**Kharkiv National Medical University  
Scientific and educational institute of postgraduate education KhNMU**

**Department of Surgery №1**

**level of higher education training 22 "Health"**

**Specialty 222 "Medicine"**

**Specialization "Master of Medicine"**

**Educational-professional program Medicine of the second (master's) level of higher education**

**The syllabus of the discipline  
Selective discipline  
«Plastic and reconstructive surgery»**

The syllabus of the discipline was approved Approved by the methodical commission of KhNMU   
at the meeting on problems of professional training

Department of Surgery №1 surgical profile

Protocol from Protocol from

«28» August 2020 № 1 « » 2020 №

*Head of department* Head of methodical commission of KhNMU on

problems of professional training

surgical profile

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **prof. V.V.Boyko** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **prof. V.O. Siplyvyi**

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« » 2020 « » 2020

**Kharkiv—2020**

**The drafters:** V. V. Boyko, V. V. Makarov,L. G. Tarasenko **Educators:** V.V. Makarov

**Information about educator:**

V.V. Makarov – doctor of medical science, professor, professor of department of Surgery №1, specialization «Surgery», «Thoracic Surgery».

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**Face-to-face consultation:** by prior arrangement;

**Online consultation:** Moodle system, Zoom system by schelude;

**Location:** classes are held at the GA «Institue of General and Emergency surgery in the name of V. T. Zaycev National Academy of Medical Sciences of Ukraine», online trainings – in ZOOM or MOODLE systems.   
  
**Discipline information**

|  |  |  |
| --- | --- | --- |
| Indicators names | Branch of knowledge, field of training, educational and qualification level | Educational profile |
| Daytime form |
| Number of credits — 3 | Second specialist education programme(Master’s Degree), higher education 22 “Health” | Selective |
| The total hours — 90 | Specialization “Surgery” | **Year of training** |
| 6 |
| **Semester** |
|  |
| **Lectures** |
| Hours for full-time(or evening) study:  auditors — 50  self-employment of a student — 40 | Educational qualification level:  Master | 0 hours |
| **Practical exercises, seminard** |
| 50 hours |
| **Laboratory sessions** |
| 0 hours |
| **Self-employment** |
| 40 hours |
| **Individual assignments** |
| Type of exam:  test |

Educational program of higher education of Ukraine, the second (master’s) level, educational qualification, assigned - technical branch of knowledge - 22 “Health care”, speciality 228 “Pediatrics” was made on the basis of the Law of Ukraine “On Higher Education” and the decision of the Cabinet of Ministers of Ukraine from 01.02.2017. 53 “On the introduction of changes to the Resolution of the Cabinet of Ministers of Ukraine from 29.04.2015 in.. 266”, according to the Order of the MES of Ukraine from 01.06.2016. 600 «On approval and implementation of Methodological  
Recommendations on Development of Standards of Higher Education».  
 The programme of the course defines the prerequisites for access to training, orientation and the main focus of the programme, the amount of ETCS credits required for a master’s degree, and the list of general and specialized (professional) courses сompetences, normative and variable content of professional training, defined in terms of academic results and requirements for quality control of higher education.  
 The Department accepts qualified students of any race, national or ethnic origin, age, special needs, religion, sexual orientation, gender, veteran status or marital status to all rights, Privileges, programs and activities granted to university students.  
  
Link to video instruction of discipline (if available), etc.   
Moodle discipline page (if available)

**Description of the academic discipline(annotation)** Course «Plastic and reconstructive surgery». Special attention is paid to skin structure, sutures and suture performance, clinical manifestations, diagnostic features and methods of aesthetic and reconstructive correction of surgical defects of forehead, eyes, nose, mammary glands and abdomen.  
 Practical exercises envisage curation of surgery patients in GA «Institute of General and Emergency Surgery named V.T. Zaitsev National Academy of Medical Sciences of Ukraine », according to the schedule of classes, as well as during individual work with cases on individual topics.  
 The teaching is based on the principles of evidence-based medicine, using the existing standards (guidelines) of the world professional societies.  
The course covers the main practical and theoretical aspects of the future surgeon, the family doctor.

*Prerequisites.* The study of the discipline involves the preliminary study of medical biology, normal and pathological anatomy, normal and pathological physiology, biochemistry, microbiology, the progression of surgical diseases, pharmacology and medical formulations, and the principles of evidence-based medicine, as well as practical surgical skills. And their work in clinical and stationary conditions.  
 Postrequisites. The basic provisions of the academic discipline are to be applied in the study of related subjects for a period of 6 years, as a basis for preparation for the USQE licensing examination, preparation for study in institutions of higher education in the programmes of the third scientific degreehigher education level.  
  
