



***Департамент за езиково и
специализирано обучение***

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***Department of Languages and
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MEDICAL UNIVERSITY - PLOVDIV
FACULTY OF PHARMACY

**SYLLABUS FOR LATIN LANGUAGE AND
PHARMACEUTICAL TERMINOLOGY**

Approved by the Section Meeting on `11 of June, 2020
Proceedings № 81 / 11.06. 2020



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**MEDICAL UNIVERSITY
DEPARTMENT OF LANGUAGES AND SPECIALIZED TRAINING
FOREIGN LANGUAGES SECTION**

Name of discipline:

Latin Language and Pharmaceutical Terminology.

Type of discipline:

Compulsory.

Education level:

Master of Pharmacy /MPharm/

Forms of teaching:

Seminars, homework assignments.

Duration of the course:

Two semesters.

Duration in academic hours:

60 academic hours of seminars.

Teaching aids:

Interactive white board, language laboratory, electronic learning platform.

Forms of assessment:

Homework assignments, tests (current and semester tests), oral examinations, final written exam.

Calculation of the results:

1. **Assessment of the final written exam** – 50 % of the final assessment;
2. Continuous assessment and individual assignments; - average of 2 written examinations (tests) for year (one for each semester) form together 40 % of the assessment (20 % the first semester test and 20 % the second semester test);
3. Assessment of oral examinations at seminars, ongoing inspections and presentation – complementary to the final assessment – 10 %.



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Aspects in calculating the results:

Testing, active participation at seminars, individual assignments.

Annual examination:

Yes.

State Examination:

None.

Lecturer: Master's and/or PhD degree

Department:

Foreign Languages Section.

ANNOTATION

The subject *Latin Language and Pharmaceutical Terminology*, which is part of the pharmacy students' program in the Medical University of Plovdiv, introduces students to specialized terminology. It provides the necessary knowledge of Latin grammar, as well as terms in the field of pharmacology, pharmacognosy, pharmaceutical botany, chemistry, technology of drug products, etc. The subject includes terms from anatomy, clinic, pathology as a stand-alone use and in the context of medicinal product names. The course examines the legal framework for prescribing drugs as a general content and with an emphasis on parts of the prescription in Latin. Students get acquainted with the current content of the European Pharmacopoeia.

Latin and terminology training builds in students the ability to translate prescriptions from Latin into English and vice versa, to know the Latin names of plants according to their scientific classification in botany, to use correctly the names of medicinal products, to



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understand the names of chemical elements and compounds, to learn the term elements of Greek origin so that they can independently translate compound terms and construct them.

BASIC TASKS OF THE CURRICULUM

- Acquisition of knowledge concerning nouns, adjectives and participles in Latin and their use in terminology.
- Acquisition of knowledge concerning the verb in Latin and the use of verbal forms in prescriptions.
- Acquisition of terms in the field of anatomy, pharmacology, pharmacognosy, pharmaceutical botany and pathology.
- Acquisition of skills in translating terminological word combinations and short sentences from Latin into English and *vice versa*.
- Knowledge of the word formation elements of Greek origin, acquisition of skills in constructing compound terms based on them, as well as explaining them.
- Acquisition of skills in reading and writing prescriptions.
- Acquisition of skills in understanding drug names.

EXPECTED RESULTS

The course in Latin Language and Pharmaceutical Terminology provides the students with a grammatical and lexical minimum helping them later to study specialized disciplines in the senior years of their studies, as well as use fluently the terms associated with their special subject. At the end of the course of studies they should have acquired the following skills:

- knowledge of the basics of Latin grammar, translation and construction of terms.
- knowledge of the lexis needed in studying pharmacology, pharmacognosy, pharmaceutical botany, technology of drug products, etc.
- knowledge of the requirements in writing prescriptions; parts of the prescription.
- reading and understanding prescriptions.
- writing prescriptions.



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- knowledge of the basics of European Pharmacopoeia and the current Bulgarian legislation in the field of medications.
- knowledge of the Latin and Ancient Greek prefixes, suffixes and roots.
- independent construction of compound terms based on Latin and Ancient Greek elements of medical terms.

