

**DIVERSITY OF LITHUANIAN AND LATIN ANATOMICAL TERMS IN THE TEXTBOOK
“ŽMOGAUS ANATOMIJA. KAULAI. JUNGTYŠ”**

Nijolė Litevkienė, Jurgita Briedytė

Šiaulių valstybinė kolegija / Higher Education Institution

Abstract

The Romans took over Greek medical knowledge, translating and re-writing Greek books. The greatest Roman scholar was Celsius who is considered a founder of Latin medical terminology. The Latin language lacked the names for many medical notions, especially the terms for pathological conditions, which is why Celsius and others had to translate Greek terms into Latin, while simultaneously using Greek terms in the Greek form. This way the two-fold Latin-Greek medical terminology was founded. The Greek part of the terminology was latinized.

Even long after the fall of the Roman Empire, Latin was still the language of communication. Medical terminology based on Latin and Greek has several advantages: it provides continuity between the past and the present as well as continuity in space; Latin terminology is used all over the world; the grammatical system and vocabulary of Latin and Greek do not change, therefore; modern terms are still based on these dead languages; it has a practical importance in Medicine – the patient does not understand it and cannot draw adequate conclusions (Bujalková, 2018). The object of the article is the relations between Lithuanian and Latin one-word and compound anatomical terms. The purpose of the article is to reveal the similarities and differences between one-word and compound English and Latin anatomical terms by structure of components. To achieve the purpose, the following research tasks are set: to review the evolution of anatomical nomenclature, to compare English and Latin one-word and compound anatomical terms according to the diversification of structure of components, to systematize diversification aspects of components of English and Latin terms. The method of theoretical analysis is used to examine scientific literature, the comparative analysis of terms enables systematization and generalization of English and Latin anatomical terms in the resource.

Key words: Latin anatomical terms, Lithuanian one-word terms, grammatical configurations, Lithuanian compound terms; diversity of compound term structures

LATIN IN MEDICAL TERMINOLOGY

There is hardly any other aspect of medicine that is so discouraging for the beginning student as medical terminology. The first impact of the long, unfamiliar words is decidedly depressing. Although medical terms have been drawn from many languages, a large majority are from Greek and Latin. Some familiarity with the meaning of the most frequently used roots, prefixes, and suffixes will clarify the whole field. With a little study, it will be found that the long and formidable sounding medical terms are a combination of words which describe parts of the body, a function, or a condition. The basic terms occur over and over again in various combinations. A knowledge of the meaning of the roots, prefixes, and suffixes enables the student to analyze the medical terms into component parts. This is of the greatest aid in learning to understand the vocabulary of medicine. Some names of diseases given by the ancients and still used to-day are, in many instances, simply descriptions of the outstanding symptoms (Banay, 1948).

The study of Latin and Greek provides with a better understanding of the language which has been so strongly influenced by Roman and Greek languages. The pursuit of Latin and Greek language skills not only provides the broadening experience which comes from learning how to think and express oneself in another language, but can also be great aid to building vocabulary and language skills in English and other languages. Latin and Greek literature and mythology introduce you to classical authors whose excellence is beyond question and whose works and genres have influenced Western literature down to our own day.

Greek language is the language of	Homer, Socrates, Plato, Aristotle, Diogenes, Plutarch and the Bible
Latin language is the language of	Plautus, Terence, Cicero, Vergil, Horace, Ovid, St. Augustine and St. Francis of Assisi.

After the Roman conquest of Britain under Emperor Claudius, the native Picts' Celtic language first became infused with Latin, then merged with the new invaders' Germanic (Anglo-Saxon) dialects, and finally became English (Kondratjev, 2005).

As the Romans conquered, Latin became the universal language of Italy and the provinces. Many centuries after the fall of Rome, Latin still ruled supreme. To this very day, Latin is the language of the Catholic Church, and during the formative period of the western European languages it was incorporated into everyone of them. The Romance languages, and especially French, is modern Latin, preserving most of the form and spirit of the ancient language. English is to some extent Germanic in form and part of its vocabulary, but a considerable section is of Latin ancestry borrowed from the French. Most of the common roots of speech are Anglo-Saxon, but from the moment we leave primitive life and advance to more civilized living, our words immediately become Latin. We walk, start, stop, breathe, sleep, wake, talk, live and lie in Anglo-Saxon but we advance, retreat, approach, retire, inspire, confer, discuss, compare, refute, debate, perish, survive in Latin, and the predominant part of the vocabulary of business, commerce, finance, government, diplomacy, and the sciences is Latin. Greek medicine migrated to Rome at an early date, and many Latin terms crept into its terminology. Latin was the language of science up to the beginning of the 18th Century, so all medical texts were written in Latin. Under the influence of the great anatomical work of Andreas Vesalius, *De humani corporis fabrica* (1543), the terminology of anatomy is almost exclusively Latin (Banay, 1948).

The branches of science in which Latin has traditionally found its application involve indisputably medicine. While until the close of the Middle Ages a medical text not written in Latin was a rare exception, modern languages began to gain ground with increasing intensity from the 16th century on. Although in France there even was a court case held against a certain doctor named Rivière, in which he was accused of not being actually able to be a doctor because he did not have a good command of Latin, it was in France that Latin first started retreating from medicine, followed by Italy and later England. On the other hand, in Germany and in the central European area Latin survived even in teaching until as late as the 19th century. Despite the obvious retreat of Latin from the medical terminology in the 20th century, Professional communicative acts in the NATIONAL languages have so far been realised with the use of international Latin-Greek terms. This state follows from the advantages that have been generally known: terminological continuity, on the one hand the present paper offers an up-to-date view of the status of Latin as the language of medicine, namely in its terminological component. It is concerned in greater detail with the three basic terminological vocabularies in which a doctor cannot so far manage without its knowledge. In this sense a primary rank is occupied by anatomical nomenclature whose international version remains Latin in the full extent (Marecková, Šimon, Cervený, 2002). Apart from this, Latin and Greek constitute a unique stock which may also be drawn upon in case of the need of creating a new term. The incomprehensibility of the two languages for the patient is a specific moment of preference, as it is not always in his or her interest to understand the utterances of physicians.