  
**Objective:** To ensure the training of highly qualified specialists in the field of surgery, namely in reconstructive and plastic surgery, capable of solving complex problems of diagnosis and treatment of patients with this pathology.  
  
**The main objectives of the course** are the acquisition by students of competences according to general and professional competences of the educational-professional program «Medicine» of the second level of higher education in specialty 222 Medicine (discipline «Surgery»)

* Integral competences:  
  The ability to deal with typical and complex specialized tasks and practical problems in the field of health-care professions or in the process of education, Requires research and / or innovation, and is characterized by complex and uncertain conditions and requirements.
* General competence:  
  Capacity for abstract thinking, analysis and synthesis, ability to learn and be up-to-date; ability to apply knowledge in practical situations; knowledge and understanding of the subject area; and understanding of the occupation; Adaptability and adaptability to new situations; ability to make informed decisions; teamwork; interpersonal skills; ability to communicate in the State language, both speaking and in writing; The ability to communicate in a foreign language; the ability to use information and communication technologies; certainty and persistence in the tasks and responsibilities assigned; and the ability to act in a socially responsible and conscious manner.
* Professional competencies in plastic and reconstructive surgery:  
  Interviewing skills; ability to define the necessary list of laboratory and instrumental studies and to evaluate their results; ability to establish a clinical diagnosis of the disease; ability to determine the appropriate working and rest regime, The nature of nutrition in the treatment of diseases; the ability to determine the principles and the nature of the treatment of diseases; Skills in medical manipulation; ability to plan and perform operational interventions; ability to determine the tactics of persons to be monitored; ability to maintain medical records.

The following social skills are taught in this subject:

* Sociability(implemented through: Group and brainstorming method for analysis of clinical cases, method of presentation of results of independent work and their protection in a group
* Teamwork(implemented through: Team working method and brainstorming in clinical case analysis)
* Conflict management(implemented through business games)
* Time management(implemented through: self-organization method with audited group work and independent work)
* Leadership skill(implemented through: presentation of Independent work and group protection)

**Discipline status: selective;** mixed-discipline format, accompanied by Moodle, Discipline Teaching, combines traditional face-to-face learning with distance learning which uses available information interactive technologies (ZOOM, Moodle), eye and remote counselling.  
  
**Teaching methods**.  
A clinical (supervision of patients who need to perform plastic and reconstructive interventions), phantoms, electronic-informative (presentations, video materials, methodological recommendations, lectures) and scientific (participation in discipline research), end control (tests, situation tasks, practical skills assessment, case protection)  
  
**Learning outcomes.**  
The course covers the main aspects of the training of a future surgeon, a family doctor.  
According to the curriculum of the academic discipline “Plastic and Reconstructive Surgery” the candidate of higher education will acquire theoretical knowledge, methodological training, practical skills and skills in the following areas:

* Skin features
* Modern suture material, skin sutures
* Features of anatomical changes of the periorbital section, plastic and reconstructive interventions at given changes
* Diversity of Auricular Defects and methods of correction
* Multiple defects of forehead and methods of correction
* Features of plastic and reconstructive interventions for breast defects
* Abdominoplasty performance data and methods