CURRICULUM

Discipline	Final written exam	Academic hours			Acad. hrs in years and semesters		Credits
		Semester	Total of	Lectures	Seminars	I	
Latin Language and Pharmaceutical Terminology	II	60	-	60	30	30	5.1

SEMINAR CURRICULUM - I-st year of studies, I-st semester

№	TOPIC	Acad. hrs	DATE
1.	Introduction to the course in Latin Language and Pharmaceutical Terminology. History of pharmacy and pharmaceutical terminology.	2 hrs	



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	Alphabet and pronunciation.		
2.	Summary of the phonetic, orthographic and orthoepic peculiarities of the Latin language. Use of terms of ancient Greek origin in Latin.	2 hrs.	
3.	The verb. Indicative mood, active and passive voice – <i>Indicativus praesentis activi et passivi</i> of the verbs of the four conjugations.	2 hrs.	
4.	Imperative mood, active voice – <i>Imperativus praesentis activi</i> . Use of verbs in prescriptions. Use of adverbs in prescriptions.	2 hrs.	
5.	Nouns and adjectives. Categories: gender, number, use of cases, case endings. Declension of nouns. First Latin declension. First Greek declension. Use of prepositions with <i>Accusative</i> and <i>Ablative</i> .	2 hrs.	
6.	First declension plants names. First declension pharmacognostic terms. Terms from the ancient Greek language in pharmaceutical and medical terminology in Latin. Word formation – elements of pharmaceutical and medical terms of feminine gender of the first declension.	2 hrs.	
7.	Second Latin declension of nouns.	2 hrs.	



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	Second Greek declension of nouns. Names of drugs, plants, oxides of II declension. Word formation – elements of pharmaceutical and medical terms of the second declension.		
8.	First and second declension adjectives. The past participle. Future passive participle. Agreed and non-agreed attribute. Names of groups of drugs according to their action.	2 hrs.	
9.	Written examination of verbs, nouns and adjectives of the first and second declension, terms of ancient Greek origin.	2 hrs.	
10.	Third declension nouns – general characteristics. Third consonant declension nouns. Nouns of Greek origin (third Greek declension). Word elements of Greek origin corresponding to third consonant declension nouns. Adjectives for location formed with suffixes -ior и -ius. Names of salts.	2 hrs.	
11.	Exercises on third consonant declension nouns and adjectives.	2 hrs.	
12.	Third vocal declension nouns. Nouns of Greek origin (third Greek declension).	2 hrs.	
13.	Third mixed declension nouns. Word elements of Greek origin corresponding to third mixed declension nouns. Botanical terms of third declension.	2 hrs.	



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14.	Third declension adjectives. Present participle – formation and use in pharmaceutical and medical terminology. Use of the present participle in the names of the groups of drugs and in the species names of the plants. Comparison of adjectives – formation and use.	2 hrs.	
15.	Revision of the first, second and third declension nouns and adjectives.	2 hrs.	

TOTAL: 30 hrs.

SEMINAR CURRICULUM – I-st year of studies, II-nd semester

№	TOPIC	Acad. hrs	DATE
1.	Revision of verb, nouns, adjectives, participles. Comparison of adjectives – formation and use. Use of comparative degrees in plant species names, pharmacology and clinic.	2 hrs	
2.	Fourth declension nouns. Word elements of Greek origin corresponding to fourth declension nouns.	2 hrs.	
3.	Fifth declension nouns. Word elements of Greek origin corresponding to fifth declension nouns. Summary of declensions.	2 hrs.	
4.	Numerals. Latin and Greek word elements with meaning numerals and their use in the names of plants and chemical compounds.	2 hrs.	