The first attempt to unify the nomenclature of anatomy was made by the German Anatomical Society. In 1895, the Congress of Anatomists in Basel discussed and approved the draft of the nomenclature of anatomy, submitted by a special commission that worked on it for 8 years, which later acquired the name *Baseler Nomina Anatomica* (BNA). In 1998, a new classifier of anatomical terms, *Corpus Terminologia Anatomica*, was published. FCAT (Federative Committee on Anatomical Terminology) endorsed Latin *expressis verbis* as "the best (definitive) language for terminology". Latin is described as global and "non-global"; i.e., intended for the entire world and all professional levels. As a "dead" language, Latin does not change and does not belong to any nation. Due to the long-lasting closure of the countries' international scientific relations, the medical science in each country was developing its own nomenclature. In the long run, a great confusion of anatomical terms arose, since newly discovered parts of human organs were called by names chosen on different principles. Many organs or their parts had several names each, and there were also numerous terms related to the names of discoverers, the priority of whom could not always be determined with certainty. As indicated by the Medical Terminology Commission, there are few terms that would be recognized, accepted by all; we do not have many terms at all, and this causes great difficulties not only for authors of articles, the teachers of medicine, but also for every doctor. The purist attempts of scholars at the beginning of this century to maximally or even completely abandon international terms did not receive approval (Keinys, 1980). The same can be also said about the medical terminology of other nations. Polish scholars have composed almost all terms in Polish (Indrašius, 1967). Czechs and Hungarians have replaced many international terms with their own, often not quite right words (Rosinas, 1999).

Medical terminology may be divided into two main parts: anatomical (based on Latin) and clinical (based on Greek). The modern anatomical terminology is based on the centuries-old tradition and knowledge that is constantly revised. Clinical medicine has not finished its development. The names of diseases were formed empirically in various times and places therefore clinical terminology is not so uniform. Besides, clinical subjects continue to develop, so their knowledge must be continually revised (Bujalková, 2018).

It is estimated that about three-fourth so four medical terminology is of Greek origin. The main reason for this is that the Greeks were the founders of rational medicine in the golden age of Greek civilization in the 5th century B.C. The Hippocratic School and, later on, Galen (the Greek from Asia Minor who lived in Rome in the 2nd century A.D.) formulated the theories which dominated medicine up to the beginning of the 8th century. The Hippocratics were the first to describe diseases based on observation, and the names given by them to many conditions are still used today. A second reason for the large number of Greek medical terms is that the Greek language lends itself easily to the building of compounds. The fact is that about one-half of our medical terminology is less than a century old. A third reason for using the classical roots is that they form an international language, easily understood by anyone familiar with the subject matter. (Banay, 1948).

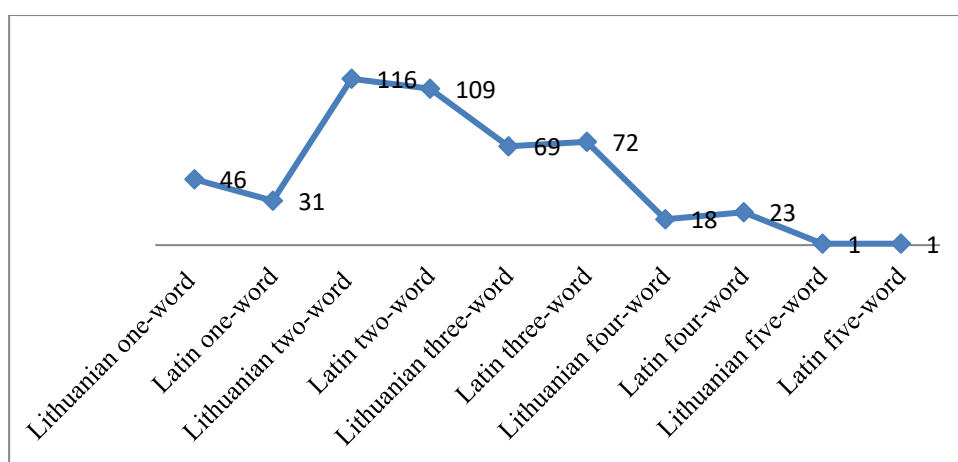


Fig. 1. Lithuanian and Latin compound anatomical terms in terms of structure

The research object consists of 250 Lithuanian one-word and compound anatomical terms and 236 Latin one-word and compound anatomical terms (486 terms in total). Anatomical terms are collected from the book “*Žmogaus anatomija. Kaulai. Jungtys*” (“*Human Anatomy. Bones. Connections*”) written by P. Zachovajevs, A. Karpavičienė, A. Seibutienė.

According to the authors of the book, human anatomy is the study of the structure of the body and its parts, ontogenesis, age and gender peculiarities, and the connection between form and function. One of the main parts of this science studies the apparatus of support and movement, consisting of active (muscles) and passive (bones and their joints) parts.

This textbook does not delve into the history of human anatomy, nor does it provide knowledge of muscle tissue and muscles. The focus is on descriptions of tissues, bones and joints. The text is supplemented with the Latin equivalents of the main terms, and the picture with the corresponding Latin terms are placed next to the pictures with the Lithuanian terms.

According to the number of words that make up the term, medical terms, like terms in general, are divided into one-word and compound terms. In the nomenclature of anatomy, *Nomina Anatomica*, the axial names of parts of the human body are one-word. All English and Latin one-word anatomical terms are nouns. According to the provisions of the PNA, every organ must be named by only one term. One-word anatomical terms make up only a small portion of anatomical terms. They name the concepts of the main parts and organs of the human body.

In terms of origin, one-word Lithuanian anatomical terms found in the source have formed on the basis of the lexicon of their own language: kraujas – sanguis ZAKJ8; limfa – limpha ZAKJ9; os – kaulas ZAKJ13; ašis – axis ZAKJ17; dantis – dens ZAKJ17; viršūnė – apex ZAKJ18; skiauterė – crista ZAKJ18; šonkaulis – costa ZAKJ18; kūnas – corpus ZAKJ18;

galva – caputZAKJ18; collum – kaklasZAKJ18; gumburėlis – tuberculumZAKJ18; krūtinkaulis – sternumZAKJ19; rankena – manubriumZAKJ19; mentė – scapulaZAKJ19; raktikaulis – claviculaZAKJ19; kampas – angulusZAKJ19; žastas – brachiumZAKJ19; plaštaka – manusZAKJ19; alkūnkaulis – ulna ZAKJ20; sparnas – alaZAKJ21; šlaunis – femurZAKJ22; pėda – pesZAKJ22; noragas – vomerZAKJ26; šėivikaulis – fibulaZAKJ22.

Most of one-word anatomical terms are simple Lithuanian and Latin or Greek root words. From the given Lithuanian and Latin one-word terms, it can be seen that most of them are short: monosyllabic or bisyllabic. The analysis of the terms shows that rarely one-word terms are trisyllabic and foursyllabic.