**Discipline’s content**Discipline curriculum and thematic plan.

|  |  |  |
| --- | --- | --- |
| **COURSE «PLASTIC AND RECONSTRUCTIVE SURGERY» (90 hours) 3 credits** | | |
| **Themes of practical lessons (50 hours)** | | |
| 1 | Introduction to the subject, program, features of skin structure. Modern suture material, types of skin sutures, classification of plastic material. | 5 |
| 2 | Aesthetic blepharoplasty. Possible complications of lower and upper blepharoplasty. | 5 |
| 3 | Reconstructive and plastic otoplastic. | 5 |
| 4 | Aesthetic surgery of the forehead. Using of endoscopic technology. | 5 |
| 5 | Rhinoplasty. Readings and contraindications. Possible complications | 5 |
| 6 | Plastic surgery on the head and neck: basic flaps and how they are moved. Use of remote flaps, transplants in plastic surgery. | 5 |
| 7 | General principles of surgical correction of aesthetic disorders of mammary glands. Increase of mammary glands. Decrease of mammary glands. | 5 |
| 8 | Breast cancer. Simultaneous and delayed reconstructive operational interventions | 5 |
| 9 | Abdominoplasty. Anterior abdominal wall reconstruction. | 5 |
| 10 | Reconstructive surgery of the spine. | 3 |
| 10 | Final test. | 2 |
| **Total** |  | **50** |
| **Themes of independent works(40 hours)** | | |
| 1 | Features of examination in plastic surgery. Wound healing. Mechanical, physical and pharmacological methods of wound treatment. | 5 |
| 2 | Tissue regeneration and autotransplantation. Basic principles of tissue dissection and connection. Scar correction. | 5 |
| 3 | Surgical anatomy of the head and neck. Anthropometric and cephalometric facial analysis. | 5 |
| 4 | Surgery is a facelift. Testimonies and contraindications. Basic techniques. Rehabilitation. Detection of complications. | 5 |
| 5 | Reconstruction of mammary gland is a patch. Variants of tram - plastic. Reconstruction of mammary gland thoracodorsal flap, flap “Rubens”. | 5 |
| 6 | Reconstruction of soft tissue of hair part of the head. | 5 |
| 7 | Contour plastic body. Liposuction. Re-liposuction. | 5 |
| 8 | Mechanical, laser and chemical correction of skin age. | 5 |
| **Total** |  | **40** |

**Topic of practical lessons**

1. **Introduction to the subject, program, features of skin structure. Modern suture material, types of skin sutures, classification of plastic material.**  
   Plastic surgery as a specialty. History. Psychological aspects and ethics. Anatomical features of skin depending on localization and age. Modern sutures. Types of skin sutures. Knot Tying Techniques.
2. **Aesthetic Blepharoplasty. Possible complications of lower and upper blepharoplasty.**

Topographic anatomy of the perorbital facial area. The concept of traditional anthropometric criteria of the periorbital facial areas. Factors of disorders.

Criteria for the diagnosis of ptosis. Stages of ptosis. Examination plan for a patient with ptosis. Indicators calculation used to diagnose the pathology and its stage. Formulation diagnosis principles. Management strategies used in various stages of ptosis. Surgical interventions criteria and postoperative period critera.

1. **Reconstructive and plastic otoplasty.**

Ear’s anatomy. The concept of traditional anthropometric parameters of the human ear. Factors of disorders. Criteria for the diagnosis. Examination plan for a patient with deafness, congenital and acquired ear disease, post-traumatic defects. Indicators calculation used to diagnose the pathology and its stage. Formulation diagnosis principles. Management strategies used in various stages of ear disease. Surgical interventions criteria and postoperative period critera.

1. **Aesthetic forehead surgery. Use of endoscopic technologies.**

Anatomy of the frontal area of the face. The concept of traditional anthropometric parameters of the human forehead. Factors of disorders. Criteria for the diagnosis. Examination plan for a patient with aesthetic and post-traumatic and pathological forehead defects. Indicators calculation used to diagnose the pathology and its stage. Formulation diagnosis principles. Management strategies used for various forehead defects. Surgical interventions criteria. Use of endoscopic surgical technologies. Features of the postoperative period.

1. **Rhinoplasty. Indications and contraindications. Possible complications.**

Nose and face anatomy. The concept of traditional anthropometric parameters of the human nose. Factors of disorders. Criteria for the diagnosis. Examination plan for a patient with aesthetic and post-traumatic and pathological nose defects. Indicators calculation used to diagnose the pathology and its stage. Formulation diagnosis principles. Management strategies used for various nose defects. Surgical interventions criteria. Use of microendoscopic surgical technologies. Features of the postoperative period.

1. **Head and neck plastic surgical interventions: basic flaps and ways to move them. The use of remote flaps, grafts in plastic surgery.**

Head and neck topographic anatomy. Pathological conditions and traumatic defects that require surgery using displaced flaps. Main types of flaps. Methods of move flaps. Criteria for choosing the type of flap and method of movement. Diagnosis principles. Surgical interventions criteria. Use of microvascular surgical technologies. Features of the postoperative period.

