# DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY DEPARTMENT OF SURGERY № 1

First vice-rector
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Lviv National Medical University
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# WORK PROGRAM

for Clinical Practical training on "SURGERY" (Educational component 44) for training of specialists of the second (master's) level of high education branch of knowledge 22 "Healthcare" 5<sup>th</sup>-year students of speciality 222 "Medicine"

### "APPROVED"

at the meeting of the Department of Surgery № 1 meeting report № 15

12 opril 2023 Chairman of the Department of Sugery № 1

prof. O.V. Lukavetskyy

"APPROVED"

at the meeting of the Surgical Methodological Commission of Danylo Halytsky Lviv National Medical University meeting report No. 200

27 apolit 2023 Chief of Surgical Methodological Commission

prof. V.P. Andriushchenko

2023

"APPROVED"

Dean of Faculty of Foreign Students

Danylo Halytsky

Lviv National Medical University

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Lviv 2023

### DEVELOPED AND APPROVED:

# DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

### DEVELOPERS OF PROGRAMME:

- O.V. Lukavetskyy, doctor of medical sciences, professor, Chairman of the Department of Surgery Neq 1;
- V.I. Kolomiytsev, doctor of medical sciences, professor of the Department of Surgery №1;
- T.E. Babjak, candidate of medical sciences, associate professor of the Department of Surgery №1;
- V.V. Khomyak, candidate of medical sciences, associate professor of the Department of Surgery №1.

### **REVIEWER:**

- I.I. Kobza, doctor of medical sciences, professor, Chairman of the Department of Surgery №2;
- V.P. Andryushchenko, doctor of medical sciences, professor, Chairman of Department of General Surgery.

#### 1. EXPLANATORY NOTE

The clinical practical training of students of the higher medical educational establishments of III-IV levels of accreditation is an important step in preparation of a physician, as well as irreplaceable component of the educational process.

According to the educational plan, practical training is carried out in the X semester, when students acquire knowledge of basic clinical disciplines: internal medicine, neurology, surgery, traumatology, oncology, pediatrics, obstetrics and gynecology.

Practical training of V year students is carried out at the end of the semester and therefore has no classroom hours. Most of the time practice is independent work of students controlled and evaluated by practice managers. The practice of students of medical faculties is conducted as an doctor's assistant of outpatient surgical department in the amount of professional duties of physician of outpatient department and lasts one week.

Student's activities are supervised by practice managers from the university and managers from outpatient department. Final control of Practical training on Surgery – differentiated credit – is performed on the last day of practice.

During practical training student is performing with the doctor of surgical outpatient department reception of outpatients.

During the out-patient student conduct patient's survey, physical examination, prescribe treatment and issue medical records: prescriptions, sick leaves, referrals to different examinations and consultations, letters to Disability Commission and others. Perform the disability expertise.

During the out-patient patient is conducted laboratory and other examination and, if necessary, performed invasive manipulation, outpatient surgery, cast immobilization, dressings; student accompany the patient and takes an active part in the examinations, surgical manipulations and operations.

Student with the doctor, after ambulatory care of patients, visits the home calls (primary or recurrent). In outpatients card is recorded the patient's condition and treatment is prescribed with a mark of visiting of the patient at home.

While working in the polyclinic student must acquire principles of the dispensary services. He participates in the selection of patients for follow-up on medical or social criteria, conducts a dynamic observation of patients and healthy, taken to account; assigns necessary treatment, preventive and rehabilitative measures; fills documentation used in clinical services.

Together with doctor of outpatient department student takes part in the work of Doctor's Consultative commission and Disability Commission and learn how to fill in sick leave, develop criteria for determining disability groups.

Organization o the educational process of Practical Training is carried out under the European Credit Transfer-accumulative system (ECTS). Assessment of students for Practical Training of V year is rating and is set by multi-point scale taking into account the current and final control, with definition on ECTS system and the traditional scale accepted in Ukraine. According to the MoH Ukraine Order from 23.07.2007 No.414

| Type of practice                                      | Weeks | Credits / Hours         | Year of study /         | Type of control                 |
|---|-------|-------------------------|-------------------------|---------------------------------|
|   |       |                         | semester                |                                 |
| Doctor's training in outpatient department of surgery |       | 1,5 credit/<br>45 hours | V course/<br>X semester | Current and final modul control |

In accordance with the requirements of the educational and professional program medical practice in the surgical department of the polyclinics provides students with the acquisition of 5th year competencies: integral, general and special.

Competences and results of study, formation of which promotes the discipline - the relationship with the regulatory content of the training of higher education applicants, formulated in terms of learning outcomes in the Standard.

According to demands of standard the discipline provides the acquiring by students the *competences*:

<u>- integral</u>: the ability to solve typical and complex problems and practical problems in the field of professional activity 22 "Health care", which involves the application of certain theoretical knowledge, skills, practical skills and methods of relevant professional orientation;

### <u>- genera</u>l:

- 1. The ability to abstract thinking, analysis and synthesis;
- 2. The ability to study and to master by modern knowledge;
- 3. The ability to use knowledge in practical situations;
- 4. The ability to plan and manage by time;
- 5. The knowledge and understanding of presentive area and understanding of professional activity;
- 6. The skills of application of informative and communicative technologies;
- 7. The ability to adaptation and action in the new situation;
- 8. The ability to accept the substantiated decisions;
- 9. The ability to work in the team;
- 10. The skills of interpersonal interaction;
- 11. The certainty and persistence about given tasks and taken obligations;
- 12. The aspiring to saving of environment;
- 13. The ability to act on principle of ethical rationale (motives);

### - special (professional):

- 1. To call over of anamnesis in surgical patient;
- 2. Carrying out of objective examination of the surgical patient;
- 3. The estimation of severity of disease clinical signs;
- 4. Making of plan of investigation and evaluation their results;
- 5. Carrying out of differential diagnostics;
- 6. The providing of care for severe patient;
- 7. To reveal and estimate an acute medical conditions;
- 8. Diagnose the urgent surgical diseases: acute appendicitis, cholecystitis, pancreatitis, GI bleeding, complications of peptic ulcer, intestinal obstruction;
- 9. Providing of basic supporting of life and cardio-pulmonary resuscitation in accordance with modern European recommendations;
- 10. Treatment of the pain;
- 11. Administration of adequate treatment;
- 12. Performing of medical procedures and medical manipulations (determination of the blood pressure, carrying out of vein puncture and catheterization of the veins, application of the means for realization of intravenous transfusion, performing of subcutaneous, intramuscular injections, catheterization of urinary bladder, washing of the stomach, performing of enema;
- 13. Patients transportation;
- 14. Carrying out of the donors: blood compounds transfusion;

Detailing of competencies according to descriptors of SWU in "Competence Matrix".