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5.	Written examination (test) of the third declension nouns and adjectives.	2 hrs.	
6.	Prescription writing – general information. Definition of prescription. Prescription parts. Current legislation in the Republic of Bulgaria regarding drug products and the methods for their prescription. European Pharmacopoeia.	2 hrs.	
7.	Names of drugs. Definition of a drug product. Types and names of drug products. Classification of drugs into groups according to their mode of action.	2 hrs.	
8.	Chemical nomenclature (chemical elements and compounds). Prescription examples.	2 hrs.	
9.	Botanical nomenclature. Plant systematics. Scientific names of plants. Pharmacognosy terms. Names of plants and herbal products in the European Pharmacopoeia. Prescription examples.	2 hrs.	
10.	Solid dosage forms – I. Powders, tablets, dragées. Solid dosage forms - II. Capsules, granules, pilules, mixtures of dried plant materials. Prescription examples.	2 hrs.	



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11.	Liquid dosage forms for peroral and external administration. Solution, mixture, emulsion, suspension. Liquid dosage forms obtained as aqueous infusions of dried plant materials. Prescription examples.	2 hrs.	
12.	Injectable liquid dosage forms. Preparations for parenteral administration Prescription examples.	2 hrs.	
13.	Semi-solid dosage forms. Inhalational dosage forms. Prescription examples.	2 hrs.	
14.	Revision of verbs, nouns, adjectives, participles as grammatical features. Revision of prescription, names of drugs, botany and pharmacognosy terms. Revision of Greek word element and terms of Greek origin.	2 hrs.	
15.	Preparation for the final annual exam. Types of exercises – explanations of the tasks and practical examples.	2 hrs	

TOTAL: 30 hrs.

TOPICS OF SEMINARS

SEMINAR № 1 – 2 hrs

Introduction into the course in Latin Language and Pharmaceutical Terminology. History of pharmaceutical and medicine terminology. Alphabet and pronunciation.

1. Latin Language and Pharmacy.
2. History and development of pharmaceutical and medical terminology.



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3. Alphabet and pronunciation.

SEMINAR № 2 – 2 hrs

Summary of the phonetic, orthographic and orthoepic peculiarities of the Latin language.

1. Classification of sounds:
 - a) vowels and diphthongs;
 - b) consonants;
 - c) letter combinations and digraphs.
2. Vowel quantity and accent.
3. Exercises.

SEMINAR № 3 – 2 hrs

The verb. Indicative mood, active and passive voice – Indicativus praesentis activi et passivi of the verbs from the four conjugations.

1. Grammatical categories
2. Personal endings of verbs.
3. Exercises. Translation of verbs from Latin into English and vice versa. Conjugation of verbs. Formation of forms according to the person and the number of the verb.

SEMINAR № 4 – 2 hrs

Imperative mood, active voice – Imperativus praesentis activi. Use of verbs in prescription. Use of adverbs in prescription.

1. Grammatical categories
2. Personal verb-endings.
3. Exercises. Translation of verbs from Latin into English and from English into Latin. Conjugation of verbs. Formation of forms according to the person and the number of the verb.

SEMINAR № 5 – 2 hrs

Nouns. Categories of nouns: gender, number, case. Use of cases, case endings. Declension of nouns. First Latin declension of nouns. First Greek declension of nouns. Use of prepositions with Accusative and Ablative.



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1. Definition and endings.
2. Suffixes of the first declension.
3. Prepositions.
4. Translation exercises.

Exercises for translation from Latin to English and from English to Latin. Exercises on the declension of nouns, the formation of forms for different cases, the determination of the case and the number of nouns.

SEMINAR № 6 – 2 hrs

Terms of the First declension in botany and pharmacognosy. Terms from the ancient Greek language in pharmaceutical and medical terminology in Latin. Word formation. Transcription from ancient Greek into Latin. Terms from the ancient Greek language corresponding to the First Latin declension nouns.

1. Scientific names of plants in botany. Binominal principle.
2. Translation exercises of botany and pharmacognosy terms.
3. Exercises on compound terms of ancient Greek origin: explanation of the content of terms, construction of compound terms.

SEMINAR № 7 – 2 hrs

Second Latin declension of nouns. Second Greek declension of nouns.
Word formation –Greek elements corresponding to the second Latin declension nouns.

1. Definition and endings.
2. Second declension suffixes.
3. Formation of compound terms from ancient Greek corresponding to the second Latin declension nouns.
4. Translation of names of drugs, plants, oxides, etc. from Latin to English and from English to Latin.