1. **Common principles of surgical correction of aesthetic disorders of the mammary glands. Mammary gland enlargement. Mammary gland reduction.**

Woman’s thorax topographic anatomy. The concept of traditional anthropometric parameters of the woman’s thorax. Factors of disorders. Criteria for the diagnosis. Examination plan for a patient with aesthetic, post-traumatic, and pathological mammary gland defects. Calculation of indicators used for the diagnosis of pathological and aesthetic defects of the mammary glands. Diagnosis principles. Management strategies used for various mammary glands defects. Surgical interventions criteria. Use of endoscopic surgical technologies. Features of the postoperative period.

1. **Breast cancer. Simultaneous and deferred reconstructive surgery.**

Classification of breast cancer. Clinical manifestations of breast cancer. Features and types of mastectomies. Criteria and methods of performing simultaneous reconstructive surgery for breast cancer. Selection criteria and methods of performing delayed reconstructive interventions after mastectomy. Features of the postoperative period.

1. **Abdominoplasty. Reconstruction of the anterior abdominal wall.**

Anterior abdominal wall anatomy. The concept of traditional anthropometric parameters of the anterior abdomen. Factors of disorders. Criteria for the diagnosis. Examination plan for a patient with aesthetic, post-traumatic, and pathological anterior abdominal wall defects. Diagnosis principles. Management strategies used for various forms of excess skin and subcutaneous fat of the anterior abdominal wall. Surgical interventions criteria. Surgical interventions in the presence of hernias of the anterior abdominal wall. Features of the postoperative period.

1. **Back reconstructive surgery.**

Anatomy of the back. The concept of traditional anthropometric parameters of the human back. Factors of disorders. Criteria for the diagnosis. Examination plan for a patient with aesthetic, post-traumatic, and pathological defects of back. Diagnosis principles. Criteria and methods of surgical interventions. Features of the postoperative period.

**Recommended Books**

1. Operative Dictations in Plastics and Reconstructive Surgery//Tuan Anh Tan, Zubin J. Panthaki, Jamal J. Hoballah – Springer. – 2016. - 323 p.

2.Internet resources: <https://www.youtube.com/watch?v=DNfBxDlak4k>, <https://www.youtube.com/watch?v=bC8--vulzL8>, <https://www.youtube.com/watch?v=3a17Dff_ubc>,

<http://lisitsin.com.ua/services/plastika-grudi.html>.

**Discipline policy and values.**

In order to successfully complete the relevant course, it is necessary to regularly attend practical classes; have theoretical preparation for practical classes according to the subject; not to be late and not to miss classes; perform all necessary tasks and work in each lesson; be able to work with a partner or in a group; contact the curators of the course on various issues on the subject of classes and receive it when you need it.

Students can discuss different tasks, but their performance is strictly individual. It is not allowed to write off, use various software, tips, use a mobile phone, tablet or other electronic gadgets during classes for purposes other than the educational process. Being late for practical classes is prohibited.

Curation of patients is possible if students have the appropriate form of clothing, a health book with a mark of vaccination against diphtheria, the results of the examination for the stress of immunity to measles (or a mark of vaccination).

Students with special needs can meet with the teacher or warn him before the start of classes, at the request of the student it can be done by the head of the group. If you have any questions, please contact the teacher.

Students' participation in research and conferences on this topic is encouraged.

All students of KhNMU are protected by the regulations on prevention, prevention and settlement of cases related to sexual harassment and discrimination at Kharkiv National Medical University, designed to define an effective mechanism for resolving conflict situations related to discrimination and sexual harassment.. This Regulation is developed on the basis of the following normative legal acts of Ukraine: the Constitution of Ukraine; Law of Ukraine "On Education"; Law of Ukraine "On Higher Education"; Law of Ukraine "On Principles of Prevention and Counteraction of Discrimination in Ukraine"; Law of Ukraine "On Ensuring Equal Rights and Opportunities for Women and Men"; Convention for the Protection of Human Rights and Fundamental Freedoms; Convention for the Suppression of Discrimination in Education; Convention on the Elimination of All Forms of Discrimination against Women; General Recommendation № 25 to paragraph 1 of Article 4 of the Convention on the Elimination of All Forms of Discrimination against Women; General Comment № 16 (2005) “Equal rights for men and women to enjoy economic, social and cultural rights” (Article 3 of the International Covenant on Economic, Social and Cultural Rights; UN Committee on Economic, Social and Cultural Rights); Recommendations on education according to international understanding, cooperation and peace and education according to respect for human rights and fundamental freedoms (UNESCO); The concept of the State social program to ensure equal rights and opportunities for women and men for the period up to 2021. Kharkiv National Medical University provides education and work that is free from discrimination, sexual harassment, intimidation or exploitation. The University recognizes the importance of confidentiality. All persons responsible for the implementation of this policy (staff of deans' offices, faculties, institutes and the center for gender education, members of the student government and ethics committee, vice-rector for research and teaching) are confidential regarding those who report or accuse of discrimination. or sexual harassment (except where the law requires disclosure and / or when disclosure by the University is necessary to protect the safety of others).

KhNMU creates equal opportunities free from discrimination of any national, racial or ethnic origin, sex, age, disability, religion, sexual orientation, gender, or marital status. All rights, privileges, programs and activities granted to students or staff of the University apply to all without exception, provided they are properly qualified. The anti-discrimination policy and the policy of counteracting sexual harassment of KhNMU are confirmed by the code of corporate ethics and the charter of KhNMU.

**Behavior in the audience**

It is important for students to follow the rules of good behavior at the university. These rules are for all, they also apply to all faculty and staff, and are not fundamentally different from the generally accepted norms.

During classes

* Allowed:
* leave the audience for a short time if necessary and with the permission of the teacher;
* soft drinks;
* take photos of presentation slides;
* actively participate during the classes.
* Prohibited:
* eat (except for persons whose special medical condition requires another - in this case, medical confirmation is required);
* smoking, drinking alcohol and even low-alcohol drinks or drugs;
* use obscene language or use words that offend the honor and dignity of colleagues and faculty;
* gambling;
* damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);
* shouting, listening to loud music in classrooms and even in the hallways during classes.

**Plagiarism and academic integrity**

The Department of Surgery №1 maintains zero tolerance for plagiarism. Students are expected to constantly raise their awareness of academic writing. The first lessons will provide information related to definition of plagiarism and how to properly conduct research and scientific research.

**Occupational Health**

The first lesson of the course will explain the basic principles of labor protection by conducting appropriate training. It is expected that every higher education seeker should know where the nearest evacuation exit is, where the fire extinguisher is, how to use it, and so on.

The procedure for informing about changes in the syllabus: the necessary changes in the syllabus are approved by the methodical commission of KhNMU on the problems of professional training of pediatric profile and published on the site of KhNMU, the site of the Department of Surgery №1 KhNMU.

**Evaluation policy**

Organization of current control. Teachers make sure that each student receives the necessary competence in the topics of practical classes. Learning topics (current control) is controlled by class according to specific objectives. The following tools are used to assess the level of preparation of students: tests, solving situational problems, interpretation and evaluation of laboratory tests, methods of prescribing therapy, monitoring the acquisition of practical skills. Assessment of current learning activities (CLA) in each practical lesson is carried out on the traditional 4-point scale: "excellent", "good", "satisfactory" and "unsatisfactory".

**Discipline evaluation**. The final lesson (FL) is conducted in accordance with the curriculum during the semester on schedule, during classes. The grade for the discipline is given to the student at the last (final) lesson. The final score for CLA and the final lesson (FL) is defined as the arithmetic mean of traditional grades for each lesson and FL, rounded to 2 decimal places (to the nearest hundredth), which are converted into points in accordance with the "Instructions for assessing student learning. … »Using Table 2 or the average grade (to the nearest hundredth) for CLA and its conversion into ECTC scores, the teacher automatically receives using the electronic journal ACS. The minimum number of points that a student must score for the current activity during the study of the discipline is 120 points, the maximum number of points - 200 points.

**Evaluation of independent work of students.** Independent work of students, which is provided by the topic of the lesson along with the classroom work, is assessed during the current control of the topic in the relevant lesson.

**Assessment of individual student tasks is carried out by performing the tasks of the teacher:**

* report of the paper during a practical lesson 0 - 2 points;
* report with a presentation during a practical lesson 0 - 3 points,
* report at scientific and practical conferences of the department, university, writing abstracts, articles 0 - 5 points;
* participation in the All-Ukrainian Olympiad - 5 - 10 points

Points for individual student tasks (a total of not more than 10 points) can be added as an incentive additional points to the final score for current learning activities, calculated using Table 2 and are part of the assessment of the discipline.

During the assessment of mastering each subject of the discipline (current educational activity - **CEA**) and the final lesson (**FL**) the student is graded according to the traditional 4-point system: "excellent", "good", "satisfactory" and "unsatisfactory".

The maximum number of points that a student can score when studying the discipline is - 200, the minimum - 120 points.

At the end of teaching the discipline "Endocrinology of Development" the student receives a test.

**Recalculation of the average score for current activities in a multi-point scale**

1. Evaluation of current educational activities (CEA). Recalculation of the average grade for current activities in a multi-point scale is carried out in accordance with the "Instructions for assessing the educational activities of students…" (table 2).

2. Discipline grade. The final grade for CEA and final lesson (FL) is defined as the arithmetic of traditional grades for each lesson and FL, rounded to 2 decimal places, which are listed in points using Table 2.

Assessment of individual tasks of the student is carried out for performance of tasks of the teacher: the report of the paper on practical employment 0 - 2 points; report with presentation at practical lesson 0 - 3 points, report at scientific and practical conferences of the department, university, writing abstracts, articles 0 - 5 points; participation in the All-Ukrainian Olympiad - for each type of activity 5 - 10 points (not more than 10 points in total), which can be added as an incentive additional points to the final grade for current educational activities, calculated using Table 2 and included in the discipline.Table 2

Recalculation of the average grade for current activities in a multi-point scale

(for disciplines that end with a test)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 4-point scale | 200- point scale |  | 4- point scale | 200- point scale |  | 4- point scale | 200- point scale |
| 5 | 200 | 4.22-4,23 | 169 | 3.45-3,46 | 138 |
| 4.97-4,99 | 199 | 4.19-4,21 | 168 | 3.42-3,44 | 137 |
| 4.95-4,96 | 198 | 4.17-4,18 | 167 | 3.4-3,41 | 136 |
| 4.92-4,94 | 197 | 4.14-4,16 | 166 | 3.37-3,39 | 135 |
| 4.9-4,91 | 196 | 4.12-4,13 | 165 | 3.35-3,36 | 134 |
| 4.87-4,89 | 195 | 4.09-4,11 | 164 | 3.32-3,34 | 133 |
| 4.85-4,86 | 194 | 4.07-4,08 | 163 | 3.3-3,31 | 132 |
| 4.82-4,84 | 193 | 4.04-4,06 | 162 | 3.27-3,29 | 131 |
| 4.8-4,81 | 192 | 4.02-4,03 | 161 | 3.25-3,26 | 130 |
| 4.77-4,79 | 191 | 3.99-4,01 | 160 | 3.22-3,24 | 129 |
| 4.75-4,76 | 190 | 3.97-3,98 | 159 | 3.2-3,21 | 128 |
| 4.72-4,74 | 189 | 3.94-3,96 | 158 | 3.17-3,19 | 127 |
| 4.7-4,71 | 188 | 3.92-3,93 | 157 | 3.15-3,16 | 126 |
| 4.67-4,69 | 187 | 3.89-3,91 | 156 | 3.12-3,14 | 125 |
| 4.65-4,66 | 186 | 3.87-3,88 | 155 | 3.1-3,11 | 124 |
| 4.62-4,64 | 185 | 3.84-3,86 | 154 | 3.07-3,09 | 123 |
| 4.6-4,61 | 184 | 3.82-3,83 | 153 | 3.05-3,06 | 122 |
| 4.57-4,59 | 183 | 3.79-3,81 | 152 | 3.02-3,04 | 121 |
| 4.54-4,56 | 182 | 3.77-3,78 | 151 | 3-3,01 | 120 |
| 4.52-4,53 | 181 | 3.74-3,76 | 150 | **Less then 3** | Insufficient |
| 4.5-4,51 | 180 | 3.72-3,73 | 149 |  |  |
| 4.47-4,49 | 179 | 3.7-3,71 | 148 |
| 4.45-4,46 | 178 | 3.67-3,69 | 147 |  |  |
| 4.42-4,44 | 177 | 3.65-3,66 | 146 |  |
| 4.4-4,41 | 176 | 3.62-3,64 | 145 |  |  |
| 4.37-4,39 | 175 | 3.6-3,61 | 144 |  |  |
| 4.35-4,36 | 174 | 3.57-3,59 | 143 |  |  |
| 4.32-4,34 | 173 | 3.55-3,56 | 142 |  |  |
| 4.3-4,31 | 172 | 3.52-3,54 | 141 |  |  |
| 4,27-4,29 | 171 | 3.5-3,51 | 140 |  |  |
| 4.24-4,26 | 170 | 3.47-3,49 | 139 |  |  |

Head of Department

surgery № 1, Professor, d. md. Boyko V. V.