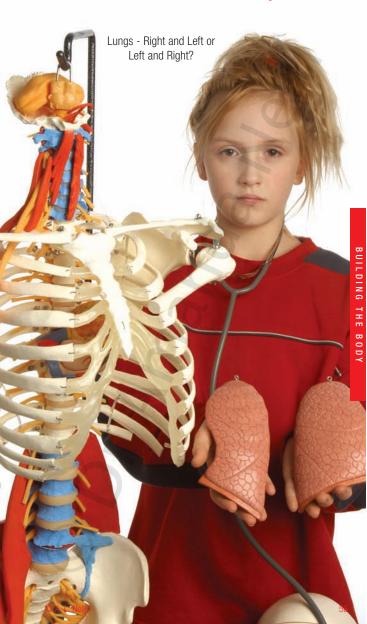


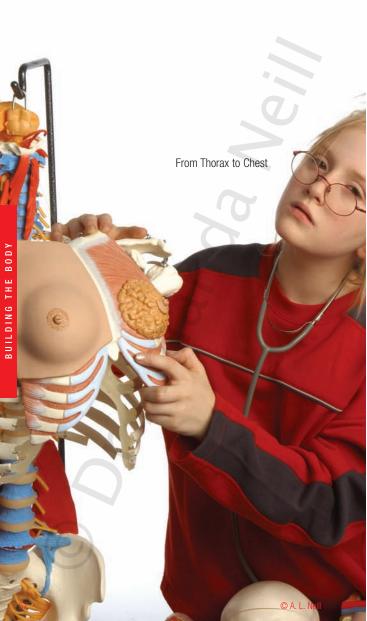
The A to Z of Anatomical Histological and Medical terms Oh ... have a Heart! BUILDING THE











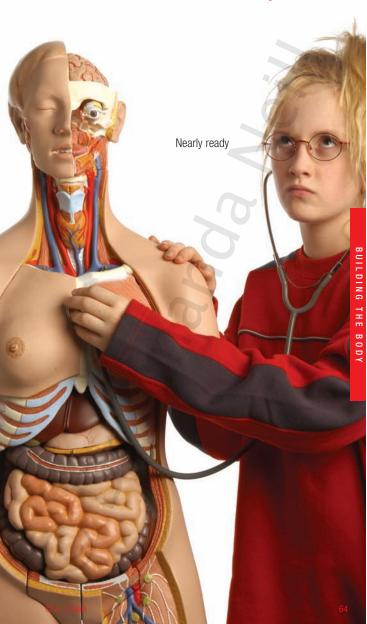


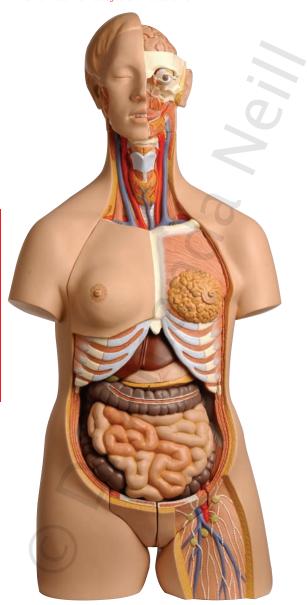






The A to Z of Anatomical Histological and Medical terms







Model complete.

The A to Z of Anatomical Histological and Medical terms



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A

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a- without, lack of, no
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ab- away from , negative

abdomen: Lt. abdomen = the belly, the part of the trunk between thorax and the perineum,

abduction: Lt. ab = from, and ductum = led, hence, movement from; verb - abduct. (≠adduction)

aberrant: Lt. ab = from, and errare = to wander, hence, deviating from normal.

Absorption (ahb-SORB-shun) the passage of digested foods from the GIT & into the BS.

ac- toward, near to, addition to

accessory: adj.Lt. accessum = added, hence, supplementary. acetabulum: Lt. acetum = vinegar (cf. acetic), and abulum = small receptacle, a vinegar cup, the socket for the head of the femur, adj.- acetabular.

Acini (AS-ih-nee) clusters of cells in the pancreas that secrete digestive enzymes. sing. acina adj. acinar (AS-in-us)

Acoustic (ah-COOS-tic) pertaining to hearing and sounds

acoustic: adj.Gk. akoustikos, related to hearing.

acromion: Gk. akros = summit (c.f. Acropolis) and omos = shoulder, the tip of the shoulder.

Actin (AHK-tihn) the contractile protein that makes up the major portion of thin filaments in muscle fibers.

acu- sudden, sharp, severe

ad- near, toward

adduction: Lt. ad = to, and ductum = led, hence, movement towards; verb - adduct. (≠abduction)

adenoid: Gk. aden = a gland, eidos = shape or form.

Adenohypophysis: also = the anterior lobe of the pituitary gland. It is composed of glandular epithelium. The adenohypophysis secretes numerous Hs, several of which affect the activity of other endocrine glands.

adhesion: Lt. ad = to, and haesus = stuck

Adipose (AHD-ih-pose) a CT whose cells (adipocytes) are highly specialized for lipid storage.

adipose: Lt. adeps = fat, hence fatty

adrenal: Lt. ad = towards, at, ren = kidney, situated near the kidney (see suprarenal)

- Α adrenergic: adj. Gk. ergon = work, stimuli which cause the adrenal (suprarenal) gland to produce adrenaline. A term used to В specify neurons or pathways which use adrenaline as a transmitter. Adrenal cortex (ah-DREE-nal KOR-teks) the outer region of the adrenal glands, located superior to each kidney. It secretes steroid Hs. including glucocorticoids & mineralocorticoids. **Adrenal glands** two endocrine glands, each situated superior to a kidney, (also = suprarenal glands). Adrenal medulla the inner region of the adrenal glands, which secretes epinephrine and norepinephrine (also adrenaline H noradrenalin). Adventitia (ahd'-ven-TISH-yah) the outermost covering of an organ or tissue (see Serosa, Tunica Externa). af- near, toward, addition to afferent; adi.Lt. af = to, and ferent = carrying (cf. ferry), hence. K carrying to, e.g., axons carrying information from retina to lateral geniculate nucleus are afferents to that nucleus. ag- near, toward, addition to agger nasi: Lt. = eminence of the nose. agonist: Gk. agonistes = rival, hence, a muscle in apparent contest with another, (a prime mover). adj.- anlagonist. **Ala** (AY-lar) referring to the wing or flattened part of a bone particularly if there are other shapes in the bone which are not wide and flat as in the Sphenoid or the inominate / hip. ala: Lt. wing, hence a wing-like process; pl. - alae. alaegue: Lt. ala = wing (ala of nose), suffix -que = and, hence R levator labii superioris alaegue nasi muscles = lifter of the upper lip and ala of nose. alb- white alba: I.t. albus = white albicans: Lt. = becoming white; albus = white albuginea: Lt. albus = white. Gk. gen = form, like boiled white of V an egg. alimentary: adj.Lt. alimentum = food, e.g., alimentary canal. all- other, different, abnormal allantois: Gk. allantos = sausage, eidos = like, form. Χ allo- other, different, abnormal, Alpha cell a type of cell in the pancreatic islets of Langerhans that
 - secretes the H glucagon.

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alveolus: Lt. a basin, hence any small hollow. pl. - alveoli, adj.-alveolar, after holes in a tissue eg the lung — alveolar bone in the maxilla.

Alveolar duct (awl-VEE-o-lar) a branch of a respiratory bronchiole w/n C the lungs leading to alveoli & alveolar sacs.

Alveolar sac two or more alveoli which share a common opening from an alveolar duct.

Alveolus (awl-VEE-o-lus); a microscopic air sac within the lungs. pl - alveoli

ambi- both, about, around

ambiguus: adj.Lt. = doubtful (nucleus ambiguus).

ampulla: Lt. = a two-handed flask, a local dilatation of a tube. amygdaloid: adj.Gk. amygdala = almond, and eidos = shape or form. amygdaloid is almond-shaped.

amylacea: Gk. amylon = starch, hence, starchy.

an- without, lack of, not

an- up, back, again

anaesthesia: Gk. an = negative, and aisthesis = sensation, loss of sensation;

Anal canal (A-nawl) the terminal 2 or 3 cm of the rectum. It opens to the exterior at the anus.

analgesia: Gk. an = negative, and algesis = pain, insensibility to pain; adi.- analgesic.

analogous: Gk. ana = up, apart, towards, and logos = word. A part with similar function through different morphology e.g., fish gills and mammalian lungs (c.f. homologous).

anastomosis: Gk. ana = of each, and stoma = mouth, hence the end-to-end continuity of 2 vessels.

Anatomical position the reference position, in which the subject is standing erect with the feet facing forward, arms are at the sides, & the palms of the hands are facing forward (the thumbs are to the outside).

Anatomy (ah-NAH-to-mee) the study of the structure of the body. anatomy: Gk. ana = up, and tome = a cutting, hence cutting up of a body (c.f. dissection).

anconeus: Gk. ancon = elbow, hence the muscle attached to the (lateral surface of the) olecranon.

aneurysm: Gk. angeion = blood vessel (BV), and eurys = wide, a pathological dilatation of a BV.

angiography: Gk. angeion & graphe = a record; picture of a BV injected with radiopaque material.

A anhidrosis: (anhydrosis, anidrosis) Gk. an = negative, and hidros = sweat; absence of sweating, typical of skin deprived of its sympathetic innervation.

ankle: the region between the leg and the foot.

ankyle- bent, crooked

Annulus (AN-yoo-lus) the outer fibrous ring of the intervertebral disc annulus: diminutive of Lt. anus = ring, hence little ring. (AS anulus)

anomalo- uneven, irregular

antagonist: Gk. anti = against, and agonistes = rival, hence a muscle which may oppose an agonist. adj.- agonist.

ante- before

anteflexion: Lt. ante = before, and flexere = to bend, anterior angulation between the body and cervix of the uterus. anterior: comparative of Lt. ante = before, in front.

Anterior (ahn-TER-ee-or) toward the belly or front of the body. (in humans, see also ventral) ≠ posterior

Anterior horn a region of the SC grey matter containing the cell bodies of motor neurons. (see also the ventral horn).

Anterior root the structure emerging from the SC on its anterior aspect that contains axons of motor neurons, (see also the ventral root).

Anterior pituitary gland the portion of the pituitary gland at the base of the brain composed of glandular epithelium. (see also adenohypophysis)

antero- anterior, forward

anteversion: Lt. ante = before, and versum = turned, hence, the anterior angulation b/n cervix uteri & the vagina.

anti- against, combating

antrum: Gk. antron - cave, hence a space in a bone or organ. anulus: diminutive of Lt. anus = ring, hence little ring. (AS annulus)

Anus (AY-nus) the distal end and outlet of the rectum.

anus: Lt. = ring, adj. - anal.

Aorta (AY-OR-tah) the main trunk of the systemic circulatory circuit. It originates from the L ventricle.

/ **Aortic** semilunar valve - one of 4 heart valves, it consists of 3 cusps that are attached to the wall of the aorta near its origin from the L ventricle.= aortic valve.

x ap-toward, near to

ap- away from derived from, separation

Aperture (a-PET-tyuu-a) an opening or space b/n bones or w/n a bone.

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Apex (A-pehks) - the extremity of a conical or pyramidal structure. The A
apex of the heart is the rounded, inferior most tip that points to the L
side.
    aponeurosis: Gk, apo = from, and neuron = tendon (later applied
    to nerve cell and its fibres), used for sheet-like tendons. Adj.-
         aponeurotic.
    apophysis: Gk. apo = from, and physis = growth, a bony process
         - the articular process of a vertebra; adj.- apophysial.
    appendage: Lt. appendere = to hang on, supplement.
    appendix: Lt. appendere = to hang on, supplement.
    apposition: Lt. appositus = placed at, hence, in contact, in
        juxtaposition.
    aqueduct: Lt. aqua = water, and ductus = drawn or led off, a
         channel for conducting fluid, e.g. the cerebral aqueduct of the
         midbrain, which transmits fluid from the 3rd to the 4th
         ventricle.
    aqueous: Lt. aqua = water hence watery or water-like
Arachnoid (a-RAK-novd) the middle of 3 CT coverings (meninges) of
the brain and the SC. (Pia, Arachnoid & Dura from inner to outer layers)
    arachnoid: adj.Gk. arachne = spider, and eidos = shape or form,
    hence like a spiders web. This middle laver of the three
    meninges is spread web-like over the brain.
arch-chief, first, beginning,
    arcuate: Lt. arcuatum = curved or arched.
    arcus: Lt. an arch, Lt. arcuatum = curved or arched area: a part
         of a surface.
    areola: Lt. small, open space.
Areolar (a-REE-o-lar) a type of CT with sparse protein fibers in the
matrix (loose CT). Also the tissue around the nipple
    arm: the upper limb, between shoulder and elbow.
Arrector pili (ah-REK-tor PI-lee) muscle fibers attached to hair w/n the
skin.
    arrector: Lt. adrectus = raised, hence, arrector pili = a hair-raising
    muscle.
Arteriole (ar-TEER-ee-ol) a small tributary from a larger artery that
delivers blood to a capillary.
Artery (AR-ter-ee) a BV that carries blood away from the heart.
    artery: Lt. arteria (to take away)
    arthrodesis: Lt. arthro = joint, desis = to stiffen, hence the fusion of ^{\vee}
    a joint or the stiffening of a joint.
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A Articular cartilage (ar-TIH-kyoo-lar KAR-ti-lej) the cartilage that
   covers the end of a bone, where it forms a joint with another bone.
   Articulation (ar-tik'-yoo-LAY-shun) = joint, which is a point of contact
C b/n 2 opposing bones.
       articulation: Lt. artus = joint, hence, articulate - to form a joint.
       arytenoid: Gk. arytaina = pitcher, and eidos = shape or form, the
       arytenoid cartilage curves like a spout
F
   as- toward, near to
   Ascending colon (ah-SEN-ding KO-lun) a segment of the large
   intestine that extends from the caecum to the transverse colon = Right
   colon.
       aspect: a view of more than one surface.
       aspera: Lt. rough.
       asterion: Gk. asterios = starry.
   asthen- weak, weakness
   Astrocyte (AS-tro-site) a neuroglial cell type common in the CNS.
   particularly the brain. Astrocytes are believed to form a structural
framework b/n neurons, BV, and other neuroglial cells by their
   attachments. They are also capable of impulse transmission.
       astrocyte: Gk. astron = star, and kytos = cell, hence a star-
            shaped (neuroglial) cell.
Ν
       ataxia,: Gk. a = negative, and taxis = order, hence inability to co-
            ordinate the voluntary muscles.
       atlas: Gk. atlao = I sustain. Atlas was the mythical god who
       sustained the globe on his shoulders, the 1st vertebra sustains the
       skull, and its upper surface bears 2 concavities
            to do this.
R
       atresia: Gk. a = negative, and tresis = a hole, an absence or
       closure of a body orifice or tubular organ
   atreto- closed, imperforate
   Atrium (A-tree-um) One of 2 superior chambers of the heart, pl.- atria.
       atrium: Lt. = entrance hall, adj.- atrial.
       atrophy: Gk, a = negative, and trophe = food, hence wasting from
            starvation
       auditory: Lt. audire = to hear, hence, pertaining to the ear.
       auricle: Lt. auricula = a little ear - part of the external ear
            auricular - ear-shaped
Χ
       auscultate: Lt. ausculto = to listen to
   auto-self, spontaneous
       autonomic: adj.Gk. auto = self, and nomos = law, hence self-
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       regulating.
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aux- help, growth, increase

Axial (AKS-ee-el) refers to the head and trunk (vertebrae, ribs and sternum) of the body - axial skeleton including the skull and the veterbral column

axilla: Lt. armpit.

axis: Lt. axis = the central line of a body or part thereof, especially the imaginary line around which rotation takes place adj. axial.

Axon (AKS-on) a long process of a neuron that carries a nerve impulse away from the cell body.

axon: Lt. axis = axis, hence the main process of a neuron conducting impulses away from the cell body.

azygos: adj.Gk. a = negative, and zygos = paired, hence, unpaired.



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bar- pressure

bary- low, heavy, deep difficult

Basement membrane (BM) a thin layer of extracellular material and CT stroma that underlies epithelium.

basi- foundation, base

basilar: adi.Lt. basis = base.

basilic: adj.Gk. basilikos = royal (king-sized).

Basophil (BAS-oh-fil) a type of WBC that is characterized by large cytoplasmic granules that stain blue with basic dyes.

Beta (BEE- tah) **cell** a cell in the pancreatic islets of Langerhans that secretes the H, insulin.

bi- twice, two, double (see di)

biceps: Lt. bis = double, and caput = head, hence 2-headed, adj.- bicipital.

bifid: adj.Lt. bis = double, and findo = to split.

bifurcate: Lt. bis = double, and furco = fork, hence to divide into two.

bilateral: Lt. bi = two, lateral = side, hence, pertaining to two (both) sides.

bin-twice, two, double

bipennate: adj, Lt. bis = double, and pinna = feather, hence converging from 2 sides

Biopsy (BYE-op-see) removal of a piece of living tissue for examination.

R blast- undifferentiated, immature

Blind spot a region of the retina where no photoreceptive cells are present, due to the exit point of the Optic N.

Body cavity a space in the body that is internally lined by a membrane, & contains structures including organs.

Bone a CT that contains a hardened matrix of mineral salts and collagen fibers. Its cells include osteocytes, which are embedded within lacunae, and the free-roaming osteoblasts and osteoclasts.

**Note: The contains a hardened matrix of mineral salts and collagen fibers. Its cells include osteocytes, which are embedded within lacunae, and the free-roaming osteoblasts and osteoclasts.

Bowman's capsule (BO-manz CAP-sewl) the part of the kidney nephron that surrounds the glomerulus, (see glomerular capsule).

brachiocephalic: Lt. brachium = arm, and Gk. kephale = head, a BV related to the upper limb and head.

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Brachial (BRAY-kee-al) arm mainly to do with the upper arm brachium: Lt. = arm, adi.- brachial.

brachy- short

brady- slow ≠ tachy

Brain stem the inferior portion of the brain that consists of the midbrain, pons, and medulla oblongata.

branchia: Gk. = gills, adj.- branchial.

bregma: Gk. = moist, referring to the site of the anterior fontanelle (ie a little fountain) the site of junction of the coronal and sagittal sutures, where the brain can be felt pulsating in infancy.

brevi- short

brevis: Lt. = short - cf. brief.

Bronchiole (BRONG-kee-ol) a small bronchus - a series of small tubes that arise as branches from tertiary bronchi w/n each lung (bronchi have cartilage in their walls, bronchioles do not)

Bronchus (BRONG-kus) any one of the air passageways that carry air between the trachea and the bronchioles. pl. - bronchi. adj. bronchial **Brunner's glands** mucous glands located w/n the submucosa of the small intestine.

buccal: adj.Lt. bucca = cheek.

buccinator: Lt. = trumpeter - this is the muscle which blows air out from the cheek $\label{eq:buccinator} % \begin{subarray}{ll} \end{subarray} % \begin{subarray}{ll} \end{subarray}$

bulbus: Lt. = bulb or onion.

bulla: Lt. = bubble.

bursa: Gk. = a purse, hence a flattened sac containing a film of fluid.



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cac- bad, diseased, deformed, ill (kak)
   Caecum (SEE-kuhm) the proximal end of the large intestine which
   receives the terminal ileum of the small intestine. AS Cecum
       caecum: Lt. = blind. (AS cecum)
   caen- new, recent (seen)
       calcaneus: Lt. calx = heel, hence the bone of the heel.
       calcar: Lt. = a spur.
       calcar avis: Lt. the spur of a bird, hence a spur-like elevation.
       calcarine: Lt. calcar = spur, hence spur-shaped.
       calf: the soft tissue swelling at the back of the leg.
       calix: Lt. = a wine-cup (plural - calices) alternative spelling calyx.
       callosum: Lt. callum = hard.
       callous Gk. = hard (AS callus)
   Callus a disorganized pattern of woven bone formed after a fracture.
       calotte: calvaria from which the base has been removed.
   Calvaria (KAL-vai-reea) refers to the cranium w/o the facial bones
м attached.
       calvaria: Lt. calva = bald head, part of the skull containing the
            brain - i.e. cranium minus the facial skeleton.
       calvx: Lt. = a wine-cup (plural - calvces) found in the renal pelvis.
       canal: Lt. canalis = a water-pipe or canal.
   Canaliculus (kan'-al-LIK-yew-lus) a small channel w/n compact bone
   tissue that connects lacunae. pl. canaliculi. diminutive of canal.
       cancellous: adj.Lt. cancelli = grating or lattice.
       canine: adj.Lt. canis = dog.
       canthus: Gk. kanthos - angle b/n ends of rims.
   Capillary (kah-PIL-lar'-ee) a microscopic BVthat interconnects
   arterioles with venules. The capillary wall is a single cell layer in
   thickness, and is the only site of nutrient diffusion b/n the BS and
   body cells.
       capillary: Lt. capillaris = hair-like, a very thin BV.
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capitate: adi.having a caput from Lt. capitis = of a head (g.v.). W capitulum: diminutive of caput. Lt. = head. **Capsule** (KAP-syoo-I) an enclosing membrane capsule: Lt. capsa = box, hence an enclosing sheet. caput: Lt. = head. Capitis - of a head, adj. - capitate = having a head (c.f. decapitate). 7

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The A to Z of Anatomical Histological and Medical terms
    caput medusae: Lt. caput = head, Medusa = Gk. mythical female
    with unly and with snake like hair.
Carcinoma (KAR-sin-oh-mah) cancer of epithelial origin
    carcinoma Lt. carcin = crab -oma = lump
    cardia: adj.Gk. kardia = heart. adj. cardium pertiaing to the heart
    adj. cardiac
Cardiac muscle (KAR-dee-ahk MUS-ehl) one of 3 types of muscle
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tissue. It is characterized by striations and involuntary contractions, and makes up the bulk of the heart wall.

cardinal: Lt. cardinalis = principal, of primary importance.

Carina (KAR-rin-ah) the point of bifurcation of the 2 primary bronchi in the luna

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carina: Lt. = a keel.
carneae: Lt. carnea = fleshy. (kar-nee)
carotid: Grk karoo, = to put to sleep; compression of the common
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or internal carotid artery causes coma. carpus: Gk. = wrist, adj.- carpal.

Cartilage (KAWR-tih-lehi) a type of CT characterized by the presence of a matrix containing a dense distribution of proteins and a thickened ground substance. The matrix is mainly secreted by chondroblasts.

cartilage: Lt. = gristle: adi.- cartilaginous.

caruncle: diminutive of Lt. caro = flesh, hence, a small fleshy elevation.

cauda: Lt. = tail, adj. - caudate - having a tail.

cauda equina: Lt. = a horse's tail.

caudal: Lt. cauda = tail, hence toward the tail, inferior (in human anatomy), note legs are inferior not caudal

caudate: Lt. cauda = tail, hence having a tail.

cava: Lt. cavum = cave. hollow.

cavernous: Lt. containing caverns or cave-like spaces.

Cavity: (KAV-it-ee) an open area or sinus within a bone or formed by 2 or more bones. (in dentistry a pathological hollow in the bone – tooth).

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cavity: Lt. cavitas = a hollow.
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cavum: Lt. = cave.

cecum: Lt. = blind. (AS caecum)

celiac: adj.Gk. koilia = belly. (AS coeliac)

Cell the basic living unit of multicellular organisms.

Cell body the portion of a neuron containing the nucleus and much of the cytoplasm. (also = the soma).

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celom: Gk. koilos = a hollow (AS coelom)
   cen- general, common - new, recent (sen)
   centi- hundredth part, hundred (sen-tee)
C Central fovea (FO-vee-ah) a small depression in the center of the
   macula lutea of the retina. It contains cone cells (only), and is the area
   of optimal visual acuity (clearest vision).
   Central nervous system (CNS) A major division of the nervous
   system (NS) that contains the brain & spinal cord (SC).
   Central vein when pertaining to the liver, the central vein is a vein
G located in the center of a liver lobule that conveys blood from the
   hepatocytes to the hepatic vein.
H Centriole (SEHN-tree-ol) cylindrical structures within the cytoplasm of
   a cell, consisting of microtubules, which play a role in cell division.
       central: adi.Lt. centrum = centre.
       centrum: Lt. = centre.
   cephal- head
   Cephalic (KEF-al-ik) pertaining to the head
       cephalic: adj.Gk. kephale = head.
   cer- wax (ser)
   cerat- cornea /horny tissue (kerat)
   Cerebellum (ser'-eh-BELL-uhm) a functional region of the hindbrain
   located inferior to the cerebrum. It coordinates muscle movement.
       cerebellum: diminutive of Lt. cerebrum = brain.
   Cerebral cortex the outer layer of the cerebrum, which is composed
   of grey matter.
Q Cerebrum (SER-ee-bruhm) the largest functional region of the brain,
   it is the convoluted mass that lies superior to all other parts of the
   brain. It is the main site of integration of sensory & motor impulses.
       cerebrum: Lt. = brain, adi.- cerebral.
       cerumen: Lt. cera = wax.
       cervical: adi.Lt. cervix = neck, pertaining to the neck.
   Cervix (SER-viks) the narrow, constricted, fibrous part of the uterus
   that is b/n the vagina & the body of the uterus.
       cervix: Lt. = neck, adj.- cervical.
   chancr- canerous, abnormal growth, rotting (kankr-)
   cheil- lip (cheel-)
       chiasma: Gk. kiasma = cross. (The Gk. letter chi = c).
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   chiro- hand (kyro-)
   chol- gall, bile (kohl)
   cholang- bile vessel or passage (kohl-ange)
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chondra- cartilage (kondra-)

chondral: adj.Gk. chondros = cartilage.