### **Competence Matrix**

| No  | Competence | Knowledge            | Abilities | Communicatio | Autonomy and   |
|-----|------------|----------------------|-----------|--------------|----------------|
| 312 | Competence | Competence Knowledge | Admities  | n            | responsibility |
| 1   | 2          | 3                    | 4         | 5            | 6              |
|     |            | •                    |           |              |                |

### **Integral competence**

The ability to solve typical and complex problems and practical problems in the field of professional activity 22 "Health care", which involves the application of certain theoretical knowledge, skills, practical skills and methods of relevant professional orientation, that foresees carrying out of researches and /or implementation of innovation and characterized by complexity and uncertainty of conditions and demands

|   |  | Gener  | al competences   |  |  |
|---|--|--|--|--|--|
| 1 | Ability to abstract thinking, analysis and synthesis | To know the kinds of analysis, synthesis and further modern education    | To be able to carry out an analysis of information, to make reasonable decisions, to be able to acquire modern knowledge | To establish an appropriate connections for achievement of purposes.   | To be resposible for timely acquirement of the modern knowledge  |
| 2 | Ability to study and master a modern knowledge.      | To know a modern trends of the branch and development and analyzed them. | To be able to carry out an analysis of information, to make reasonable decisions, to be able to acquire modern knowledge | To establish an appropriate connections for achievement of purposes.   | To be responsible for timely acquirement of the modern knowledge |
| 3 | Ability to use knowledge in practical situations     | To have a specialized conceptual knowledge, acquired in process of study | To be able to solve a complex tasks and problems, that arise in professional activity                                    | Understandable and unambiguous report of the own conclusions, knowledge and explanations, that motivate their to specialists and not specialists | To answer for acceptance of decisions in complex conditions      |
| 4 | Ability to plan and act within the allotted time     | To know the principles of planning, to know the requirements             | To be able to implement gradually yours actions in according to  | To establish an appropriate connections for achievement of the result  | To be responsible for appropriate order (sequence) and terms of  |

|   | I                     | 1               |                   | <u> </u>                                |                    |
|---|-----------------------|-----------------|-------------------|---|--------------------|
|   |                       | about terms of  | requirements      |   | carrying out of    |
|   |                       | realization one | about terms       |   | actions            |
|   |                       | or the other    | their             |   |                    |
|   |                       | action          | implementation    |   |                    |
| 5 | Knowledge and         | To have         | To be able to     | Ability to form                         | To be responsi-    |
|   | understanding of the  | knowledge of    | implement         | efficiently the                         | ble for            |
|   | subject state and     | professional    | professional      | communicative                           | professional       |
|   | understanding of      | activity        | activity, that    | strategy in                             | development,       |
|   | professional activity | structure       | needs renew a     | professional                            | ability to further |
|   |                       |                 | land integration  | activity                                | professional       |
|   |                       |                 | of the            |   | education with     |
|   |                       |                 | knowledge         |   | high level of      |
|   |                       |                 |                   |   | autonomy           |
| 6 | Skills of informative | To have a       | To be able to     | To use                                  | To be              |
|   | and communicative     | knowledge in    | use informative   | informative                             | responsible for    |
|   | technologies usage    | branch of       | and               | and                                     | development of     |
|   |                       | informative and | communicative     | communicative                           | professional       |
|   |                       | communicative   | technologies in   | technologies in                         | knowledge and      |
|   |                       | technologies,   | professional      | professional                            | abilities.         |
|   |                       | that use in     | branch, that      | activity                                |                    |
|   |                       | professional    | require a         |   |                    |
|   |                       | activity        | renovation and    |   |                    |
|   |                       |                 | integration of    |   |                    |
|   |                       |                 | the knowledge     |   |                    |
| 7 | Ability to adaptation | To know the     | To be able to     | To establish                            | To be              |
| , | and action in the     | kinds and       | use the means     | the appropriate                         | responsible for    |
|   | new sitation.         | methods of      | of the self –     | connections for                         | timely usage of    |
|   |                       | adaptation,     | regulation, to be | achievement of                          | the self -         |
|   |                       | principles of   | able to adapt to  | result.                                 | regulation         |
|   |                       | action in the   | new situations    |   | methods.           |
|   |                       | new situation   | (circumstances)   |   |                    |
|   |                       |                 | of life and       |   |                    |
|   |                       |                 | activity          |   |                    |
| 8 | Facility to make      | To know the     | To be able to     | To use the                              | To be              |
|   | substantiated         | tactics and     | make              | strategy of                             |                    |
|   | decision              | strategy of     | substantiated     | communication                           | choice and         |
|   |                       | communication,  | decision, to      | and skills of                           | tactics of         |
|   |                       | the laws and    | choose the        | interpersonal                           | method of          |
|   |                       | kinds of        | ways and          | interaction                             | communication      |
|   |                       | communicative   | strategy of       |   | that provides      |
|   |                       | behavior        | communication     |   | making of          |
|   |                       | Condition       | for providing of  |   | decision           |
|   |                       |                 | effective         |   | 20101011           |
|   |                       |                 | command work      |   |                    |
| 9 | Ability to work in    | To know the     | To be able to     | To use the                              | To be              |
|   | the team.             | tactics and     | choose the        | strategy of                             | responsible for    |
|   |                       | strategies of   | ways and          | communication                           | choice and         |
|   |                       | communication,  | strategy of       | 2 3222200000000000000000000000000000000 | tactics of the     |
|   |                       | laws and ways   | communication     |   | kind of            |
|   |                       | of              | for providing of  |   | communication      |
|   |                       | communicative   | effective         |   |                    |
|   |                       | behaviour.      | command work      |   |                    |
| 1 |                       | ochavioui.      | Command Work      |   |                    |

| 1 0 | Skills of interpersonal interaction                               | To know the laws and ways of interpersonal interaction              | To be able to choose the ways and strategy of communication for interpersonal   | To use the skills of interpersonal interaction   | To be responsible for choice and tactics of the kind of communication   |
|-----|---|---|---|--|---|
| 1 1 | Certainty and persistence about given tasks and taken obligations | To know the obligations and ways of the given tasks implementation  | interaction  To be able to determine the aim and tasks to be persistent and honest during implementation of the own obligations | To establish interpersonal connections for effective realization of tasks and obligations                          | To answer for high – quality implementation of the given tasks  |
| 1 2 | Aspiring to saving of environment                                 | To know problems of environment saving and ways of its preservation | To be able to form a requirements to himself and surrounding about saving of environment  | To make suggestions to appropriate organs and institutions about measures for saving and protection of environment | To be responsible for implementation of measures of environment preservation in own competence.                 |
| 1 3 | Ability to work on<br>the base of ethic<br>considering            | To know the fundamentals of ethics and deontology                   | To be able to use ethical and deontological norms and principles in professional activity                                       | Ability to bring to the notice of patients, members their families, colleges your own professional position        | To be responsible for implementation of ethical and deontological norms and principles in professional activity |
|     |   | Special (profession   | nal. objective) con   | nnetences  | •   |
| 1   | Call – over of anamnesis in the surgical patient                  | To know a   | To be able to call -over step by step all information concerning disease in according to words of patient                       | Ability to establish interpersonal connections   | To be responsible for implementation of ethical and deontological norms   |
| 2   | Carrying out of objective examination of the surgical patient     | •   | To be able to perform all regulated methods of examination in according to  | Ability to establish a connection with patient during objective  | To be responsible for correct performing and interpretation of received results                                 |