Latin equivalents of Lithuanian one-word anatomical terms can be Latin one-word terms, Latin two-word terms and Latin three-word terms. Statistically, it looks like this:

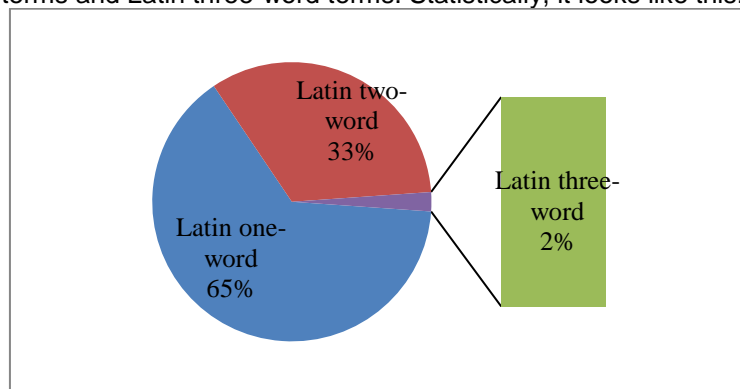


Fig. 2. Latin equivalents of Lithuanian one-word terms in terms of structure

LITHUANIAN AND LATIN COMPOUND ANATOMICAL TERMS

1. LITHUANIAN TWO-WORD ANATOMICAL TERMS AND THEIR LATIN EQUIVALENTS

However, medical terminology is mostly made up of compound terms. According to scholars, only combinations of words can have an accurate scientific expression, because the more words make up the term, the more precisely it can be expressed (Danilenko, 1986).

Lithuanian and Latin compound terms form a separate group in medical terminology. Their productivity is determined by the suitability of the Latin language to economically and succinctly express an idea when the native language equivalent is expressed in a periphrasis (Marečkova, Širnon, Červený, 2002). Lithuanian two-word anatomical terms and their Latin equivalents form ten used types of grammatical configurations:

1. Adj¹_{Ni} + S_N ↔ S_N + Adj_N (Litevkienė, 2006)
2. Adj_{Nn} + S_N ↔ S_N + Adj_N;
3. S_G + S_N ↔ S_N + S_G;
4. S_G + S_N ↔ S_N + Adj_N;
5. Adj_{Nns} + S_N ↔ S_N + Adj_N;
6. Adj_{Nn} + S_N ↔ S_N + Adj_{JNC};
7. Adj_{Ni} + S_N ↔ S_N + Adj_{JNC};
8. S_{Gs} + S_N ↔ S_N + S_G + Adj_G;
9. Adj_{Nn} + S_N ↔ S_N + Adj_N + Adj_N;
10. S_G + S_N ↔ S_N

The following grammatical configurations are characteristic of Lithuanian two-word terms and their Latin equivalents:

Type 1. Nominative of a pronominal adjective (attribute) + nominative of a noun (determinative) ↔ nominative of a noun (determinative) + nominative of an adjective (attribute):

plokščiasis epitelis – epithelium simplexZAKJ6; kubiškasis epitelis – epithelium cuboideumZAKJ6; stulpiškasis epitelis – epithelium columnareZAKJ6; ilgieji kaulai – ossa longaZAKJ15; trumpasis kaulas – os breveZAKJ15; plokštieji kaulai – ossa planaZAKJ15; netaisyklingieji kaulai – ossa irregulareaZAKJ15; akytieji kaulai – ossa spongiosaZAKJ15; plokštieji kaulai – ossa planaZAKJ15; artimasis galas – extremitas proximalisZAKJ20; artimasis pirštakaulis – phalanx proximalisZAKJ21; tolimasis pirštakaulis – phalanx distalisZAKJ21

¹S – Noun; Adj– adjective; P –participle; N –numeral; N_O– ordinal, N– Nominative; G– Genitive; C– comparative degree; S– superlative degree, S – combined

²identical

Type 2. Nominative of an adjective with the suffix *inis,é*(attribute) + nominative of a noun (determinative) \equiv nominative of a noun (determinative) + nominative of an adjective (attribute):
 kaulinis audinys – *textus osseus*ZAKJ11; nervinis audinys – *textus nervosus*ZAKJ11; oriniai kaulai – *os pneumaticum*ZAKJ15; įterptiniai kaulai – *os sesamoideum*ZAKJ15; vamzdiniai kaulai – *os tubulosae*ZAKJ15; keterinė atauga – *processus spinosus*ZAKJ17; šoninės masės – *massae lateralis*ZAKJ17; dubeninis paviršius – *facies pelvica*ZAKJ18; skersinės linijos – *lineae transversae*ZAKJ18; stuburinis galas – *extremitas vertebralis*ZAKJ18; kardinė atauga – *processus xiphoideus*ZAKJ19; šonkaulinės įlankos – *incisurae costales*ZAKJ19; raktikaulinės įlankos – *incisurae clavicales*ZAKJ19; petinis galas – *extremitas acromialis*ZAKJ19; krūtinkaulinis galas – *extremitas sternalis*ZAKJ19; deltinė šiurkštuma – *tuberositas deltoidea*ZAKJ20; vidinis krumplys – *condylus medialis*ZAKJ20; vainikinė duobutė – *fossa coronoidea*ZAKJ20; kaulinis kraštas – *margo interosseus*ZAKJ20; sąnarinis apvadas – *circumferentia articularis*ZAKJ20; užtvarinė anga – *foramen obturatum*ZAKJ22; gubrinė duobė – *fossa trochanterica*ZAKJ22; sėdmeninė šiurkštuma – *tuberositas glutea*ZAKJ22; vidinis krumplys – *condylus medialis*ZAKJ22; šoninis krumplys – *condylus lateralis*ZAKJ22; sąnarinis paviršius – *facies patellaris*ZAKJ22; sąnarinis paviršius – *facies patellaris*ZAKJ22; vidinė kulkšnis – *malleolus medialis*ZAKJ22; skaidulinės jungtys – *juncturae fibrosae*ZAKJ28; kremzlinė jungtis – *juncturae cartilagineae*ZAKJ28; klubakaulio skiauterė – *crista iliaca*ZAKJ21.

Type 3. Genetive of a noun (attribute) + nominative of a noun (determinative) \equiv nominative of a noun (determinative) + genetive of a noun (attribute):

slankstelio kūnas – *corpus vertebrae*ZAKJ17; slankstelio lankas – *arcus vertebrae*ZAKJ17; danties duobutė – *fovea dentis*ZAKJ17; šonkaulio vaga – *sulcus costae*ZAKJ18; mentės dyglys – *spina scapulae*ZAKJ19; alkūnės duobutė – *fossa oleacrani*ZAKJ20; kaukolės kaulai – *ossa cranii*ZAKJ24; peties sąnarys – *articulatio humeri*ZAKJ35; klubo sąnarys – *articulatio coxae*ZAKJ38; kelio sąnarys – *articulatio genus*ZAKJ38; danties duobutė – *fovea dentis*ZAKJ43.

