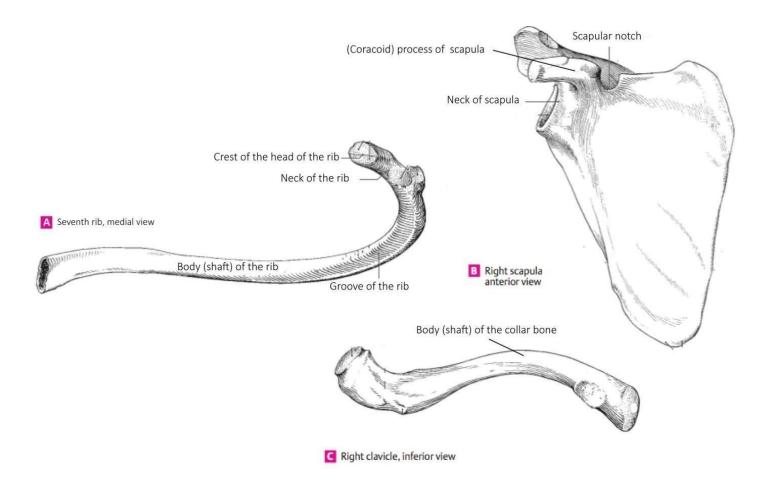
EXERCISES

1. Connect the following nouns to form anatomical terms denoting parts of structures. Pay attention to singular/plural forms. What is the meaning of the phrases?

sulcus + sclera	corpus + maxilla
corpus + lingua	symphysis + mandibula
arcus + aorta	collum + vesica
columna + vertebrae	rima + palpebrae

2. Replace the English terms for parts of bones with their Latin equivalents. Pay attention to word order and correct case endings.



¹ Images copied, rearranged and adjusted; source: Feneis, H & Dauber, W.: Pocket Atlas of Human Anatomy, Thieme 2000.

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3. What is the meaning of the following Latin phrases?

ruptura tendinis
ruptura venarum
fractura pollicis
arcus aortae
incisura mandibulae
fossa axillae
apertura linguae
ruptura fasciae
incisura scapulae
lamina sclerae
sulci cutis
fossae coxarum
apertura patellae
spina vertebrae
venae medullae
rima palpebrarum
fractura spinarum vertebrarum
fractura corporis vertebrae
therapia fracturae tibiae et fibulae

4. Translate the following phrases into Latin. Pay attention to word order and correct case endings: (English phrases with an adjective/noun instead of an "of" phrase are marked by *)

fracture of the hip fractures of the hip *a hip fracture fracture of calf bones fractures of the calf bone fracture of the rib fractures of ribs fracture of the head of femur rupture of the tendon hollow of the gland arteries of the shoulder blade *sternal crest surface of the collar bone fracture of the vertebra fracture of *the vertebral column fracture of the spine of shoulder blade fracture of the upper and lower jaw fracture of the radial and elbow bone treatment of the fracture of collar bone treatment of fractures of vertebrae insufficiency of the *aortic valve

5. Explain the difference between positions expressed by the following prepositional phrases. Notice how the case endings of the nouns change according to the preposition and the meaning.

e venis	e vena
in venas	in venis
in venam	in vena
in glandulam	in glandulas
e glandula	e glandulis
in glandulis	in glandula

6. FTranslate the prepositional phrases into Latin. Pay attention to the number: the expressions on the left are all in singular, the expressions on the right are all in plural.

near the opening	near openings
towards the gland	towards glands
with an anomaly	with anomalies
into the kneecap	into kneecaps
in the kneecap	in kneecaps
without diabetes	without allergies
into the aperture	into apertures
because of anemia	because of ruptures
under a layer	under layers

7. What is the meaning of the following Latin phrases? What cases are used and why?

in rima palpebrarum post fracturas costarum sine ruptura fasciae contra dyspnoen in fissuram hepatis diarrhoe e colica cum insufficientia valvulae aortae

8. Translate the following phrases into Latin. Pay attention to correct word order and case endings.

after fractures of hips after rupture of the tendon into the depression of shoulder blade anemia due to bleeding without lung infection in the glands of tongue before treatment of hernia with shortness of breath

