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**INDIVIDUAL TASK**  
**for the formation of competencies established by the work program**  
**manufacturing practice**  
**(research work)**

student 3rd grade 34 group of medical faculty  
specialty 31.05.01 General medicine  
Jagadeesan Dharmalingam  
(Name of student)

The term of passing of practice: from 09/07/11 at 12/09/19 year.

Base of practice: "stationary" part – the Department of normal physiology of VSTU (Volgograd);

Head of practice from VolSMU: associate Professor of normal physiology Department of VSMU FGBOU OF The Ministry of health of Russia, PhD Svetlana Bolotova

Contact phone number of the Department of normal physiology: +7 (8442) 38-53-65

**THE CONTENT OF PRACTICE**

Procedure of practice:


- 1) duration of practice is 4 days (36 hours./1 h. eh.);
- 2) the student works as a student-researcher under the guidance of the responsible for the practice; the head of the practice corrects and monitors its activities;
- 3) starting the internship, the student must familiarize himself with the internal regulations of the enterprise (organization, institution), be instructed on safety;
- 4) the student keeps a diary with daily records of the work done, prepares a report and a presentation of the report on the results of research work;
- 5) the practice ends with an interim certification, the time of which is set by the schedule of the educational process.

**The purpose of practical training (research work):**

practical training of students and the formation provided by the GEF IN General professional and professional competencies: the formation of research skills in the professional field and skills of practical implementation of the results of theoretical and experimental studies.

**Main tasks of the practice:**

- to form skills of abstracting, review and analysis of scientific sources, generalization and criti-

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- cal evaluation of the results of scientific-theoretical and empirical research;
- to form the skills of scientific research planning on the basis of General methodological principles of research;
  - to develop skills of analysis of research results, their generalization and critical evaluation in the light of existing modern research;
  - to form skills of registration and presentation of the results of scientific work in oral and written form.

#### THE PLANNED RESULTS OF THE PRACTICE

In the process of practical training (research work) the student must:


**Know:**

- types and methods of evaluation of scientific sources of information;
- features of the scientific text and requirements for its design;
- the algorithm of drawing up and review of monographic essay;
- ways of presenting scientific results;
- the essence of research activities in medicine and health care;
- stages of scientific medical research and their content;
- design options for scientific medical research;
- the essence of errors in the results of scientific medical research and the causes of their occurrence;
- norms of international law, the main provisions of legal documents of the Russian Federation regulating research activities in medicine and health care, as well as work on the practical use and implementation of research results;
- principles of organization of work on the practical use and implementation of the results of scientific medical research;
- the nature and classification of costs associated with medical intervention;
- types of effectiveness of medical activity, their essence and content;
- clinical and economic features of scientific medical research;

**Know:**

- analyze and evaluate information from scientific sources;
- to make monographic and review essay on the research topic;
- analyze ways of representing numerical data in terms of speed of perception, data volume, logic;
- use text and graphic editors to present research results;
- create a presentation to the report on the results of the study;
- to plan for scientific medical research;
- to prepare a questionnaire for data collection by the survey method;
- create an electronic database for further mathematical and statistical analysis;
- analyze the relationship of features;
- analyze the dynamics of the phenomenon;
- foresee the appearance of errors in the results of scientific medical research and take measures



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to minimize them;

- evaluate medical interventions in terms of cost-benefit ratio and achieve results;
- to synthesize evidence of the effectiveness and safety of medical intervention with the patient's own clinical experience and preferences;
- to evaluate the effectiveness of its activities on the use of the practice of evidence-based medicine;

**Skill (activity experience):**

- design of the scientific text;
- numeric data type definitions;
- choosing the best way to represent numerical data (using different types of tables and charts);
- designing questionnaire questions;
- application of the basic rules of the questionnaire;
- sampling using different methods;
- application of the simplest methods of randomization in the formation of comparison groups;
- calculation and evaluation of a set of indicators based on the results of the observational (cohort) study;
- calculation and evaluation of a set of indicators based on the results of the pilot study;
- clinical and economic analysis;
- public presentation of the results of the study;
- connections of the found proofs with own clinical experience and specific circumstances;
- self-assessment of the effectiveness of its evidence-based (scientifically-based) clinical activities.

**Requirements for the results of the practice.**

**As a result of practical training (research work) the student must form the following competencies:**

**General cultural competences (GCC):**

- ability to abstract thinking, analysis, synthesis (GCC-1);
- readiness for self-development, self-realization, self-education, use of creative potential (GCC-5);

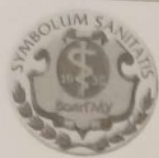
**General professional competence (GPC):**

- readiness to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies and taking into account the basic requirements of information security (GPC-1);
- readiness for communication in oral and written forms in Russian and foreign languages to solve the problems of professional activity (GPC-2);
- the ability to use the basics of economic and legal knowledge in professional activities (GPC-3);
- ability and willingness to analyze the results of their own activities to prevent professional errors (GPC-5);

**Professional competence (PC):**

**research activities:**

- readiness for analysis and public presentation of medical information on the basis of evidence-based medicine (PC-20);
- ability to participate in scientific research (PC-21);

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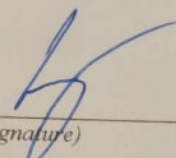
- readiness to participate in the introduction of new methods and techniques aimed at protecting the health of citizens (PK-22).

**Subject of individual tasks of educational and research work on production practice (research work) (the work is carried out in one direction):**

- 1) the physiology of sleep;
- 2) physiology of emotions;
- 3) higher nervous activity.

DEVELOPED:

Head of practice  
from the organization carrying out  
educational activity  
(from VolSMU)


  
\_\_\_\_\_  
(signature)

S. L. Bolotova

AGREED:

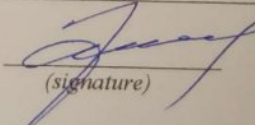
Head of practice  
from the profile of the enterprise,  
institutions, organizations  
(from the Department of normal physiology,  
(from VolSMU)  
Head. the Department of normal physiology



  
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(signature)

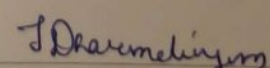
S. V. Klauchek

Approved at the meeting of the medical faculty UMK  
(Protocol No. \_\_\_ of \_\_\_\_\_ d.).

Dean   
\_\_\_\_\_  
(signature)

S. V. Klauchek


Individual task is accepted for execution  
Jagadeesan Dharmalingam  
(Name of student)

  
\_\_\_\_\_  
(signature of student)

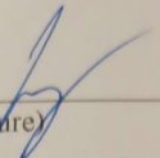
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A student in the fully realized individual task practice. The complex of knowledge and skills forming the competence of the program of practice is received.



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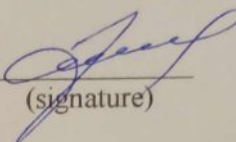
Head of practice  
from the organization carrying out  
educational activity  
(from VolSMU)

  
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(signature)

S. L. Bolotov

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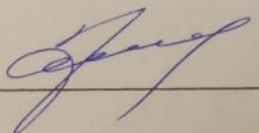
Head of practice  
from the profile of the enterprise,  
institutions, organizations  
(from the Department of normal physiology, VolSMU)  
Head. the Department of normal physiology

  
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(signature)

S. V. Klauchek

Discussed at a meeting of the Department of normal physiology, Protocol № \_\_\_ from  
« \_\_\_ » \_\_\_\_\_ 201\_\_

Head the Department of normal physiology

  
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S. V. Klauchek