Chondrium (KON-dree- um) the cartilage adj. chondria, chondral

Chondrocyte (KON-droh-site) a mature cartilage cell.

Chondroitin sulfate (kon-DROI-tin SUL-fate) a semisolid material forming part of the EC matrix in certain CT.

chorda: Lt. = cord.

chori- protective membrane (kor-ee-)

Choroid (KO-royd) part of the vascular tunic covering of the eyeball. It lines most of the internal surface of the sclera, forming the middle layer of the wall of the eye.

Choroid plexus (KO-royd PLEKS-sus) a mass of specialized capillaries H in the ventricles of the brain, from which CSE is produced.

choroid: adj.Gk. chorion = skin and eidos = shape or form, hence, like a membrane.

chrom- coloured (krohm-)

Chromatin (KROH-mah-tin) the mass of genetic material in the nucleus of a cell, consisting mostly of DNA. It is only visible during interphase.

Chromosome (KRO-mo-som) one of the structures (46 in human cells) within the cell nucleus that contains genetic material. Chromosomes become visible during cell division.

chron- time (kron-)

chyle- digested fats (ky-lee)

chyle: Gk. = juice. also chyli: Gk. = juice.

cili- eyelash (sil-ee)

cilia- hair (sil-ee-ah)

ciliary: adj.Lt. cilia = eyelashes.

 $\textbf{Cilia} \ \, (SIL-ee-ah) \ \, a \ \, hairlike \ \, process \ \, associated \ \, with \ \, a \ \, cell \ \, that \ \, is \ \, a \ \, modification \ \, of the plasma membrane. Its movement generates a flow of fluid (usually mucus) in the extracellular environment. sing. = cilium.$

cilium: Lt. = eyelid, hence, an eyelash; adj.- ciliary, or ciliated. pl. - cilia

cine- movement (sin-ee)

cingulum: Lt. girdle or belt, adj.- cingulate.

circum- around , surrounding

circumflex: Lt. circum = around, and flexere = to bend, hence, bend or bent around.

cirrho- yellow, orange (si-roh)

cis-on this side (sis)

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lamellae that surround a central osteonic (Haversian) canal. (=dense

bone).

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con- together, with (Kon)

concha: Lt. = shell. pl. conchae pertaining to shell shapes as in the ear and nose

Condyle (KON-dile) a rounded enlargement or process possessing an articular surface

condyle: Gk. kondylos = knuckle.

Cone cell a photoreceptor in the retina of the eye that is involved in colour vision and high visual acuity.

conjunctiva: Lt. con = with, and junctus = joined (cf. junction),

Connective tissue (kon-EK-tiv Tishh-ew) (CT) one of the 4 basic types of tissue in the body. It is characterized by an abundance of EC material with relatively few cells, and functions in the support and binding of body structures.

conoid: Gk. konoeides = resembling a cone, cone shape constrictor: Lt. con = together, and strictum = drawn tight, hence, producing narrowing.

contour: Gk. tornos = lathe, hence a line which turns - an outline.

contra- opposite against

contralateral: Lt. contra = against, latus = side, the opposite side (≠ ipsilateral)

conus: Lt. = cone, conus medullaris - the lower end of the spinal cord.

coracoid: adj. = like a crow's beak.

Cornea (KOR-nee-ah) the transparent, anterior portion of the fibrous tunic covering the eye, derived from 2 germinal layers..

cornea: Lt. cornu = horn, hence, the dense transparent tissue forming the front of the eyeball.

corniculate: Lt. = shaped like a small horn.

cornu: Lt. = horn.

corona: Lt. = crown. adj.- coronary or coronal; hence a coronal plane is parallel to the main arch of a crown which passes from ear to ear (c.f. coronal suture).

Corona radiata (koh-RO-nah ra-dee-AR-tah) several layers of follicle cells that form a protective mantle around the secondary oocyte. **Coronal** (kor-RO-nal) **plane** a plane that extends vertically to divide the body into anterior & posterior portions. also = the frontal plane.

coronary: adj.Lt. = crown, hence, encircling like a crown. coronoid: adj.shaped like a crown.

corp- body (korp)

corpus: Lt. = body, pl.- corpora. pertaining to the body or the main part of the organ

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Corpus luteum (KOR-puhs LOO-tee-uhm) a structure w/n the ovary
   that forms from a ruptured Graafian follicle and functions as an
   endocrine gland by secreting female hormones.
C Corpuscle (KOR-puhs-ehl) used to describe a small body contained
   w/n a sac, as in red corpuscle (RBC) small package of haemoglobin
   (see also renal corpuscle)
       corpuscle: Lt. = a little body.
       corrugator: Lt. con = together, and ruga = wrinkle, hence a
       muscle that produces wrinkles.
   Cortex (KOR-tehks) the outer portion of an organ. (≠ medulla)
       cortex: Lt. = bark, adj.cortical.
   cost- rib (kost)
       costa: Lt. = rib. adj.- costal.
       coxa: Lt. = hip, hence os coxae = the hip bone.
   Cranium (KRAYN-ee-um) consists of all the bones of the skull with
   the exception of the mandible
       cranium: Gk. kranion = skull, adi, cranium
       cremaster: Gk. = suspender, hence the muscle which suspends
       the testis.
   Crenation (kre-NAY-shun) the shrinkage of a cell caused by contact
   with an hypotonic solution.
   Crest (KR-est) a narrow ridge
       cribriform: adj.Lt. cribrum = sieve, hence, sieve-like.
       cricoid: adj.ring-like, circular.
       crista: Lt. = crest, crista galli = the (median) crest of a cock.
   Cristae sensory organs of dynamic equilibrium, which are located w/n
   the ampullae of the inner ear.
   Crown the part of a tooth that is exposed, and covered with enamel.
       cruciate: adj.Lt. crux = cross, hence, crossed like the letter X.
   crur- leg (kroo-r)
       crus: Lt. = leg. plural - crura.
   cryo- cold freezing
   crypt- hidden, covered occult
       cubital: adi.Lt. cubitus = elbow.
       cuboid: adj.Gk. kuboides = cube-shaped.
W
       culmen: Lt. = summit (c.f. culminate).
       cuneate: adj.Lt. = a wedge.
Χ
       cuneiform: adj.Lt. cuneus = wedge, hence wedge-shaped.
       cuneus: Lt. = a wedge, adj.- cuneate.
   Cupula a gelatinous mass located w/n the ampullae of the inner ear.
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It shifts in response to changes in the position of the head. This shift generates an impulse, which is interpreted in the brain as dynamic equilibrium

cupola: Lt. = little dome. / cupula: Lt. = little dome. (AS cupula) cusp: Lt. cuspis = a pointed elevation.

cutis- skin (kew-tis)

cutaneous: adj.Lt. cutis = skin.

Cutaneous (kew-TAY-nee-us) **membrane** one of the 3 types of epithelial membranes found in the body, it is also known as the skin.

Cuticle (cew-Tic-le) a narrow region of stratum corneum at the proximal end of a nail (=eponychium)

cymbo- boat shaped (sim-boh)

cyrt- bent, curved

cyst- sac bladder (sist-)

cyst: Gk. kystis = bladder, adj.- cystic.

cyt-cell (site-

Cytokinesis (SI-to-ky-nee-sis) the division of the cytoplasm as a part of the process in mitosis resulting in 2 equal daughter cells.

Cytoplasm (SI-to-plazm) the material of a cell located w/n the plasma membrane & outside the nuclear membrane, containing the cellular organelles.

Cytosol (SI-toh-sol) the thickened fluid of the cytoplasm. It lies outside the cellular organelle membranes.

Cytoskeleton (si'-to-SKEHL-eh-ton) the complex supportive network of microtubules & microfilaments in the cytoplasm.



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dactyl- digit, finger, toe (dak-til)
       dartos: Gk. = flaved or skinned.
  de- remove, undoing, reversal, depriving, freeing from
   dec- ten, tenth (dess)
       declive: Lt. declivitas = slope (cf. clivus).
       decussation: Lt. decussatus = crossed like the letter X.
   Deep a directional term meaning away from the surface of the body.
   (≠ superficial)
  Deep fascia (FASH-ee-ah) a sheet of CT covering the external
  surface of a muscle (also = the epimysium).
       deferens: adj.Lt. = carrying down.
       deglutition: Lt. deglutire = to swallow, hence the act of
           swallowing.
K
       dehiscence: Lt. de = away, hiscere = to gape, hence, a
       separation, a splitting away (as in wounds).
   deka- multiple of ten
       deltoid; adi, Gk, delta (D), the capital letter has a triangular shape
       (c.f. the delta of the Nile)
   dem- people, population (dem)
  demi- half (dem-ee)
   Dendrite (DEN-dryt) a cytoplasmic extension from the cell body of a
  neuron which carries a nerve impulse towards the cell body.
       dendrite: or dendron, Gk. = a tree, hence like the branches of a
           tree.
R
       dens: Lt. = tooth (c.f. dentist), adj.- dental.
   Dense irregular connective tissue a CT that contains an EC matrix
  densely populated with collagen fibers, which extend in irregular
  directions - found in the dermis of skin.
   Dense regular connective tissue a CT that contains a matrix
  densely populated with collagen fibers, which extend in parallel
  directions. It is the main component of tendons and ligaments.
   dent- teeth
       dentate: Lt. dens = tooth, hence, having a toothed margin.
       denticulate: Lt. dens = tooth, hence, having small tooth-like
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       projections.
   Dentin (DEN-teen) the bonelike material forming the bulk of a tooth.
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dentine: from Lt. dens = tooth: the substance of the tooth

surrounding the pulp.

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Deoxyribonucleic acid (dee-ohk'-see-ry-bo-nyoo-KLAY-ik AH-sihd) (DNA) a nucleic acid in the shape of a double helix that contains the genetic information necessary for protein synthesis. depress: Lt. de = prefix implying descent, and pressum =
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depression = downward movement or a concavity on a surface. **Depressor** (DEE-press-ohr) muscle which pushes down (≠ levator) dermatome: Gk. derma = skin, tome = a cutting or division, a

dermatome: Gk. derma = skin, tome = a cutting or division, a segment of skin supplied by a single spinal ganglion.

derm-skin

Dermis (DER-mis) the layer of the skin lying deep to the epidermis and composed of dense irregular CT.

dermis: Gk. = skin, adj.- dermal.

pressed, hence to press down

Descending colon (dee-SEN-ding KO-lun) the segment of the large intestine b/n the transverse colon & the sigmoid colon. (= Left colon). detrusor: Lt. detrusio = thrust away.

desmo-ligament

deuter- secondary, second

di- two, twice, double, reversal, separation, apart from dia- through across, between, apart, complete

diaphragm: Gk. dia = across, and phragma = wall, hence, a partition, adj-diaphragmatic (see phrenic).

Diaphysis (di-AH-fih-sihs) the shaft of a long bone.

diaphysis: Gk. dia = apart, and physis = growth, hence the body of a long bone b/n the growing regions near the ends.

diastole: Gk. dia = apart, and stellein = sending, hence sending the walls of the heart apart, i.e. relaxation or dilatation. adj.-diastolic.

diencephalon: Gk. dia = between, & enkephalos = brain, in general the structures surrounding the 3rd ventricle.

adj.- diencephalic.

digastric: adj.Gk. dia = double, & gaster = belly, hence, 2-bellied (as in muscles).

digit: Lt. digitus = a finger or toe, usually excepting the pollex (thumb) or hallux (big toe), adj.- digital.

diplo- double, twin

diplopia: Gk. diploos = double, and opsis = vision, hence double vision.

diploë: Gk. = fold, the cancellous bone b/n the inner and outer tables of the skull, adj.- diploic.

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dis-apart from, two, twice, double, reversal, separation,
   difficult, wrong
       discus: Lt. = disc.
  Dissection (DYE-sek-shon) to cut up to carve in a systematic way
       dissection: Lt. disssecare = to cut up, from dis = apart, sectum =
D
       cut (c.f. anatomy).
   Distal (DIS-tahl) away from the middle of the body or the axis or core
  of the body proximal
       distal: adj. Lt. di = apart, and stans = standing, hence, standing
       apart, implying farther from a given point.
   Distal convoluted tubule a segment of the renal tubule (of the
H kidney nephron) that extends from the loop of Henle to the collecting
  duct. Its pathway is very twisted.
       diverticulum: Lt. = by-road, hence a blind tubular process or sac.
  Dorsal (DOR-sal) a directional term indicating toward the back side,
   or posterior.
       dorsal: adj.Lt. dorsum = back.
  Dorsal root the sensory branch of a spinal nerve which connects with
   the SC.
       dorsum: Lt. = back.
       ductus: Lt. = duct.
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   Ductus deferens (DUK-tuhs DEF-er-ehnz) the tube that conducts
  sperm from the epididymis in the testes to the ejaculatory duct. (also
  = vas deferens, and seminal duct).
   duo- two
Q Duodenum (dew-OH-den-uhm) the first segment of the small
   intestine extending from the pyloric valve to the jejunum.
       duodenum: Lt. duodenarius = twelve, because it is 12
           fingerbreadths long.
       dura: adj.Lt. = hard (cf. durable); dura mater, the tough covering
       membrane of the CNS.
   dy- two
   dynam- power energy (dye-nam)
  Dynamic equilibrium the sensation of rapid movements, mostly of
   the head.
       dysphagia: Gk. dys = difficult, and phagein = to eat, hence,
       difficulty in swallowing.
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   dys- difficult painful abnormal
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e- outside, external, out, protrude, over, away, less ec- outside, out, to protrude over, away, less / house Eccrine (EHK-rihn) a type of sweat gland that functions in the maintenance of body temperature.

ecto- outer, out of place

echin- spine or thornlike processes (ee-kine)

Ectoderm (EHK-toh-derm) one of 3 primary germ layers in the developing embryo. It gives rise to the NS & to the epidermis and its derivatives.

ectoderm: Gk. ektos = outside, and derm = skin, hence, the outermost germ layer of the embryo.

- ectomy to cut out, excise surgically

ectopic: Gk. ek = out, and topos = place, hence out of place. edge: border or margin of a surface.

ef- outside out to protrude over away less

efferent: $adj.Lt.\ ex = out,\ and\ ferens = carrying,\ hence,\ conducting\ from.$

Efferent arteriole (EHF-er-ehnt ar-TEER-ee-ole) an arteriole that transports blood away from the glomerulus of a nephron (in the kidney).

Efferent ductules (DUK-tew-lz) small coiled tubes that transport sperm from the rete testis to the epididymis.

ejaculatory: Lt. ex = out, and jacere = to throw, hence throwing out.

Elastic cartilage a type of cartilage (CT) that contains large numbers of elastic fibers in a more opaque matrix- present in the external ear, & parts of the larynx.

Elasticity (ee-lahs-TIH-sih-tee) the physiological property of tissue to return to its original shape after extension or contraction.

elbow: the junction between arm and forearm.

elevate: Lt. elevatus = raised up, hence, to raise up, and elevation = a raised part ≠ depress.

em- within inside into in on

 $emboli form is: adj. Gk.\ embolus = wedge\ or\ blocking\ matter.$

Embryo (EHM-bree-oh) in the human - the developing organism during the first 8 weeks of life after fertilization.

embryo: Gk. en = within, and bryein = to swell or grow, the early stage of intrauterine development.

A emet-vomiting

eminence: Lt. eminens = projecting, hence, a projection (usually smooth).

emissary: adj.Lt. e = out, and emissum = sent out; emissary vein, one connecting intra- with extra-cranial venous channels.

en- within inside in on

Enamel (ee-NAM-ehl) the hardened outer covering on the crown of a tooth.

encephalon: Gk. en = within, and kephalos = head, hence, the brain.

endo- within inside into on

endocardium: Gk. endo = within, and kardia = heart, the endothelial lining of the chambers of the heart.

endocranium: Gk. endo = within, and kranion = skull, the outer endostial layer of the dura mater.

Endocardium (ehn-doh-CARD-ih-um) the innermost layer of cells in the heart chambers (see endothelium)

Endochondral ossification (ehn-do-KOHN-dral OS'-if-iKA-shun) where bone tissue develops by replacing hyaline cartilage.

endocranium: Gk. = within, the skull adj. endocranial endocrine: Gk. endo = within, : krinein = to separate, organs that ductlessly secrete products into the BS.

Endocrine gland (EHN-do-krihn gland) one of two main categories of glands, here the cellular products are secreted into the extracellular space and transported by the BS. (also = ductless glands).

Endocytosis (ehn'-do-sih-TO-sihs) the active process of bulk transport of material into a cell. It includes phagocytosis and pinocytosis.

Endoderm (EN-do-derm) one of the 3 primary germ layers in an embryo, it begins as the inner layer, later forms the organs of the alimentary canal (GIT) & the respiratory tract.

endoderm: Gk. endo = within, and derm = skin, hence, the germ layer of the embryo that gives rise to the organs of the GIT, respiratory system and the lining of the BVs.

endolymph: Gk. endo = within, and Lt. lympha = clear water, hence the fluid within the membranous labyrinth of the internal ear.

Endometrium (EN-do MEE-tree-uhm) the innermost layer of the uterine wall. The endometrium undergoes changes in response to female hormones, resulting in a 28-day cycle involving menstruation during which much of the endometrium is sloughed off to be rebuilt again.

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endometrium: Gk. endo = within, and metra = uterus, hence the mucosal lining of the uterine cavity.

Endomysium (ehn'-do-MY-see-uhm) the deepest layer of CT associated with muscle. It surrounds individual muscle fibers. **Endoneurium** (ehn'-do-NEW-ree-uhm) the deepest layer of CT associated with a nerve. It surrounds individual nerve fibers (myelinated axons of neurons).

Endoplasmic reticulum (ehn'-do-PLAZ-mik reh-TIHK-yew-lum) (ER) a cytoplasmic organelle that consists of a series of tubules with a hollow center. It functions in the transport of cellular products (smooth ER), and as a site for protein synthesis (if ribosomes are attached, called rough ER) (see also Sarcoplasmic reticulum specially adapted for muscle fibres).

Endosteum (ehn-DOS-tee-uhm) a membrane lining the medullary cavity w/n a bone & containing osteoblasts and osteoclasts.

Endothelium (ehn'-do-THEE-lee-uhm) a layer of simple squamous epithelium lining the inside of BVs & the heart chambers (see endocardium).

endothelium: Gk. endo = within, & thele = the nipple; squamous epithelium lining the heart and BVs.

ent- within, inner

enter- to do with the gut, intestines

Eosinophil (ee'-oh-SIHN-oh-fihl) a type of granulated WBC characterized by a cytoplasm which absorbs the eosin stain.

ependyma: Gk. = an upper garment. It may refer to a vest or singlet, ie, an under-garment, hence, the lining membrane of the ventricles of the brain and central canal of the SC.

ep- upon, in addition to, beside among, on the outside, over **Ependymal** (eh-PEN-di-mal) **cells** a type of neuroglial cells in the brain that line the ventricles. (also = ependymocytes).

epi-upon, in addition to, beside, among, on the outside, over epicanthus: Gk. epi = upon, and kanthos = corner, hence, the fold of skin over the inner angle of the upper evelid, a normal characteristic in certain races, & a congenital anomaly in others.

Epicardium (epi-KAR-dee-um) the thin outer layer of the heart wall. (also = visceral pericardium)

prominence on a condyle of the humerus/femur.

epicardium: Gk. epi = upon, and kardia = heart, visceral layer of serous pericardium covering the heart. epicondyle: Gk. epi = upon, and kondylos = knuckle, a

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epicranial: adj.Gk. epi = upon, & kranion = skull, epicranial aponeurosis (galea) joining frontalis to occipitalis muscles.
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Epidermis (epi-DERM-ihs) the superficial layer of skin composed of stratified squamous epithelium.

epidermis: Gk. epi = upon, and derm = skin, hence, the most external layer of the skin.

E Epididymis (epi-DID-imus) an organ in the male reproductive system that consists of a coiled tube located within the scrotum.

epididymis: Gk. epi = upon, and didymos = testis, hence, the organ perched posterosuperior to the testis.

epidural: adj.Gk. epi = upon, Lt. dura = tough, hence, external to dura mater.

epigastrium: Gk. epi = upon, and gaster = belly, hence, the upper median zone of the abdomen.

Epiglottis (epi-GLOHT-ihs) a part of the larynx that consists of a leaf-shaped piece of hyaline cartilage which forms a movable lid over the opening into the trachea, called the glottis.

epiglottis: Gk. epi = upon, and glottis = larynx, hence the uppermost part of the larynx.

Epimysium (epi'-Ml-see-uhm) the outer layer of CT associated with muscle, it surrounds the whole muscle, (see deep fascia).

epimysium: Gk. epi = upon, and mys = muscle; the CT surrounding an entire muscle.

Epineurium (epi-NEW-ree-uhm) the outermost layer of CT associated with a nerve. It surrounds the whole nerve.

Q Epiphyseal (epi-FIS-EE-al) line a line of calcified bone visible in a section through bone that is the remnant of the epiphyseal plate.

Epiphyseal plate a region of cartilage b/n the epiphysis & diaphysis producing growth in the length of a bone.

Epiphysis (ep-IF-ih-sihs) the end of a long bone that contains spongy bone tissue, surrounded by compact bone

epiphysis: Gk. epi = upon, and physis = growth, the end of a long bone beyond the cartilaginous growth disc, adj.- epiphysial. epiploic: adj.Gk. epiploon = a net, which the greater omentum

resembles (+ entrapped fat globules).

episi- to do with the vulva (ep-ee-zee)

Epithelial (epi-THEE-lee-al) **tissue** one of 3 primary tissue types, it is characterized by a close arrangement of cells with little intercellular material. (also = epithelium).

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epithelium: Gk. epi = upon, & thele = the nipple;cell layer lining the body's internal & external surfaces, epithelium of the

Eponychium (ehp'-o-NIHK-ee-uhm) a narrow region of stratum

gastrointestinal and respiratory tracts.

egui- egual

erg- work

corneum at the proximal end of a nail. (= cuticle).

erector: Lt. erectus = straight or upright.

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-ergy action
    erigentes: pl., Lt. erigere = to erect.
erythr- red
Erythrocyte (eh-RITH-ro-site) a synonym for red blood cell.
eso- within
Esophagus (eh-SOHF-ah-guhs) a tubular segment of the alimentary
canal b/n the pharynx & the stomach. (AS Oesophagus)
    ethmoid: adi.Gk, ethmos = sieve, and eidos = shape or form.
    hence, like a sieve; an unpaired skull bone.
eu- good, normal, well, easily
eury- broad, wide
    eversion: Lt. e = out, and versum = turned, hence turned
    outwards.
ex- to protrude, outside, out, over, away, less
Excretion (ehk-SKREE-shuhn) the process by which metabolic waste
materials are removed from a cell, a tissue, or an entire body.
exo- outside, outer layer, out of
Exocrine (EHK-so-krihn) gland, one of two main categories of glands,
here the cellular products are released into ducts then transported to a
body surface or into a body cavity.
Exocytosis (ehk'-so-sih-TO-sihs) the active cellular process by which
materials are transported out of a cell and into the extracellular
environment.
    exophthalmos: Gk. exo = out, and ophthalmos = eye, hence,
        prominent eveball.
    extend: Lt. extendo = extend/stretch out. extension = extended or
    straightened; ≠ flexed or bent.
    external: adj. Lt. externus = outward, hence, further from the inside.
External auditory canal the epidermal-lined tube of the external
ear, extending from the auricle to the tympanic membrane. It passes
through the hole in the temporal bone called the external auditory
meatus.
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External ear the outer part of the ear, which consists of the appendage known as the auricle, the external auditory canal, and the tympanic membrane (see Pinna).

c extra- outside of out over beyond, in addition to,
Extracellular environment (EKS-trah-CEHL-yew-lar en-VI-ROH-mehnt) the body space outside the plasma membrane of cells.
E Extracellular fluid (ECF) the fluid outside the plasma membrane of

Extracellular fluid (ECF) the fluid outside the plasma membrane of cells, including interstitial fluid and blood plasma.

extraperitoneal: adj.Lt. extra = outside, Gk. peri = around and teinein = stretched, outside the serous membrane stretched around the inside of the abdominal wall and around the viscera.

extrapyramidal: Lt. extra = outside, and pyramidal (q.v.), hence descending nerve tracts that do not traverse the pyramids of the medulla.

extrinsic: Lt. extrinsecus = from without, hence (usually) a muscle (usually) originating outside the part on which it acts.