9. How should the case endings of the nouns change so that the phrases make sense?

post	+	therapia	+	angina / dyspnoe / diabetes
causa	+	hernia	+	abdomen / femur / vertebra
cum	+	insufficier	ntia	+ oculus / arteriae / tonsillar
fractur	a	+ caput	+	mandibula / digitus / phalanx
sine	+	rupturae	+	tendo / venae / arteria

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10. Match the given pathologies with their definitions.

epilepsia	a protrusion of an organ or body part through the lining of the cavity in which it is normally situated
diphtheria	a deficiency in the number of red blood cells
scarlatina	spasmodic pains in the abdomen
insufficientia	an acute or chronic disease marked by infection of lungs
allergia	any of various neurological disorders characterized by sudden attacks, with or without loss of consciousness or convulsive seizures
hernia	a tear in an organ or a tissue
pneumonia	substantial bleeding
colica	an acute contagious disease caused by a hemolytic streptococcus, characterized by a scarlet skin eruption and high fever
angina pectoris	chest pain or pressure usually caused by insufficient blood flow to the heart muscle
anaemia	an overreaction of the immune system to a previously encountered, ordinarily harmless substance, resulting in skin rash or other abnormal conditions
haemorrhagia	a condition of improper functioning of an organ, tissue, etc.
ruptura	an acute contagious infection marked by the formation of a false membrane in the throat and other air passages causing difficulty in breathing

••• 6

GRAMMAR

NOUN-ADJECTIVE AGREEMENT (= AGREED ATTRIBUTE)

Adjectives are words that modify and describe the qualities of nouns. In Latin, an adjective always agrees with the noun it modifies in gender, case and number (notice that the adjective does not have to belong to the same declension as the noun it modifies). This principle is called **noun-adjective agreement** and it is applied in all noun+adjective phrases (also called <u>agreed attribute</u>). The dictionary entry of each adjective contains Nominative singular forms for all genders. The choice of the proper form depends on the gender of the noun we want to modify. Thus, the **gender** of a noun has to be memorized together with the noun itself. The case and number of the adjective must also be identical with the case and number of the noun it modifies, e.g. if the noun is in plural form, the adjective must be in genitive form as well.

In some declensions, the Nominative ending may give us a hint about the gender of the word. For instance, most of the 1st declension nouns are of female gender and end in *-a*. However, in other cases, the situation is not so simple, e.g. words ending in *-us* may be males of the 2^{nd} declension (*nervus*, *i*, *m*.), neutrals of the 3^{rd} declension (*corpus*, *oris*, *n*.), or even males of the 4^{th} declension (*ductus*, *us*, *m*.). Therefore, it is recommended to memorize the gender of a noun together with the word itself.

CONSEQUENCES OF GRAMMATICAL AGREEMENT (AGREED ATTRIBUTE)

As nouns are of three genders in Latin, adjectives have also three different forms to comply with the gender of the noun. A feminine noun can never be connected with an adjective in masculine or neutral form; a masculine noun can never be connected with an adjective in feminine or neutral form etc.

Adjectives of the 1st and 2nd declension are inflected as nouns of the 1st and 2nd declension. Ordinal numbers in Latin, too, behave as adjectives of the 1st and 2nd declension. In anatomical nomenclature, we only use ordinal numbers from 1 to 12. Adjectives of 1st and 2nd declension as well as ordinal numbers 1-12 have the following Nominative singular endings:

masculines	feminines	neutrals
-us (-er)	-a	-um

The dictionary entry contains a full male form followed by female and neutral endings,

E.g. *magnus, a, um* > M: magnus, F: magna, N: magnum *primus, a, um* > M: primus, F: prima, N: primum

<u>Some adjectives end in-*e*r instead of -*us* Nominative sg. in male form; in such cases, it is always indicated whether the -e- is omitted or stays in other than Nominative singular male form (the same principle applies for nouns ending in -er).</u>

E.g. *dexter, tra, trum* > M: dexter, F: dextra, N: dextrum (-e- is omitted) *liber, era, erum* > M: liber, F: libera: N: liberum (-e- stays)

INFLECTION of **NON-AGREED ATTRIBUTE** AGREED ATTRIBUTE sg. 1. fractura vertebrae 1. fractura complicata 2. (causa) fracturae vertebrae 2. fracturae complicatae 4. (post) fracturam vertebrae 3. (post) fracturam complicatam 6. (cum) fractura vertebrae 4. (cum) fractura complicata pl. 1. fracturae vertebrarum 1. fracturae complicatae 2. (causa) fracturarum vertebr**arum** 2. fracturarum complicatarum 4. (post) fracturas vertebrarum 4. (post) fracturas complicatas (cum) fracturis vertebrarum 6. (cum) fracturis complicatis 6.