|   |                       |                   | 1 1              |                 | 1                 |
|---|-----------------------|-------------------|------------------|-----------------|-------------------|
|   |                       |                   | order and        | examination     | during patients   |
|   |                       |                   | evaluate         |                 | objective         |
|   |                       |                   | received results |                 | investigation     |
| 3 | Evaluation of         |                   | To be able to    | To use          | To be             |
|   | severity of the       | knowledge         | choose and to    | informative     | responsible for   |
|   | clinical signs of     | about clinical    | use appropriate  | and             | interpretation of |
|   | disease               | course of         | scale for        | communicative   | received results  |
|   |                       | disease           | evaluation of    | technologies in | during            |
|   |                       |                   | clinical course  | professional    | evaluation of     |
|   |                       |                   | of disease       | work            | clinical course   |
|   |                       |                   |                  |                 | of disease        |
| 4 | Assembling of the     | To have a         | To be able to    | Ability to      | To be             |
|   | plan of patient's     |                   | analyze the      | inform a        | responsible for   |
|   | examination and       | knowledge         | results of       | patient and     | timeliness of     |
|   | evaluation of         | about methods     | laboratory and   | specialists the | appropriate       |
|   | received results      | of realization of | instrumental     | conclusions     | researches        |
|   |                       | laboratory and    | methods of       | about the list  | realization and   |
|   |                       | instrumental      | investigations   | and results of  | interpretation    |
|   |                       | researches        |                  | investigations  | their results     |
| 5 | Carrying out of       | To have a         | To be able to    | To form         | To be             |
|   | differential          | knowledge         | carry out        | soundly and     | responsible for   |
|   | diagnosing            | about clinical    | differential     | inform patient  | timely and        |
|   |                       | signs of          | diagnosis        | and specialists | correct           |
|   |                       | traumatic         | between          | the results of  | diagnosis         |
|   |                       | injuries,         | traumatic        | differential    |                   |
|   |                       | surgical          | injuries, to be  | diagnostics     |                   |
|   |                       | infection and     | able to          |                 |                   |
|   |                       | other urgent      | distinguish      |                 |                   |
|   |                       | surgical states   | different        |                 |                   |
|   |                       |                   | infectious       |                 |                   |
|   |                       |                   | surgical         |                 |                   |
|   |                       |                   | diseases and     |                 |                   |
|   |                       |                   | stages of their  |                 |                   |
|   |                       |                   | development      |                 |                   |
| 6 | Providing of care for | To have a         | To have a skills | To form a       | To be             |
|   | severe patient        | knowledge of      | of care for      | communicative   | responsible for   |
|   | •                     | organization of   | patients in      | strategy of     | timely            |
|   |                       | comfort patients  | conditions of    | contacts with   | estimation of the |
|   |                       | stay in           | department, to   | patient, to     | patient's         |
|   |                       | department and    | be able to       | bring           | condition for     |
|   |                       | rules of          | determine and    | information to  | timely and        |
|   |                       | providing of the  | estimate a       | appropriate     | correct carrying  |
|   |                       | vital demands     | general patients | documentation   | out of measures   |
|   |                       | of organism       | state, main      |                 | for patients care |
|   |                       |                   | parameters of    |                 | ±                 |
|   |                       |                   | his livelihoods  |                 |                   |
| 7 | To detect and         | To have a         | To be able to    | To use the      | To be             |
|   | evaluate the urgent   |                   | reveal quickly   | strategy of     | responsible for   |
|   | medical states        | about clinical    | and to diagnose  | communication   | timely revealin   |
|   |                       | signs and stages  | the acute        | and skills of   | and estimation    |
|   |                       | of the acute      | medical states,  | interpersonal   | of urgent         |
|   |                       | medical states    | to be able to    | interaction     | medical state in  |
|   | I.                    | l .               |                  | 1               |                   |

|   |                        | development       | organize an                 |                  | the patient       |
|---|------------------------|-------------------|-----------------------------|------------------|-------------------|
|   |                        | development       | appropriate                 |                  | the patient       |
|   |                        |                   | diagnostic                  |                  |                   |
|   |                        |                   | program                     |                  |                   |
| 8 | Providing of the first | To have a         | To be able to               | To use the       | To be             |
|   | medical aid            | special           | realize the                 | strategy of      | responsible for   |
|   | inculcul ala           | knowledge         | measures of                 | communication    | right and         |
|   |                        | about human       | first medical aid           | and skills of    | sequence (order)  |
|   |                        | urgent states; to | gradually and               | interpersonal    | providing of the  |
|   |                        | know the          | correctly in                | interaction      | first medical aid |
|   |                        | algorithm of the  | according to                | 11100111011      | 111001110011001   |
|   |                        | first medicalaid  | urgent state                |                  |                   |
|   |                        | providing         | ,that arose                 |                  |                   |
| 9 | Providing of the       | To have a         | To be able to               | To use the       | To be             |
|   | base life support and  | specialized       | carry out                   | strategy of      | responsible for   |
|   | cardio –pulmonary      | knowledge         | quickly                     | communication    | timely revealing  |
|   | resuscitation          | about terminal    | diagnostics of              | and skills of    | of the terminal   |
|   |                        | states, their     | terminal state,             | interpersonal    | condition, for    |
|   |                        | clinical signs    | clinical death.             | interaction      | rightness of      |
|   |                        |                   | To be able to               |                  | realization of    |
|   |                        |                   | carry out the               |                  | measures for      |
|   |                        |                   | measures of                 |                  | elementary        |
|   |                        |                   | elementary life             |                  | support of life   |
|   |                        |                   | supporting                  |                  | **                |
| 1 | Diagnose the acute     | To know           | To be able to               | To use a         | To be             |
| 0 | appendicitis           | aetiology,        | evaluate the                | strategy of      | responsible for   |
|   |                        | pathogenesis,     | rebound                     | communication    | timeliness and    |
|   |                        | and clinical      | tenderness,                 | and skills of    | rightness of      |
|   |                        | features of       | Rowzing's,                  | interaction with | application of    |
|   |                        | appendicitis.     | Sitkovsky's,                | patient under    | appropriate       |
|   |                        |                   | Coup's signs                | urgent co-       | measures in       |
|   |                        |                   |                             | ndition          | diagnosis and     |
|   |                        |                   |                             |                  | treatment         |
| 1 | Diagnose the acute     | To know           | To be able to               |                  | To be             |
| 1 | cholecystitis          | aetiology,        | evaluate the                | strategy of      | *                 |
|   |                        | pathogenesis,     | Ortner's,                   | communication    | timeliness and    |
|   |                        | and clinical      | Merphy's,                   | and skills of    | rightness of      |
|   |                        | features of       | Kehr's, and                 | interaction with | application of    |
|   |                        | cholecystitis.    | "phrenicus"                 | patient under    | appropriate .     |
|   |                        |                   | signs in                    | urgent co-       | measures in       |
|   |                        |                   | cholecystitis               | ndition          | diagnosis and     |
| 1 | D' 41 .                | T 1               | T 1 11 ·                    | T                | treatment         |
| 1 | Diagnose the acute     | To know           | To be able to               | To use a         | To be             |
| 2 | pancreatitis           | aetiology,        | evaluate the                | strategy of      | responsible for   |
|   |                        | pathogenesis,     | Körte's, Mayo-              | communication    | timeliness and    |
|   |                        | and clinical      | Robson's,                   | and skills of    | rightness of      |
|   |                        | features of       | Mondorr's,                  | interaction with | application of    |
|   |                        | pancreatitis.     | Halsted's,                  | patient under    | appropriate       |
|   |                        |                   | Gray-Turner's, and Cullen's | urgent condition | measures in       |
|   |                        |                   |                             | Condition        | diagnosis and     |
|   |                        |                   | signs in pancreatitis       |                  | treatment         |
| 1 |                        |                   | pancreatius                 |                  |                   |