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fabella: diminutive of Lt. faba = a bean, a sesamoid bone found in the lateral head of gastrocnemius.

Facet (FAS-set) a small joint surface or smooth boney surface

facet: Lt. facies = face, a small smooth bony surface, \pm coated with articular/joint cartilage, the site of a tendinous attachment (c.f. a facet on a diamond).

faci- to do with the face (fasi)

facilitate: Lt. facilis = easy, hence, to make easy.

falciform: adj.Lt. falx = a sickle, and forma = form, hence, shaped like a sickle.

Falx (FALKs) as in sickle-shaped or curved used in the brain mainly, adi. falciform (FALS-ee-form)

falx: Lt. = sickle, hence, the sickle-shaped falx cerebri and falx cerebelli, adj.- falciform.

fasci- band, conncteion (fashi-)

Fascia (FASH-ee-ah) a sheet or band of dense CT that structurally supports organs and tissues. Deep fascia surrounds muscle tightly, and superficial fascia separates the skin and muscle layers often loose, variable.

fascia: Lt. = band or bandage, hence the fibrous wrapping of muscles - deep fascia, or the subcutaneous layer of fatty CT - superficial fascia, adj. fascial.

Fascicle (FAS-ih-kul) A bundle of skeletal muscle fibers (cells) that forms a part of a muscle.

fasciculus: diminutive of Lt. fascis = bundle, hence, a bundle of nerve or muscle fibres.

Fat a lipid compound formed from one molecule of glycerol and three molecules of fatty acids. It is the body's most concentrated form of energy, and also serves to insulate from external temperature changes. It is stored w/n cells comprising adipose tissue.

fauces: Lt. = throat, adj.- faucial.

febri- fever

femur: Lt. = thigh, adj.- femoral. pl. femora

fenestra: Lt. = window.

Fetus (FEE-tuhs) the early developmental stage from 8 weeks after fertilization to birth. (AS Foetus)

fetus: the developing mammal in utero; in Man, after the 2nd month in utero, adj.- foetal or fetal.

fibre: Lt. fibra = a fibre, adj. Lt. fibrosus = fibrous.

fibril: diminutive of Lt. fibra = a fibre.

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Fibrin (FI-brihn) an insoluble protein in the blood, formed from 6 fibrinogen & required for blood clotting.

Fibrinogen (fi-BRIHN-o-jehn) a large plasma protein, the precursor of fibrin. It is converted to fibrin by thrombin.

E **Fibroblast** (FI-bro-blahst) a large cell in CT that manufactures much of the extracellular material.

Fibrocartilage a type of cartilage (CT), which is distinguished from other cartilages by the small size and numbers of chondrocytes and lacunae, differential staining, and close resemblance to dense regular CT. It is found in the intervertebral discs particularly the outer ring.

Fibrous tunic the outer wall of the eyeball that is composed of dense CT, it contains the sclera & the cornea.

fibula: Lt. = brooch, which the tibia and fibula resemble, the fibula is the movable pin

fila- threadlike thread

filament: Lt. filamentum = a delicate fibre, adj.- filamentous.

filum: Lt. = a thread. Filum terminale - a thread of pia continuous with the lower end of the SC.

fimbria: Lt. = a fringe, fimbria hippocampi, a scalloped band of fibres alongside the hippocampus.

Fissure (FISH-er) a narrow gap or slit or furrow

fissure: Lt. = a cleft.

fixator: Lt. fixus = fixed, hence, a muscle which fixes a part.

flaccid: adj.Lt. flaccidus = weak or slack.

flavum: adj.Lt. flavus = yellow.

flex: Lt. flexum = bent, flexor, a muscle which bends a part of the body, & flexion = the act of flexing insert the unequals sign extension.

Flagellum (flaw-JEHL-uhm) a single, long extension of a cell composed of protein filaments to provide mobility. In human cells, it is found only in sperm cells.

flav- yellow

flexure: Lt. flexura = a bending.

flocculus: diminutive of Lt. floccus, a tuft. resembling a picture of a little cloud, with a woolly top and a flat base, as in flocculus cerebelli.

Foetus (FEE-tuhs) the early developmental stage from 8 weeks after fertilization to birth. (AS Fetus)

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foetus: the developing mammal in utero; in man, after the 2nd month in utero, adj.- foetal AS fetal.

folia: plural of Lt. folium = leaf.

follicle: Lt. folliculus = a little bag, adj.- follicular.

fontanelle: French diminutive of Lt. fons = fountain, associated with the palpable pulsation of the brain in the anterior fontanelle of an infant.

Foramen (FOR-ay-men) a natural hole or passage in a bone usually for the transmission of BVs or Ns

foramen: Lt. = hole. pl. foramina

forceps: Lt. = tongs.

fore- front or before

forearm: the upper limb between the elbow and the wrist. fornix: Lt. = arch (hence fornication, because the Roman prostitutes plied their profession beneath the arches of the bridges over the river Tiber).

Fossa (FOS-ah) a pit, depression or concavity on a bone or formed by several bones

fossa: Lt. = a ditch or trench, hence a concavity in bone, or an organ, or on a lining surface.

fovea: Lt. = a pit (usually smaller than a fossa).

Fovea centralis (FO-vee-aw cehn-TRAL-ihs) the region of the retina consisting of cone cells only (no rod cells), it is the area of highest visual acuity (sharpness of vision) a small depression on the retina. foveola: diminutive of fovea.

fract- break

frenulum: diminutive of frenum.

frenum: Lt. = bridle or curb.

frontal: adj. Lt. frontis = of the forehead, or coronal.

Frontal plane a plane that extends in a verticle direction dividing the human body into front (anterior) and back (posterior) portions. (also = the coronal plane).

Fundus a large, expanded compartment w/n the stomach serving as a temporary storage area for ingested food material.

fundus: Lt. = bottom or base. (note that the fundus of the stomach & uterus are at the top, and the fundus of the eye & of the bladder are posterior!). adj.fundiform

funiculus: diminutive of Lt. funis = cord (used usually for bundles of nerve fibres).

fus- spindle (fewze-)

fusiform: adj.Lt. fusus = spindle, hence, spindle-shaped.

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Gallbladder (GAWL-blahd-er) a small saclike organ located beneath the liver that stores bile.

galli: genetive (possessive case) of Lt. = cock, hence, crista galli, the cock's comb.

gallus: Lt. = cock, hence, crista galli, the cock's comb.

F Gamete (ga-MEET) a sex cell. It may be male (sperm cell) or female G (oocyte).

gamma: the 3rd letter of the Gk. alphabet, used in sequence alpha, beta, gamma, delta, etc.

Ganglion (GANG-lee-ohn) a cluster of neuron cell bodies located outside the CNS.

ganglion: Gk. = swelling, referring to a peripheral collection of nerve cells, adj.- ganglionic.

Gastric (GAHS-trihk) **gland** any one of several types of glands in the stomach mucosa that contributes to the gastric juice.

gastric: Gk. gaster = belly or stomach adj. gastro.

Gastro (GAS-troh) pertaining to the stomach

Gastrocnemius (GAS-troc-neem-uhs) the muscle belly in the calf gastrocnemius: Gk. gaster = belly, and kneme = leg, hence, the bulging muscle of the calf. gelatus = frozen.

gelatin: Lt. gelatina = congeal material derived from partial hydrolysis of skin collagen.

gemellus: Lt. diminutive of geminus = twin.

genial: adj.Gk. geneion = chin.

 $\label{eq:geniculate:lt.geniculare} \mbox{geniculate: Lt. geniculare} = \mbox{to flex the knee, hence, a bent knee.}$

geniculum: Lt. geniculare = (jen-ew) the knee.

genital: adj.Lt. genitalis = reproductive, hence, genitalia, the sexual organs.

genu: Lt. = knee.

Germinal (JER-mih-nal) **epithelium** a layer of epithelial cells covering the ovaries.

Gestation (jehs-TA-shuhn) the period of development prior to birth. qestation: Gk. ges = carry

giganto- huge

gingiva: Lt. = gum (of tooth).

girdle: a ring of bones which may be complete or incomplete hence the pelvic girdle is complete and the pectoral girdle is not

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glabella: diminutive of Lt. glaber = bald, i.e. smooth, bony

Gland a specialization of epithelial tissue to secrete substances. It may consist of a single cell or a multicellular arrangement.

Glandular epithelium epithelial tissue whose primary function is

gladiolus: diminutive of L. gladius = a sword, i.e. a small sword,

gland: Lt. glans = an acorn, adj.- glandular; a secreting organ. glandula: diminutive of Lt. glans = acorn, hence a little gland.

prominence between the evebrows.

applied to the body of the sternum.

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secretion; it is the prominent tissue forming endocrine & exocrine
                                                                        G
glands.
                                                                         Н
    glans: Lt. = acorn. glans penis at the end of the penis - looks like
        an acorn
    glenoid; adi.Gk, glene = socket, and eidos = shape or form.
    glia: Gk. = glue, hence, an adhesive CT.
    globus: Lt = a globe.
                                                                         K
Glomerulus (glo-MEHR-oo-luhs) one of many specialized capillary
networks located in the kidney cortex, each of which is encapsulated
by a Bowman's capsule. It is part of the kidney nephron, & is the site
of kidney filtration.
    glomerulus: Lt. glomerare = to roll up. from glomus = a ball of
                                                                         Ν
        thread (c.f. conglomeration). or knot
    glossal: adj.Gk. glossa = tonque.
    glottic: adj.Gk. = larynx.
    glottis: Gk. = larynx, hence, the boundaries of rima glottidis.
Gluteal (GLOO-tee-al) to do with the rump buttock behind adj.
gluteus (GLOO-tee-us)
    gluteal: adj.Gk. gloutos = rump or buttock.
    aluteus: Gk. gluteos = rump or buttock. 1 of 3 muscles of the
    buttock, adj. - gluteal.
                                                                         Τ
gnath- jaw (na-th)
Goblet cell a unicellular gland often in the shape of a goblet that
secretes mucus. (also = a mucus cell).
Golgi apparatus (GOL-jee ahp'-ah-RAHT-uhs) a cellular organelle
                                                                         V
characterized by a series of flattened, hollow cisternae. It serves as a
                                                                         W
site of anabolic activities.
Gonad (GO-nahd) an organ that produces gametes and sex H. In the
                                                                         Χ
male it is the testes, and in the female it is the ovaries.
                                                                         Υ
gon- sexual
goni- corner
O A. L. Neill
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gony- knee

gonad: Gk. = reproduction, hence a gland producing gametes ovary or testis, adj. - gonadal.

Graafian follicle: a mature ovarian follicle that contains a single oocyte. The Graafian follicle secretes the female hormone estrogen. Following ovulation, it changes form to become the corpus luteum, which produces progesterone.

gracile: adj. Lt. gracilis = slender.

granul- grain (gran-ewl)

granulation: diminutive of Lt. granum = a grain, hence a little grain gravid: adj. Lt. gravida = pregnant.

gravis- heavy

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Grey matter Nerve tissue in the brain and SC that contains neuron cell bodies, dendrites, & nonmyelinated axons, and therefore appears grey or non-white in colour.

griseum: adi. Lt. griseus = bluish or pearly grev. gubernaculum: Lt. something which governs or directs, like a rudder (c.f. gubernatorial).

Gustation (guhs-TA-shuhn) the sense of taste.

gustatory: adj. Lt. gustatio = taste, hence, pertaining to the sense of taste.

Gustatory organ: a special sensory organ that contains chemoreceptors providing the sense of taste, or gustation. (also = taste buds) They are mainly located on the tongue & embedded w/n papillae.

Q **Gyrus** (g-eye-rus) the elevation of neural tissue in the brain, opposite of sulcus the depression in the brain b/n each gyri.

gyrus: Gk. gyros = circle, hence a coil of brain cortex. pl. gyri gymno- nakedness

gyn- female (g-eye-n)



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habenula: diminutive of Lt. habena = rein.

Haeme = blood (AS Heme)

Haematocrit (hee-MAT-o-krit) the percentage of RBCs in a sample of blood, which is determined by centrifuging the sample and measuring the RBC volume relative to other blood components.

Haematopoiesis (heem'-ah-to-poy-EE-sihs) The production of blood cells in the red bone marrow. (= haemopoiesis. AS hematopoiesis)

Haemoglobin (HEE-mo-glo-bihn) a complex protein in RBCs involved in the transport of oxygen & carbon dioxide. (AS hemoglobin)

Haemolysis (hee-MOL-ih-sihs) the bursting of a RBC resulting from disruption of the plasma membrane by toxins, freezing or thawing, or exposure to a hypotonic solution. (AS hemolysis)

Haemostasis (hee'-mo-STA-sihs) the stoppage of bleeding.

haemorrhoid: Gk. haema = blood, and rheo = to flow, hence likely to bleed, hence haemorrhoids are the extrusion of gut BVs through the anus. These have little or no muscle and so bleeding can be profuse.

Hair a threadlike outgrowth of the skin that is composed of columns of keratinized cells.

Hair follicle a cluster of epithelial tissue surrounding the root of a hair where the hair originates.

hallux- big toe (hal-uhcs)

hallux: Lt. hallex = great toe (hallucis = of the great toe). hamate: adj. Lt. hamus = a hook, hence, hooked.

hamstrings: the tendons of the muscles of the ham - ie. of the back of the thigh - felt behind the knee when the leg is flexed against resistance (semimembranosus, semitendinosus and biceps femoris).

hamulus: diminutive of Lt. hamus = hook.

hapl- single

haustra: Lt. = saccules.

Haversian system (see osteon) smallest functioning unit of bone. **Heart** the hollow muscular organ within the thoracic cavity that propels blood through the circulatory network.

hecl- ulcer (hels)

helicine: Gk. helix = a coil, spiral.

helix: Gk. = coil. hemi- half (hem-ee)

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hemianopia: Gk. hemi = half, an = negative, opsis = vision, hence
           loss of half of the field of vision.
       hemianopsia: Gk. hemi = half, an = negative, opsis = vision,
            hence loss of half of the field of vision.
       hemiparesis: Gk. hemi = half, paresis = paralysis, used usually to
           denote weakness rather than paralysis.
       hemiplegia: Gk. hemi = half, plegia = stroke, hence, paralysis of
           one half of the body.
       hemisphere: Gk. hemi = half, sphaira = ball, hence, half of a
            sphere.
       hepar: Gk. = liver, adj. - hepatic.
H Hepatic (heh-PAT-ik) pertaining to the liver.
       hepatic: adj.Gk. hepar = the liver.
   Hepatocytes (heh-PAT-OH-cites) Liver cells.
       hernia: Lt. = a protrusion, adj.- hernial.
   heter- other, different, abnormal ≠ homo
   hex- six
       hiatus: Lt. = a gap (like that between some people's ears).
   hidr- sweat
   hier- to do with the sacrum
       hilum: Lt. = the point of attachment of a seed, hence the part of
       an organ where the vessels and nerves are attached;
            adi.-hilar.
       hindbrain: the part of the brain below tentorium cerebelli, ie
           medulla oblongata + pons + cerebellum.
       hip: the lateral prominence of the hip bone and greater trochanter.
       hippocampus: Gk. hippokampos = a sea-horse, the curled shape
       of the hippocampus in coronal section
   hist-tissues
   Histology (HIHS-toh-lo-jee) the microscopic study of tissues.
       histology Lt. = pictures, ology = the study of, hence the study of
       pictures
   Horizontal plane a plane that extends perpendicular to the length of
   the body dividing it into superior and inferior portions. (also =
   transverse plane).
   holo- entire
x homo- same (hoh-moh)
   homeo- same, common, like (hoh-me-oh)
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similar morphologys but different functions.

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homologous: adj. Gk. homos = same, & logos = word, parts with

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horizontal: adj.- parallel to the horizon.

horm- to urge, to stimulate

Hormone (HOR-mone) a substance secreted by endocrine tissue that changes the physiological activity of the target cell.

horn: a projection, often pointed.

humer- to do with the arm, upper arm (hew-mer)

humerus: Lt. = the arm-bone.

humour: Lt. humor = liquid, hence the aqueous & vitreous humour of the eyeball.

hyal- glass

hyaline: adj.Gk. hyalos = glassy.

Hyaline cartilage (HY-al-ine) a type of CT that contains chondrocytes embedded w/n lacunae, both of which are surrounded by a dense, semitranslucent matrix of collagen fibers & glycosaminoglycans. Hyaline cartilage is found in: tracheal and bronchial walls, the costal cartilages, the nose, the endos of all syovial joints and the larynx.

hydr- water

 $\label{eq:hydrocephalus: Gk. hydor = water, koilos = head. (c.f. cephalic).}$

hygr- water

hymen: Gk. = membrane; across the virginal vagina.

hyoid: adj.Gk. = U-shaped.

hyper - excessive ≠ hypo

hyperacusis: Gk. hyper = over, and akousis = hearing, hence excessive sensitivity to sound.

hypoglossal: adj. Gk. hypo = under, and glossa = tongue.

Hyperplasia (HI'-per-PLAY-zee-ah) an increased production & growth of cells beyond normal limits.

Hypertonic (HI'-pehr-TOHN-ihk) the state of a solution having a greater concentration of dissolved particles than the solution it is compared to (≠ hypotonic).

Hypertrophy (hi'-PEHR-tro-fee) the abnormal enlargement or growth of a cell, tissue, or organ.

hypo- deficient below under≠ hyper

Hypodermis (hi'-po-DEHRM-ihs) the area of the body b/n the dermis of the skin and skeletal muscle

hypophysis: Gk. hypo = down, physis = growth, hence, a downgrowth (from the brain). However, this is not the whole truth. Part of this gland is an upgrowth from the pharynx, adj.-hypophysial. (=pituitary)

Hyposecretion (hi'-po-see-KREE-shuhn) the diminished secretion of a product by a gland.

A **Hypothalamus** (hi'-po-THAHL-aw-muhs) the small, inferior portion of the diencephalon in the brain. It functions mainly in the control of involuntary activities, including endocrine gland regulation, sleep, C thirst, and hunger.

hypothalamus: Gk. hypo = under, and thalamus (q.v.), refers to part of diencephalon.

Hypotonic (hi'-po-TON-ik) the state of a solution having a lower concentration of dissolved particles that the solution it is compared to (≠ hypertonic).

hyster- uterine (hister-)

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hystero: Gk hyster to do with the uterus thought to be the seat of all female emotion, hence adj.- hysterical pertains to female emaotions- over exhibitionistic emotion, noun, hysteria.



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iatr- to treat (ee-at-rah)
icter- jaundice (ikter)
ile- pertaining to the ileum
Ileum (IHL-ee-uhm) the distal segment of the small intestine.
    ileum: Gk. eilein = twisted. adj.- ileal.
ili- pertaining to the flank or the leg
    ilium: Lt. the bone of the flank, adj.- iliac.
im- in. into. on. onto. not. non
    ima: adj. Lt. = lowest, hence artery thyroidea ima lowest artery to
        the thyroid .
    impar: Lt. = unpaired.
in- in, into, on, onto, not, non
In vitro (ihn VEE-tro) outside the body, such as in a culture bottle.
In vivo (ihn VEE-vo) inside the living body.
    incisor: Lt. incisum = cut up.
    incisura: I.t. = notch.
    incus: Lt. = anvil, hence the anvil-shaped ossicle of the
         middle ear.
    index: Lt. = a pointer, hence, the fore-finger, adj. indicis
    indusium: Lt. = tunic.
infero- low, lower
Inferior (ihn-FER-ee-or) a directional term describing a location
further from the head than something else.
    inferior: adj.Lt. = lower down, hence, farther from the head end.
infra- below, beneath
    infra: Lt. = below.
Infundibulum (ihn'-fuhn-DIB-yoo-lum) the narrow connection b/n the
hypothalamus of the brain & the pituitary gland, also, the funnel-
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ventricle.

inguin- pertaining to the groin
inguinal: adj.Lt. inguen = groin.
inhibition: Lt. inhibitus = restrained, hence, reduction of the
excitability of a synapse.

shaped distal end of the uterine tube which opens near an ovary.
infundibulum: Lt. = funnel and the fluid opening in the Left

innervate: Lt. in = into, and nervus = nerve, hence, to supply a nerve to a part.

- innominate: Lain in = not, and nomen = name, hence, without a name, hence innominate bone = unnamed bone generally referring to the hip.
 - insert: Lt. insertio = to join into, implant, hence, to attach; noun insertion.
- inspection: Lt. inspectus = examined, hence, visual examination.

insul- island

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insula: Lt. = island.

Integumentary (ihn-tehg'-yoo-MEHN-tar-ee) pertaining to the skin & its accessory organs.

integument: Lt. in = on, tegmen = roof, hence the skin coat.

inter- between

intercalated: adj. Lt. inter = between, and calatum = inserted, hence interposed.

J Intercalated disk (ihn-ter'-kaw-LA-ted dihsk) a transverse thickening of a cardiac muscle cell's sarcolemma at its boundary with an adjacent cell. It aids in the conduction of an impulse from one cardiac cell to another.

Intercellular (ihn'-tehr-SEHL-yoo-lar) the area b/n cells.

interdigitate: Lt. inter = between, and digitus = a digit, hence, to interlock - like fingers.

Internal (ihn-TER-nawl) a directional term describing a location deep to the surface of the skin relative to something else.

internal: adj.Lt. internus = inward, hence, nearer the inside. interstitial: adj.Lt. inter = between, and sistum = set, hence, set between

Interstitial cells (ihn'-ter-STIH-shuhl) cells in the testes located b/n seminiferous tubules that secrete testosterone. (= cells of Leydig).
Interstitial fluid (ihn'-tehr-STIH-shuhl FLOO-ihd) the portion of extracellular fluid which fills the tissue spaces b/n cells. (= tissue fluid and intercellular fluid).

Intervertebral disk (ihn'-tehr-VEHR-teh-brahl disk) a cartilaginous joint consisting of a pad of fibrocartilage located b/n two adjacent
 vertebrae.

Intestinal gland (ihn-TEHS-tihn-awl glahnd) a tubular gland in the mucosa of the small intestine which secretes digestive enzymes.

X (= crypt of Leiberkuhn).

intestine: Lt. intestinum = the digestive tube beyond the stomach. intima: Lt. = innermost.

intra- within

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intra: Lt. = within.

Intracellular (ihn'-traw-SEHL-yoo-lar) the space w/n a cell ≠ intercellular fluid ≠ extracellular fluid.

Intracellular fluid (ICF) the fluid w/n cells.

intrafusal: adj. Lt. intra = within, fusus = spindle.

Intramembranous ossification (ihn'-trah-MEHM-braw-nuhs ohs'-ih-fih-KA-shuhn) the development of bone from foetal CT membranes.

intrinsic: adj. Lt. = on the inside.

introitus: Lt. intro = within, and ire = to go, ie an orifice or point of entry to a cavity or space.

inversion: Lt = in, and vertere = to turn, hence to turn inward, inside out, upside down.

ipsi- same

ipsilateral: Lt. ipsi = self, the same, and latus = side, hence on the same side \neq contralateral.

Iris (I-rihs) a part of the vascular tunic of the eye. It is located on the anterior side of the eyeball & is composed of smooth muscle fibers that regulate the amount of light entering the eye. The iris is the coloured part of the eye surrounding the pupil.

iris: Lt. = a rainbow.

isch- suppression, blocking

ischi- hip

ischium: Gk. ischion = socket, because the ischium contributes more than either the ilium or pubis to the acetabulum.

Islet of Langerhans (I-leht of LANG-er-hawnz) one of numerous clusters of endocrine cells w/n the pancreas.

iso- equal similar

iso: Gk. = equal.

Isotonic solution a solution that contains an equal amount of solutes relative to another.

isthmus: Gk. isthmos - a narrow passage.

Jejunum (ieh-JEW-nuhm) the middle segment of the small intestine. jejunum: Lt. jejunus = empty, adj.- jejunal.

Joint (joynt) a point of contact b/n two opposing bones, which may move. (also = articulation).

joint: the meeting of 2 or more bones or cartilages, at which movement is possible.

jug- voke (jug)

jugu- throat (jug-ew)

jugular: adj.Lt. jugulum = neck.

Jugum (J00-gum) referring to the bridge b/n 2 bones generally symmetrical with a Right and Left side (pl. juga)

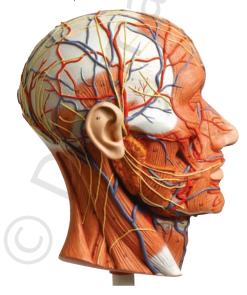
jugum: Lt. = voke (cf. conjugal).

juxta- near to

iuxta: Lt. = near, next to

Juxtaglomerular apparatus (iuhks'-tah-glo-MER-voo-lawr ahp'-ah-RAHT-uhs) a structure located in a kidney nephron which is composed M of cells from the distal convoluted tubule & the afferent arteriole.

It secretes renin in response to a decrease in BP.