Type 4. Genetive of a noun (attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + nominative of an adjective (attribute):

slankstelio anga – *foramen vertebrale*ZAKJ17; stuburo kanalas – *canalis vertebralis*ZAKJ17; kaklo slanksteliai – *vertebrae cervicales*ZAKJ17; krūtinės slanksteliai – *vertebrae thoracicae*ZAKJ17; juosmens slanksteliai – *vertebrae lumbales*ZAKJ18; jungo įlanka – *incisura jugularis*ZAKJ19.

Type 5. Nominative of an adjective with the suffix *inis,é* (combined)(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + nominative of an adjective (attribute): tarpšlenkstelinė anga – *foramen intervertebrale*ZAKJ17; pakauškaulio žvynas – *squama occipitalis*ZAKJ24; šeivikaulinė įlanka – *incisura fibularis*ZAKJ22; alkūnkaulio šiurkštuma – *tuberositas ulnae*ZAKJ20; alkūnkaulio galva – *caput ulnae*ZAKJ20; šlaunikaulio galva – *caput femoris*ZAKJ22; kryžkaulio kanalas – *canalis sacralis*ZAKJ18; stuburgalio slanksteliai – *vertebrae coccygeae*ZAKJ18; žastikaulio kaklas – *collum anatomicum*20.

Type 6. Nominative of an adjective with the suffix *inis,é*(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + nominative of a comparative (attribute):
 priekinis lankas – *arcus anterior*ZAKJ17; užpakalinis lankas – *arcus posterior*ZAKJ17; užpakalinis lankas – *arcus posterior*ZAKJ43; priekinis lankas – *arcus anterior*ZAKJ43; užpakalinis gumburėlis – *tuberculum posterius*ZAKJ43; priekinis gumburėlis – *tuberculum anterius*ZAKJ43.

Type 7. Nominative of a pronominal adjective (attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + nominative of a comparative (attribute):

didysis iškilimas – *tuberculum majus*ZAKJ20; mažasis iškilimas – *tuberculum minus*ZAKJ20; didysis gubrys – *trochanter major*ZAKJ22; mažasis gubrys – *trochanter minor*ZAKJ22; didysis sparnas – *ala major*ZAKJ24; mažasis sparnas – *ala minor*ZAKJ24; mažieji ragai – *cornua minora*ZAKJ26; didieji ragai – *cornua minora*ZAKJ26.

Type 8. Genetive of a noun (combined)(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + genetive of a noun (attribute) + genetive of an adjective:
 sėdynkaulio šaka – *ramus ossis ischii*ZAKJ22; kryžkaulio šiurkštuma – *tuberositas ossis sacri*ZAKJ15; sėdynkaulio šaka – *ramus ossis ischii*ZAKJ22.

Type 9. Nominative of an adjective with the suffix *inis,é*(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + nominative of an adjective + nominative of an adjective:

vidinis pleištukas – *os cuneiforme mediale*ZAKJ139; vidurinis pleištukas – *os cuneiforme intermedium*ZAKJ139.

³different

Type 10. Genetive of a noun (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative):

kelio girnelė – patellaZAKJ22; viršutinis žandikaulis – maxillaZAKJ26; apatinis žandikaulis – mandibulaZAKJ26.

According to the frequency of identity or difference between the components of terms, the terms in this group are grouped as follows:

Lithuanian two-word terms			Identity/difference	Latin equivalents		
Types	subordinate component	main component	≡ ≠	main component	I subordinate component	II subordinate component
Adj _{Ni} + S _{N↔} S _N + Adj _N N⁴=18	adjective (nominative)	noun (nominative)	≡	noun (nominative)	adjective (nominative)	-
Adj _{Nn} + S _{N↔} S _N + Adj _N N=41	adjective (nominative)	noun (nominative)	≡	noun (nominative)	adjective (nominative)	-
S _G + S _{N↔} S _N + S _G N=16	noun (genetive)	noun (nominative)	≡	noun (nominative)	noun (genetive)	-
S _G + S _{N↔} S _N + Adj _N N=7	noun (genetive)	noun (nominative)	≠	noun (nominative)	adjective (nominative)	-
Adj _{Nns} + S _{N↔} + S _N + Adj _N N=10	adjective (nominative)	noun (nominative)	≠	noun (nominative)	adjective (nominative)	-
Adj _{Nn} + S _{N↔} + S _N + Adj _{NC} N=6	adjective (nominative)	noun (nominative)	≠	noun (nominative)	adjective (comparative) (nominative)	-
Adj _{Ni} + S _{N↔} S _N + Adj _{NC} N=10	adjective (nominative)	noun (nominative)	≠	noun (nominative)	adjective (comparative) (nominative)	-
S _{Gs} + S _{N↔} S _N + S _G + Adj _G N=3	noun (genetive)	noun (nominative)	≠	noun (nominative)	noun (genetive)	adjective (genetive)
Adj _{Nn} + S _{N↔} + S _N + Adj _N + Adj _N N=2	adjective (nominative)	noun (nominative)	≠	noun (nominative)	adjective (nominative)	adjective (nominative)
S _G + S _{N↔} S _N N=3	noun (genetive)	noun (nominative)	≠	noun (nominative) (nominative)	-	-

Table 1. Frequency of components of compound terms by grammatical configurations.

In Lithuanian two-word anatomical terms, the secondary component is usually expressed by the agreed attribute (types 1,2,5,6,7,9); less often, by the non-agreed attribute (types 3, 4, 8, 10). Secondary components are usually expressed by adjectives. In Latin equivalents, secondary components are usually expressed by agreed attributes (types 3, 8). Identical types of Lithuanian and Latin two-word anatomical terms account for 30 percent of all types of terms of this kind. Two-thirds of types of grammatical configurations are different. The secondary components are also usually expressed by adjectives (positive adjectives or comparative adjectives).

When discussing aspects of coincidence and difference between Lithuanian and Latin components, it is necessary to point out that there are no forms of the pronominal adjective and participle in Latin.

⁴Number of terms.

Almost half of Lithuanian attributive components consist of adjectives with suffixes-inis, -inè (4 out of 10 configuration types).

2. LITHUANIAN THREE-WORD TERMS AND THEIR LATIN EQUIVALENTS

Lithuanian three-word anatomical terms make up 14% of all found compound anatomical terms; Latin three-word CTs⁵, 15%. Statistically, these Lithuanian and Latin terms are used quite often in anatomical terminology. They are surpassed only by two-word terms. Latin equivalents of Lithuanian three-word terms can be three-word and four-word terms.