| 1 | Diagnose the acute      | To know         | To be able to   | To use a                   | To be             |
|---|-------------------------|-----------------|-----------------|----------------------------|-------------------|
| 3 | intestinal obstruction  | aetiology,      | evaluate the    | strategy of                | responsible for   |
|   |                         | pathognesis,    | signs of        | communication              | timeliness and    |
|   |                         | and clinical    | intestinal      | and skills of              | rightness of      |
|   |                         | features of     | obstruction and | interaction with           | application of    |
|   |                         | intestinal      | choose the      | patient under              | appropriate       |
|   |                         | obstruction.    | appropriate     | urgent                     | measures in       |
|   |                         |                 | treatment       | condition                  | diagnosis and     |
|   |                         |                 |                 |                            | treatment         |
| 1 | Temporary               | To have a       | To be able to   | To use a                   | To be             |
| 4 | haemostasis in          | special         | choose and      | strategy of                | responsible for   |
|   | external bleeding       | knowledge of    | apply the       | communication              | timeliness and    |
|   |                         | anatomy and     | appropriate     | and skills of              | rightness of      |
|   |                         | physiology. of  | method of       | interaction with           | application of    |
|   |                         | veins and       | temporary       | patient under              | appropriate       |
|   |                         | arteries on the | haemostasis     | urgent                     | measures in       |
|   |                         | neck, limbs,    |                 | condition                  | treatment of      |
|   |                         | and body        |                 |                            | patient           |
| 1 | Providing of            | To have a       | To be able to   | To form                    | To be             |
| 5 | adequate treatment      | special         | choose the      | soundly and                | responsible for   |
|   |                         | knowledge of    | necessity of    | inform the                 | timely and        |
|   |                         | algorithms and  | complex of      | patient and                | correctness of    |
|   |                         | schemes of      | medical         | specialists                | choice of         |
|   |                         | treatment of    | measures        | about                      | medical           |
|   |                         | traumatic       | depending of    | conclusions for            | program for       |
|   |                         | injuries and    | pathologic      | appropriate                | patient with      |
|   |                         | surgical        | condition       | complex of                 | traumatic injury, |
|   |                         | infection       |                 | patients                   | surgical          |
|   |                         |                 |                 | treatment. To              | infection         |
|   |                         |                 |                 | be able to note            |                   |
|   |                         |                 |                 | administrations in medical |                   |
|   |                         |                 |                 | in medical documentation   |                   |
| 1 | Carrying out of         | Knowledge of    | To be able to   | To form                    | To be             |
| 6 | Carrying out of medical | algorithms of   | carry out the   | substantiated              | responsible for   |
| U | manipulations and       | medical         | medical         | and inform to              | quality of        |
|   | procedures              | procedures and  | procedure or to | patients the               | performing the    |
|   | procedures              | manipulations   | perform         | conclusions                | one or the other  |
|   |                         | performing:     | medical         | about necessity            | medical           |
|   |                         | determination   | manipulation in | of                         | procedure or      |
|   |                         | of the blood    | according to    | implementation             | manipulation      |
|   |                         | pressure, vein  | algorithm       | one or the other           | mamp anation      |
|   |                         | puncture,       | aigoittiiii     | medical                    |                   |
|   |                         | catheterization |                 | procedure or               |                   |
|   |                         | of vein,        |                 | manipulation               |                   |
|   |                         | intravenous     |                 |                            |                   |
|   |                         | transfusion,    |                 |                            |                   |
|   |                         | subcutaneous &  |                 |                            |                   |
|   |                         | intramuscular   |                 |                            |                   |
|   |                         | injections,     |                 |                            |                   |
|   |                         | catheterization |                 |                            |                   |
|   |                         | of urinary      |                 |                            |                   |
|   |                         |                 |                 | ,                          |                   |

| 1 7 | Treatment of pain   | bladder, washing of stomach with tube, applying of enema, shaving of operational field  To have a special knowledge about pathogenesis of the pain and pathologic conditions, that arise as result of the painful syndrome | To be able to choose and to use appropriate medical measure or medical preparation for prevention and diminution of painful syndrome and its consequences | To use a strategy of communication and skills of interpersonal interaction. To be able to contribute information about application of narcotic analgesics to proper medical documentation | To be responsible for timeliness and rightness of application of appropriate measures and medical preparations for prophylaxis and decreasing of painful syndrome signs |
|-----|---|--|---|---|---|
| 1 8 | Transportation of severe patient                          | To have a knowledge about means and kinds of the patient transportation  | To be able to estimate the possibility of the patients transportation and to choose the adequate means for this purpose                                   | To use the strategy of communication and skills of interpersonal interaction  | To be responsible for rightness of estimation of patients transportations possibility and choice of means for transportation  |
| 1 9 | Realization of transfusion of the donor's blood compounds | 1  | To be able to perform the tests on compatibility before blood transfusion (preparation of blood). To be able to implement process of hemotransfusion      | To use the strategy of communication and skills of interpersonal interaction. Filling of appropriate medical documentation  | To be responsible for rightness of performing the testson compatibility before hemotransfusion , and performing of really blood preparation transfusion                 |

### During the practice the student is obliged to:

- before the start of the practice to receive advice from the head of the department of the practice at the higher education institution on the term of the practice, documentation, etc.:
- in the dean's office to receive a referral to a basic institution for practice;
- arrive at the practice base on time;
- fully perform all tasks provided by the program of practice and instructions of its leaders on cycles;
- study and strictly follow the rules of labor protection, safety;
- comply with the rules of internal labor regulations in the medical institution;
- be responsible for the assigned work, its results at the level of staff;
- keep a practice diary, other documentation provided by the practice program;
- after the end of the cycle ("Medical practice in the surgical department") to submit to the head of practice from the educational institution a written report on the implementation of all tasks provided by the program, completed and endorsed by the supervisor diary;
- timely pass a final modul control in practice

The summer practice for 5<sup>th</sup> year students in the scope of professional duties of a doctor is conducted during one week in the surgical department. The students' practical work consists of daily (7 hours and 12 minutes) work in the polyclinic (participation in outpatient reception and in providing medical care at home) and one duty (12 hours) in the emergency department.

During the internship in the polyclinic, each student is assigned to a doctor of the relevant specialty of surgical profile, conducts outpatient reception of sick and healthy adults together with the doctor.

During the outpatient reception, patients are interviewed, examined, treated and medical documentation is beeing prescribed: prescriptions, sick leaves, referrals for various examinations and specialist consultations, sanatorium cards etc. Issues of disability expertize are resolved.

During the outpatient reception, according to the indications, invasive manipulations, outpatient surgeries, imposition of immobilization bandages and wound dressing are performed; the student accompanies the patient and takes an active part in surgical manipulations and operations.

If it is necessary to perform additional examinations of the patient in the laboratory, offices of functional diagnostics or X-ray examination, consultations of related specialists, the student accompanies the patient and takes an active part in conducting these studies.

After outpatient admission, each student together with the doctor attends 2-4 home calls (primary or secondary). Visits are held on the day of receipt of the home call. In the outpatient card the patient's condition, results of examination and prescribed treatment beeing recorded with a mark on the patient's visit to the home.

While working in the polyclinic, the student must master the principles of dispensary services. He participates in the selection of patients for dispensary monitoring of medical or social criteria, conducts dynamic monitoring of patients and healthy people registered; prescribes the necessary treatment, prevention and rehabilitation measures; fills in the documentation used at dispensary service of the population. In addition, students take part in studying the effectiveness of medical examinations at the polling station. To this end, each of them assesses the degree of coverage of dispensary observation, the activity of medical examination and its effectiveness.

Together with the doctor on shift at the polyclinic, students provide emergency care to the sick and injured.

#### Practice involves:

1. students study the organizational structure of the polyclinic and its units, as well as the documentation of the Ministry of Health of Ukraine, which regulates its work;

- 2. participation in outpatient reception of sick, injured and healthy adults by surgeons and other doctors specialists in surgery, mastering the skills of maintaining the necessary documentation by doctors of outpatient clinics;
- 3. mastering the rules of dispensary observation of sick, injured and healthy people of certain groups, the possibility of providing medical care in day and home hospital;
- 4. participation in the formation of the basic principles of a healthy lifestyle for the prevention of the most common diseases among the population;
- 5. knowledge of the main manifestations, risk factors, principles of treatment of the main most common diseases in order to prevent them, early detect and timely perform of necessary care.

It is recommended to use the following tools to diagnose the level of preparation of students: computer MCQs, solving clinical cases, structured written work; structured control of practical skills and abilities.

**Final modul control** is carried out upon completion of medical practice in the surgical department of the polyclinic.

The current activities of students are monitored in accordance with specific objectives and during the individual work of the person in the polyclinics by the university supervisor.

Maximum points awarded to student during Practical training module (examination credit) equals 200 points, including: practical skills (individual work) – from minimal required 72 points to maximal 120 points (60%), results of the differentiated credit (final modul control) – from minimal required 50 points to maximal 80 points (40%).

The program of the clinical practical training for students of the V year of higher medical establishments is prepared in accordance with the Regulation on the practical training of students of Danylo Halytsky Lviv National Medical University, Approved with the Scientific Council of Danylo Halytsky Lviv National Medical University on 16.09.2015 report №8-BP. Training on the above specialties are conducted during 6 years of studying.

The program was made in accordance with the following existing regulation documents:

- Law of Ukraine "On Higher Education" on 01.07.2014 №1556-VII;
- Regulations on the practical training of students in higher educational establishments of Ukraine Approved by the Ministry of Education of Ukraine on April 08, 1993, №93;
- Order of Ministry of Healthcare of Ukraine №179 03.10.1995 "On approval of instruction on practical training of students of general medicine, pediatrics, medical-prophylactic practice, dental and pharmaceutical faculties of higher educational establishments of III-IV level of accreditation, taking into account the standards of higher medical and pharmaceutical education";
- Educational Qualification Characteristics (EQC), Educational and Occupational Programs (EOP) of specialists' training are approved by order of Ministry of Education and Science of Ukraine (MES) 16.04.03 №239 "Approval of the components of education standards of 1101" Medicine";
- Experimental curriculum which is based on the principles of the European Credit Transfer System (ECTS) and approved by order of the Ministry of Healthcare of Ukraine №52, 31.01.2005 of "Approval and introduction of new curriculum of training of the educational-qualification level " Specialist ", qualification " Medical Doctor " at the high educational institutions of III-IV levels of accreditation of Ukraine of such specialties as "Curative Medicine" and "Stomatology";
- The recommendations of development of the curriculum which are approved by the Ministry of Healthcare of Ukraine March 24, 2004, №152 "Approval of the recommendations of development of the curriculum of the educational subjects", are followed with changes and supplements which were introduced by the order of Ministry of Healthcare of Ukraine from 12.10.2004, №492 "Changes and supplements

- to the recommendations of development of the curriculum of the educational subjects";
- The order of the Ministry of Healthcare of Ukraine, 31.01.2003, №148 "The implementation measures of the Bologna Declaration of the high education and science":
- The instruction of evaluation system of learning activities of students in accordance with the credit-modular system of education (Medical education in the world and in Ukraine which was approved by the Ministry of Healthcare of Ukraine as a study guide for teachers, masters, graduate and postgraduate education, Kyiv, Book-plus., 2005);
- The order of the Ministry of Healthcare of Ukraine, 17.05.2006, № 281 "The changes in the curriculum of training of the educational-qualification level " Specialist ", qualification "Medical Doctor" at the high educational institutions of III-IV levels of accreditation of Ukraine, approved by the Ministry of Healthcare of Ukraine from 31.01.05 № 52.

The educational process is organized according to the European Credit Transfer and Accumulative System (ECTS).

### 2. PURPOSE OF PRACTICAL TRAINING

The main goal of Practical Training of V year students' of General Medicine is to secure knowledge and practical skills gained in the study of basic clinical and theoretical subjects and their further deepening and improvement while working in health care settings, and getting acquainted with the doctor's work in the main city and regional hospitals, the organization of medical and anti-epidemic work, with the basics of ethics and medical ethics for the acquisition and consolidation of skills of health education work, the basics of health care.

*The purpose and goal of the medical practice* is to consolidate practical skills within the objectives set in education program:

- conduct an inquiry and physical examination of patients and analysis of their results in various surgical diseases;
- plan the scheme of examination of the patient depending on the clinical course of the disease;
- analyze the results of basic laboratory and instrumental methods of examination;
- identify the leading pathological symptoms and syndromes in most common surgical diseases;
- carry out differential diagnostics and make a preliminary diagnosis of the most common surgical diseases;
- interpret the general principles of treatment, rehabilitation and prevention of the most common surgical diseases;
- participate in providing emergency care in urgent cases in prehospital stage;
- execute necessary medical manipulations;
- learn the rules of writing medical records at the outpatient department (polyclinics);
- learn the knowledge of moral and deontological principles of medical specialist and principles of professional subordination in clinic.

## Specific objectives:

- to study the structure of the outpatient polyclinic, the functions of its departments, to master the basic principles of medical care in outpatient settings, to know the organizational forms of work and responsibilities of the surgeon;
- identify groups of healthy and sick people who are subject to dynamic monitoring, be able to fill in the relevant documentation; to make a plan of diagnostic and rehabilitation measures for a certain diseases;

- know the risk factors for major diseases of the internal organs in children and adults, be able to identify, interpret, plan necessary preventive measures;
- master the methods of diagnosis and outpatient treatment of the main most common surgical diseases of internal organs, soft tissues, bones and joints, as well as traumatic injuries;
- draw up the necessary documentation of different specialists in polyclinics.

# 3. CONTENT OF PROGRAM "PRACTICAL TRAINING IN THE SURGICAL OUTPATIENT DEPARTMENT (POLYCLINICS)"

PROGRAM OF "PRACTICAL TRAINING IN THE SURGICAL OUTPATIENT DEPARTMENT"

| <u>№</u>  | The content of practical training  | Days |
|---|--|------|
| patients and injur<br>surgical patients<br>examination of p<br>Determining the<br>results. Establish    | anization of elective and urgent surgical care for red in outpatient settings. Outpatient admission of and injured. Conducting a survey and physical patients. Filling in the outpatient medical card. scope of additional examinations, evaluation of hing a preliminary diagnosis. Determining the er treatment, rehabilitation, prevention. Labor | 1    |
| trauma, polytraur outpatient settings  2. Indications for h pathology in outpathology                   | gy of the chest and abdomen. Blunt abdominal ma. Differential diagnosis of "acute abdomen" in s. Uncomplicated and complicated ventral hernias. nospitalization of surgical patients. Angiological atpatient settings. Neoplasms of the skin and sue. Interpretation of laboratory and instrumental  | 1    |
| Phlegmons of the and treatment of   | diseases of skin and soft tissue, bones and joints. e hands and feet. Mastitis. Erysipelas. Diagnosis f diseases of the rectum. Urological pathology, atient treatment. Rehabilitation and rehabilitation atient settings.   | 1    |
| Trauma. Organiz<br>polyclinic. Featur<br>polytrauma. Pathe<br>4. diagnosis and trea<br>examination of t | zation of work of the traumatologist of the res of outpatient tactics for isolated injuries and ology of the musculoskeletal system, methods of atment. Work in the emergency room of the clinic: the patient, identification of syndromes and the gencies. Rehabilitation of the injured.   | 2    |
| Total   |  | 5    |

### Topic 1

Principles of organization of elective and urgent surgical care for patients and injured in outpatient settings. Outpatient admission of surgical patients and injured. Conducting a survey and physical examination of patients. Filling in the outpatient medical card. Determining the scope of additional examinations, evaluation of results. Establishing a preliminary diagnosis. Determining the tactics of further treatment, rehabilitation, prevention. Labor forecast.

Getting acquainted with the work and studying the documentation of specialized offices of the polyclinic: trauma, urology, proctology, etc., physiotherapy department, laboratory, day and home hospitals of the polyclinic.

Examination of the patients. Survey and physical examination of patients. Filling in patients' records and other medical records. Determination of further research evaluation. Making a preliminary diagnosis. Planing tactics of further treatment and rehabilitation, disability of patient. Participation in the prophylactic examinations of patients and clinical observation. Conducting invasive manipulations, assistance at outpatient operations, paracentesis, puncture of the pleural cavity, wound dressings, preparation of patients for CT, MRI, X-ray and endoscopic examinations. Working in the office while performing upper GI endoscopy, sigmoidoscopy, colonoscopy, bronchoscopy. Participation in ultrasound examination and its clinical interpretation. Analysis of the results of the X-ray chest and abdominal film, mammography, CT, angiography etc. Monitoring and treatment of patients in the outpatient department after surgery. Postoperative management of patients. Filling in sick leaves.

Ethics and deontology in the practice of surgeon of outpatient department.

### Topic 2

Surgical pathology of the chest and abdomen. Blunt abdominal trauma, polytrauma. Differential diagnosis of "acute abdomen" in outpatient settings. Uncomplicated and complicated ventral hernias. Indications for hospitalization of surgical patients. Angiological pathology in outpatient settings. Neoplasms of the skin and subcutaneous tissue. Interpretation of laboratory and instrumental research data.

Epidemiology of surgical pathology of abdominal organs, etiology and pathogenesis, methods of active detection, classification, standards of examination of patients and their rehabilitation, dispensary observation of people with risk factors and patients, the effectiveness of primary and secondary prevention.

Determination of nosological forms, methods of active detection of early manifestations of surgical pathology of abdominal organs, thoracic and vascular surgical pathology, standards of examination of patients depending on the nosological form according to ICD 10, dispensary observation of patients with different clinical forms, stages of rehabilitation.

Interpretation of radiography and radioscopy of the chest, gastrointestinal tract, gallbladder and kidneys, esophagogastroduodenoscopy, colonoscopy, ultrasonography.

Learning the methods of diagnosis and treatment of ventral hernias in an outpatient setting.

Acquaintance with the organization of work of the oncologist; features of diagnosis and treatment tactics for neoplasms of the skin and subcutaneous tissue in the surgical department of the clinic.

### Topic 3

Purulent surgical diseases of skin and soft tissue, bones and joints. Phlegmons of the hands and feet. Mastitis. Erysipelas. Diagnosis and treatment of diseases of the rectum. Urological pathology, features of outpatient treatment. Rehabilitation and rehabilitation treatment in outpatient settings.

Survey and physical examination of patients with acute purulent infection. Filling in the patients' records. Plan of further patients research. Making preliminary diagnosis of purulent diseases of skin and soft tissues, bones and joints, phlegmon, gangrene of hand and foot, mastitis, erysipelas, pararectal abscess and external fistulas. Tactics of further treatment and patients disability. Diabetes melitus and vascular pathology in surgery. Work in the dressing room - wound dressings, draining of abscesses, primary wounds debridement. Carrying out of the home department. Rehabilitation and restorative treatment in outpatients conditions.

Organization of the proctology office, diagnosis and treatment of diseases of the rectum and soft tissues of the perineum.

Organization of urological office, diagnosis and treatment of diseases of the genitourinary system in an outpatient setting.

### Topic 4

Trauma. Organization of work of the traumatologist of the polyclinic. Features of outpatient tactics for isolated injuries and polytrauma. Pathology of the musculoskeletal system, methods of diagnosis and treatment. Work in the emergency room of the clinic: examination of the patient, identification of syndromes and the presence of emergencies. Rehabilitation of the injured.

Acquaintance with the organization of emergency care for surgical patients and injured in outpatient and outpatient settings, study of indications and rules of hospitalization for urgent needs.

Carrying out invasive manipulations, performing bandages, applying immobilization plaster bandages, assisting in outpatient operations, self-conducting of primary wound debridement and small-scale interventions.

Determination of nosological forms of traumatic injuries, standards of examination of patients, depending on the nosological form according to ICD 10, emergency care, dispensary observation of patients with various clinical forms, stages of rehabilitation of patients.

Establishment of indications for hospitalization, principles and features of transport immobilization and transportation of victims with isolated injuries and polytrauma, anti-shock measures.

Execution of certificates for sanatorium treatment and sanatorium cards.

Topic 5
Diagnosis of emergency conditions and urgent care in outpatient department. Differentiated credit

Examination of the patient, diagnosis of the main syndromes in emergency conditions and first aid for patient with asphyxia (puncture of the trachea and tracheostomy), pulmonary embolism, shocks, acute abdomen, external bleeding. Assessment of patient condition, transport immobilization of patients with fractures.

Demonstration of practical and professional skills on the patient, in the dressing room, diagnostic offices. Differentiated credit.

# 4. THE LIST OF PRACTICAL SKILLS THAT STUDENT MUST ACQUIRE DURING PRACTICES AND THEIR EVALUATION IN POINTS \*

| №   | Practical skill   | Points |
|-----|---|--------|
| 1.  | Conducting medical reception in the polyclinic under the supervision of a surgeon and drawing up documents.   | 3-5    |
| 2.  | Drawing up of protocols of operations, the log invasive manipulations and immobilizations.  | 3-5    |
| 3.  | Registration of an outpatient medical card and epicrisis.   | 3-5    |
| 4.  | Providing medical care to patients at home under the supervision of a surgeon.  | 3-5    |
| 5.  | Carrying out the organization of a home hospital, and the necessary additional examinations, consultations at home.   | 3-5    |
| 6.  | Providing medical care in the day hospital of the polyclinic under the supervision of the surgeon.  | 3-5    |
| 7.  | Shift in the emergency room of the polyclinic.  | 3-5    |
| 8.  | Organization of care at home and in outpatient settings, study of the rules of hospitalization in an emergency, the issuance of emergency reports of surgical parasitic diseases. | 3-5    |
| 9.  | Registration of temporary incapacity for work, certificate of temporary incapacity for work (sick leave).   | 3-5    |
| 10. | Conducting dispensary observation of patients and people with disabilities (accounting by diseases, conducting scheduled  | 3-5    |

|     | examinations of patients, treatment, consultations of narrow specialists)  |     |
|-----|--|-----|
| 11. | Writing recipes.   | 3-5 |
| 12. | Diagnosis and differential diagnosis of surgical pathology of the abdominal cavity, providing medical care, establishing indications for hospitalization.  | 3-5 |
| 13. | Diagnosis and outpatient treatment of acute purulent diseases of skin and soft tissues, bones and joints.  | 3-5 |
| 14. | Planning of physiotherapeutic treatment, health-improving measures, restorative nutrition, sanatorium-and-spa selection for various diseases, registration of certificates for the needs of sanatorium-and-spa treatment and sanatorium-and-spa cards. | 3-5 |
| 15. | Providing emergency medical care for fractures, dislocations, bleeding   | 3-5 |
| 16. | Diagnosis and urgent medical care in patients with urgent surgical pathology.  | 3-5 |
| 17. | Dressing assistance: local anesthesia, suturing and removal of sutures.  | 3-5 |
| 18. | Carrying out laparocentesis, puncture of the pleural cavity.   | 3-5 |
| 19. | Preparation of the patient for carrying out and interpretation of results of esophagogastroduodenoscopy, colonoscopy.  | 3-5 |
| 20. | Conducting (interpretation of results) ultrasound examination of the abdominal cavity  | 3-5 |
| 21. | Conducting (interpretation of results) ultrasound examination of the abdominal cavity.   | 3-5 |
| 22. | Interpretation of results of laboratory and instrumental examinations.   | 3-5 |
| 23. | Assistance in surgical interventions.  | 3-5 |
| 24. | Personal performance of primary wound debridement and small-scale outpatient operations.   | 3-5 |

<sup>\* -</sup> practical skills are recorded in the daily report. Results are displayed in the consolidated statement of practical training in the department and in the characterization of representative of outpatient department and must be proven by a teacher of the university.

- 5 points performance of a practical skill without mistakes;
- 4 points performance of a practical skill with some mistakes, corrected by a student him/herself;
- 3 points performance of a practical skill with some mistakes, corrected by a teacher;
- 0 point practical skill not performed.

### List of theoretical questions for Practical training differentianed credit

- 1. Organization of work and structure of surgical diseases in outpatient surgical department.
- 2. The main symptoms that are typical for acute surgical diseases of the lung and pleura, biliary ducts, pancreas, esophagus, stomach, small and large intestines, appendix.
- 3. Clinical picture and differential diagnosis of acute appendicitis.
- 4. Differential diagnosis of abdominal hernias.
- 5. Diagnosis of strangulated hernia.
- 6. Diagnosis of gallstone disease and its complications.
- 7. Diagnosis of of acute cholecystitis and its complications.
- 8. Differential diagnosis of acute pancreatitis.
- 9. Complications of acute pancreatitis.
- 10. Clinic picture of typical perforated ulcer.
- 11. Clinical signs, diagnosis and differential diagnosis of chronic pancreatitis.
- 12. Classification and peculiarities of atypical perforated ulcer.
- 13. Classification, etiology and pathogenesis of gastrointestinal bleeding.

- 14. Differential diagnosis of peptic ulcer bleeding.
- 15. Diagnosis of acute intestinal obstruction.
- 16. Adhesive disease; chronic intestinal obstruction.
- 17. Diagnosis of acute peritonitis.
- 18. Classification, etiology and pathogenesis of obliterating diseases of lower extremity arteries.
- 19. Classification of chronic ischemia and occlusion of major arteries in obliterating atherosclerosis.
- 20. Classification and manifestations of acute ischemia depending on the level of occlusion of main arteries.
- 21. Rehabilitation of patients who underwent reconstructive surgery on the aorta and main arteries.
- 22. Diagnosis of and thrombophlebitis and phlebothrombosis.
- 23. Clinical characteristics and diagnosis of chronic venous insufficiency.
- 24. Treatment of dermatitis, eczema and trophic ulcers caused by chronic venous insufficiency.
- 25. Indications for surgical treatment of varicose veins of the lower extremities.
- 26. Etiology, pathogenesis of postthrombophlebitic syndrome.
- 27. The clinical signs, diagnosis, treatment and prevention of purulent skin and sort tissues diseases (furuncle, carbuncle, hydradenitis, abscess, cellulitis, erysipelas, lymphadenitis).
- 28. Classification and clinical types of paronychium.
- 29. Treatment of different types of paronychium.
- 30. Clinical picture, diagnosis and treatment of abscesses of hand.
- 31. Clinical signs and diagnosis of osteomyelitis.
- 32. Clinical picture, surgical treatment pararectal abscess.
- 33. Clinical picture, surgical treatment of hemorrhoids.
- 34. Differential diagnosis of diseases of the anorectal area.
- 35. Clinical signs, diagnosis and surgical treatment of atheroma, dermoid cyst, lipoma, fibroma and other benign tumors of the skin and subcutaneous tissue.
- 36. Disability expertise.
- 37. Diagnosis of injuries in patient with blunt thoracic trauma.
- 38. Diagnosis of injuries in patient with blunt abdominal trauma.
- 39. Clinical picture, diagnosis and first aid for fractures and dislocations.
- 40. Diagnosis of blunt head injury.
- 41. Methods for determining the degree of blood loss.
- 42. Determination of hemorrhagic and traumatic shock in terms of blood pressure and pulse.
- 43. Determination of burns and frostbite degree.
- 44. Expertise of disability for injuries.
- 45. Methods of assessing the results of X-ray of the chest and plain radiography of the abdomen.
- 46. Evaluation of homeostasis laboratory testing (biochemical test, fluid-electrolit balance, etc.).

### DAILY REPORTS ON CLINICAL PRACTICE IN THE DEPARTMENT OF SURGERY (an example)

| Student               |     |              | Year Group   |
|-----------------------|-----|--------------|--------------|
| Practice period: from | 202 | till         | 202 .        |
| Hospital              |     |              | City         |
|                       |     |              | •            |
| Supervisor            |     |              |              |
|                       |     |              | (sign, seal) |
| Head doctor           |     |              |              |
|                       |     | (sign, seal) | )            |

| Date, time | Content of work   | Skills |
|------------|---|--------|
| 8.00-8.30  | Was present on the morning conference. Delivered news and remarks |        |

|             | regarding medical and insurance documentation.  |  |
|-------------|---|--|
| 8.30-10.00  | A new patient was examined and treated in the surgeons (traumatologist  |  |
|             | etc) office of polyclinics – Last name F. M., age, profession. Upon   |  |
|             | admission, complains of dull and aching pain in the right subcostal area,   |  |
|             | paroxysms of acute pain with nausea, vomiting, increased body   |  |
|             | temperature to 37.5° C. Duration of illness is three years. Attack is associated with improper diet. Earlier was investigated and treated at an |  |
|             | internal therapist. US revealed stones in the gallbladder. No jaundice was  |  |
|             | present. Indications for hospitalisation.   |  |
|             | <b>Objective:</b> (in a compressed for compile the main results of  |  |
|             | patients observation, palpation, auscultation, the appearance of  |  |
|             | specialized symptoms).  |  |
|             | The grounds of diagnosis: Based on the patient's complaints (list   |  |
|             | complaints), anamnesis morbid (main information regarding the illness),   |  |
|             | the results of previous investigations (provide concrete results) a   |  |
|             | diagnosis of chronic calculous cholecystitis could be established.  |  |
|             | For the additional investigation and preparation of the patient for surgery it is necessary to (provided a concrete plan).                      |  |
|             |   |  |
|             | Indications to surgery. It is necessary to state on which grounds the   |  |
|             | surgical performance is needed for the patient, state the method of anaesthesia, approach for the surgical performance, specialized features    |  |
|             | and volume of the surgery in the particular patient, risks in case of   |  |
|             | complications, prophylactic of surgery; blood group, Rh factor,   |  |
|             | information about informed consent for the surgery from the patient.  |  |
| 10.00-13.30 | Curation of the previous patients. Patient, three days after primary  |  |
|             | wound debridemtn. Body temperature – 36.9° C. Bandaging: good wound   |  |
|             | healing, no oedema of skin around the wound, the wound is being filled  |  |
|             | with granulation tissue and healing with secondary intention.   |  |
| 13.30-15.00 | Assisted in reposition of radius after close fracture (Patient, 23 years  |  |
|             | old; diagnosis –).  |  |
|             | In one day: Observed six patients, rebadged three patients, assisted in one operation, etc.   |  |
|             | operation, etc.   |  |

Students signature and the corresponding doctor.