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kary- nucleus

kel-tumour

kerato- horny, hard, skin, cornea

Keratin (KER-ah-tihn) a waterproofing protein present in the epidermis, nails, and hair.

keratin: Gk. keras = horn.

kine- move

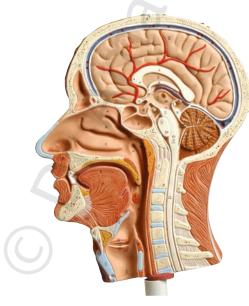
kinocilium: Gk. kineo = to move (cf. kinetic), and cilium Lt. = eyelash, hence protoplasmic thread of hair process in cupula of crista ampullaris of a semicircular duct.

knee: the junction of the thigh and the leg. (see genu = knee)

koilo- hollow concave

kolp- vagina

koniocortex: Gk. konis = dust, and Lt. cortex = bark, hence, sensory cortex containing mostly granular layers. kvphosis: Gk. kvphos = bent or bowed forward.



labi- lip

labium: Lt. = lip (plural labia), adj.- labial.

labrum: It. = rim.

labyrinth: Gk. labyrinthos = maze, adj.- labyrinthine.

lacerum: Lt. lacer = mangled, hence, lacerated, tornforamen lacerum is often torn in head injuries.

lacri- tear (lak-ree)

lacrimal: adj. Lt. lacrima = a tear (drop).

lactation: Lt. lactans = suckling. Hence, the act of secreting milk.

Lacteal = lactiferous ducts, specialized lymphatic ducts in the small intestine to absorb large fat molecules. When they do so they turn pale or milky.

lacteal: adj. Lt. lac = milk, hence, resembling milk.

lactic: adj. Lt. lac = milk.

lactiferous: adi. Lt. lac = milk. and ferre = to carry.

Lacuna (lah-K00-nah) a chamber w/n bone or cartilage matrix which houses a cell (an osteocyte or chondrocyte). pl. - lacunae.

lacuna: Lt. lacus = lake, hence, a small pond or gap, adj.lacunar.

lal- talking

lambda: Gk. letter representing a capital 'L' and written as an inverted V. adi. lambdoid (L-shaped)

Lamella (lah-MEHL-a) concentric ring of hardened bone matrix found in compact bone. pl. lamellae

lamella: diminutive of Lt. lamina = plate; hence, a small plate.

R Lamina (lah-MIN-a) plate as in the lamina of the vertebra a plate of bone connecting the vertical and transverse spines pl. laminae (lah-MIN-ee) laminectomy = removal of the lamina to give access to the SC and its perforating nerves.

lamina: Lt. = plate, either a layer of NT, like the laminae of the lateral geniculate body, or a CT membrane, like lamina cribrosa sclerae, or of bone, as in vertebral laminae; laminectomy = lamina + Gk. ektome = excision - excision of the vertebral laminae, adj.- aminar.

lanugo: Lt. lana = wool, the fine downy hair on the skin of the foetus, or cheeks or malnutrition.

lapar- abdominal cavity

lapis- stone

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Large intestine the final segment of the alimentary canal consisting of a large tube that forms the faeces, which is expelled by the process of defecation.

Larynx (LAR-ihnks) a box-like cartilaginous organ in the respiratory tract located b/n the pharynx & the trachea.

larynx: Gk. = voice-box, adj.- laryngeal.

lata: I.t. latus = side.

Lateral (LA-tehr-awl) a directional term describing a structure that is located further from the vertical midline of the body relative to another.

lateral: adj. Lt. latus = side, hence, nearer the side.

latissimus: superlative of adj.Lt. latus = wide, hence, latissimus dorsi muscle, the widest muscle of the back; earlier name was anitersor - wiper of the anus.

leg: the lower limb b/n the knee & the ankle.

leio- smooth

lemniscus: Gk. lemniskos = a band or ribbon (applied to nerve fibres).

Lens an oval, transparent structure located b/n the posterior iris & the vitreous humor of the eyeball. It is connected to the vascular tunic by suspensory ligaments -it is a cataract if it becomes opaque.

lens: Lt. = lentil - transparent body with surfaces curved to redirect light adj. lentiform or lenticular.

lentiform: adj.Lt. lens = lentil, and forma = shape, hence, lentil-shaped.

lepto- thi, delicate small mild

leptomeninx: Gk. lepto = delicate, & meninx = membrane. generally refers to pia & arachnoid meninges

leuco- white, colourless, pale (AS leuko)

leuko- white, colourless, pale (AS leuco)

Leucocyte (LOO-ko-site) a white blood cell. (AS leukocyte).

Leukocyte (LOO-ko-site) a white blood cell. (AS leucocyte).

levator- to lift up ≠ depressor

levator: Lt. = elevator. ≠ depressor

lien- spleen (leen)

lien: Lt. = spleen, adj.- lienal.

levo- left

liga- bind

Ligament (LIHG-ar-ment) a band or cord of dense CT that extends from one bone to another to provide a joint with structural stability.

ligament: Lt. ligamentum = bandage, usually tying parts to each other, adi.- ligamentous.

limbic: adj. Lt. limbus = a margin, usually curved. limbus: Lt. = a margin, usually curved, hence, limbus of cornea, its circular junction with the sclera, adj. - limbic; the brain limbic lobe is made up of structures which encircle the junction of the diencephalon and telencephalon.

limen: Lt. = a threshold, hence, subliminal - below threshold.

linea- line (lin-ee-ah)

linea: Lt. = line.

lingu- tongue

lingua: Lt. = tongue, adj. lingual.

Lingual (LIHN-gwal) pertaining to the tongue. For example, the lingual frenulum connects the tongue to the floor of the mouth.

lingula: diminutive of lingua, hence, a little tongue, adj.- lingular.

lio- smooth

J lip- fat

Lipid (LIH-pihd) an organic compound that is usually insoluble in water but soluble in alcohol, ether, and chloroform. It includes fats, phospholipids, and steroids.

Lipoprotein (lih'-po-PRO-teen) a protein-lipid complex produced by the liver that transports cholesterol and triglycerides through the BS.

Low density lipoproteins (LDLs) are associated with an increased risk of atherosclerosis, whereas high density lipoproteins (HDLs) are

associated with a reduced risk.

lith- stone

Liver a large digestive organ in the superior right corner of the
abdominopelvic cavity that functions mainly in the interconversion of
energy-storage molecules, detoxification of blood, and production of
bile.

Lobules when pertaining to the liver, the lobules are cuboidal subdivisions of the liver that contain rows upon rows of hepatocytes.

lobule: diminutive of lobus.

lobulus: Lt. diminutive of lobus, hence, a lobule.

lobus: Gk. lobos = lobe, adj.- lobar.

loc- location place

locus: Lt. a place (cf. location, locate, dislocate).

loin: Lt. lumbus - the part of the back b/n the ribs and the hip bone.

longus- long

longissimus: superlative of Lt. longus = long, hence, the longest. longitudinal: adj.Lt. longitudo = length, hence, lengthwise.

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longus: adj.Lt. = long, hence, longissimus (superlative) = the longest.

Loose connective tissue a type of CT consisting of loosely-packed protein fibers of collagen and elastin in a semifluid matrix, which are produced by fibroblasts. (also = areolar tissue). It is the most widespread of all CT.

luc- light (loo-s)

lucidum: Lt. lucidus = clear.

lue- syphilis lumb- loin

lumbar: Lt. lumbus = loin adj.- see loin.

lumbrical: Lt. lumbricus = worm, hence worm-shaped muscles of the palm.

Lumen (LOO-mehn) the potential space w/n a tubular structure.

i.e. the hole in the tube

lumen: Lt. = opening, hence the space within a tube.

lunate: adj. Lt. luna = moon, hence, crescentic.

Lung one of two large organs in the thoracic cavity which is responsible for the exchange of respiratory gases.

luteum: adj. Lt. = yellow.

ly- dissolved

Lymph (lihmf) the slow-moving fluid w/n lymphatic vessels of the lymphatic system.

lymph: Lt. lympha - clear spring water. adj. - lymphoid, lymphatic **Lymph node** a small, oval organ located w/n the lymphatic vessel network.

Lymph nodules a compact cluster of lymphocytes w/n a lymph node. lymphatic: a vessel carrying lymph.

Lymphatic tissue a specialized type of CT containing an abundance of lymphocytes. (= lymphoid tissue).

Lymphatic vessel a hollow tubular structure similar to a vein that transports lymph in a direction leading toward the heart.

Lymphocyte (LIHM-fo-site) a type of WBC lacking large granules in the cytoplasm it plays a central role in immunity.

lys- disintegrate

Lysosome (L1-so-sohm) a cellular organelle that contains digestive enzymes.

A M

macro- big

macroscopic: adj.Gk. makros = large, and skopein = to examine; hence, large enough to be seen with the naked eye, e.g., pertaining to gross anatomy.

Macrophage (MAK-ro-fahrj) a large phagocytic cell originating from a monocyte.

macula: Lt. = spot (cf. immaculate - spotless); adj.- macular.

Macula lutea (MAK-yoo-law LOO-tee-ah) a yellow-colored depression in the retina of the eye.

magna- large, great

makro- big

mal- abnormal bad

malac- soft

K malar- cheek bone

magna: Lt. = great.

Major (MAY-jaw) bigger of the 2 things

 \mathbf{M} malleolus: diminutive of Lt. malleus = hammer, adj.- malleolar.

Malleus (MAL-ee-uhs) the lateral ear bone that contacts the tympanic membrane; = the hammer.

malleus: Lt. = a hammer.

mamma: Lt. = breast; adj.- mammary.

Mammary (MAM-ar-ree) **gland** a modified sweat gland in the breast that serves as the gland of milk secretion for nourishment of the young.

mammilla: diminutive of mamma; adj.- mammillary.

mandible: Lt. mandere = to chew; hence, the movable lower jaw; adi.- mandibular.

manubrium: Lt. = handle; adj.- manubrial.

man- hand

manus: Lt. = hand (cf. manual).

Marrow (MAR-oh) the soft, highly vascularized tissue w/n bone. It includes yellow marrow, consisting of adipose tissue, and red marrow, which consists of blood- forming tissue (also = haeopoietic tissue).

margin: the edge or border of a surface; adj.- marginal.

masseter: Gk. = chewer; adj.- masseteric.

mast- pertaining to the breast

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Mast cell (MAH-st) a basophil that has migrated out of the BS to the extracellualr tissue generally found in loose CT. It secretes heparin (an anticoagulant) and seratonin (promotes inflammation) and the immune response.

mastication: Lt. masticere = to chew.

mastoid: adj.Gk. mastos = breast or teat, and eidos = shape or form. (mass-tovd)

Matrix (MAY-trihks) the intercellular material in CT.

matrix: Lt. = a female animal used for breading, womb; refers to ground substance of CT, and nail bed.

maxilla: Lt. = jaw-bone; now used only for the upper jaw; adj.-maxillary.

maz- breast

meat- opening

Meatus (mee-AY-tus) canal opening passage

meatus: Lt. = passage; adj.- meatal.

medi- middle, intermediate

Medial (MEE-dee-al) a directional term describing a part lying nearer to the vertical midline of the body relative to another part.

medial: adj.Lt. medius = middle; hence, nearer the median plane. median: Lt. medianus = in the middle.

Mediastinum (mee'-dee-ah-STIH-nuhm) the region in the thoracic cavity b/n the two peural cavities. It consists of the heart, part of the oesophagus, part of the trachea, and the major vessels of the heart.

mediastinum: Lt. medius = middle, and stans = standing; a median vertical partition, adj - mediastinal.

medius: Lt. = middle.

Medulla (meh-DUL-ah) an inner, or deeper, part of an organ. e.g. the medulla of the kidneys, the medulla of the adrenal gland & the lymph node. ≠ cortex

medulla: Lt. = marrow; applied to part of an organ deep to its cortex; & to the SC & adjoining part of brain stem adj - medullary

 $\begin{tabular}{ll} \bf Medulla\ oblongata\ (meh-DUHL-ah\ ob'-long-GAR-tah)\ the\ inferior\ part\ of\ the\ brain\ stem. \end{tabular}$

Medullary cavity (mehd-UL-lar-ee KAV-ih-tee) the potential space w/n the shaft of a long bone. In the adult this contains yellow marrow.

meg- large megalo- large

meio- reduce, contract

mel- limb, cheek

A melan- black

Melanin (MEHL-ah-nihn) a dark pigment released into some parts of the body like the skin.

C **Melanocyte** (MEHL-ahn-o-site') a cell normally located deep to the epidermis in the skin that secretes melanin.

Melanoma (mehl-an-OH-mah) a highly metastatic malignancy arising from melanocytes in the skin. (also = malignant melanoma).

Melatonin (mehl'-ah-TO-nihn) a H secreted by the pineal gland. It may play a role in circadian rhythms.

 G Membrane (MEHM-bran) a thin sheet of tissue that lines or covers body structures. It may contain a thin layer of epithelial tissue and CT, or only CT.

 $\label{eq:membrane: Lt. membrana = a thin sheet; adj.- membranous.}$ $\textbf{Membranous bone} \ a \ type \ of \ embryonic \ osseous \ tissue \ representing$

J early skeletal development in a late embryo.

men- menses

meninges: pl. of Gk. meninx = a membrane; adj.- meningeal. meniscus: Lt. menis - a small crescent.

ment- mind, chin

mental: adj.- Lt. mentum = chin; or Lt. mens = mind.

mer- part, segment

mes- middle

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mesencephalon: Gk. mesos = middle, and enkephalos = brain; adi.- mesencephalic.

mesenchyme: Gk. mesos = middle, & chymos = juice; the embryonic CT of the mesoderm.

mesentery: Gk. mesos = middle, and enteron = intestine; the peritoneal fold which tethers the centrally placed small intestine; adi. - mesenteric.

Mesoderm (MEEZ-oh-derm) the middle of the three primary germ layers in a developing embryo that forms the muscles, the heart and BVs, & the CT.

mesoderm: Gk. mesos = middle, and derma = skin; the middle germ layer of the embryo.

/ **Mesothelium** (mehz*-oh-THEE-lee-uhm) a simple squamous epithelium lining parts of the body's ventral cavity.

mesosalpinx: Gk. mesos = middle, and salpinx = tube; the intermediate part of the broad ligament.

meta- subsequent, transformation, between, changing after metacarpus: Gk. meta = after, and karpus = wrist; adj.-

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metacarpal.

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metaphysis: Gk. meta = after, and physis = growth; hence, b/n the 2 ends of a long bone. alongside the epiphysial or growth cartilage; adj.- metaphysial.

metatarsus: Gk. meta = after, and tarsos = ankle; hence, the bones beyond the tarsus, adj. - metatarsal.

metopic: adj.Gk. metopon = forehead.

micro-small

Microfilament (mi'-kro-FIHL-ah-mehnt) a rod-shaped component of cytoplasm composed of protein. It provides mobility for the cell.

Microglia (mi'-kro-GLEE-aw) a type of neuroglia in the brain characterized by its small size & phagocytic function.

Microtubule (mi'-kro-ew-yool) a tube-shaped component of cytoplasm composed of protein providing support and shape for the cell.

Microvilli (mi'-kro-VIHL-i) microscopic extensions of the cell membrane filled with cytoplasm that serve to increase the absorptive surface area of the cell.

micturition: Lt. micturare = to desire to pass urine.

mid- middle

Midbrain (MID-brayn) the superior part of the brain stem, located b/n the diencephalon and the pons. It serves as a relay center for impulses. (also = the mesencephalon).

Middle ear the area of the ear b/n the tympanic membrane of the outer ear & the bony labyrinth of the inner ear. It is an epithelial-lined space housing the 3 ear ossicles. (also = the tympanic cavity).

Midsagittal (MID-sahj-ih-tahl) a plane that extends vertically through the body, dividing it into unequal right and left portions.

milli- thousandth

minimus-smallest

minimus: Lt. = smallest.

minor- smaller of 2 things mio- reduced contraction

miosis: Gk. meiosis = lessening; hence, pupillary constriction; adj.- miotic.

Mitochondrion (mite'-o'-KOHN-dree-ohn) a cellular organelle that consists of a double layer of plasma membrane where many of the catabolic activities of the cell take place.

Mitosis (mi-TO-sihs) the division of a cell's nucleus into two daughter nuclei, each of which contains the same genetic composition as the original parent. When mitosis is followed by cytokinesis, equal division of the whole cell results.

Mixed nerve a nerve that contains axons from sensory and motor neurons.

mnem- memory (mem)

modality: Lt. modus = mode; hence, a form of sensation - e.g. touch, pain, sight.

modiolus: Lt. a cylindrical borer with a serrated edge; hence, like a screw; the central stem of the bony cochlea.

molar: adj.Lt. mola = mill.

Monocyte (MON-oh-site) a large, agranular WBC that is phagocytic. If the cell moves from the BS to the extracellular tissue, it is called a macrophage.

mons: Lt.= mountain; mons pubis, the soft tissue bulge over the female pubes.

morph- shape

morphology: Gk. morphos = form, and logos = word or relation; hence, study of pattern of structure; adi, morphological.

Motor end plate the portion of the sarcolemma of a muscle fiber that is in close association with a motor neuron.

Motor nerve a nerve that contains axons from motor neurons, and thereby transmits impulses away from the CNS.

Mucosa (myoo-KO-saw) an epithelial membrane that lines a body cavity or organ & contains cells that secrete mucus. (= mucous membrane).

Mucous (MY00-kuhs) **cell** a unicellular gland that secretes mucus. (= a goblet cell).

 Mucus (MY00-kuhs) a thick fluid secretion from mucous cells, containing mostly water & polysaccharides.

multi- many (mul-tee)

multifidus: Lt. multus = much, and findere = to split.

Muscle (MUSS-I) an organ composed of skeletal muscle tissue & its associated CT that functions mainly in the production of movement of the skeleton.

muscle: Lt. musculus, diminutive of Gk. mus = mouse, the body and head of which represent the main belly of a muscle, and the tail, the tendon.

Muscle fibre a synonym for muscle cell.

X Muscle tissue one of the 4 primary types of tissue in the body, characterized by its ability to contract.

Muscularis (muhs'-kyoo-LAHR-ihs) a layer of smooth muscle tissue w/n the wall of an organ.

mycet- fungal (my-seet-)

mydriasis: Gk. = dilatation of the pupil.

myel- bone marrow, spinal cord

myelin: Gk. myelos = marrow; hence, white fatty sheath of an axis cylinder; adj. -.myelinated.

Myelin sheath (MI-eh-lihn sheth) a white, segmented insulative cover over the axons of many peripheral neurons that is produced by Schwann cells. A neuron axon that is covered by the myelin sheath is said to be myelinated.

myenteric: Gk. mys = muscle, and enteron = intestine, pertaining to the muscle of the qut.

myl- molar

mylohyoid: Gk. mylo = molar, and hyoeides = U-shaped.

Myocardium (mi'-o-KAHR-dee-uhm) the primary layer of the heart wall, composed of cardiac muscle tissue.

myocardium: Gk. mys = muscle, and kardia = heart, adj.- myocardial.

Myofibril (mi'-o-FI-brihl) a rod-shaped component of a muscle fibre, which extends the length of the fibre and is composed of thin and thick filaments of protein.

Myometrium (mi'-o-MEE-tree-uhm) the smooth muscle layer in the wall of the uterus.

myotome: Gk. mys = muscle, and tome = a cutting; a group of muscles innervated by spinal segment.

myx- mucoid (mix)



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Nail a thin, hard plate of mostly keratin, derived from the epidermis and develops at the distal end of the fingers and toes.

narc- stupor

nares: plural, Lt. naris = nostril.

nas- nose (nays-)

naris- nose (na-ris-)

naris: Lt. = nostril, plural - nares.

nasal: adj. Lt. nasus = nose; hence, pertaining to the nose.

natal: adj. Lt. natus = born; hence, pertaining of birth.

navicular: Lt. navicula = a little ship; the tarsal bone is concave posteriorly, resembling a boat.

necro- death

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Necrosis (neh-KR0-sihs) death of a cell, a group of cells, or a tissue K due to disease.

neo-: Gk. prefix - neos = new.

neonatal: adj.Gk. neos = new, and Lt. natos = born; hence, newborn.

neopallium: Gk. neos = new, and Lt. pallium = cloak; hence, the cerebral cortex which developed more recently than the archipallium or olfactory cortex.

nephro- renal kidney

Nephron (NEH-frohn) the smallest functioning unit of the kidney each of which filters, reasborbs and secretes the non-protein fluid of the blood.

R Nerve an organ of the NS composed of a bundle of neurons, axons and dendrites invested & surrounded by CT and BVs, which functions in the conduction of an impulse from one area of the body to another.

nerve: Lt. nervus = tendon; now a peripheral fibre bundle which conducts impulses to/from the CNS

Nerve bundle also known as a nerve fasciculus, it is a cord of individual myelinated axons surrounded by perineurium. Numerous bundles compose a single nerve.

Nerve impulse a wave of negative charges (depolarization) that propagates along the outer surface of the plasma membrane of a conductive cell, such as a neuron. (also = an action potential).

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Nervous tissue a tissue that consists of two generalized cell types, neurons and neuroglia. Neurons are specialized to initiate action potentials and conduct them at high speeds. Neuroglia provide numerous supportive functions, they are the CT cells of the CNS. **Nerve trunk** a combination of nerves that are secured together by

neur- nerve

neural: adj.Gk. neuron = nerve adj. neurium.

epineurium to form a thickened cord of NT.

Neurilemma (noo'-rih-LEHM-ah) the outer layer of a myelin sheath associated with a nerve fiber that contains the nucleus and much of the cytoplasm of a Schwann cell.

Neurocranium (new-ROH-kray-NEE-uhm) the part of the skull which houses the brain.

Neuroglia (new'-ROHG-lee-ah) supportive cells of the NS that are most prevalent in the brain and spinal cord. (sing. = pl.)

neuroglia: Gk. neuron = nerve, and glia = glue; the CT of the CNS adj. neuroglial.

Neurohypophysis: also = the posterior lobe of the pituitary gland. It is composed of NT and is connected to the hypothalamus of the brain by the narrow stalk, the infundibulum. The neurohypophysis receives two hormones released by neurons in the hypothalamus, oxytocin and antidiuretic hormone (ADH).

neurohypophysis: or posterior lobe of hypophysis - Gk. hypo = down, and physis = growth; hence, the posterior part of the hypophysis evaginated downwards from the diencephalon, and its stalk.

neurolemma: Gk. neuron = nerve, and lemma = peel or rind; hence, the covering layer of a nerve.

Neuromuscular junction (new'-ro-MUHS-kyoo-lawr JUHNK-shuhn) the area of contact b/n the terminal end of a motor neuron and the sarcolemma of a skeletal muscle fiber.

Neuron (NEW-ron) a cell of NT characterized by its specialization to conduct impulses (conductivity).

neuron: Gk. = nerve; refers to the nerve cell body, with its axon and dendrites; adj- neuronal.

Neurosecretory (new'-roh-seh-KREE-tor-ee) **cells** Neurons that extend from the hypothalamus to the posterior lobe of the pituitary gland and secrete the hormones oxytocin (OT) and antidiuretic hormone (ADH).

Neurotransmitter (new'-ro-TRANS-miht-ah) a molecule that transmits or inhibits the transmission of a nerve impulse from one neuron to another across a synapse.

C neutro- neutral

Neutrophil (NEW-tro-fihl) a type of granular, phagocytic WBC characterized by a cytoplasm that stains pink/purple in a neutral stain i.e. does not preferentially take up either acid or base of the stain.

nigra: Lt. niger = black, dark.

noci- pain (noh-see)

node: Lt. nodus = knot.

Node of Ranvier (rahn'-vee-A) a gap in the myelin sheath covering a nerve fiber. It accelerates the rate of impulse conduction.

nodule: diminutive of Lt. nodus = knot, hence, a little knot. norma: Lt. = pattern or rule, or aspect; adj. normal - according to rule.

notch: an indentation in the margin of a structure in organs (e.g., liver, frontal bone).

notochord: Gk. notos = back, and chorde = cord; hence, the primitive axial skeleton around which the vertebrae develop, parts persisting in the nuclei pulposi.

nucha- nape of the neck (new-kah-)

nucha: French nuque = nape or back of the neck; adj.- nuchal.

Nucleolus (new-KLEE-o-luhs) a spherical body w/n the nucleus of a cell, not bound by a plasma membrane. It functions in the storage of ribosomal RNA.

Nucleus (NOO-klee-uhs) the largest structure in a cell. It contains the genetic material to determine protein structure and function, the DNA, and is enveloped by a double-layered plasma membrane. (also, the dense core of an atom containing protons and neutrons).

nucleus: Lt. = kernel or nut; may refer to the vital centre of a cell body, or to a cluster of neuron cells in the CNS; adj.- nuclear. nystagmus: Gk. = drowsiness, to nod, hence, involuntary, rapid, rhythmic eye movements.

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ob- against, in front of

obex: Lt. = barrier; hence, the coronal fold of ependyma over the lower angle of the 4th ventricle.