The following types of configurations of Lithuanian three-word terms and Latin equivalents have been observed:

1. Adj_{Ni} + P_{Ni} + S_N ↔ S_N + Adj_N + Adj_N;
2. Adj_{Nn} + P_{Ni} + S_N ↔ S_N + Adj_N + Adj_N;
3. Adj_{Nn} + P_{Ni} + S_N ↔ S_N + Adj_N + Adj_{NC};
4. Adj_{Nn} + S_G + S_N ↔ S_N + Adj_N + Adj_N;
5. Adj_{Gn} + S_G + S_N ↔ S_N + S_G + Adj_G;
6. Adj_{Nn} + Adj_{Nn} + S_N ↔ S_N + Adj_N + Adj_N;
7. Adj_{Nn} + S_G + S_N ↔ S_N + Adj_N + Adj_{NC};
8. Adj_{Gi} + S_G + S_N ↔ S_N + Adj_N + Adj_{GC};
9. Adj_{Gn} + S_G + S_N ↔ S_N + S_G + Adj_G;
10. S_G + S_G + S_N ↔ S_N + S_G + S_G;
11. S_G + S_G + S_N ↔ S_N + Adj_N + Adj_N;
12. S_G + S_G + S_N ↔ S_N + S_G + S_G + S_G;
13. Adj_{Nn} + S_G + S_N ↔ S_N + Adj_{NC} + S_G + S_G;
14. S_G + S_G + S_N ↔ S_N + S_G + S_G + Adj_{GC};

Type 1. Nominative of a pronominal adjective (attribute) + nominative of a pronominal participle (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + nominative of an adjective (attribute) + genitive of an adjective + nominative of an adjective (attribute): purusis jungiamasis audinys – textus connectivus luxusZAKJ9

Type 2. Nominative of an adjective with the suffix inis, è (attribute) + nominative of a pronominal participle (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + nominative of an adjective (attribute) + genitive of an adjective + nominative of an adjective (attribute): skaidulinis jungiamasis audinys – textus connectivus fibrosus 10ZAKJ; išorinė klausomoji anga – porus acusticus externusZAKJ25; vidinė klausomoji anga – porus acusticus internusZAKJ25; išorinė klausomoji landa – porus acusticus externusZAKJ66

Type 3. Nominative of an adjective with the suffix inis, è (attribute) + nominative of a pronominal participle (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + nominative of an adjective (attribute) + nominative of an adjective + nominative of a comparative (attribute):

užpakalinė paverstoji atauga – processusclinoideus posteriorZAKJ65

Type 4. Nominative of an adjective with the suffix inis, è (attribute) + genitive of a noun (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + nominative of an adjective (attribute) + nominative of an adjective + nominative of an adjective (attribute):

sąnarinis riešo paviršius – faciesarticularis carpalisZAKJ20; vidinis pakauškaulio kyšulys – protuberantia occipitalis internaZAKJ24; viršutinė sprando linija – linea nuchae superior24ZAKJ; išorinis pakauškaulio kyšulys – protuberantiaoccipitalis externaZAKJ24; šalutinis alkūnkaulio raištis – ligamentumcollaterale ulnareZAKJ35; šalutinis stipinkaulio raištis – ligamentum collaterale radialeZAKJ35; žiedinis stipinkaulio raištis – ligamentum anulare radiiZAKJ 35; šalutinis stipinkaulio raištis – ligamentum collaterale radialeZAKJ36; žiedinis stipinkaulio raištis – ligamentum anulare radiiZAKJ36; skersinis padikaulių raištis – ligamentum metatarsale transversumZAKJ40; slankstelinės arterijos vaga – sulcus arteriae vertebralisZAKJ43; tarpinės kryžkaulio skiauterės – cristae sacrales medialesZAKJ18; šoninės kryžkaulio skiauterės – cristae sacrales lateralesZAKJ18; šokikaulinis kulnkaulio raištis – ligamentum talocalcaneum interosseumZAKJ139

Type 5. Genitive of an adjective with the suffix inis, è (attribute) + genitive of a noun (attribute) + nominative of a noun (determinative) ≡ nominative of a noun (determinative) + genitive of a noun (attribute) + nominative of an adjective + genitive of an adjective (attribute): skersinių ančių vaga – sulcus sinus transversiZAKJ24

⁵Compound terms

Type 6. Nominative of an adjective with the suffix *inis,é*(attribute) + nominative of an adjective with the suffix *inis,é*(attribute) + nominative of a noun (determinative) \equiv nominative of a noun (determinative) + nominative of an adjective(attribute) + nominative of an adjective(attribute):

Skridininė pūsmėnulinė įlanka – incisura trochlearis semilunarisZAKJ20; ausinis sąnarinis paviršius – facies articularis auricularisZAKJ22; šėivikaulinis sąnarinis paviršius – facies articularis fibularisZAKJ23; skiauterinės nugarinės angos – foramina sacralia dorsaliaZAKJ18

Type 7. Nominative of an adjective with the suffix *inis,é*(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + nominative of an adjective(attribute) + nominative of a comparative(attribute):

viršutinė smilkinio linija – lineatemporalis superiorZAKJ25; apatinė sprando linija – linea nuchae inferiorZAKJ59; viršutinė sprando linija – linea nuchae superiorZAKJ59; viršutinė smilkinio linija – linea temporalis inferiorZAKJ62; apatinė smilkinio linija – linea temporalis superiorZAKJ62; viršutinės sąnarinės ataugos – processus articularis superiorZAKJ17; apatinė sąnarinė atauga – processus articularis inferiorZAKJ17; viršutinė slankstelio įlanka – incisura vertebralis superiorZAKJ17; apatinė slankstelio įlanka – incisura vertebralis inferiorZAKJ17; viršutinė sąnarinė duobutė – fovea articularis superiorZAKJ17; apatinė sąnarinė duobutė – fovea articularis inferiorZAKJ17; mažoji sėdmeninė įlanka – incisura ischiadica minorZAKJ22; didžioji sėdmeninė įlanka – incisura ischiadica majorZAKJ22; apatinis sąnarinis paviršius – facies articularis inferiorZAKJ22; apatinė smilkinio linija – linea temporalis inferiorZAKJ25; apatinė nosies kriauklė – concha nasalis inferiorZAKJ26; viršutinis akiduobės plyšys – fissura orbitalis superiorZAKJ25; viršutinė sąnarinė duobutė – fovea articularis superiorZAKJ43; apatinis sąnarinis atauga – processus articularis inferiorZAKJ44; priekinis sąnarinis paviršius – facies articularis anteriorZAKJ45; užpakalinis sąnarinis paviršius – facies articularis posteriorZAKJ45

Type 8. Genitive of a pronominal adjective(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + nominative of an adjective(attribute) + genitive of a comparative(attribute):

mažojo gumburėlio skiauterė – crista tuberculi minorisZAKJ20; didžiojo gumburėlio skiauterė – crista tuberculi majorisZAKJ20

Type 9. Genitive of an adjective with the suffix *inis,é*(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + genitive of an adjective(attribute) + genitive of a comparative(attribute):

veidinio nervo kanalas – canalis nervi facialisZAKJ25

Type 10. Genitive of a noun(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + genitive of a noun(attribute) + genitive of a noun(attribute):

šonkaulio galvos sąnarys – articulatio capitis costaeZAKJ34

Type 11. Genitive of a noun(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + nominative of an adjective(attribute) + nominative of an adjective(attribute):

vidurio kryžkaulio skiauterė – crista sacralis medianaZAKJ18

Type 12. Genitive of a noun(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + genitive of a noun(attribute) + genitive of a noun(attribute) + genitive of a noun(attribute) :

šlaunikaulio galvos duobutė – fovea capitis ossis femorisZAKJ99; šlaunikaulio galvos duobutė – fovea capitis ossis femorisZAKJ99

Type 13. Nominative of an adjective with the suffix *inis,é*(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + nominative of a comparative(attribute) + genitive of a noun(attribute) + genitive of a noun(attribute): viršutinė gaktikaulio šaka – ramus superior ossis pubisZAKJ22; apatinė gaktikaulio šaka – ramus inferior ossis pubisZAKJ22

Type 14. Genitive of a noun(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) \neq nominative of a noun (determinative) + genitive of a noun(attribute) + genitive of a noun(attribute) + genitive of a comparative(attribute):

pečių lanko kaulai – ossa cinguli membri superiorisZAKJ19

According to the frequency of identity or difference between the components of terms, the terms in this group are grouped as follows:

<i>Lithuania</i>	<i>three-</i>	<i>word</i>	<i>terms</i>	Identit y/differ ence	<i>Latin</i>	<i>equivalents</i>
<i>n</i>						

Types	II subordinat atecomp onent	I subordinat atecomp onent	mainc ompon ent	≡ / ≠	maincom ponent	I subordinat e component	IIsubordinat atecomp onent		IIIsubo rdinate comp onent
Adj _{Ni} + P _{Ni} + S _N ↔ S _N + Adj _N + Adj _N N=1	adjectiv e(nomin ative)	participl e (nomina tive)	noun (nomin ative)	≠	noun (nominati ve)	adjective(n ominative)	adjective(nominativ e)		-
Adj _{Nn} + P _{Ni} + S _N ↔ S _N + Adj _N + Adj _N N=4	adjectiv e(nomin ative)	participl e (nomina tive)	noun (nomin ative)	≠	noun (nominati ve)	adjective(n ominative)	adjective(nominativ e)		-
Adj _{Nn} + P _{Ni} + S _N ↔ S _N + Adj _N + Adj _{NC} N=1	adjectiv e(nomin ative)	participl e (nomina tive)	noun (nomin ative)	≠	noun (nominati ve)	adjective(n ominative)	comparati ve (nominati ve)		-
Adj _{Nn} + S _G + S _N ↔ S _N + Adj _N + Adj _N N=21	adjectiv e(nomin ative)	noun(ge netive)	noun (nomin ative)	≠	noun (nominati ve)	adjective(n ominative)	adjective(nominativ e)		-
Adj _{Gn} + S _G + S _N ↔ S _N + S _G + Adj _G N=1	adjectiv e(genett ive)	noun(ge netive)	noun (nomin ative)	≡	noun (nominati ve)	noun(geneti ve)	adjective(genettive)		-
Adj _{Nn} + Adj _{Nn} + S _N ↔ S _N + Adj _N + Adj _N N=4	adjectiv e(nomin ative)	adjectiv e(nomin ative)	noun (nomin ative)	≡	noun (nominati ve)	adjective(n ominative)	adjective(nominativ e)		-
Adj _{Nn} + S _G + S _N ↔ S _N + Adj _N + Adj _{NC} N=27	adjectiv e(nomin ative)	noun(ge netive)	noun (nomin ative)	≠	noun (nominati ve)	adjective(n ominative)	comparati ve(nomin ative)		-
Adj _{Gi} + S _G + S _N ↔ S _N + Adj _N + Adj _{GC} N=2	adjectiv e(genett ive)	noun(ge netive)	noun (nomin ative)	≠	noun (nominati ve)	adjective(n ominative)	comparati ve(nomin ative)		-
Adj _{Gn} + S _G + S _N ↔ S _N + S _G + Adj _G N=1	adjectiv e(genett ive)	noun(ge netive)	noun (nomin ative)	≡	noun (nominati ve)	noun(geneti ve)	adjective(genettive)		-
S _G + S _G + S _N ↔ S _N + S _G + S _G N=1	noun(ge netive)	noun(ge netive)	noun (nomin ative)	≡	noun (nominati ve)	noun(geneti ve)	noun(gen etive)		-
S _G + S _G + S _N ↔ S _N + Adj _N + Adj _N	noun(ge netive)	noun(ge netive)	noun (nomin ative)	≠	noun (nominati ve)	adjective(n ominative)	adjective(nominativ e)		-

N=1									
$S_G + S_G + S_N \leftrightarrow S_N + S_G + S_G + S_G$ N=2	noun(genetive)	noun(genetive)	noun(nominative)	≠	noun(nominative)	noun(genetive)	noun(genetive)		noun(genetive)
$Adj_{Nn} + S_G + S_N \leftrightarrow S_N + Adj_{NC} + S_G + S_G$ N=2	adjective(nominative)	noun(genetive)	noun(nominative)	≠	noun(nominative)	comparative(nominative)	noun(genetive)		noun(genetive)
$S_G + S_G + S_N \leftrightarrow S_N + S_G + S_G + Adj_{GC}$ N=1	noun(genetive)	noun(genetive)	noun(nominative)	≠	noun(nominative)	noun(genetive)	noun(genetive)		comparative(genetive)

Table 2. Frequency of compound term components by grammatical configurations.

Latin equivalents of Lithuanian three-word terms are three-word, four-word terms. A total of 14 grammatical configurations of Lithuanian terms consisting of three components and Latin equivalents were found in the source. There are 10 grammatical configurations of identical Lithuanian three-word terms and their Latin equivalents.

Components of three-word Lithuanian terms can be divided as follows: the first secondary component is expressed by the agreed attribute in types 1,2,3,4,5,6; the agreed attribute is the second secondary component in types 1,2,3,6,7,8,9,13. Secondary components in Latin equivalents are distributed as follows: the first secondary component is the agreed attribute in types 1,2,3,4,6,7,8,11 (42,85% in Latin equivalents, respectively), the second secondary component is the agreed attribute in types 1,2,3,4,5,6,7,8,9,11 (28,57% in Latin equivalents, respectively). Lithuanian three-word terms that have their first secondary component expressed by the non-agreed attribute make up 57,14% and the ones that have their second secondary component expressed by the non-agreed attribute make up 35,71%.

3. LITHUANIAN FOUR-WORD TERMS AND THEIR LATIN EQUIVALENTS

It has already been mentioned that the majority of Lithuanian anatomical terms and their Latin equivalents consists of two words (respectively, 116 and 109) and three words (respectively, 69 and 72), which come in various configurations.

18 Lithuanian four-word terms and 23 Latin equivalents were found. This makes up 7,2% of the studied Lithuanian terms. This represents 9,75% of the studied Latin terms. 9 configurations of Lithuanian terms and Latin equivalents are distinguished.

The grammatical configurations of Lithuanian and Latin four-word terms by components can be grouped as follows: four-word Lithuanian terms ↔ four-word Latin equivalents, four-word Lithuanian terms ↔ three-word Latin equivalents.

Summarizing the analyzed examples, the following chart showing links between components in Lithuanian four-word terms and in their Latin equivalents can be drawn up:

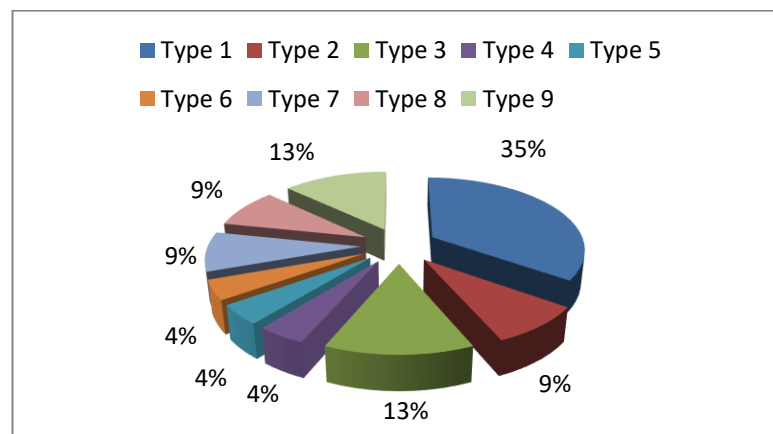


Fig. 3. Grammatical configurations of four-word anatomical terms by frequency

Types of configurations of four-word terms:

Type 1. Nominative of an adjective with the suffix *inis,é*(attribute) + nominative of an adjective with the suffix *inis,é*(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + nominative of an adjective(attribute) + nominative of a comparative(attribute) + nominative of a comparative (attribute): Adj_{Nn} + Adj_{Nn} + S_{Gs} + S_N ≠ S_N + Adj_N + Adj_{NC} + Adj_{NC};

priekinis viršutinis klubakaulio dyglys – spina iliaca anterior superiorZAKJ21; apatinė vidinis klubakaulio dyglys – spina iliaca anterior inferiorZAKJ2; užpakalinis viršutinis klubakaulio dyglys – spina iliaca posterior superiorZAKJ95; užpakalinis apatinis klubakaulio dyglys – spina iliaca posterior inferiorZAKJ95; priekinis apatinis klubakaulio dyglys – spina iliaca anterior inferiorZAKJ131; priekinis viršutinis klubakaulio dyglys – spina iliaca anterior superiorZAKJ21.

Type 2. Nominative of an adjective with the suffix *inis,é*(attribute) + genitive of an adjective with the suffix *inis,é*(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + genitive of a noun(attribute) + nominative of an adjective(attribute) + genitive of a comparative (attribute): Adj_{Nn} + Adj_{Gn} + S_G + S_N ↔ S_N + S_G + Adj_N + Adj_{GC};

viršutinė strėlinio ančio vaga – sulcus sinus sagittalis superiorisZAKJ24; apatinė strėlinio ančio vaga – sulcus sinus sagittalis inferiorisZAKJ25

Type 3. Nominative of an adjective with the suffix *inis,é* (attribute) + genitive of a noun (attribute) + genitive of a noun (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + genitive of a noun (attribute) + genitive of a noun (attribute) + nominative of a comparative (attribute): Adj_{Nn} + S_G + S_G + S_N ↔ S_N + S_G + S_G + Adj_{NC};

priekinis šėivikaulio galvos raištis – ligamentum capitis fabulae anteriusZAKJ137; viršutinis krūtinės laštos atvaras – apertura thoracis superiorZAKJ19; apatinis krūtinės laštos atvaras – apertura thoracis inferiorZAKJ19.

Type 4. Nominative of an adjective with the suffix *inis,é* (attribute) + genitive of a noun (attribute) + genitive of a noun (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + genitive of a noun (attribute) + genitive of a noun (attribute) + nominative of a comparative (attribute): Adj_{Nn} + S_G + S_G + S_N ↔ S_N + S_G + S_G + Adj_N;

spindulinis šonkaulio galvos raištis – ligamentumcapitiscostae radiatum³⁴

Type 5. Genitive of an adjective (attribute) + genitive of a noun (attribute) + genitive of a noun (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + genitive of a noun (attribute) + genitive of an adjective (attribute) + genitive of a noun (attribute): Adj_G + S_G + S_G + S_N ↔ S_N + S_G + Adj_G + S_G;

dvigalvio žasto raumens saugyslė – tendo musculi bicipitis brachiiZAKJ121

Type 6. Nominative of a pronominal of an adjective (attribute) + nominative of an adjective with the suffix *inis,é*(attribute) + genitive of a noun (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + nominative of an adjective (attribute) + nominative of an adjective (attribute) + nominative of an adjective (attribute):

Adj_{Ni} + Adj_{Nn} + S_{Gs} + S_N ↔ S_N + Adj_N + Adj_N + Adj_N;

giliaji skersiniai delnakaulių raiščiai – ligamentameta carpea transversa profundaZAKJ125

Type 7. Genitive of an adjective (attribute) + genitive of a noun(attribute) + genitive of a noun (attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + genitive of a noun (attribute) + genitive of an adjective (attribute) + genitive of a noun (attribute): Adj_G + S_G + S_G + S_N ↔ S_N + S_G + Adj_G + S_G;

dvigalvio šlaunies raumens saugyslė – tendo musculi bicipitis femorisZAKJ135; dvigalvio žasto raumens saugyslė – tendo musculi bicipatis brachiiZAKJ121