The given example of filling out the daily record could be changed, depending on the diagnosis of the patients, organization of the diagnostic-treatment measures in the department (unit) of polyclinic. However, the daily record must provide the complete picture about the work of the student in the department.

At the end of the daily record from the cycle "Surgery", the patients visited by the students are listed with the appropriate diagnosis alongside practical skills that the student acquired.

### PRACTICAL TRAINING GRADE

| <b>Total score for:</b> |               |             | Traditional |      | Teacher's |
|-------------------------|---------------|-------------|-------------|------|-----------|
| Performance of skills   | Final control | Total score | grade       | Date | signature |
|                         |               |             |             |      |           |

| Supervisor of | Practical | training | from | University |
|---------------|-----------|----------|------|------------|
|               |           |          |      |            |

(signature) (name)

Summary digital report on practical skills for evaluation in the cycle "Main responsibilities and professional actions of a doctor of a surgical department of outpatient hospital"

| №   | Skills   | Recommende<br>d mark | D-r's<br>Signature |
|-----|--|----------------------|--------------------|
| 1.  | Conducting medical reception in the polyclinic under the supervision of a surgeon and drawing up documents.  |                      |                    |
| 2.  | Drawing up of protocols of operations, the log invasive manipulations and immobilizations.   |                      |                    |
| 3.  | Registration of an outpatient medical card and epicrisis.  |                      |                    |
| 4.  | Providing medical care to patients at home under the supervision of a surgeon.   |                      |                    |
| 5.  | Carrying out the organization of a home hospital, and the necessary additional examinations, consultations at home.  |                      |                    |
| 6.  | Providing medical care in the day hospital of the polyclinic under the supervision of the surgeon.   |                      |                    |
| 7.  | Shift in the emergency room of the polyclinic.   |                      |                    |
| 8.  | Organization of care at home and in outpatient settings, study of the rules of hospitalization in an emergency, the issuance of emergency reports of surgical parasitic diseases.  |                      |                    |
| 9.  | Registration of temporary incapacity for work, certificate of temporary incapacity for work (sick leave).  |                      |                    |
| 10. | Conducting dispensary observation of patients and people with disabilities (accounting by diseases, conducting scheduled examinations of patients, treatment, consultations of narrow specialists)   |                      |                    |
| 11. | Writing recipes.   |                      |                    |
| 12. | Diagnosis and differential diagnosis of surgical pathology of the abdominal cavity, providing medical care, establishing indications for hospitalization.  |                      |                    |
| 13. | Diagnosis and outpatient treatment of acute purulent diseases of skin and soft tissues, bones and joints.  |                      |                    |
| 14. | Planning of physiotherapeutic treatment, health-improving measures, restorative nutrition, sanatorium-and-spa selection for various diseases, registration of certificates for the needs of sanatorium-and-spa treatment and sanatorium-and-spa cards. |                      |                    |
| 15. | Providing emergency medical care for fractures, dislocations, bleeding   |                      |                    |
| 16. | Diagnosis and urgent medical care in patients with urgent surgical pathology.  |                      |                    |
| 17. | Dressing assistance: local anesthesia, suturing and removal of sutures.  |                      |                    |
| 18. | Carrying out laparocentesis, puncture of the pleural cavity.   |                      |                    |
| 19. | Preparation of the patient for carrying out and interpretation of results of esophagogastroduodenoscopy, colonoscopy.  |                      |                    |

| 20. | Conducting (interpretation of results) ultrasound examination of the abdominal cavity    |  |        |
|-----|--|--|--------|
| 21. | Conducting (interpretation of results) ultrasound examination of the abdominal cavity.   |  |        |
| 22. | Interpretation of results of laboratory and instrumental examinations.                   |  |        |
| 23. | Assistance in surgical interventions.  |  |        |
| 24. | Personal performance of primary wound debridement and small-scale outpatient operations. |  |        |
|     | Total  |  | 72-120 |

| Signature | of surgeon |  |
|-----------|------------|--|
|           |            |  |

# Criteria for evaluation of practical skills performance:

- 5 points performance of a practical skill without mistakes;
- 4 points performance of a practical skill with some mistakes, corrected by a student him-/herself
- 3 points performance of a practical skill with some mistakes, corrected by a teacher.
- 0 point practical skill not performed.

### 4. FORMS OF CONTROL

Forms of control and evaluation system is carried out according to Regulation on the practical training of students of Danylo Halytsky Lviv National Medical University, Approved with the Scientific Council of Danylo Halytsky Lviv National Medical University on 16.09.2015 report №8-BP.

Mark for for the Practical training is defined as the sum of the scores of practical skills performance (in points) and assessment of the final differentiated credit (in points), which is calculated on the basis of assessment of theoretical knowledge, practical skills and professional abilities, according to the lists specified by discipline program.

Maximum points awarded to student during each module (examination credit) equals 200 points, including: practical skills – from minimal required 72 points to maximal 120 points (60%), results of the differentiated credit – from minimal required 50 points to maximal 80 points (40%).

# Maximal amount that can be collected by student during Practical training is 120 points. Final module control:

Final module control is carried out on completion of all topics at the last class in module.

Students, who completed all types of work provided by discipline program and scored amount of points not less than the minimum, allowed for final testing.

# Conversion of points of discipline in rating on a scale ECTS and a four-points scale (traditional):

The number of points of the discipline, which accrued student, converted to ECTS scale as follows:

| Mark ECTS | Statistical index    |
|-----------|----------------------|
| A         | Best 10% of students |
| В         | Next 25% of students |
| C         | Next 30% of students |
| D         | Next 25% of students |
| Е         | Last 10% of students |

The number of points for the discipline should be converted to a four-point scale by absolute criteria as explained in the table below:

| Points for discipline  | Mark according to four-point scale |
|------------------------|------------------------------------|
| From 170 to 200 points | excellent (5)                      |
| From 140 to 169 points | good (4)                           |
| From 122 to 139 points | satisfactory (3)                   |
| 121 and less           | unsatisfactory (2)                 |

Evaluation of ECTS in traditional is not converted as ECTS scale and four-point scale are independent.

During the clinical practical training, a student is personally responsible for the assigned task and its results, he/she as well as staff (doctors and other medical workers) must fully understand the legal significance of their actions and prevent any violations. During practice the student is subject to internal labour regulations in the hospital. Student-trainees, such as assistant physicians, should know that violations of labour and educational discipline lead to disciplinary responsibility. Student should be aware that there are a number of professional offenses for which the law anticipates criminal liability.

The final module of clinical practical training takes place on the last day after its termination or on the first week of the IX semester, if a student conducted practice abroad. The control of the modules is performed by teachers of professional departments.

#### REFERENCES

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- 4. Sabiston Textbook of Surgery / C. Townsend, R.D. Beauchamp, B.M.Evers, K. Mattox ed. 20<sup>th</sup> ed. Elsevier, 2016. 2176 p
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