The noun in Genitive remains the same!

Both noun and adjective change accordingly!

VOCABULARY

ANATOMICAL NOMENCLATURE

CLINICAL TERMINOLOGY

albus, a, um auditivus, a, um	white auditory	acquisitus, a, um acutus, a, um	acquired acute (severe symptoms, short-term)
bursa, ae, f. cavus, a, um cellula, ae, f.	pouch, sack, bursa hollow (with <i>vena</i>) cell	apertus, a, um chirurgicus, a, um chronicus, a, um	open surgical chronic (mild symptoms, long-term)
coccygeus, a, um coronarius, a, um decimus, a, um dexter, tra, trum	coccygeal, related to coccyx coronary (with <i>arteriae</i>) tenth right	clausus, a, um complicatus, a, um congenitus, a, um epidemicus, a, um	closed complicated congenital, inborn epidemic, occurring in excessive numbers
externus, a, um	external	mellitus, a, um	type of diabetes, lit. related to honey
felleus, a, um fuscus, a, um	bilious, related to bile brown	periculosus, a, um postoperativus, a, um	dangerous occurring after operation, postoperative
gastricus, a, um iliacus, a, um internus, a, um	gastric, related to stomach iliac, related to iliac bone internal	secundarius, a, um	secondary, not primary
latus, a, um	wide, broad	*ORDINAL NUMBERS	
liber, era, erum	free, loose	primus, a, um	first
magnus, a, um	big, large	secundus, a, um	second
medianus, a, um	median, located in between two structures	tertius, a, um	third
medius, a, um	middle	quartus, a, um	fourth
mucosus, a, um	mucous, related to mucus	quintus, a, um	fifth
niger, a, um	black	sextus, a, um	sixth
obliquus, a, um	oblique, inclined prolonged	septimus, a, um	seventh
oblongatus, a, um palatinus, a, um	plotonged palatal, related to palate	octavus, a, um nonus, a, um	eighth ninth
parvus, a, um	small	decimus, a, um	tenth
plica, ae, f.	fold	undecimus, a, um	eleventh
proprius, a, um	proper, distinctive	duodecimus, a, um	twelfth
profundus, a, um	deep		
serosus, a, um	serous, related to serum		
sinister, tra, trum	left		
spurius, a, um	false (with <i>costa</i>)		
subcutaneus, a, um	subcutaneous, located under skin		
thoracicus, a, um	thoracic, related to thorax		
transversus, a, um	transverse		
tuba, ae, f.	tube		
uterinus, a, um	uterine, related to uterus		
urinarius, a, um	urinary		
verus, a, um	true (with costa)		



IMPORTANT COLLOCATIONS

diabetes mellitus	diabetes (metabolic disorder marked by high blood sugar levels)
glandula thyroidea	thyroid gland (an endocrine gland in the throat secreting hormones influencing metabolic rate, protein synthesis, etc.)
lamina propria	a thin layer of loose connective tissue, or dense irregular connective tissue, which lies beneath the epithelium and together with the epithelium constitutes the mucosa
linea alba	the tendinous median line on the anterior abdominal wall between two straight muscles
medulla oblongata	prolongation of the spinal cord
rima palpebrarum	free space between eyelids, the fissure between eyelids
tuba auditiva	Eustachian tube, also called auditory (or pharyngotympanic) tube, links nasopharynx with the middle ear
tuba uterina	Fallopian tube, or uterine tube
(tunica) mucosa	membrane that lines cavities and surrounds internal organs
(tunica) serosa	smooth tissue membrane consisting of two layers of mesothelium which secretes serous fluid
vesica fellea	gall bladder
vesica urinaria	urinary bladder