Oblique (OH-bleek) slanting or deviated

oblique: adj.Lt. obliquus; slanting, or deviating from the perpendicular or the horizontal.

oblongata: Lt. oblongus = oblong; medulla oblongata.

obturator: Lt. obturatus = stopped up; hence, a structure which closes a hole.

oc- against infront of

occiput: Lt. ob = prominent and caput = head; the prominent convexity of the back of the head;

occlusion: Lt. occlusum = closed up; apposition of reciprocal teeth; blocking of any tubular structure;

oculomotor: Lt. oculus = eye, and movere = to move, hence, pertaining to moving the eye.

ocul- eye (ok-ewl)

oculus: Lt. = eye.

oedem- swelling

odontoid: Gk. odous = tooth, and eidos = form, shape, hence, tooth-like.

oesophagus: Gk. = gullet (passage from pharynx to stomach); adj.- oesophageal.

Olecranon (OH-lek-ran-on) to do with the elbow

olecranon: Gk. olene = ulna, and kranion = upper part of head; the upper end of the ulna.

olfactory: adj. Lt. olfacto = smell.

olig- scant, deficent, few, little

olive: Lt. oliva - the oval fruit of the olive tree; oval eminence on medulla oblongata; adj - olivary.

om- shoulder

omentum: Lt. = apron; adj.- omental.

omohyoid: Gk. omos = shoulder; hence, a muscle attached to the scapula and hyoid.

onc- cancer

Oncogene (OHN-ko-jeen) a gene that can transform the cell into an oocyte

ability to dissolve bone matrix. **Osteocyte** (OS-tee-o-site') a type of bone cell characterized by its
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immobile location within a lacunus and by a reduced ability to produce bone matrix.

osteology: Gk. osteon = bone, logy = a field of study.

Osteon (OS-tee-on) an organized arrangement of bone tissue in adult compact bone such that the bone matrix concentrically surrounds a central canal containing a BV. (also = an Haversian system).

Osteonic canal the central canal in an osteon that contains a BV. (also = Haversian canal).

-osteum pertaining to bone (os-tee-um)

osteum: Lt. pertaining to bone ostium: Lt. = a door, an opening, an orifice.

ot- ear

otic: adj.Gk. otos = ear.

Otoliths small calcium carbonate crystals located w/n the maculae of the inner ear's utricle and saccule. The otoliths move in response to head movements, shifting their mass which distorts the hair cell processes. As a result, nerve impulses are generated to the brain for interpretation as head movements for static equilibrium.

otolith: Gk. otos = ear, and lithos = stone; hence, calcareous particles in the utricle and saccule of the membranous labyrinth.

Ovary (OH-vahr-ee) the female gonad, or primary reproductive organ that produces gametes and female sex hormones

ovary: Lt. ovum = egg; hence, the organ containing ova (the largest cells in the female).

ovum: Lt. = egg, plural - ova.

oxy- sharp



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The A to Z of Anatomical Histological and Medical terms
   Pacinian corpuscle (pa-SIHN-ee-an KOR-puhs-ehl) a receptor
   located in the dermis that responds to touch (pressure).
   pachy-thick (pak-ee)
   paed-child
       palate: Lt. palatum = palate, adj.- palatal or paLt.e.
       paleo: Gk. palaios = old: hence, paleocerebellum, the earliest
       stage in the evolution of the cerebellum.
   pali- recurrence
       pallidus: adj.Lt. = pale.
       pallium: Lt. = cloak:, the cerebral cortex forming the outer
           covering of the cerebral hemisphere.
       palma: Lt. palma = palm; adj, palmar - Lt. palmaris.
       palpate: Lt. palpare = to touch, and palpatus = touched; to
           examine by feeling, and palpation.
       palpebra: Lt. = evelid.
       pampiniform; adi. Lt. pampinus = tendril, and forma = shape.
M pan- general overall
   Pancreas (PAN-kree-as) a soft, oblong organ located posterior to the
   stomach in the abdominal cavity. The pancreas secretes digestive
   enzymes and hormones that regulate blood sugar.
       pancreas: Gk. = sweetbread, derived from Gk. pan = all, and
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           kreas = flesh; adj. pancreatic.
       panniculus: diminutive of Lt. pannus = cloth.
   Papilla (paw-PIHL-ah) a small finger-shaped projection.
       papilla: Lt. = nipple or teat; adj.- papillary.
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   par- beside
   para- against, aside, abnormal, unequal
           spermatic cord, above the head of the epididymis.
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paradidymis: Gk. para = beside of near, and didymis = twinned or paired, refers to testes; the collection of convoluted tubules in the

paraesthesia: Gk. para = beside, and aisthesia = sensation; abnormal sensation, ea burning or pricking.

paralysis: Gk. para = beside, near, lyein = to loosen; loss or impairment of muscle function.

parametrium: Gk. para = beside, & metra = womb; CT within the broad ligament alongside the uterus.

paraplegia: Gk. para = beside, and plege = a stroke; paralysis of the lower limbs.

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pararenal: adj. Gk para = beside, Lt. ren = kidney; beside the kidney, eg, pararenal fat, the fatty capsule of the kidney

Parasagittal (pahr'-ah-SAHJ-ih-tahl) A plane that extends vertically through the body dividing it into unequal right and left portions.

parasternal: adj. Gk. para = beside, and sternon = chest; the parasternal line is a vertical line midway b/n the sternal edge & the midclavicular line.

Parasympathetic division (pahr'-ah-sihmp-ah-THEH-tihk dih-VISH-zhuhn) the component of the ANS that stimulates activities which conserve body energy and direct BF to the GIT &/or the sexual organs. The nerves synapse "beside" the organs they affect.

parasympathetic: adj. Gk para = beside, syn = with, and pathos = feeling; part of the autonomic NS which is complementary to the sympathetic NS

Parathyroid (pahr'-ah-THI-royd) **gland** One of 4 or 5 pea-shaped glands located embedded into the posterior side of the thyroid gland. parathyroid: adj. Gk. para = beside, (thyroid); beside the thyroid gland.

Parenchyma (par'-EN-kihm-ah) the functioning elements of an organ as opposed to the structural or supporting elements (also ≠ stroma) parenchyma: Gk para = beside or near, en = in, and chein = to pour; designating the functional elements of an organ, as opposed to the framework or stroma.

paresis: Gk. = relaxation, but has come to mean partial paralysis. **Parietal** (pa-Rl-eh-tal) pertaining to the outer wall of a cavity or organ e.i. parietal layer of the pericardium outer of the 2 layers of the pericardium ≠ visceral.

parietal: adj. Lt. parietalis, pertaining to paries = wall.

Parietal cell a cell in the stomach mucosa that secretes hydrochloric acid and intrinsic factor.

Parietal pericardium (peh-ree-KARD-ee-um) the outer serous membrane covering the heart.(also = the pericardial sac).

Parietal pleura (PLEW-rah) the outer serous membrane associated with each lung. It is attached to the inner thoracic wall.

Parotid (pah-ROHT-ihd) **glands** a pair of salivary glands, each of which is located between the skin of the cheek and the masseter muscle on a side of the face.

parotid: adj. Gk. para = beside, and otos = of the ear; hence, beside the ear.

parous: adj. Lt. pario = I bear (children); adj. applied to women who have borne children ≠ nulliparous,

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pars: Lt. = part.
   part- childbirth
       patella: Lt. a small pan; adj.- patellar.
   path- disease
   Pathology (pahth-OH-loh-jee) the study or science of diseases.
       pecten: Lt. = comb.
       pectinate: adj. from Lt. pecten = a comb; applied to structures
       having the appearance of parallel teeth arising from a straight
            back (eg. musculi pectinati) pectineal: adj.
       pectineus: Lt., pecten = a comb; hence the muscle attaching to
            the pecten (pectineal line) of the pubic bone.
       pectoral: adj. Lt. pectoris = of the front of the chest.
       pectoralis: adj. Lt. pectoris = of the front of the chest.
       pedicle: diminutive of Lt. pedis = of the foot.
       pedis: Lt = of the foot.
       peduncle: variation of pedicle.
       pellucidum: adj. Lt. per = through, and lucere - to shine;
            translucent.
       pelvis: Lt. = basin, adi.- pelvic.
   Penis (PEE-nihs) the external reproductive organ of the male through
   which most of the urethra extends.
       penis: Lt. = tail, the male organ of copulation (cf. appendix,
            appendage).
       pennate: Lt. penna = feather; hence, a muscle whose fibres
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       approach the tendon from one direction is unipennate; from two,
            bipennate, and from more than two, multipennate.
       pennatus: (pinnate) - adj. Lt. penna = feather; hence, a muscle
       whose fibres approach the tendon from one direction is
       unipennate: from two, bipennate, and from >2, multipennate.
   per- through / excessive
   peri- around, about / beyond
       perianal: adj.Gk. peri = around, and Lt. anus = lower opening of
       alimentary canal.
   Pericardial (pear'-ih-KAR-dee-ahl) cavity a narrow space b/n the
   outer wall of the heart (the visceral pericardium) & the parietal
   pericardium. It contains pericardial fluid.
X Pericardium (pear'-ih-KAR-dee-uhm) the serous membrane
   associated with the heart, composed of two layers, an inner visceral
   pericardium and an outer parietal pericardium.
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pericardium: Gk. peri = around, and kardia = heart; hence, the

membranes enclosing the heart.

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The A to Z of Anatomical Histological and Medical terms
Perichondrium (pear'-ih-KOHN-dree-uhm) a layer of dense CT that
envelopes cartilage.
    perichondrium: Gk. peri = around, and chondros = cartilage;
         hence, the membrane covering cartilage.
    pericranium: Gk. peri = around, and kranion = skull; hence, the
         external periosteum of the skull.
    perilymph: Gk. peri = around, and lympha - Lt. = clear water; the
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(and continuous with the CSF). Perimysium (pear'-ih-MI-see-uhm) an extension of the epimysium of muscle that invaginates inward to divide a muscle into bundles.

fluid in the bony labyrinth surrounding the membranous labyrinth

perineum: Gk. the caudal aspect of the trunk b/n the thighs, or, the region of the trunk below the pelvis

Perineurium (pear'-ih-NYEW-ree-uhm) an extension of the epineurium of a nerve that invaginates inward to wrap around bundles of nerve fibers.

pelvic diaphragm; adj.- perineal.

periodontal: adj.Gk.peri = around, and odont = tooth.

Periodontal ligament (pear'-ee-o-DON-tal LIG-ah-ment) a CT membrane that surrounds a tooth and connects it to the bone of the iaw.

Periosteum (pear'-ee-OS-tee-uhm) the CT covering around a bone that is important in bone growth, nutrition, and repair.

periosteum: Gk. peri = around, and osteon = bone: the membrane around a bone.

Peripheral (per-IH-fehr-ahl) nervous system (PNS) The division of the NS consisting of nerves and ganglia located between the CNS and the body surfaces.

peripheral: adi.Gk. peri = around and phero = carry: away from the centre (c.f. periphery).

peristalsis: Gk. peri = around, and stellein - to constrict: a circular constriction passing as a wave along a muscular tube; adj.peristaltic.

Peritoneal (pear'-ih-to-NEE-awl) **cavity** the space between the parietal peritoneum and the visceral peritoneum. It contains a small amount of fluid.

Peritoneum (per'-ih-to-NEE-uhm) the extensive serous membrane associated with the abdominopelvic cavity.

peritoneum: Gk. periteino = to stretch around: the membrane stretched around the internal surface of the walls and the external aspect of some of the contents of the abdomen; adi.- peritoneal.

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pero- stunted, malformed
   Peroxisomes (pehr-OHX-ih-sohmz) small, spherical cellular
   organelles similar to lysosomes that play catabolic roles in the cell.
       peroneal: adi.Gk. perone = clasp. brooch - see fibula.
       pes: Lt. = foot.
   petr- rock, stone
       petrosal: adj.Lt. petrosus = rocky. / petrous: adj.Lt. petrosus =
       rocky.
   Peyer's patches (PA-yehrz PAH-chuhz) clusters of lymphatic tissue
   (farj-) containing numerous WBC that are located in the wall of the
   small intestine.
H phag- eater
   Phagocytosis (fayg'-o-sih-TO-sihs) a type of cytosis in which bulk
   solid materials may be transported into a cell. It is performed by WBCs
J for the removal of harmful particles and cells from the body. Large
   groups of WBCs may coalese to form Giant cells to engulf large
   particles such as cotton fibres.
   phalang- fingers or toes (falanj-)
       phalanx: Lt. = row of soldiers; one of the small bones of a digit,
           pl- phalanges, adj.- phalangeal.
       phallus: Gk. phallos = penis.
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   phan- appear visible
   phao- brown, dusky
Pharynx (FAHR-ihnks) a tube that extends from the level of the
   internal nares to its union with the larvnx, which transports air, food,
Q and liquid.
       pharynx: Gk. = throat; adj.- pharyngeal.
   phas- appear visible, speak utter
   phen- light bright manifest
       philtrum: Gk. philtron - the median sulcus of the upper lip.
   phleb- vein (fleb-)
   phleg-inflammation
   phon-voice
       phonation: Gk. phone = sound or voice; the production of either.
   phren- mind, diaphragm
       phrenic: Gk. phren = diaphragm or mind; hence, diaphragmatic
       (cf. schizophrenic).
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   physi- natural (fizz-ee)
       pia: Lt. = faithful, the membrane which faithfully follows the
       contour of the brain and SC. = soft
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Pia mater (PE-ah MA-tehr) The innermost of the three meninges surrounding the brain and SC.

pilomotor: Lt. pilus = a hair, and movere = to move; the action of the arrectores pilorum muscles.

pilus: Lt. = a hair.

Pineal (pie-NEE-ahl) **gland** a small endocrine gland located at the posterior end of the diencephalon, forming a part of the roof of the third ventricle. (also = the epithalamus).

pineal: adj. Lt. pinea = a pine cone; hence, the pineal gland which is cone-shaped.

Pinocytosis (pihn'-o-sih-TO-sihs) a type of exocytosis in which bulk amounts of fluid are transported into the cell.

punts of fluid are transported into the cell.
piriform: adj. Lt. pirum = a pear; hence, pear-shaped.

pisiform: adj. Lt. pisum = a pea; hence, pea-shaped. pituitary: Lt. pituita = mucous or phlegm, the gland was thought to produce mucous which was discharged through the nose.

Pituitary (pih-TEW-ih-tahr-ee) **gland** a small, functionally important endocrine gland located inferior to the hypothalamus and attached to it by way of a short stalk. (also = the hypophysis).

placenta: Lt. = a flat, round cake.

placode: Gk. plax = plate or flat, and eidos = shape or form.

plan- flat level, to wander plat- broad flat

plane: Lt. planus = flat; hence, a real or imaginary flat surface. planta: Lt. the sole of the foot; adj.- plantar or plantaris. plantar: adj. Lt. planta = the sole of the foot.

Plasma (PLAHZ-mah) the extracellular fluid that forms a portion of blood.

Plasma membrane a microscopic barrier associated with cells composed mainly of a phospholipid bilayer and protein. The outer plasma membrane of a cell is also called the cell membrane.

Platelet (PLA-teh-leht) a formed element of blood that is active in blood clot formation.

platysma: $Gk. = flat \ object;$ the flat, subcutaneous muscle extending from below the clavicle to the mouth.

pleo- many (plee-oh-) pleur- lungs, respiratory

Pleura (PLEW-rah) the serous membrane associated with the lungs. It consists of an inner visceral layer and an outer parietal layer.

pleura: Gk. = a rib. Later used to name the serous membrane lining the chest walls and the lungs.

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Pleural cavity a narrow space between the visceral and parietal
   pleurae that contains pleural fluid.
   Plexus (PLEHKS-uhs) a network of interconnecting nerves, veins, or
C lymphatic vessels.
       plexus: Lt. = a network or plait.
       plica: Lt. plicare = to fold; hence, a fold.
   pluri- several
   pne- air, breathe (new)
       pneumon: Gk. pneuma = air.
   pod- foot
   Podocyte (PO-doh-site) a fenestrated cell forming the visceral layer of
H Bowman's capsule in the kidneys.
   poikilo- irregular
   polio- grey (poh-lih-oh)
   pollex- thumb
       pollex: Lt. = thumb.
       pollicis: genitive (possessive case) of Lt. pollex = thumb; hence of
       the thumb.
   polv- many
   Pons (pohnz) a part of the brain located between the midbrain and the
   medulla oblongata.
       pons: Lt. = bridge; adj.- pontine; part of the brain stem.
   pont- bridge
       popliteus: Lt. poples = the ham or thigh, and sometimes, the
P
       knee; adj.popliteal, referring to the fossa behind the knee or its
       contents.
   por- passageway
       porta: Lt. = a gate, also Lt. portare = to carry; hence, the portal
       system carries venous blood from the alimentary tract to the porta
           hepatis; adj.- portal.
       porus: Lt. a pore or foramen; hence, the openings of the acoustic
       meatuses.
   post- after behind
   postero- posterior part
   Posterior (po-STEER-ee-or) a directional term describing the location
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of a part being toward the back or rear side relative to another part.

posterior: adj. Lt. post = behind (in place or time). **Posterior horn** a region of the SC grey matter containing sensory

X In humans it is also known as dorsal.

neuron cell bodies.(also = the ventral horn).

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Posterior root the structure merging with the SC on its posterior aspect that contains sensory nerves. (also = the dorsal root).

Posterior pituitary gland the part of the pituitary gland at the base of the brain consisting of the axons of neurons originating in the hypothalamus and supporting tissue.

posture: Lt. positus = placed; hence, the position of the body as a whole at a given moment, e.g. erect, recumbent, prone, supine, sitting, kneeling.

prae- in front of before

pre- in front of before

precuneus: Lt. pre = before, and cuneus = wedge; the parietal lobule anterior to the cuneus.

prepuce: Lt. praeputium = foreskin (of penis or clitoris).

presby- old prim- first

Primary germ layer One of 3 layers of cells that differentiate during the embryonic stage to give rise to all tissues in the body. They are the endoderm, mesoderm, and ectoderm.

princeps: Lt. primus = chief, and capere = to take; hence chief or principal.

procerus: Lt. = slender, elongated; hence, the vertical slip of muscle between the medial part of frontalis and the root of the nose.

pro- in front of

Process (PROH-sehs) general term used to describe any marked projection or prominence

process/processus: Lt. = going forwards, indicating growing out, ie. an outgrowth, usually bone eg, the zygomatic process of the temporal.

proct- anus rectum

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profundus: Lt. pro = before, and fundus = bottom; hence profundus = deep.
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prominens: Lt. = projecting.

promontory: Lt. promontorium = a headland, ie. part of land jutting into the sea - a bony prominence.

pronate: Lt. pronatus = bent forwards; to pronate = to turn the hand so that the palm faces downwards or posteriorly supinate.

prone: Lt. pronatus = bent forwards; recumbent face-down posture.

A pronus- face down

proprioceptive: Lt. proprius = one's own, and captum = taken; sensory impulses received by the joints and muscles within one's own body.

pros- forward anterior

prosection: Lt. pro = before, and sectum = cut. A dissection to demonstrate anatomic structures.

prosector: Lt. pro = before, and sectum = cut. One who prepares an anatomical dissection $\,$

prosencephalon: Lt. pro = in front, and Gk. enkephalos = brain; part of the brain rostral to the midbrain.

Prostate (PROH-stat) **gland** a walnut-shaped gland surrounding the urethra as it emerges from the urinary bladder in males. Its secretions contribute to semen.

prostate: Gk. pro = before, & Lt. = statum = stood; something which stands before - e.g. the prostate gland stands before the urinary bladder.

protract: Lt. protractus = drawn out; hence, to put forwards (e.g., shoulder or mandible). Protraction - the act of protracting.

protrude: Lt. protrudo = thrust forwards, e.g. the tongue; protrusion - the act of protruding.

protuberance: Lt. protubero = I bulge out; hence, a bulging bony feature (see tuber).

Proximal (PROHKS-ih-mal) a directional term indicating a body part that is located nearer to the origin or point of attachment to the trunk than another; opposite of distal.

proximal: adj .Lt. proxime = nearest; hence, nearer to the root of a limb.

pseudo- false (syoo-doh)

Pseudopod (SOO-do-pohd) a streaming extension of plasma membrane-bound cytoplasm from a mobile cell.

U Pseudostratified (sew'-do-STRAHT-ih-fide) pertaining to a single layer of epithelial cells which appears multi-layered when viewed in a V prepared slide.

pseudostratified Lt. pseudo = false stratified = multi-layered

psor- itching (saw-)

psoas: Gk. = loin.

pter- wing (ter-)

pterion: Gk. pteron = wing; the region where the tip of the greater wing of the sphenoid meets or is close to the parietal, separating

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The A to Z of Anatomical Histological and Medical terms
the frontal from the squamous temporal; alternatively the region
where these 4 bones meet.
pterygoid: adj.Gk. pteryx = wing, and eidos = shape; hence,
    wing-shaped.
ptosis: Gk. = fall; hence, drooping of an eyelid, or descent of an
    internal organ.
puberty: Lt. puber = adult; hence, the time when hair appears in
the pubic region - i.e., near the pubis - as a secondary sexual
    characteristic.
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pubes: Lt. = adult or signs of manhood, hence the lower abdominal secondary sexual hair.

pudendal: adj.Lt. pudendus = shameful; hence, pertaining to the external genitalia.

pulmonary: adi.Lt. pulmo = lung.

pulp: Lt. pulpa = a soft part of the body or tooth.

Pulp cavity the space w/n a tooth that is filled with pulp, which consists of CT containing BVs & Ns.

pulposus: Lt. pulpa = a soft part of the body or tooth, hence pulpy or soft.

pulvinar: Lt. pulvinus = rounded cushion; the posterior end of the thalamus.

punctum: Lt. = a sharp point; hence a very small point or orifice. pupil: Lt. pupilla = the central black orifice in the iris; adj.pupillary.

Pupil (PYOO-pihl) the small hole through the centre of the iris in the eye through which light passes.

Purkinje cells Large, highly branched neurons in the cerebellar cortex that receive input from many thousands of synapses.

purpur- purple

putamen: Lt. = peel, husk or shell of fruit or seed (the external part of the lentiform nucleus).

pyelogram: Gk. pyelos = basin, and gramma = diagram; hence, radiograph of the renal pelvis (and usually of the ureter) after filling with contrast medium.

pylorus: Gk. = gate-keeper; hence, the part of the pyloric canal containing the sphincter, which guards the opening into the duodenum; adj.- pyloric.

pyramid: Gk. pyramis = a pyramid (solid with 3- or more-sided base, and flat sides

Pyramidal cells neurons w/n the cerebral cortex of the brain which inititate somatic motor impulses.

quad- four

guadrangular: Lt. guadri = four and angulus = angle; hence square or rectangular.

quadratus: Lt. = square or rectangular.

quadriceps: Lt. quadri = four, and caput = head; hence, a 4headed muscle.

quadrigeminus: Lt. quadri = four, and gemini = paired or twinned; hence four-fold.

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rachi- spine vertebral column radi- root, spine, radiation

radiation: Lt. radiatus = radiant: hence, divergence from a common centre (c.f. radius).

radicle: diminutive of Lt. radix = root; hence a small root, adi,radicular.

radius: Lt. = spoke of a wheel, which rotates around the hub: hence, the lateral bone of the forearm, which rotates (though around an almost vertical axis); adj.- radial.

radix: Lt. = root.

ramify: Lt. ramus = a branch; and facere = to make; hence, to branch.

rami- branch (ray-mee)

ramus: Lt. = branch; hence, a branch of a nerve, bone or blood vessel.

raphe: Gk. a seam; hence, the line of junction of the edges of 2 muscles or areas of skin.

re- return, back again

Receptor (ree-SEHP-tor) a structure that is capable of responding to a stimulus by initiating a nerve impulse.

recess: Lt. recessus = a secluded area or pocket; a small cavity set apart from a main cavity.

rectum: adj.Lt. rectus = straight. (The rectum was named in animals where it is straight - not so in Man).

rectus: Lt. rectus = straight.

recurrent: Lt. re = back, and currere = to run; hence a structure which bends, then runs back to its source.

Red bone marrow a CT located within spongy bone which contains the stem cells & their differentiated forms involved in blood cell formation.

Red pulp: part of the interior areas of the spleen (the other is white pulp). Red pulp serves as a storage area for erythrocytes (RBCs), and consists of venous sinuses and cords of CT known as splenic cords. This is contractile in rodents and allows for the release of blood in shock conditions.

reflex: an involuntary response - muscular or secretory - to a stimulus mediated by the CNS.

Region (REE-jon) an area often of the abdomen defined by anatomical surface markers, used to enter the abdomen or to locate p;ain or an abnormality smaller than a zone or zona.

ren- kidney

Renal (REE-nawl) pertaining to the kidneys.

renal: adj.Lt. ren = kidney.

Renal corpuscle (REE-nal KOR-puhs-ehl) the portion of a kidney nephron consisting of the Bowman's capsule and glomerulus (see Corpuscle).

Renal cortex the outer part of a kidney, which contains renal corpuscles and segments of renal tubules.

Renal medulla the inner part of a kidney. It contains renal tubules and BVs. W/n the renal medulla are the renal pyramids, which are striated pyramid-shaped areas formed by the congregation of renal tubules.

Renal pelvis (REE-nal PEHL-vihs) a membrane-lined basin w/n the renal sinus of each kidney.

Renal pyramid (REE-nal PEER-a-mihd) One of about 8 to 10 coneshaped structures in each kideny extending from the medulla to the cortex, which contain the renal tubules.

Renal sinus (REE-nal SI-nuhs) a potential space w/n each kidney extending from the hilum to the medulla. It contains the renal pelvis. Renal tubule (REE-nal TEW-byewl) part of a nephron of the kidney consisting of a simple epithelial lined tube extending from Bowman's capsule to a collecting duct. There are 3 parts to each tubule: the proximal convoluted tubule, the Loop of Henle (= renal loop) and the distal convoluted tubule. The functions of reabsorption, secretion concentration or dilution occur across the walls.

Respiratory membrane the barrier in the lungs which must be crossed by gas molecules during gas exchange. It consists of the alveolar epithelium, a BM, and the endothelium of a capillary.

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The A to Z of Anatomical Histological and Medical terms
    rete: Lt. = a net; hence, a network of veins or tubules.
    reticular: adi.Lt. reticulum = small net; hence having a network.
    reticulum: diminutive of Lt. rete = net; adj.- reticular.
Retina (REHT-ih-nah) the light-sensitive inner layer of the eve
containing rod and cone cells.
    retina: derivation uncertain - the innermost of the 3 layers of the
         eveball.
    retinaculum: Lt. = a tether; hence, a thickened band of deep
         fascia which retains tendons or the patella.
    retract: Lt. re = back, and tractum = pulled; to pull something
    back, and retraction - the act of retracting.
retro- located behind
    retro: prefix - Lt. = backwards.
    retroflexion: Lt. retro = backwards, and flexion = bent; the
    position of being bent backwards, applied to the angulation of the
         body of the uterus on the cervix.
    retroversion: Lt. retro = backwards, and version = turned: the
    position of being turned backwards, applied to the angulation of
    the cervix uteri on the vagina.
rhabdo- striated striped
rhe- flow
rhin- nose
    rhinencephalon: Gk. rhinion = nostril, & enkephalos = brain; the
         brain tissue concerned with smell
    rhombencephalon: Gk. rhombos = rhomboid, & enkephalos =
    brain; hence, the hind-brain: consisting of the medulla
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oblongata, pons and cerebellum, which enclose the rhomboid fossa (floor of 4th ventricle).

rhod- red

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rhomboid: adj. Gk. rhombus = a figure with 4 equal sides, not at right angles, the shape of a rhombus.

Ribosome (RYE-boh-zome) a microscopic, spherical structure w/n the cytoplasm of a cell composed of RNA and protein. It serves as an attachment site for messenger RNA during protein synthesis.

rima: Lt. = chink; hence, e.g., rima palpebrarum = the chink b/n the free edges of the evelids.

risorius: Lt. risor = scoffer; risorius is the "smiling" muscle drawing the corners of the mouth laterally.

Rod cell a photoreceptor cell in the retina of the eye that detects very low levels of light.

The A to Z of Anatomical Histological and Medical terms

rostral: adj. Lt. rostrum = beak, implying nearness to the corpus callosum.

rostrum: Lt. beak, a platform or beak-like structure; adj.- rostral. rotate: Lt. rota = wheel; hence, to turn, and rotation, the act of turning.

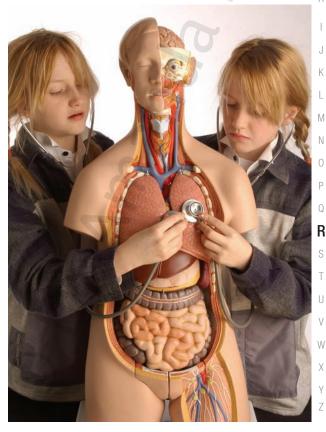
rotundum: Lt. rotnudus = round.

rub- red

rubro: prefix, Lt. rubrum = red.

ruga: Lt. = a wrinkle.

rugose: adj. Lt. ruga = a wrinkle, hence, wrinkled.



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sac: Lt. saccus = a sack.

saccule: Lt. sacculus, diminutive of saccus.

sacrum: Lt. sacer = sacred (probably considered so because of its size).

Sagittal (SAJ-ih-tal) a vertical plane that divides the body into right and left portions, & includes the midsagittal/median sagittal plane (dividing into equal halves) and the parasagittal plane (dividing into unequal portions).

sagittal: adj. Lt. sagitta = arrow, because the sagittal suture is notched posteriorly, like an arrow, by the lambdoid sutures.

Salivary (SAHL-ih-vahr-ee) **gland** one of several exocrine glands in the facial region that secrete saliva into the mouth to initiate the digestive process.

salivary: adj. Lt. saliva = spit.

salping- tube

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salpinx: Gk. = trumpet; the uterine or auditory tubes, each of which is trumpet-shaped.

saphenous: adj. Gk. saphenes = obviously visible. The saphenous veins become obvious when varicose.

Sarcolemma (sar'-ko-LEHM-ah) the plasma membrane covering the outer surface of a muscle fiber.

Sarcomere (SAR-ko-meer) a contractile microscopic subunit of striated muscle (skeletal and cardiac muscle).

Sarcoplasm (SAHR-ko-plahzm) the cytoplasm of a muscle fiber.

R Sarcoplasmic reticulum (sahr'-koh-PLAHZ-mihk reh-TIHK-yew-luhm) a cellular organelle found only in muscle cells that stores calcium ions, and is similar in structure to the endoplasmic reticulum found in other cells, (see also endoplasmic reticulum).

sartorius: Lt. = tailor:, sartorius muscles, when contracted produce the tailor's posture; squatting.

scalene: adj. Gk. skalenos = uneven, hence a triangle with unequal sides, a description of the scalenus anterior and scalenus medius muscles.

scaphoid: adj. Gk. skaphe = skiff, and eidos = shape or form; hence the carpal bone which is hollowed out on its distal surface for the head of the capitate; also the fossa occupied by tensor veli palatine muscle.

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scapula: Gk. Skapto = I dig, - because of the resemblance to a spade.

scel- leg schiz- split

Schwann cell a type of neuroglial cell that forms myelin sheaths around axons of peripheral nerves.

Sciatic (SY-at-ic) nerve, largest nerve in the body lies on the ischium and is very visible hence the name- sciatic pain resulting from damage to the sciatic nerve or parts of it

sciatic: adj.Gk. ischion = hip-joint. Ischiadikos meant pertaining to the ischium or hip - later changed to ischium. (the ischium earns its name because it forms > 2/5 of the acetabulum, whereas the ilium contributes < 2/5, and the pubis only 1/5). The sciatic nerve lies on the ischium.

scirrho- hard

sclero- hard

Sclera (SKLEH-raw) the posterior part of the outer, fibrous tunic covering the eyeball; the white of the eye.

sclera: Gk. skleros = hard; hence the tough, outer layer of the eyeball; adj.- scleral.

scolio- twisted

scoliosis: Gk. skolios = crooked or curve, and -osis = condition, hence, the lateral curvature of the spine.

scrotum: possibly derived from Lt. scorteus = leather; adj.-scrotal.

Sebaceous (seh-BAY-shuhs) **gland** an exocrine gland located in the dermis that secretes an oily substance called sebum. It is usually associated with a hair follicle.

second- second following

secrete: Lt. secretus = separated; hence, to produce a chemical substance by glandular activity - adj.secretory; noun, secretion.

Secretion (seh-KREE-shuhn) a substance produced and released by a cell that serves a useful benefit.

sella: Lt. = saddle; adj.- sellar, sella turcica = Turkish saddle. semen: Lt. = seed; adj.- seminal (seminal vesicle).

semi- half partial

semilunaris: adj.Lt. semi = half, and luna = moon; hence, having a half-moon shape.

- semimembranosus: adj. Lt. semi = half, and membrana = membrane; hence, the hamstring muscle of which the upper half is membranous.
- C Seminal vesicle (SEHM-ih-nawl VEHS-ih-kehl) one of a pair of convoluted glands of the male reproductive system located posterior to the urinary bladder that secretes part of the semen.
 - seminiferous: Lt. semen = seed and ferre = to carry, to bear: the sperm-producing tubules in the testes.
 - **Seminiferous tubule** (sehm'-i-NIHF-ehr-uhs TEW-byewl) a microscopic, tightly packed tube w/n each testis where the sperm cells develop.
 - semitendinosus: adj. Lt. semi = half, and tendo = I stretch; the hamstring muscle (the lower half is tendinous).

seps- decay

В

- septum: Lt. saeptum = fenced in; hence, a dividing fence or partition-generally of CT.
- Serosa (sehr-0-sah) any serous membrane. (also, the outer membranous layer of a visceral organ containing blood and nerve supply as well as lymphatic drainage), similar to the capsule of an organ.
 - serous: Lt. = like serum, serum-like.
- **Serous membrane** (SEHR-uhs MEHM-brane) an epithelial membrane that lines a body cavity or covers an organ, and secretes small amounts of fluid.
 - serratus: adj. Lt. = notched like the edge of a saw (serrate). sesamoid: adj. Gk. sesamodes, eidos = shape or form; like grains
 - of sesame, ie. small bone in tendon at site of friction.
 - sialogram: Gk. sialon = saliva, and gramma = a diagram; hence, a radiograph of a salivary duct.

sicc- dry

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- sigmoid: adj. Gk. sigma, the form used at the end of a word having an S-shape; hence, S-shaped.
- sinister: adj. Lt. = left-sided.
- Sigmoid colon (SIHG-moyd KOH-luhn) the distal segment of the colon located b/n the descending colon & the rectum.
- Simple (SIHM-pehl) pertaining to a single-layered arangement of x epithelial cells.
 - Sinoatrial node (sin'-oh-AY-tree-awl nohd) (SA node) a cluster of specialized cardiac muscle cells in the wall of the right atrium that initiate each cardiac cycle (also = the sinuatrial node, or pacemaker).

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sinistro-left

Sinus (SI-nuhs) a space w/n a bone lined with mucous membrane, such as the frontal and maxillary sinuses in the head. (also, a modified BV usually vein with an enlarged lumen for blood storage and containing no or little muscle in its wall).

sinus: Lt. = a hollow or space which may contain air, venous or arterial blood, lymph or serous fluid; adj.sinusoid.

Sinusoids an extensive network of vessels that may be found in the liver, pancreas, spleen, and adrenal cortex, which are similar in structure to capillaries only "leakier".

Skeletal muscle tissue one of 3 types of muscle tissue in the body characterized by the presence of visible organized striations and under conscious control over its contraction. It attaches to bones to form the muscles of the body.

Skull (sk-UHL) this a term for all the bones of the head **Small intestine** the organ of the alimentary canal located b/n the stomach and the large intestine that functions in the final digestion, filtration and absorption of nutrients.

Smooth muscle one of 3 types of muscle tissue in the body characterized by the lack of visible striations, with automatic and autonomic contractile function. It forms part of the walls of hollow organs and BVs.

sole: the lower surface of the foot - see soleus.

soleus: adj. Lt. solea = flatfish or sandal; soleus muscle does not enter the sole of the foot, but resembles the fish.

solitarius: Lt. = solitary, alone.

Soma (SOH-mah) pertaining to the body or the main part of an organ or a cell

soma: Gk. = the body.

somatic: adj.Gk. soma = the body; hence, pertaining to the body frame but not to its viscera.

Somatic nervous system the component of the PNS that conveys impulses associated with conscious sensory and motor activities.

somite: Gk. soma = body, hence an embryonic body segment.

somn- sleep

spano- few scanty

spasm: Gk. spasmos = an involuntary contraction of a muscle; adj.- spastic, or spasmodic.

sperma: Gk. = seed or semen, adj.spermatic.

A **Spermatozoa:** = sperm cells. They are the formed male gametes produced by meiosis from cells w/n the walls of seminiferous tubules of the testes. Individual spermatozoa are capable of locomotion due to the presence of a single flagellum.

Spermatic cord (spehr-MAH-tihk kord) a narrow bundle of tissue in the male reproductive system extending from the epididymis to the inguinal canal, consisting of the ductus deferens, cremaster muscle, BVs, lymphatics, nerves, and CT.

sphen- wedge (sven)

sphenoid: adj. Gk. sphen = wedge, and eidos = shape or form; hence the unpaired bone which is wedged into the base of the skull b/n the unpaired frontal and occipital.

sphincter- tightening associated with a ring of muscle (sfinkter)

sphincter: Gk. sphinkter = a tight binder; ie a circular muscle which closes an orifice; adj.- sphincteric.

Spinal cord a long, narrow organ of the CNS that extends through the vertebral canal & connects the PNS with the brain.

Spinal nerve one of 31 pairs of nerves that extend b/n the SC and another part of the body.

spine: Lt. spina = a thorn; a sharp process, or a lay term for the vertebral column; adj.spinous, spinal.

spir- coiled, respiration, breath sphygm- pressure, pulse

splanchnic: adj. Gk. splanchnon = a viscus or internal organ; hence pertaining to viscera.

Splanchocranium (spl-ANK-noh-KRAY-nee-uhm) that part of the skull containing the facial bones. Spleen a soft, glandular organ that is part of the lymphatic system and is located in the upper left region of the abdomen behind the stomach.

spleen: Lt. splen = the spleen; hence; adj.- splenic (Lt. - lien).

Spongy bone One of 2 types of bone tissue, characterized by the presence of spaces filled with red marrow b/n thin bone spicules
 V called trabeculae.

squama: Lt. = a scale (as of fish or reptile); adj.- squamous. **Squamous** (SKWA-muhs) flat. scalelike, square-like.

squamous: adj.Lt. squama = a scale (as of fish or reptile), hence scale-like.

stapes: Lt. = stirrup; adj.- stapedial, stapedius.

stas-stopped

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Static equilibrium the sensation of body position.

steat- fat
stellate: adj. Lt. stella = star.

steno- narrow
stereo- three dimension depth firm solid
stereocilia: Gk. stereos = solid, and cilium = eyelash, hence non-
motile microvilli.

sternebra: Gk. sternon = chest or breast, and -bra = from
vertebra, the segments of the sternum (these fuse in later life).
sternum: Gk. sternon = chest or breast; adj.sternal.

steth- chest
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stoma: Gk = a mouth.

Stomach (STOH-muhk) a large, hollow organ in the alimentary canal located b/n the oesophagus and small intestine that plays a prominent role in digestion.

stomach: Gk. stomachos = gullet or oesophagus, later applied to the wider part of the digestive tract just below the diaphragm; adj.- gastric.

Stomach mucosa the innermost layer of the stomach wall. It is a mucous membrane that contains numerous gastric glands embedded throughout.

strab- squint

strabismus: Gk. strabismos = squinting; hence, inability to focus both eyes on a given point.

Stratified (STRAH-tif-ide) pertaining to a multiple-layered arrangement of epithelial cells.

stratum: Lt. = a covering sheet, or layer.

strepto- twisted

stri- striped line streak (stry-)

stria: Lt. = furrow, applied to a streak or stripe.

striatum: adj.Lt. striatus = furrowed; hence, corpus striatum, the caudate and lentiform nuclei connected by grey strands which traverse the internal capsule, giving the strands a striated appearance.

Stroma (STROH-mah) supporting bed of cells, CT or matrix upon which or w/n which the structures are placed eg the parenchyma stroma: Gk. = bed or mattress, the supporting framework of an organ, distinct from its parenchyma.

stroph-twisted

styloid: adj.Gk. stylos = an instrument for writing, and eidos = shape or form; a pencil-like structure.

A sub- under less than partial

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subclavian: Lt. sub = under or below, and clavis = a key, hence under the clavicle.

C **Subcutaneous layer** (suhb'-kyoo-TA-nee-uhs LA-yehr) the layer of loose CT and adipose tissue deep to the dermis of the skin. (also = hypodermis, and superficial fascia).

subiculum: diminutive of Lt. subix = a support.

sublimis: Lt. = superficial.

Sublingual (suhb-LING-wal) **glands** a pair of salivary glands located in the floor of the mouth deep to the mucous membrane.

Submandibular (sub'-man-DIB-yoo-lah) glands a pair of salivary glands located along the inner surface of the jaw in the floor of the mouth. (also = submaxillary glands).

Submucosa (sub'-myoo-KOH-sah) a layer of CT located external to a mucous membrane.

substantia: Lt = a substance.

succus: Lt. = juice (succus entericus, the secretion of the small intestine).

sud- sweat

Sudoriferous (syoo'-dor-IF-er-us) **gland** an exocrine gland located in the skin that secretes sweat. (also = sweat gland).

sudomotor: Lt. sudor = sweat, and movere = to move, hence stimuLt.q the sweat glands.

suf- under

sulcus: Lt. = a groove.

super- over

superciliary: adj.Lt. super = above, and cilia = eyelid; hence, pertaining to the eyebrow.

superficial: adj.Lt. super = above, and facies = surface; hence, nearer the surface.

Superficial (soo'-pehr-FIHSH-ahl) A directional term indicating the location of a part that is toward or nearer to the body surface relative to another ≠ deep.

Superior (soo-PEER-ee-or) A directional term indicating the location of a part that is nearer to the head region than another. Also called craniad or cephalad.

superior: adj.comparative of Lt. superus = above.

supinus- face up

supination: the act of turning the back of the hand to face posteriorly; verb - supinate ≠ pronate.

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supine: adj.Lt. supinus, recumbent on the back, also, the hand position of the dorsum posteriorly.

supra- above over

supra: Lt. prefix = superior to.

suprarenal: Lt. supra = above, over, superior to, and ren = the kidney.

sural: adj.Lt. sura = the calf.

sustentaculum: Lt. = a support, which sustains; e.g.

sustentaculum tali - the ledge on the calcaneus supporting part of the talus.

Suture (SEW-tjah) the saw-like edge of a cranial bone that serves as a joint b/n bones of the skull; the stitching of 2 opposing edges of tissue.

suture: Lt. sutura = a seam; the fibrous joints b/n cranial bones.

Sweat gland an exocrine gland located in the skin that secretes sweat. (also = sudoriferous gland).

sym- together union association

sympathetic: Gk. syn = with, and pathos = feeling; hence, the peripheral part of the ANS arising from the thoracolumbar region of the spinal cord and communicates with other nerves.

Sympathetic division (simp'-ah-THEH-tihk dih-VIH-zhuhn) a division of the ANS that functions mainly in stimulating emergency responses (fight or flight).

symphysis: Gk. syn = with, and physis = growth; a joint - bone + fibrocartilage + bone generally used for joints in the median plane, often fuse later in life (the symphysis of the mandible is exceptional, the 2 halves fusing before 2 yo).

syn- together, union, association

Synapse (sihn-AHPS) the junction b/n the axon of one neuron & the dendrite or cell body of another neuron.

synapse: Gk. syn = with, and aptein = to join; the zone an impulse passes from one neuron to another.

Synaptic cleft (sihn-AHP-tihk clehft) a part of the synapse that consists of the space b/n neurons or neuron and muscle fiber across which the neurotransmitter must diffuse.

Synaptic end bulb the expanded distal end of a neuron's axon containing numerous synaptic vesicles & mitochondria.

Synaptic terminals the terminal ends of axons where the synapse begins b/n adjacent neurons.

Synaptic vesicles microscopic sacs w/n synaptic end bulbs of axons that store neurotransmitter.

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Y Z synchondrosis: Gk. syn = with, and chondros = cartilage; a joint - bone + **cartilage** + bone

syncytium: Gk. syn = with, and kytos = cell, a multinucleate mass of protoplasm formed by cells merging as in Giant cells and skeletal muscle cells.

syndesmosis: Gk. syn = with, and desmos = a band; joint - bone + **fibrous tissue** + bone

syndrome: Gk. syn = with, and dromos = running; ie. a group of signs and symptoms, characteristic of a certain pathology.

synergist: Gk. syn = with, and ergon = work; a muscle cooperating with others to produce a certain movement. synovia: Gk. syn = with, & ovum = egg; the fluid in freely moving joints which resembles egg-white adj. synovial

Synovial fluid the liquid secretion of epithelial cells in the synovial membrane lining a synovial (freely moving) joint, which serves as a lubricant and shock absorber.

Synovial joint (sihn-OH-vee-awl joynt) a type of joint characterized by the presence of a membrane-lined cavity, called the synovial cavity, b/n opposing bones.

systole: Gk. = contraction; hence the contraction of cardiac muscle.



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tabe- wasting

tact- touch

taenia: Lt. = a tape or ribbon. AS tenia (TEEN-ih-ah)

tal- ankle

talus: Lt. = ankle-bone; hence, the tortoise-shaped tarsal of the talocrural (ankle) joint.

tars- eyelid, edge of foot

tarsus: Gk. tarsos = a flat surface; the flat part of the foot, later, the bones of the foot behind the metatarsals, adj. tarsal.

Taste buds special sensory organs located primarily on the surface of the tongue & usually embedded within papillae. They contain chemoreceptors, providing the sense of taste or gustation.

taut- same

tect- covering

tectorial: adj.Lt. tectorium = an overlying surface like plaster, a covering or roof.

Tectorial membrane (tehk-TOR-ee-awl MEHM-bran) a thin membrane in the inner ear that projects over the receptor hair cells of the organ of Corti.

tectum: Lt. = roof; hence the roof of the midbrain.

teg- covering

tegmen: Lt. = covering (c.f. integument = the skin).

tegmentum: Lt. = covering.

tela: Lt. = a web; e.g., a fold of pia mater containing a choroid plexus.

temporal: Lt. tempus = time; the temporal area of the scalp, where grey hair first appears

Tendon (TEHN-dohn) a band of dense CT that extends from the muscle to attach to a bone.

tendon: Lt. tendo = I stretch out.

tenia: Lt. = a tape or ribbon. AS taenia

tensor: Lt. tensus = stretched; hence a muscle which produces tension.

 $tentorium: \ Lt. = tent; \ tentorium \ cerebelli.$

ter-three

teres: Lt. = rounded, cylindrical.

testicle: Lt. testiculus = the male gonad (see testis).

Testis (TEHS-tihs) one of a pair of male gonads (sex glands) located w/n the scrotum that produces sperm cells and testosterone. pl. - testes.

testis: Lt. testiculus = the male gonad. Lt. testis = a witness.

Under Roman law, no man could bear witness (*testify*) unless he possessed both testes. pl. - testes.

Testosterone a steroidal hormone secreted by interstitial cells (cells of Leydig) located w/n the testes. It promotes the development of male secondary sex characteristics & the development of spermatozoa.

terti- third (ter-shi-)

tetralogy: Gk. tetra = four, & logos = discourse, combination of 4 elements eg, symptoms or defects.

thalamus: Gk. = bedroom - the posterior end of the thalamus is rounded and named pulvinar = cushion.

theca: Gk. theka = a capsule, sheath.

thenar: Gk. = palm of hand; hence, the ball of the thumb.

Thoracic cavity (tho-RAHS-ihk CAHV-ih-tee) the part of the anterior (ventral) body cavity located superior to the diaphragm, which contains the heart, lungs, & mediastinum.

thorax: Gk. = the chest, adj.thoracic.

Threshold stimulus (THRESH-hold STIH-myoo-luhs) a change in environment

thrombus: Gk = a clot.

Thrombocyte (THROHM-bo-sit) the formed elements in blood that play a prominent role in blood clotting. (also = platelets).

Q Thrombus (THROHM-buhs) a blood clot that has formed in a vein or artery.

thymus: Gk. = sweetbread.

thym- thymus, mind

Thymus (THI-muhs) **gland** a glandular lymphatic organ located superior to the heart that produces T lymphocytes during early childhood, and degenerates by adulthood.

thyroid: Gk. thyreos = shield, and eidos = shape or form; shaped like a shield (shields the glottis).

Thyroid cartilage (THI-royd CAHR-tih-lihj) the largest piece of hyaline cartilage of the larynx. (also = the Adam's apple).

X **Thyroid gland** (THI-royd) an endocrine gland located on the anterior side of the neck that secretes hormones involved in growth, metabolism, and maintaining calcium levels in the blood.

tibia: Lt. = the shin-bone, adj.tibial.

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Tissue (TIH-shoo) a group of similar cells that combine to form a common function.

Tongue (tuhng) the muscular organ of the digestive system that is anchored to the floor of the mouth and wall of the pharynx. It plays major roles in swallowing and speech formation.

Tonsil (TOHN-sihl) a small organ of the lymphatic system that consists of an aggregation of fixed lymphocytes & CT embedded in a mucous membrane. There are 3 pairs (pharyngeal, palatine & lingual), all of which play a role in the immune response.

tonsil: Lt. tonsilla = tonsil (e.g., palt.e tonsil).