SEMINAR № 8 – 2 hrs

First and second declension adjectives. Past participle. Future passive participle. Agreed and non-agreed attribute. Names of drugs according to their action.

1. Definition and case endings.
2. First and second declension suffixes of adjectives.



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3. Particularities and use of agreed and non-agreed attribute. Translation exercises on agreed and non-agreed attribute.
4. Translation exercises on past and future passive participle.
5. Use of adjectives in the names of groups of drugs. Translation exercises.

SEMINAR № 9 – 2 hrs

Written examination (test) of the verb, nouns and adjectives of the first and second declension, terms of ancient Greek origin.

SEMINAR № 10 – 2 hrs

Third declension nouns – general characteristic and particularities by groups. Third consonant declension nouns. Nouns of ancient Greek origin (III Greek declension). Location adjectives, formed with suffixes -ior and -ius. Names of salts of third consonant declension formed with suffixes -as, -atis; -is, itis.

1. Definition and case endings.
2. Stems of third consonant declension nouns. Exercises to determine the stem, to form Nominative plural or other case. Writing in Latin the complete declension of third consonant declension nouns. Agreement of third consonant declension nouns with first and second declension adjectives.
3. Use of the names of the salts of the third consonant declension, formed with the suffixes -as, -atis; -is, itis in prescriptions. Translation exercises.
4. Translation exercises of location adjectives, formed with suffixes -ior and -ius.

SEMINAR № 11 – 2 hrs

Exercises on third consonant declension nouns and adjectives.

SEMINAR № 12 – 2 hrs

Third vocal declension nouns. Nouns of ancient Greek origin (III Greek declension).

1. Definition and case endings.
2. Translation exercises of word combinations with feminine and neuter nouns of third vocal declension.
3. Word formation. Translation exercises of Greek terms.



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SEMINAR № 13 – 2 hrs

Third mixed declension nouns. Terms of ancient Greek language corresponding to third mixed declension nouns in Latin.

1. Definition and case endings.
2. Suffixes of third mixed declension.
3. Translation exercises of word combinations with masculine, feminine and neuter nouns of third mixed declension.
4. Translation exercises of Greek terms corresponding to third mixed declension nouns.
5. Exercises on botany terms of third declension.

SEMINAR № 14 – 2 hrs

Third declension adjectives. Present Participle.

Use of present participle in the names of group of drugs and in species names of plants.

1. Definition, case endings and suffixes of third declension adjectives.
2. Translation exercises of word combinations including third declension adjectives.
3. Use of third declension adjectives in species names of plants – meaning according to the suffixes they are formed with. Exercises on species names of plants.
4. Exercises on formation of the Present Participle.
5. Translation exercises on names of group of drugs including the Present Participle.

SEMINAR № 15 – 2 hrs

Revision of first, second and third declension nouns and adjectives. Exercises.

SEMINAR № 16 – 2 hrs

Revision of verb, nouns, adjectives, participles.

Degrees of comparison of adjectives.

Use of degrees of comparison in species names of plants, in pharmacology and clinic.

1. Translation exercises of word combinations.
2. Suffixes forming comparatives and superlatives.
3. Irregular degrees of comparison.
4. Degrees formed by prepositions.
5. Exercises on degrees of comparison in species names of plants.



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6. Translation exercises on comparatives and superlatives in pharmacology and clinic.

SEMINAR № 17 – 2 hrs

Fourth declension nouns. Terms of ancient Greek language corresponding to fourth declension nouns in Latin.

1. Definition and case endings of fourth declension nouns.
2. Translation exercises on names of drugs.
3. Fourth declension plant names. Exercises on their use in prescriptions.
4. Exercises on explanation and word formation of Greek terms corresponding to fourth declension nouns.

SEMINAR № 18 – 2 hrs

Fifth declension nouns. Terms of ancient Greek language corresponding to fifth declension nouns in Latin. Revision of declensions..

1. Definition and endings.
2. Use of the noun *species* in singular and plural – differences in meaning.
3. Exercises on explanation and word formation of Greek terms corresponding to fifth declension nouns.