Type 8. Genitive of a noun (attribute) + genitive of a noun(attribute) + nominative of an adjective with the suffix *inis,é*(attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + nominative of an adjective (attribute) + genitive of a noun(attribute) + genitive of a noun (attribute): S_G + S_G + Adj_N + S_N ↔ S_N + Adj_N + S_G + S_G;

šonkaulio galvos sąnarinis paviršius – facies articularis capitis costaeZAKJ116; šonkaulio gumburėlio sąnarinis paviršius – facies articularis tuberculi costaeZAKJ53

Type 9. Nominative of an adjective with the suffix *inis,é*(attribute) + nominative of an adjective with the suffix *inis,é*(attribute) + genitive of a noun(attribute) + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + nominative of an adjective (combined) (attribute) + nominative of an adjective(attribute): Adj_{Nn} + Adj_{Nn} + S_G + S_N ↔ S_N + Adj_{Ns} + Adj_N

priekinis krūtinkaulinis raktikaulio raištis – ligamentum sterno clavicolare anteriusZAKJ118; tolimasis stipinkaulinis alkūnkaulio sąnarys – articulatio radicularis distalisZAKJ127

First secondary components of Lithuanian four-word terms are non-agreed attributes in eight grammatical configurations, which accounts for 88,89% of all configurations. Second secondary components are non-agreed attributes in 5 configurations, third secondary components expressed by non-agreed attributes occur in only one configuration. First secondary components in Latin equivalents are non-agreed attributes occurring in five configurations; second secondary components are non-agreed attributes occurring in only three configurations, third secondary components are non-agreed attributes occurring also in three configurations.

According to the frequency of configurations, it can be stated that term pairs of type 5 are most productive. There are fewer pairs of terms of types 3 and 9: 13% in each.

4. LITHUANIAN FIVE-WORD TERMS AND THEIR LATIN EQUIVALENTS

Only 1 pair of Lithuanian five-word terms and their Latin five-word equivalents was found.

Genitive of an adjective (attribute) + genitive of a noun (attribute) + genitive of a participle (attribute) + genitive of a noun + nominative of a noun (determinative) ≠ nominative of a noun (determinative) + genitive of a noun (attribute) + genitive of an adjective (attribute) + genitive of a noun (attribute) + genitive of an adjective (attribute):

$Adj_G + S_G + P_G + S_G + S_N \leftrightarrow S_N + S_G + Adj_G + S_G + Adj_G$;

paviršinio pirštų lenkiamojo raumens sausgyslė – tendo musculi flexoris digitorum superficialis ZAKJ125.

Conclusions

Over the centuries, the development of medical terminology has been based on the process of creating parallel national and international terms, known all over the world and well-defined. In the field of medical, biological and pharmaceutical sciences, such a reliable tool of communication was Latin and Greek. Latin enables us to precisely define and differentiate between concepts. The benefits flowing from knowledge of Latin are so significant that it seems impossible to imagine a physician, pharmacist or physiotherapist without even elementary knowledge of this language. Most terms used in biology and medicine are derived from classical languages; i.e., Latin and Greek. It may be concluded that the modern language of medicine basically represents the ancient Greek language transcribed into Latin (Jóskowska, Grabarczyk, 2013).

Lithuanian one-word anatomical terms make up only a small part of anatomical terms. They refer to the concepts of the main parts and organs of the human body. In terms of origin, Lithuanian one-word anatomical terms found in the source have formed on the lexicon of their own language, while 90% of Latin one-word anatomical terms are composed on the basis of Latin.

Lithuanian and Latin two-word and three-word anatomical terms are used quite often: 116 Lithuanian two-word and three-word terms and 109 Latin ones were found in the source. This accounts for 42,96% of the sample of Lithuanian terms and 40,37% of the sample of Latin terms. Two-thirds of Lithuanian two-word terms and almost two-thirds of Latin two-word terms consist of terms linked by the syntactic relations of the agreed attribute. The majority of Lithuanian two-word terms are built by *the nominative of adjective with suffixes -inis, -inė + the nominative of noun*; while of Latin ones, by *the nominative of noun + the nominative of adjective*. In Lithuanian anatomical terms, the species attribute usually precedes the determinative. Latin compound terms are characterised by the inverted order of components in compound terms. The material studied has shown that Lithuanian and Latin two-word terms with participles, numerals and pronouns as components are not abundant. Secondary components of more than a third of Lithuanian and Latin three-word terms are agreed attributes; of a fifth, the agreed and non-agreed attribute. The majority of Lithuanian four-word terms, 18 of which were found in the sources, and Latin four-word terms, 23 of which were found in the sources, has different grammatical configurations. One pair of Lithuanian five-word terms and their Latin equivalents has been found.

Resources

ZAKJ – Zachovajev, P., Karpavičienė, A., Seibutienė, A. (2020). Žmogaus anatomija. Kaulai. Jungtys. Lietuvos sporto universitetas.

MTŽ – Astrauskas V. et al. (1980). Medicinos terminų žodynas. Vilnius: Mokslas.

References

Banay, G.L. (1948). An Introduction to Medical Terminology I. Greek and Latin Derivations. Worcester State Hospital, Worcester, Mass.

Bujalková, M. (2018). The Coexistence of Latin and English in Medical Terminology. *International Journal of Humanities Social Sciences and Education (IJHSSE)* Volume 5, Issue 6.

Danilenko, V, P. (1986). Актуальные направления лингвистического исследования русской терминологии. *Современные проблемы русской терминологии*.

Kondratjev, D. K (2005). *Latin and Fundamentals of Medical Terminology*. Grodno VMU.

Indrašius, N. et al. Mokslinė terminologija – ne atskirų asmenų reikalas. *Sveikatos apsauga*, no 12.

Jóskowska, K., Grabarczyk, Z.(2013). *Department of Applied Linguistics, Nicolaus Copernicus University, Collegium Medicum in Bydgoszcz, Poland Greek and Latin in medical terminology*.

Litevkienė, N.(2006). *Lithuanian and Latin Composite Anatomical Terms*. Doctoral dissertation. Kaunas: VDU.

Marecková, E.Šimon, F., Cervený, L. (2002). Latin as the language of medical terminology: some remarks on its role and prospects. *Swiss medical weekly: official journal of the Swiss Society of Infectious Diseases, the Swiss Society of Internal Medicine, the Swiss Society of Pneumology*.

Rosinas, A. (1999). *Pranas Skardžius – mokslininkas ir bendrinės kalbos ugdytojas. Pranas Skardžius – bendrinės kalbos teoretikas ir ugdytojas*. Vilnius: Nacionalinių tyrimų centro I-kla,

Zachovajev, P., Karpavičienė, A., Seibutienė, A. (2020). *Žmogaus anatomija. Kaulai*. Jungtys. Lietuvos sporto universitetas.

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