Tooth a bony structure projecting from the maxilla or mandible that provides for the grinding, or mechanical digestion, of food particles.

top- on the surface , to place

tors- twisted bulge

torus: Lt. = a bulge.

Trabecula (traw-BEHK-yoo-lar) a thin plate of bone within spongy bone tissue. (also = a band of supportive CT extending to the interior of an organ from its outer wall as in the spleen or the breast).

trabecula: diminutive of Lt. trabs = a beam; hence the supporting fibres of a structure.

Trachea (TRA-kee-aw) an organ of the respiratory system consisting of a long tube supported by semi-rings of cartilage extending from the pharynx to the bronchi.

trachea: Gk. tracheia = rough, referring to its corrugations.

tract: Lt. tractus = an elongated strand of wool or dough; hence a pathway for nerve fibres.

tragus: Lt. = goat, because of the beard-like tuft of hair on its internal aspect.

trans- across

Transitional epithelium a type of epithelial tissue characterized by its ability to expand in size and recoil, giving the organs it lines a feature of elasticity. Transitional epithelium forms the inner lining of the urinary bladder and ureters

transverse: perpendicular to the long axis = horizontal.

Transverse colon the segment of the colon that extends across the body from its union with the ascending colon (Left) to its union with the descending colon (Left).

trapezium: Gk. trapezion = a trapezium - a quadrilateral with 2 sides parallel.

trapezius: Gk. trapezion = a trapezium - a quadrilateral with 2

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The A to Z of Anatomical Histological and Medical terms
       sides parallel; hence, trapezius muscle, the diamond-shape of
       both trapezii muscles together.
       trapezoid: Gk. trapezion = a trapezium - a quadrilateral with 2
       parallel sides, resembling a trapezium.
  tri- three (try)
  Triad when pertaining to the liver, a triad is a combination of 3
  structures that can be observed in a cross-sectional microscopic view.
  They include branches of the hepatic portal vein, hepatic artery, and
  bile duct. When pertaining to skeletal muscle, a triad refers to a T
  tubule and two cisternae of the sarcoplasmic reticulum.
       triad: from Lt. tres = 3.
       triceps: Lt. tres = 3, and caput = head; hence a 3-headed
           muscle.
       trigeminal: Lt. trigeminus = triplets: hence, cranial nerve V, with 3
           large divisions.
       trigone: Lt. trigonum = a triangle.
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       triquetral: Lt. triquetrus = 3-cornered.
       triticea: Lt. triticum = a grain of wheat; hence, the tiny cartilage in
       the lateral thyrohyoid ligament.
  trocho- round
       trochanter: Gk. = a runner: the bony landmark, the greater
           trochanter, moves obviously in running.
       trochlea: Gk. trochilia = a pulley.
  trop- turn change
  troph- nutrition
       truncus: Lt. = trunk (of a tree).
       tube: origin unknown
       tubule: little tube
       tuber: Lt. tuber = a swelling or lump. (see protuberance)
  Tubercle (TEW-ber-ol) a small process or bump generally on a bone.
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T

tubercle: Lt. diminutive of tuber, a small prominence, usually bony (smaller than a tuberosity).

tuberculum: Lt. diminutive of tuber, a small prominence, usually bony.

tuberosity: Lt. tuber = a swelling or lump, usually large and rough (larger than a tubercle).

tunica: Lt. = shirt; hence a covering.

Tunica externa (TEW-nih-kah eks-TEHRN-ah) the outermost layer of a tubular BV wall. (also = the tunica adventitia and the serosa, it is composed of CT and in larger vessels smaller BVs the vasa vasorium)

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Tunica intima (TEW-nih-kah IHN-tih-mah) the innermost, or deepest, layer of a tubular BV. (also = the tunica interna, it is composed of a layer of simple squamous epithelium (endothelium) and a BM of CT. **Tunica media** (TEW-nih-kah ME-de-ah) the middle layer forming the wall of a tubular BV. The tunica media is composed of smooth muscle tissue, and may contain elastic fibers.

turbinate: Lt. turbo = a child's (spinning) top; hence shaped like a top. An old term for the nasal conchi.

Tympanic membrane (tihm-PAHN-ihk MEHM-bran) a thin membrane b/n the external auditory canal & the tympanic cavity, separating the external ear from the middle ear. (also = the eardrum).

tympanum: Lt. = a drum.



ulna: Lt. = elbow or arm; hence, the medial bone of the forearm.

ultra- beyond in excess

umbilicus: I.t. = the navel.

umbo: Lt. = the boss on the centre of a shield, umbo of tympanic membrane.

uncinate: Lt. uncinatus = hooked.

uncus: Lt. = hook; adj.- uncinate.

ungu- nails

Н

ungual: pertaining to Lt. unguis = finger-nail.

uni- first one

urachus: Gk. ouron = urine, and echein = to hold, the canal connecting the foetal bladder and umbilicus.

Ureter (YEW-reh-tehr) a long, narrow muscular tube extending from
 K the kidney to the urinary bladder & transports urine using gravity and peristalsis.

ureter: Gk. oureter = passage from kidney to bladder.

M Urethra (yew-REE-thrah) a tube extending from the urinary bladder to the exterior that carries urine in females and urine and semen in M males.

urethra: Gk. ourethra = passage from bladder to exterior.

uterus: Lt. = womb.

utricle: diminutive of Lt. uterus = womb.

Urinary bladder (yew'-rih-NAR-ee BLAH-dehr) a hollow muscular organ located at the floor of the pelvic cavity that temporarily stores B urine.

S Uterine tube (YEW-tehr-ihn toob) One of 2 tubes that transport ova from the ovaries to the uterus in the female reproductive system. (also T = the fallopian tubes or oviducts).

Uterus (YEW-tehr-uhs) a hollow muscular organ in the female reproductive system that serves as a site of embryo implantation, development and menstruation.

uvea: Lt. uva = grape. The pigmented vascular layer of the eyeball (iris, ciliary body and choroid).

uvula: diminutive of Lt. uva = grape.

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Vagina (vaj-EYE-nah) a tubular, muscular organ of the female reproductive system extending b/n the vulva & the uterus.

vagina: Lt. = sheath; hence, invagination is the acquisition of a sheath by pushing inwards into a membrane, and evagination is similar but produced by pushing outwards.

vagus: Lt. = wandering; hence, cranial nerve X, which leaves the head and neck to traverse the thorax and upper part of the abdomen.

valgus: Lt. = bow-legged.

vallate: Lt. vallatus = walled; hence, the large papillae on the tongue which are depressed below the surface and surrounded by a groove which is itself bounded by a wall.

vallecula: diminutive of Lt. vallis = a fossa.

Valve a membranous flap composed of CT and usually lined by a layer K of epithelium which directs the flow of fluid in one direction.

valve: Lt. valva = the segment of a folding-door.

valvula: diminutive of Lt. valva.

varicocoele: Lt. varix = vein and Gk. kele = tumour, hernia, a varicose condition of the veins of the pampiniform plexus.

varus: Lt. = knock-kneed.

vas: Lt. = vessel (plural = vasa).

Vas deferens also = the ductus deferens. It is a tube extending between the epididymis and the urethra in the male that conveys spermatozoa during ejaculation.

Vascular (VAHS-kyoo-lawr) Pertaining to or containing BVs.

vascular: Lt. vasculum, diminutive of vas; hence, pertaining to BVs. **Vein** (vayn) a BV that transports blood from body tissues to the heart.

vein: Lt. vena; adj.- venous. (veen-us)

velum: Lt. = curtain; veli = of a curtain.

ven- vein

 $\mbox{venter: Lt.} = \mbox{belly; hence, ventral, pertaining to the belly side.}$

Ventral (VEN-tral) a directional term describing the location of a part nearer to the anterior or front side of the body relative to another. (also = anterior).

Ventral root the motor branch of a spinal nerve that connects with the SC.

- **Ventricle** (VEN-trih-kuhl) one of the 2 inferior, highly muscular chambers of the heart that push blood into major arteries during their contraction.
 - ventricle: diminutive of Lt. venter = a small belly.
- **Venule** (VEN-yewl) a small vein that collects deoxygenated blood from a capillary network and conveys it to a larger vein.
 - vermiform: Lt. vermis = a worm, and forma = shape; hence, worm-shaped.
- **Vermiform appendix** (VEHR-mih-form aw-PEHN-dihks) a small, closed-end tube extending from the caecum of the large intestine.
- **Vermis** (VEHR-mihs) the central constricted part of the cerebellum that separates the 2 cerebellar hemispheres.
 - vermis: Lt. = worm; hence, the segmented median part of the cerebellum.
 - vertebra: Lt. verto = I turn; one of the movable bones of the VC.
 - Vertebral canal (VEHR-teh-brahl kah-NAHL) a cavity extending through the vertebral column that is formed by the vertebral foramina of each vertebra, through which extends the SC.
 - **Vertebral column** The skeleton of the back that is composed of 26 vertebrae and associated tissues. (also = the backbone, spine, or spinal column).
 - vertex: Lt. = summit; hence the highest point on the skull. vertical: perpendicular (at a right angle) to the horizontal.

vesic- to do with the baldder

- vesica: Lt. = bladder, adj.- vesical.
- **Vesicle** (VEHS-ih-kuhl) a small sac containing a fluid. In the cell, it is a membranous sac w/n the cytoplasm which contains cellular products or waste materials.
 - vesicle: diminutive of Lt. vesica = bladder, hence a little bladder. vesicula: diminutive of Lt. vesica = bladder; seminal vesicle.
- **Vestibular membrane** (vehs-TIHB-yew-lahr MEHM-brayn) a thin membrane inside the membranous labyrinth of the inner ear.
- **Vestibule** (VEHS-tih-byewl) a small space that opens into a larger **V** cavity or canal. A vestibule is found in the inner ear, mouth, nose, and vagina.
 - vestibule: Lt. vestibulum = entrance hall.
 - vibrissa: Lt. vibrare = to vibrate; hence, the hairs in the nasal vestibule which vibrate in the air.

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Villus (VIHL-luhs) a small, fingerlike projection of the small intestinal wall containing CT, BVs, and a lymphatic vessel, and which functions in the absorption of nutrients. pl. - villi.

villus: Lt. a hair; hence, a vascular, hair-like process, usually projecting from a mucous surface.

vincula: Lt. = fetters (sing. - vinculum); delicate vascular synovial bands passing to the digital tendons.

Visceral (VIHS-er-ahl) pertaining to the internal components (mainly the organs) of a body cavity; pertaining to the outer surface of an internal organ ≠ parietal.

visceral: adj.Lt. viscus = an internal organ.

Visceral peritoneum (VIHS-er-ahl per'-ih-toh-NEE-uhm) a serous membrane covering the surfaces of abdominal organs.

Visceral pleura (VIHS-er-ahl PLEW-rah) a serous membrane covering the outer surface of each lung.

viscus: Lt. = an internal organ, plural - viscera, adj.- visceral.

vital: Lt. vita = life.

vitelline: Lt. vitellus = yolk. vitreous: Lt. vitreus = glassy.

Vitreous humor (VIH-tree-uhs HYEW-mahr) a mass of gelatinous material located w/n the eyeball in the posterior cavity located b/n the lens and the retina. (also = vitreous body).

vivi- alive

vocal: adj. Lt. vox = voice.

volar: pertaining to the palm or the sle of the foot

volv- turn

 $\label{eq:constraint} \mbox{vomer: Lt.} = \mbox{plough-share; hence, the bone of the nasal septum} \\ \mbox{which is split in two at its upper edge.}$

vulva: Lt. = the external female genitalia.



W W

White matter a type of NT composed mainly of the myelinated axons of neurons.

White pulp one of the 2 interior areas of the spleen (see red pulp).
 White pulp is composed of lymphocytes, monocytes and macrophages suspended on a stroma of reticular fibers. It provides immunological and phagocytic functions in the spleen.

G **X**

xanth- yellow xen- different

[」] xero- drv

xiphoid: Gk. xiphos = a sword, and eidos = shape or form; hence, sword-shaped.

Y

Yellow marrow a collection of fat storage (adipose) & other tissues found w/n the medullary cavities of bones.

Z

Zona (ZOH-nah) an area smaller than a region in an organ as in the adrenal gland

zona: Lt. = a belt; hence, a circular band.

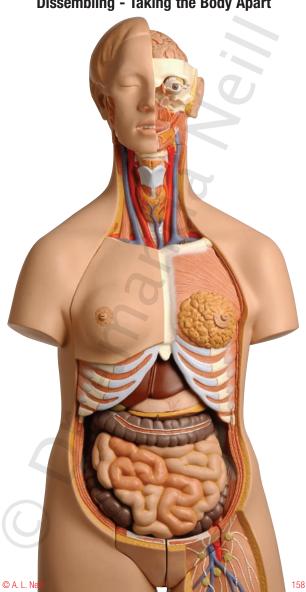
zonule: diminutive of zona.

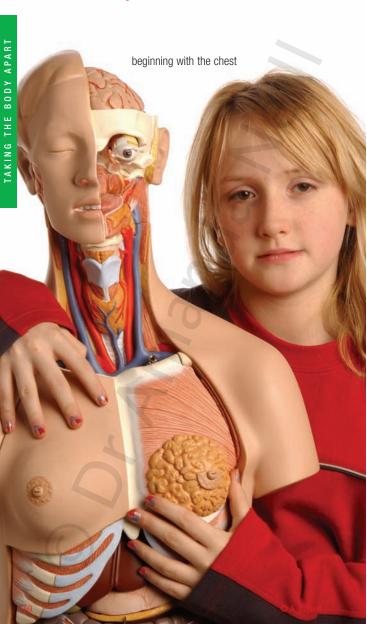
zyg- yoke (z-eye-g)

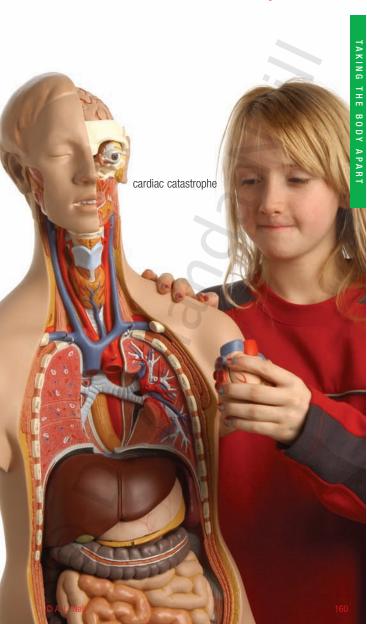
zygoma: Gk. zygon = yoke; hence, the bone joining the maxillary, frontal, temporal & sphenoid bones.

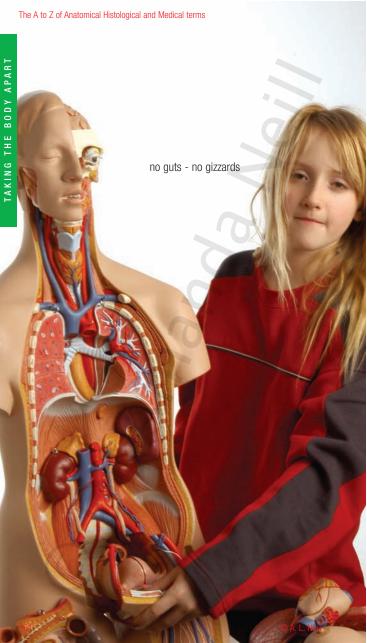
 $\hbox{zygomatic: adj.Gk. zygon} = \hbox{yoke; the bone joining the maxillary,}$

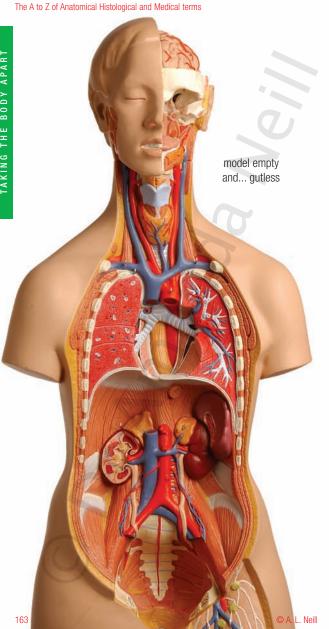
Dissembling - Taking the Body Apart

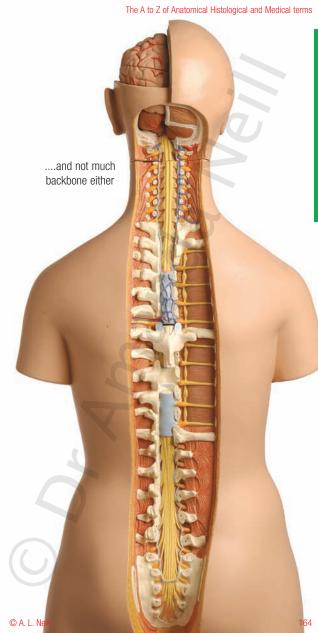












Guide to Surface Anatomy and Surface Markers

HORIZONTAL

- C1= the Hard palate
- C2 = free margin of the upper teeth
- C2/3 = Hyoid bone
- C4 = upper level of the Thyroid cartilage
- C6 = Cricoid cartilage
- T1 = vertebra prominens
- T7 = Thoracic plane
- T9/10 = Sterno-Xiphoid plane
- L1 = Transpyloric plane
- L3 = Subcostal plane
- L3/4 = Umbilical plane
- L5 = intertubercular plane

VERTICAL

- Lateral vertical line = through the lateral extremity of the 9th costal cartilage.
- Median vertical plane / Sagittal plane = through the centre of the body and vertebral column
- Midclavicular line = through the middle of the clavicle

INTERSECTION POINTS

- Lateral vertical lines + Transpyloric plane = Lateral central points
- Median line + L1 = central point

9 ABDOMINAL REGIONS -intersection of the lateral vertical planes and the transpyloric and the intertubercular planes

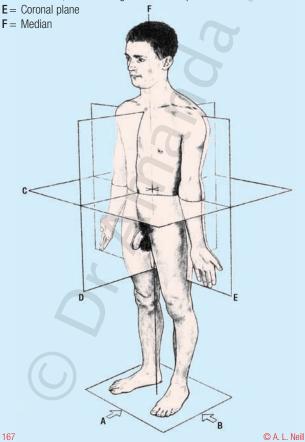
Right Hypochondriac	Epigastric	Left Hypochondriac
Right Lumbar	Umbilical	Left Lumbar
Right Iliac	Hypogastric	Left Iliac

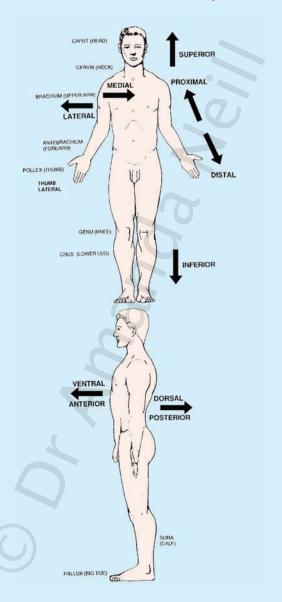
For more details see The A to Z of Surface Anatomy.

Guide to Anatomical Planes and Relations

This is the anatomical position.

- **A**= Anterior Aspect from the front Posterior Aspect from the back used interchangeably with ventral and dorsal respectively
- **B**= Lateral Aspect from either side
- **C**= Transverse / Horizontal plane
- D= Midsagittal plane = Median plane; trunk moving away from this plane = lateral flexion or lateral movement moving into this plane medial movement; limbs moving away from this direction = abduction; limbs moving closer to this plane = adduction





Guide to Anatomical Layers

SKIN = EPIDERMIS + DERMIS

EPIDERMIS - consisting of several layers of epithelial cells, which slough off and are replaced b/n 1-7 days - contains all the specialities of the skin: hair, nails sweat glands etc. sitting on supportive layer the basement membrane BM. - burns or wounds to this level may be completely healed without scar formation

DERMIS - consisting of connective tissue supplying the epidermis with nerve and blood supply tissue is not replaced except on a need basis, fairly stable - capable of repair/regeneration contraction (reduction of wound size) and scar formation. - **burns or wounds to this level will be detectable and are from tissue replacement not regeneration** - **scars will not have the properties or the features of the epidermis**.

General properties of the SKIN THIN / MOBILE

REGENERATES / REPAIRS

Exceptions PALMS / SOLES thick skin
SHIN / CHEST directly ov

EARS / NOSE

directly over bone directly over cartilage

SUPERFICAL FASCIA = LOOSE CONNECTIVE TISSUE + FAT (± Skeletal muscle)

Loose CONNECTIVE TISSUE (CT) + FAT + Skeletal muscle Not arranged as specific layers - very variable thickness females >males

Gives the intrinsic shape of the body ie main deposit of fat determines the FIGURE Allows for facial expressions.

Networks of Blood Vessels (BV) + Nerves (N) + Lymphatics spread thoughout the area.

This is the point of mobility of the skin

The point of determining the looseness or tightness of the tissue **This is the plane used by the plastic surgeons.**

Wounds to this area will not alter the function of the tissue underneath. (unless there is excessive contraction).

There may be changed appearance.

There should not in the long term alteration in sensation.

DEEP FASCIA = CONNECTIVE TISSUE + NEUROVASCULAR TISSUE

Defined anatomical layer - Easily separates from the tissue above. Layers of varying thicknesses and strengths. Acts as a conduit for the Blood and Nerve supply to the deep tissues particularly the skeletal muscle tightly bound over muscle / anchor for intermuscular septa CT + BV + N + Lymphatics

MUSCLE & BONE - limbs / appendicular skeleton - VISCERA - Cranium, Thorax, Abdomen and Pelvis / axial skeleton

Guide to Organ Weights and Measurements

Organ	Normal Adult Range % of	Total Body
	grams	Weight
Adrenals	12-20 /per gland	-
Brain	1250-1500	2.2
Heart	225-375	0.5
Kidneys	120-200 /per kidney	0.5
Liver	1,500-1,800	2.7
Lungs	250-500 /per lung	1.5
Spleen	100-250(may be >800 if exposed	0.2
	to a parasite eg malaria)	
Thyroid	15-40(may be 80 in a "normal" goite	er) -

for more details please see The A to Z of Organ Anatomy

Guide to Anatomical Descriptions

How to desribe features in Anatomy Systematically

Joints

classify their type -... name the bones involved -... name the ligaments involved -... fibrous / cartilaginous / synovial describe their shapes / and articular coverings capsule / capsular thickenings / accessory / intracapsular

name other intracapsular structures - synovial membrane / discs / tendons / fat pads / bones

describe functional aspects -...

movements (list muscles involved) stability (list ligaments, bones and relavant muscles) relate the joint to the line of weight

describe their blood supply describe their nerve supply list the surrounding bursae list their relations -...

....superior / inferior / anterior / posterior / laterally / medially

describe any particular radiological feature including CT scan

Organs

define the organ

describe the general outline -...

shape / size (inc weight) / colour / surfaces (including impressions) / consistency / location (including orientation)

list any functional aspects -...

endocrine / exocrine / autonomic / immunological / physiological / structural

/ psychological

describe the blood supply describe the nerve supply describe the lymphatic drainage list the relations -...

superior / inferior / anterior / posterior /

laterally / medially

describe the Histology and Embryology

describe any particular radiological feature including CT scan

Vessels and Nerves

list in order - origin/course/termination/relations and branches

Muscles

describe their attachments describe their actions describe their blood supply describe their nerve supply list any unusual features

for more details see

The A to Z of Basic Anatomical Concepts and Anatomical Mapping.

Guide to Degrees, Diplomas, Postnominals and other Qualifications, Specifically Medical Qualifications

STYLE GUIDE

- 1 full stops should not be used in abbreviations of degrees or other qualifications
- 2 use either a full or shortened term but not a mixture of both order of qualifications is:

 i national and royal honours (AO, AM, etc.)
 - ii Degrees. Diplomas and then Certificates in
 - conferring order
 - iii Fellowships before Memberships
 - iv parliamentary designations last
- 3 do not place a comma b/n the first postnominal and the person's name, and only use commas b/n different postnominals not b/n several postnominals of the same type ie not b/n masters and bachelors degrees.
- 4 do not place degrees on the same line as the name only national and royal honours
- 5 higher degrees absorb lower ones if they are from the same institution.
- 6 most colleges and institutes do not have recognized abbreviations and so have their name is spelt out in full, exceptions CAE = college of advanced education; IT = institute of education; IAE = institute of advanced education.

Abbreviations of common medical qualifications

Qualification/Membership Abbreviation

Bachelor Degree in...

A 3 year University qualification in various disciplines - increasingly degrees are taking 4 years to complete Bachelor of Medicine Bachelor of Surgery *see MBBS / MBBCh commonly termed "medical degree" Bachelor of Medical Science

Bachelor of Science

BMedSc BM BS

Certificate in

Generally a year qualification.

Diploma of ...

Generally a 2 year tertiary qualification. Frequently at a tertiary college. Maybe at a postgraduate level.

Doctorate of

Generally a post graduate professional degree similar to a PhD but often internally awarded and may not be examined externally. Unlike a PhD standards vary from institute to institute and all Doctorates are not universally recognized as opposed to the PhD

Diploma of Laryngology and Otorhinology Jiploma of Diagnostic Radiology Doctorate of Medicine

Diploma of Ophthalmology

DIC DIV

Diploma of Psychological Medicine

Doctorate of Philosophy of a particular discipline Diploma of Radiological Medicine Doctorate of Science

Faculty of

Generally denoting a group of Departments with a common theme, with faculty members.

Fellowship in

Fellows are awarded membership on the basis of qualifications and nominations. Generally denoting a "fellowship" in a college as opposed to a "membership".

ellow in the Australian College of Biomedical Scientists ellow of the Australian College of Dermatologists

ellow in the Faculty of Anaethetists in the Royal College of Surgeons ellow of the Australian College of Rehabilitation Medicine ellow in the Australian College of Legal Medicine c

ellow in the Australian College of Ophthalmologists FRACS Fellow in the Australian College of Surgeons ellow in the Australian College of Medical Administration

-RACO -RACMA -RACOG

ellow in the Australian College of Obstetricians and Gynaecologists ellow in the Australian and New Zealand College of F ellow in the Australian College of Radiologists ellow in the Australian College of Physicians

-ellow in the Royal College of Psychiatrists Fellow in the Royal College of Pathologists

FRC Psych **FRANZCP**

RACR

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FACD FACLM FACRM FARCS

Fellow in the Royal College of Pathologists of Australia FRCR Fellow in the Royal College of Radiology Fellow in the Royal College of Obstetrics and Gynaecology Fellow in the Royal College of Surgery

Honours

Generally placed after a degree denoting either an additional time of study or an excellent result in the degree. In some universities this may be awarded automatically on completion of a degree.

Master of

Generally denoting a postgraduate degree of at least 2 years duration, which may or may not be externally examined. In some Universities this is awarded as an honorary degree e.g. Oxford Medicine/Medical

Member of

Generally denoting membership to a college as to opposed to a fellowship Bachelor of Medicine Bachelor of Surgery* See BM MS / MBBCh

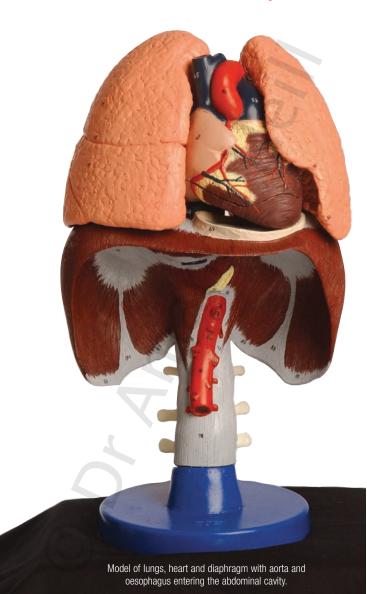
octor of Medicine

Master of Surgery

Member of the Royal College of Physicians of the Royal Kingdom Member of the Royal College of Obstetrics and Gynaecology Master of Gynaecology and Obstetrics

Doctor of Philosophy of a particular discipline

FRCOG FRCPA



Common Abbreviations and Terminology guide and Other useful Abbreviations and terms in common academic / university use

Australian centre of ...

Australian College of ...

entre for Advanced Computing – Algorithms & Cryptography **Nustralian Centre for Astrobiology**

Australian Centre for Ancient Numismatic Studies Australasian College for Emergency Medicine

ACANS CAC **VCEM**

1CEP

Nustralian College of Emergency Physicians

ustralian Centre for Educational Studies

Australasian College of Legal Medicine Advanced Cardiac Life Support course

ACLM ACLS **1CES**

Australian Council of University Art and Design Schools the peak body of university visual arts, crafts and departments. The Council undertakes leadership, advocacy, policy development, research and community lesign. ACUADS represents over 30 Australian University and TAFE art and design faculties, schools and

Australian Catholic University National – Brisbane, Canberra, Strathfield, North Sydney, Ballarat and Melbourne service for the sector, and hosts an active conference and seminar program. ACU National

Australian Defence Forces Academy application form

ADFA

Nustralian Film Television and Radio School

Australian Higher Education Industrial Association

Association Internationale des Etudiants en Sciences Economiques et Commerciales. The world's largest student organisation. AIESEC is a global network of 50,000 members across more than 83 countries and

NESEC facilitates international exchange of thousands of students and recent graduates each year. Whether **Nourishing mother.** The expression is used usually in relation to a person's school, college or university. n a paid traineeship or as a volunteer for a non-profit organisation. erritories at more than 800 universities worldwide.

Alumni - most schools and Universities have an office which keeps in contact with graduates and past students and or staff. Useful for creating a network of old students and for fund raising.

Australian Medical Association

Association of Medical Doctors in Asia Association for Medical Education in Europe

AMDA AMEE AMET

Australian Mineral Exploration Technologies

Academic Management Information System Association of Medical Students in Asia

> AMSA AMSE

AMIS

ssociation of Medical Schools in Europe

Australian Postgraduate Award
Academic Program Section

Australian Research Institute in Education for Sustainability Australian Research Institute in Education for Australian Research Council Grant Australian Research Council

ARC Grant

Sustainability (ARIES) based at Macquarie University. ARIES is the first national institute devoted to the research of education for sustainability and has been established with funding from the Federal Government. Australian Society for Classical Studies

Australasian Society for Emergency Medicine Australian Society of Microbiology

A. L. Neill

Alma Mater

ASEM

	Common Abbrevis	Common Abhreviations and Terminoloov nuide
17	ATF	Attach to file
9	ATF NFA	Attach to file no further action
	ATN	The Australian Technology Network (ATN) is a coalition of 5 Australian universities that share a common focus on the
		practical application of tertiary studies and research. The network claims they have a special strength in the way
		each of the member universities is focused on producing practical outcomes through their academic activity. The
		result is graduates and research that is closely aligned to the needs of industry and the wider society. These
		universities share a common background in the way they distinguished themselves as technical colleges before
		becoming accredited universities. The member universities of this network are: CIT - Curtin University of Technology,
		SAIT - South Australian Institute of Technology = University of South Australia, RMIT- Royal Melbourne Institute of
		Technology University, UTS - University of Technology Sydney, and QIT Queensland Institute of Technology.
	AUC	Apple User Consortium
	AUQA	Australian Universities' Quality Agency
	AVCC	Australian Vice-Chancellors' Committee
	BGO	Buildings and Grounds Office
	C4ISR	Command Control Communications Computers Intelligence Surveillance and Reconnaissance (US Pentagon
		term) covering weapons, strategic planning and force structure.
	CA	Card of Acceptance
	20	Card of Confirmation
	000	Constitution Credential Committee
	CAG	Computer Administrators Group
(C) A	CAL	Copyright Agency Ltd
. I	CAMEC	Cardiac Arrest Medical Emergency course
Neill	CBB	National Key Centre for Biodiversity & Bioresource

Jocument Management program Chemical Biological Radiation Critical and Cultural Studies Sareer Development Office SDM SS 300 긁

secondary and tertiary education provider with 9 campuses and centres across the Northern Territory. Charles Darwin University (Formerly NTU - Northern Territory University). In 2004, Darwin's Northern erritory University merged with Alice Springs' Central College to form Charles Darwin University - a

Chief Executive Officer = Vice-Chancellor (in a University) see VC Sentre for Flexible Learning

> Chaplaincy Chaplains

Chaplaincy Centre is to support students, staff and faculty through all the ups and downs of the University experience. Jniversity life can be very rich and rewarding, as well as challenging and occasionally overwhelming. The aim of the

entre for International Communication

Critical Incident Monitoring study in Emergency Medicine

CIMS

SZ

entre for Lasers and Applications entre for Language in Social Life entre for Language Technology

Sampus Network Management Committee Sontent Management

CONMC

entre of Australian Category Theory entre for Open Education

Sollaborative Online Learning and Information Services Council of Europe

Common Abbrevi	Common Abbreviations and Terminology guide
Collusion	Collusion is a form of plagiarism. It may be defined as the unauthorised and unattributed collaboration of
	students or others in a piece of assessed work.
Council	University Council
CPD	Centre for Professional Development
CPME	Standing Committee of European Doctors
CPSU	Community and Public Sector Union
COU	Central Queensland University
CRC	Marsupial Cooperative Research Centre
CRF	Central Records File – Central Records was the preceding agency of Records and Archives Services
CSU	Charles Sturt University – living success
CODOS	Centre for Ultrahigh-Bandwidth Devices for Optical Systems
CUTSD Project	CUTSD Project Teaching and Learning of Greek and Latin in Australian Universities
Cyber-Plagiarisn	Cyber-Plagiarism (aka Internet Plagiarism) Use of the use the Internet to "cut and paste" information to complete assignments.
Cyber-sloth	Any student or academic who if they can not find information in cyberspace, do not look for it elsewhere
	such as in a dictionary, encyclopedia, textbook or a professional journal.
DCM	Document & Content Management
DCMS	Department of Contemporary Music Studies
Deakin	Deakin University - grow with us, Deakin University aims to be Australia's most progressive University
Dean	Deans provide academic leadership within a Division/Faculty. Each Division/Faculty is the guardian of programmes
	(degrees, diplomas and other qualifications) in which students enrol. Generally there is an administrative structure
	devoted to protecting the office of the Dean.
DEETT	Disaster External Emergency Team Training

Division of Economic and Financial Studies

guide	
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Ab	
Common	

Early management of severe trauma

European Pharmacy Students Association European Youth Forum

Federation of Aboriginal & Torres Strait Islander Languages (Corporation) Fluorescence Applications in Biotechnology and Life Sciences Federation of African Med students' Association Financial Committee

FAMSA

-ederation Fellowships - Australian Research Council awards designed to develop and retain Australian skills The ellowships are regarded as innovative and highly prestigious. They were established under the Australian Sovernment's 2001 innovation action plan, Backing Australia's Ability.

-ellowship -ederation

improvements to the quality of teaching, student learning or assessment across whole programs or sequences of units. Flagship Grants are for teaching development support a small number of substantial projects contributing to strategies indicated in the Teaching and Learning Plan, which involve significant innovation or developments that will result in A direct cash contribution from the Division(s)/Departments(s) concerned is a requirement of funding. Flagship Grant

Financial Management Information System

FMIS

Freedom of Information Act - The NSW Freedom of Information Act confers on a person a legally enforceable right of open and available to the public, instead of being closed to all but a select few. Freedom of information is Freedom of Information - FOI is the opposite of secrecy. It means the doors and files of government are an important tool for the realisation of democratic goals.

where it is incomplete, incorrect or misleading and a right to have made known to them the reasons for decisions access to information held in an agency's records, a right to have official information relating to them amended that have materially affected them.

EPSA

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esearch and travel in the respective countries. Each year, up to 25 awards are made to Australian Post-Graduates, he Fulbright Exchange program was established in 1946 as an initiative of Senator J. William Fulbright of the USA. educational and cultural exchange between America and over 140 countries throughout the world over the past 50 Following the end of World War II he was committed to the ideal that mutual understanding through international years. The Australian Fulbright program was established through a Binational Treaty in 1949. Since then almost education and exchange would 'find ways and means of living in peace'. The Fulbright program has promoted 2,500 Australians and over 1,700 Americans have been awarded prestigious Fulbright scholarships to study Post-Doctoral Fellows, Professionals and Senior Scholars. Awardees range from the traditional fields of law Field of Research Concentration Freedom of Information Officer Ibright exchange rogram

engineering and science to the visual and performing arts. Applications for Australian scholarships open on June 1 and closes on August 31 each year. General Assembly

ARC National Key Centre for Geochemical Evolution and Metallergy of Continents Graduate Destination Survey Global Health Council

> GDS GEMOC

The Group of Eight (go8) markets itself as the group of 'Australia's Leading Universities'. Membership of the Group of Eight (Go8) includes Adelaide University, The Australian National University, The University of Melbourne, Monash University, The University of New South Wales, The University of Queensland, The

University of Sydney, and The University of Western Australia. AKA sandstone universities. Griffith University – excellence, equity, innovation. Get smarter Grade Point Average

General Secretariat

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Graduation School of the Environment Graduate School of Management

3SM

Marginson and Mark Considine - more recently up-springing and fast-growing Australian universities ferm attributed to *The Enterprise University: Power, Governance and Reinvention in Australia* Simon study)global utilization of Streptokinase and TPA for occluded Coronary arteries Head of School University Gumtree

strategic planning, managing the people and resources of the School and management of teaching and research The role of each Head of School is to provide academic and management leadership to the School. This involves programmes, including quality assurance.

A non-binding document outlining the main issues relevant to a tentative partnership agreement. It is the draft used by lawyers when drawing up the contract. It serves as a guideline for both parties before any

Higher Education Contribution Scheme documents are ratified.

Agreement

Heads of

Health Records and Information Privacy Act

HRIP Act

First rule of the con: you can't cheat an honest man; you must find someone who wants something for nothing and give them nothing for something.

International Association of Dentist Students nternational Council on Archives IADS

nternational Committee of the Blue Shield

nternational Centre for the Study of the Preservation and Restoration of Cultural Property International Conference on Emergency Medicine

nternational Council on Monuments and Sites nternational Council on Museums

Education Australia Limited is a global organisation with more than 101 offices in some 55 countries.

Owned by 38 prestigious universities in Australia and representing all education sectors, IDP is an ndependent not-for-profit organisation.

International English Language Testing System

nternational Federation of Library Associations and Institutions nternational Federation of Medical Students Associations

governmental and non-political federation of medical students' associations throughout the world. In 2004-2005 IFMSAhad 92 members, National Member Organizations from 88 countries on six continents and The International Federation of Medical Students' Associations (IFMSA) is an independent, non-

epresented more than 1 million medical students worldwide.

Information Management

International Medical Education

(aka Digital detective work)Instead of dusting for fingerprints, experts in inforensics, short for information orensics, sift through computer files. In today's digital world, you are leaving digital evidence or a digital trail. You're actually leaving more of a trail when you go online than you would anywhere else. Inforensics

International Office

International Physicians for the Prevention of Nuclear War Intellectual Property

International Pharmacy Student Federation

operation. The group believes that they will be able to establish research concentrations and investment across the universities. The member universities of IRU Australia are: Flinders University, Griffith University, La Trobe University, innovative Research Universities Australia (IRU Australia) is a group of 6 universities that share a common mode of

Macquarie University, Murdoch University and the University of Newcastle. RU Australia

Abbreviations and Terminology guide	
Common	

ISAS	International society of Aeromedical Services
ITS	International Triage Scale
lvy League	lyy League - (a league of universities and colleges in the north-eastern United States that have a reputation for
	scholastic achievement and social prestige) its 8 members (Brown, Columbia, Comell, Dartmouth College, Harvard,
	Penn - University of Pennsylvania, Princeton, and Yale) are highly selective colleges for admission but originally the

James Cook University

Joint Research Centre for Advanced Systems Engineering

designation "Iw League" only refers to their membership in a common athletic conference.

ocal Exchange Officer ocal Committee

ocal medical officer / locum

<u>M</u>

iaison Officer

ocal Officer for Medical Education

LOME ORE -ORP

ocal Officer of Reproductive Health & AIDS Officer on Research Exchange

Officer on human Rights and Peace Public Health Officer

ocal F

Meta access management system The MAMS project will conduct leading-edge R&D for the integration of multiple solutions to managing authentication, authorisation and identities, together with common services for digital rights, search services and metadata management.

Medicolegal society

Memorandum of Understanding

Medecins sans Frontieres

MOU MOU

The Medical Student International

people from different religious backgrounds can further their education in their own tradition and participate in overlooks the surrounding suburbs and the mountains beyond. The Multi-Faith Centre provides a venue where The Griffith University Multi-Faith Centre established on the Nathan Campus on the edge of Toohey Forest, communities can meet, maintain culture and offer education to the wider community on significant issues multi-faith dialogue. The building provides a number of spaces for prayer, reflection and participation in eligious practices. The Centre is also a place where members of Aboriginal and Torres Strait Islander

National Art School

VCELTR

lational Centre for English Language Teaching & Research

lational Health and Medical Research Council Von-Governmental Organisation

3isk Frontier - Natural Hazards Research Centre

National Officer on Medical Education Vational Member Organisation

Vational Officer on Reproductive Health & AIDS Vational Officer on Research Exchange

Vational Officer on human Rights and Peace

Jotre Dame Australia

be one of Australia's most exciting and innovative universities. It was founded in 1990 in WA. It is inspired by The University of Notre Dame Australia has campuses in Fremantle and Broome. Notre Dame declares itself to

one of the greatest Catholic universities in the world, the University of Notre Dame in the United States. **Vational Tertiary Education Union** Vational Union of Students

Organising Committee

Occupational Health and Safety Open Learning Agency of Australia		
OPTIVA Oxbridge	Outpatient Intravenous Therapy Association <i>Noun</i> :(British) general term for an ancient and prestigious and privileged university (especially Oxford or	
,	Cambridge Universities) - A short way of referring to Oxford and Cambridge universities.	
Paper Mills	Websites which sell pre-written dissertations, essays, research papers, and term papers to students. (aka Besearch Paper Mills or Cheat Sites)	
	Problem Based Learning	
	Project Coordinator	
	Papyri from the Rise of Christianity in Egypt. A project of the Ancient History Documentary Research Centre	
	[Formerly Corpus Papyrorum Christianarum]	
PELS	Postgraduate Education Loans Scheme	
PPIPA	Privacy and Personal Information Protection Act 1998 (NSW)	
Pro Vice-	A Pro Vice-Chancellor (PVC) is a senior academic leader of the University who also has senior strategic University-	
Chancellor	wide management responsibilities. A PVC may overseas a number of Heads of School and/or may oversee a specific	
	Unit or have a University-wide area of responsibility. The PVC manages staff directly reporting to the office of the	
	PVC. PVCs are members of the Senior Management Team (SMT) and report to the Vice-Chancellor.	
	Pro Vice-Chancellor	
PWG	Permanent Working Group of European Hospital Doctors	
	Regional Coordinator	
	Queensland University of Technology – a university for the real world	
RACS	Royal Australasian College of Surgeons	
Rector	Eccl. law. One who rules or governs a name given to certain officers of the Roman church. Dict. Canonique, h.v. (Also	

Common Abbreviations and Terminology guide

allowing the Rector a direct relationship with the students. One of the principal duties is to chair the University Court, at interests on the Court ex-officio. The Rector plays an important role in representing and supporting the students at the University. The Rector is a position that is independent of both the Students' Association and University administration, the Rector's Assessor (her representative within the University) there is effective student representation at Court. On a concern is welcome to come. The Rector also spearheads wider campaigns, both within the University and nationally; day-to-day leyel, the Rector holds regular surgeries to which any student who would like to raise a particular issue or which all major decisions are taken. This ensures that, combined with the President of the Students' Association and 1495, and has been, since 1860, the students' representative on the University Court. Rectors serve for three years Senate meetings. At the **University of Aberdeen** the post of rector dates back to the foundation of the University in academic official in the University, subordinate only to the Senate, and he/she serves as the permanent chair for and appoint to the Court a Rector's Assessor; the President of the Students' Association further serves student's defined as a quider, leader, director, ruler, and master). At **Tel Aviv University** the Rector is the highest-ranking to ensure that student life at Aberdeen continues to meet the needs of all students. A Rector and Vice-Chancellor administers the University of Ottawa.

Royal North Shore Hospital Records Management

Registrar and Vice-Principal

Regional Meeting

Research and Research Training Management Plan Reports

Re-submit (file) an officer or officer's name will be specified along with the date. This can sometimes be shown as numbered points giving the sequence of who should receive the file. Sandstone

SCORE SCORE SCORE SCORE SCORP	
SCOME SCORE SCORP	South Asian Network for Young Conservation Professionals
SCOME SCORE SCORP	Standing Committee
SCOPE SCORE SCORP	Standing Committee on Medical Education
SCOPE SCORP	It is a forum for active discussion for medical students interested in developing medical education. The overall goal is
SCOPE SCORP	the implementation of an optimal learning environment for all medical students around the world.
SCORP	Standing Committee on Professional Exchange
SCOPH SCORP	ltis the largest committee within IFMSA. More than 6000 students worldwide participate in the programme each year.
SCORP	Standing Committee on Public Health
SCORP	Its importance is to make public health issues in medical education and more prominent to the profession and the
SCORP	community. The promotion of a healthy lifestyle through the eradication of smoking, improvement in diet and
SCORA SCORP	increasing physical activity
SCORE SCORP	Standing Committee on Reproductive Health including AIDS
SCORE SCORP	It aims to raise awareness among medical students about Reproductive Health including sexual education, gender
SCORE SCORP	equity, sexual violence, as well as Sexually Transmitted Infections.
SCORP Senate SES SG	Standing Committee on Research Exchange. It allows students interested in medical research the possibility to
SCORP Scu Scarate SC SC SC SC SC SC SC SC SC SC SC SC SC	experience research work in a foreign country.
SCU Senate SES SG SG SG	Standing Committee on human Rights and Peace. It deals with the problems faced by displaced people and
SCU Senate SE SG SG SG SG SG SG SG SG SG SG SG SG SG	participates in relief efforts. SCORP also works for the prevention of conflicts and human rights abuses.
Senate SES SG Y. F. Well	Southern Cross University
S S S S S S S S S S S S S S S S S S S	Academic Senate
SG Neill	Student Enquiry Service
SSEC	Secretary General
200	Society for the Study of Early Christianity

education	
y of Technology –	
University or	The second second
Swinburne	

that works

Iravel Assistance Fund echnical Data Card

Tertiary Entrance Rank (replaced by UAI)

ax File Number

ower Records and Information Management eam of Officials Meeting

Turnitin

MO

and with both freely available and subscription-based electronic journals - altogether billions of pages of text. The day of their classmates, previous students from Macquarie and other universities, with material available on the Internet, Web-based plagiarism detection system - The online system, called Turnitin, compares students' assignments those student's work. The online system will supplement, rather than replace, the University's existing plagiarism policy. after the assignment is submitted, the lecturer is emailed a report highlighting any non-original content in the

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UNAIDS

JNDP

J-Can

Jnited Nations Development Programme Jniversity of New England

United Nations Educational, Scientific and Cultural Organisation nternational Project on Technical and Vocational Education Jnited Nations Population Fund **INESCO** JNEV₀C

Swinburne

193	Common Abbre UNHCR UNICEF Unis UNISA UNSW UNSW UQ UQ USQ USQ USS USS UNSS UNSS	Common Abbreviations and Terminology guide United Nations High Commission for Refugees United Nations Children's Fund University of South Australia – experience the difference United National System - a term used to describe the higher education University of South Australia – experience the difference University of New South Wales, UNSW A Portrait by Professor Patrick O'Farrell, covers the first fifty years of University of Wollongong – Excellence in Education since 1951 University of Queensland University of the Sunshine Coast University of Southern Queensland University of Southern Queensland University of Southern Queensland University of Southern Australia University of Tasmania – Nationally Distinctive. (sometimes UniTas) University of Western Australia University of Western Australia University of Western Sydney – bringing knowledge to life
	varsity	var si ty – noun - 1. a brush aboreviation of university; usually refers to oxford university or cambridge University or 2. a team representing a college or university – first team,
((6)	

VC VCMC

Vice-Chancellor's Management Committee Village Concept Project

Vice-Chancellor

Training
and
Education
Vocational

Vice-President for External Affairs
Vice-President for Internal Affairs

World Federation on Medical Education World Federation of Public Health Associations

MFPHA

/ictoria University of Technology

World Health Organisation

WHO-AFRO WHO Regional Office for Africa
WHO-EMRO WHO Regional Office for the Eastern Mediterranean

WHO-EURO WHO Regional Office for Europe

WHO-SEARO WHO Regional Office for the South-East Asia WHO-WPRO WHO Regional Office for the Western Pacific

World Medical Association

MMA

Youth Forum Jeunesse

for more details see **The A to Z of Medical and Academic Associations, Abbreviations, Terminology and other Jargon**

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The A to Z Project so far.....

Pocket Reference Books



(origins insertions actions BS & NS of each muscle listed alphabetically)



(including radiology of the Skull)



(including pronunciation (each bone's features and guide, anatomy word builder, abbrev. of and organ wgt.)



its articulation group relations, individual joints, medical qualifications movements, BS & NS, and joint classifications listed)



(including a clinical section with examination techniques for general nerve disorders and assessments)

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- The A to Z of Histological and Anatomical images
- The A to Z of Skeletal Muscles
- The A to Z of Medical guizzes

Other proposed titles

list in order of priority

- The A to Z of the Hair. Nails and Skin.
- The A to Z of Surface Anatomy.
- The A to Z of the Head and Neck
- The A to Z of Emergency Medicine.
- The A to Z of Anatomical Quizzes
- The A to Z of Gynecological anatomy
- The A to Z of Radiology

Research projects

The A to Z of Topographical anatomical mapping in conjunction with the Forensic Institute of NSW and Anatomy Update

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