SEMINAR № 19 – 2 hrs

Numerals.

1. Cardinal numerals.
2. Ordinal numerals.
3. Numeral adverbs.
4. Latin and Greek prefixes with numeral meaning and their use in terminology.
5. Exercises on numerals and prefixes with numeral meaning.

SEMINAR № 20 – 2 hrs

Written examination (test) on first, second and third declension nouns, adjectives, participles.

SEMINAR № 21 – 2 hrs



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Prescription writing – general information. Definition of prescription. Parts of prescription. Types of prescriptions. Current legislation in the Republic of Bulgaria regarding medicinal products and the methods for their prescription. European pharmacopoeia.

1. Content of the parts of prescription.
2. Sentences and expressions in Latin used in prescriptions.
(with abbreviations and as a whole sentence).
3. Characteristics of magistral formula and officinal formula.
4. Questions about prescription.
5. Translation exercises of prescriptions from English into Latin.
6. Translation exercises of prescription expressions from Latin into English and vice versa.

SEMINAR № 22 – 2 hrs

Names of drugs. Definition for drug product. Types of names of the drug products. Classification of drugs into groups according to their mode of action.

1. Questions about drug names and their legal regulation.
2. Translation exercises on pharmacopoeial names from Latin into English and vice versa.
3. Translation exercises on drug names, sample prescriptions.

SEMINAR № 23 – 2 hrs

Chemical nomenclature (names of chemical elements and compounds).

Acids, oxides, salts. Examples in prescriptions.

1. Translation exercises on names of chemical elements and compounds.
2. Exercises for transformation of the names of chemical elements and compounds in prescription.
3. Translation exercises on prescriptions.

SEMINAR № 24 – 2 hrs

Botanical nomenclature. Plant systematics. Generic (genus) name. Specific name (epithet).

Pharmacognosy terms. Names of plants and herbal products in the European Pharmacopoeia.

1. Names of plants in scientific classification.
2. Meanings of Latin names of plants.
3. Names of plants and herbal products in the European Pharmacopoeia. Word order rules. Translation exercises.



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SEMINAR № 25 – 2 hrs

Solid dosage forms – I. Powders, tablets, dragées (sugar-coated pills/capsules).

II. Capsules, granules, pilules, mixtures. Prescription examples.

1. Names of solid dosage forms in Latin.
2. Translation exercises of prescription examples.

SEMINAR № 26 – 2 hrs

Liquid dosage forms for peroral and external administration. Solution, mixture, emulsion, suspension. Prescription examples.

Liquid dosage forms obtained as aqueous infusions of dried plant materials. Prescription examples.

1. Names of liquid dosage forms for peroral and external administration in Latin.
2. Translation exercises of prescription examples.

SEMINAR № 27 – 2 hrs

Injectable liquid dosage forms. Preparations for parenteral administration.

Prescription examples.

1. Names of injectable liquid dosage forms and of preparations for parenteral administration in Latin.
2. Translation exercises of prescription examples.

SEMINAR № 28 – 2 hrs

Semi-solid dosage forms. Inhalational dosage forms. Prescription examples.

1. Names of semi-solid dosage forms in Latin.
2. Translation exercises of prescription examples.

SEMINAR № 29 – 2 hrs

Revision of verbs, nouns and adjectives, participles as grammatical features.

Revision of prescription, of names of drugs, of botany and pharmacognosy terms.

Revision of terms of Greek origin.



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SEMINAR № 30 – 2 hrs

Training for the final written exam.

Types of exercises – explanations of the tasks and practice.

Sources for self-preparation

1. Repetitorium Latinum, Y. Oprova, Plovdiv, ;ax book, 2018.
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2. Bennet, Reginald R. Medical and Pharmaceutical Latin for Students of Medicine and Pharmacy. London, 194.
2. Caroli Linnaei Species plantarum.
<http://www.gutenberg.org/files/20771/20771-h/20771-h.htm>
3. English Latin dictionary online
<http://en.glosbe.com/en/la/>
4. Howe, George, Ph. D. Latin for Pharmasists.
https://archive.org/stream/latinforpharmaci00howeuoft/latinforpharmaci00howeuoft_djvu.txt
5. Muldoon, Hugh C. Pn.G. Lessons in Pharmaceutical Latin.
<https://archive.org/details/lessonsinpharmac00mulduoft>
6. Nova terminologia medica polyglotta et eponymica, P. G. Arnaudova, Sofia, 2003.

Summary of Latin Language and Pharmaceutical Terminology

1. Verb. Indicativus praesentis activi et passive – Present Indicative, active and passive.
Imperativus praesentis active – Present Imperative, active.
2. First declension nouns.
3. Second declension nouns.
4. First and second declension adjectives.
5. Perfect passive participle.
6. Future passive participle.
7. Third declension nouns. Consonant stems.
8. Third declension nouns. I-stems.
9. Third declension nouns. Mixed stems.
10. Third vocal declension adjectives.
11. Present active participle.
12. Degrees of comparison of the adjectives.



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13. Declension of the nouns of ancient Greek origin in Latin.
14. Fourth declension nouns.
15. Fifth declension nouns.
16. Numerals.
17. Prepositions.
18. Prescription writing. Parts of the prescription. Pharmacopoeia.
19. Chemical nomenclature (chemical elements and compounds)
20. Botanical nomenclature.
21. Pharmacognosy terms.
22. Terms of ancient Greek origin in Latin and pharmaceutical and medical terminology.

TESTS FOR SELF-PREPARATION

Test on Present Indicative and Imperative

Name _____ Group _____ Fac.№ _____ Date _____

1. Translate into English:

- a) Additur lente. _____ 2
Praeparantur cito. _____ 2
Sanant caute. _____ 2
Dividimus exacte. _____ 2
- б) Da tales doses! _____ 3
Signate! _____ 1
Verte! _____ 1
Praescribite! _____ 1

2. Translate into Latin:

- a) They boil and percolate. _____ 3
It is visible. _____ 2
It is given and it is signed. _____ 3
- б) Mix to become pilula! _____ 3
Divide in equal parts! _____ 4
Sterilize! _____ 1

Total score: 30

Achieved:

Assessment:

Test on first declension nouns

Name _____ Group _____ Fac.№ _____ Date _____



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1. Translate into English:

Capsulae amylaceae _____	4T
Valerianae tinctura _____	3T
Fractura scapulae _____	3T
Da pilulas in scatula _____	6T

2. Translate into Latin:

Coated tablets _____	4T
Water of bitter almonds _____	7T
Raceme of lime _____	3T
Mix to become mixture _____	3T

3. Complete the endings and translate into English:

Da scatul___ N 1 _____	6T
Da in capsul___ _____	6T
_____	8T
Da ad chart___ cerat _____	7T

Total score: 60

Achieved:

Assessment:

Final test of Latin language and terminology for pharmacy students

Name	Fac. N	Group	Date
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1. Translate from Latin into English the following examples: 20 p.

Praepara decoctum foliorum Uvae ursi!

(Uva ursi – bearberry)

Nomina plantarum.

Praeparatio remediorum.

Amygdali seminum oleum.

(Amygdalus, i m – almond)

Da in capsulis gelatinosis!

Operatio pulmonis sinistri.

Syrupi simplices.



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2. Translate from English into Latin the following examples: 35 p.

Premature whiteness of hair.
Prolapse of the right kidney.
Laxative medications.
Operation of penetrating ulcer.
State after a severe disease.
Thrombosis of cerebral arteries.
Inoperable carcinoma.
Recent wounds of the ears.
Hemorrhage because of fracture.

3. Transform the phrases in the brackets into the correct forms required by preposition: 15 p.

ad (usus externus)
sine (dolor acutus)
status post (ruptura venae)
intra (musculus femoris)
propter (trauma leve)

4. Explain in English the following compound terms: 10 p.

pharmacologia
phytoterapia
osteomalacia
bronchitis
otoscopia

5. Form a compound term that means: 10 p.

hemorrhage of the eye
operative fixation of a kidney
muscle disease
heart pain
formation of calculi in the kidneys

Total: 90 p.
Achieved:
Mark: