

**MINISTRY OF SCIENCE AND HIGHER EDUCATION
RUSSIAN FEDERATION**

**FEDERAL STATE AUTONOMOUS EDUCATIONAL INSTITUTION OF
HIGHER EDUCATION
NORTH-CAUCASUS FEDERAL UNIVERSITY**

Methodological guidelines for organizing and conducting
practical training

Practical Training of General Medical Profile
for Students majoring (Specialty) in 31.05.01 General Medicine

1. Aims of the practical training

The aims of the practical training of general medical profile in specialty 31.05.01 General Medicine are to familiarize students with the basic principles of organizing treatment and preventive care for the population in outpatient settings, the features of the organization and scope of work of a district general practitioner and a general practitioner (family doctor), and the modern diagnostic capabilities of the outpatient service; to form an understanding of dispensary observation, primary and secondary prevention in outpatient settings, issues of medical expertise, and sanatorium-resort treatment.

2. Objectives of the practical training

The objectives of the introductory practical training in specialty 31.05.01 General Medicine are:

- The activities of medical personnel at all stages of treatment and care of surgical patients;
- The diagnostic capabilities of laboratory and instrumental methods of examination of surgical patients;
- The main stages of treatment of patients with the most common types of therapeutic diseases;
- The principles and methods of providing first medical pre-hospital care in emergency pathology and care for such patients.

Forms of conducting, types of practical training:

- types of practical training: practical training;
- types of practical training: practical training of general medical profile;
- methods of conducting practical training: stationary;
- forms of conducting practical training: discrete.

3. Place and time of the practical training

The practical training of surgical profile, in accordance with the curriculum, is conducted in the 6th year, 12th semester, for 6 weeks in the amount of 324 hours.

Venues of the practical training:

- educational laboratories of the Department of Propaedeutics of Internal Diseases, Faculty of Medicine and Biology, North Caucasus Federal University; State Budgetary Healthcare Institution of the Stavropol Territory "City Clinical Hospital No. 2" of Stavropol; State Budgetary Healthcare Institution "City Clinical Emergency Hospital" of Stavropol; State Budgetary Healthcare Institution of the Stavropol Territory "Stavropol Regional Clinical Perinatal Center No. 1" of Stavropol.

4. Requirements for the results of mastering the practical training

As a result of mastering the practical training program, the student must:

KNOW: types of sanitary treatment of patients, types of fevers, features of observation and care for patients with diseases of various body systems; requirements for the therapeutic and protective, sanitary and hygienic, and sanitary and epidemiological regimes of medical organizations.

BE ABLE TO: carry out sanitary treatment of a patient upon admission to the hospital and during the hospital stay, change the patient's bed linen and underwear, treat pressure ulcers; provide care for patients of different ages suffering from diseases of various organs and systems, and transport them; measure body temperature, daily diuresis, collect biological material from patients for laboratory tests; feed patients;

POSSESS: skills in the care work of junior medical personnel, taking into account the nature and severity of the disease.

5. List of competencies to be mastered

Code	Formulation
UC-1	Capable of carrying out a critical analysis of problem situations based on a system approach, and developing an action strategy.
UC-2	Capable of managing a project at all stages of its life cycle.
UC-3	Capable of organizing and leading the work of a team, developing a team strategy to achieve the set goal.
UC-4	Capable of applying modern communication technologies, including in foreign language(s), for academic and professional interaction.
UC-6	Capable of determining and implementing the priorities of one's own activity and ways to improve it based on self-assessment and lifelong learning.
UC-8	Capable of creating and maintaining safe life conditions in everyday life and professional activities to preserve the natural environment, ensure sustainable development of society, including under threat and occurrence of emergency situations and military conflicts.
UC-9	Capable of employing basic defectological knowledge in social and professional spheres.
UC-10	Capable of making informed economic decisions in various areas of life.
UC-11	Capable of forming an intolerant attitude toward manifestations of extremism, terrorism, and corrupt behavior, and counteracting them in professional activity
GPC-1	Capable of implementing moral and legal norms, ethical and deontological principles in professional activity.
GPC-2	Capable of conducting and monitoring the effectiveness of measures for prevention, healthy lifestyle development, and sanitary-hygienic education of the population.
GPC-4	Capable of applying medical devices provided for by the procedure for rendering medical care, as well as conducting examinations of the patient in order to establish a diagnosis.
GPC-5	Capable of assessing morphofunctional, physiological states, and pathological processes in the human body to solve professional tasks.
GPC-6	Capable of organizing care for patients, providing primary health care, ensuring the organization of work, and making professional decisions in emergency conditions at the pre-hospital stage, in conditions of emergencies, epidemics, and in centers of mass destruction.
GPC-7	Capable of prescribing treatment and monitoring its effectiveness and safety.
GPC-8	Capable of implementing and monitoring the effectiveness of medical rehabilitation of the patient, including the implementation of individual programs of rehabilitation and habilitation of disabled persons, and assessing the patient's ability to carry out labor activity.
GPC-10	Capable of understanding the principles of operation of modern information technologies and using them to solve tasks of professional activity.
GPC-11	Capable of preparing and applying scientific, research-production, project, organizational, managerial, and regulatory documentation in the healthcare system.
PC-1	Ready to participate in the provision of urgent medical care in states requiring urgent medical intervention.
PC-2	Ready to collect and analyze patient complaints, data of their medical history, examination results, laboratory, instrumental, pathological-anatomical, and other

	investigations to recognize a condition or establish the fact of presence or absence of a disease.
PC-3	Capable of determining the patient's main pathological conditions, symptoms, disease syndromes, and nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, 10th Revision.
PC-4	Capable of determining the management tactics for patients with various nosological forms.
PC-5	Ready for the management and treatment of patients with various nosological forms in outpatient conditions and day-care hospital conditions.
PC-6	Ready to detect the need for applying natural healing factors, medicinal, non-medicinal therapy, and other methods in patients requiring medical rehabilitation and health resort treatment.
PC-7	Capable and ready to carry out a set of measures aimed at preserving and strengthening health, including the formation of a healthy lifestyle, prevention of occurrence and (or) spread of diseases, their early diagnostics, identification of causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful influence of environmental factors on human health.
PC-8	Ready for educational activity to eliminate risk factors and form healthy lifestyle skills.
PC-9	Capable of applying basic principles of organization and management in the sphere of citizens' health protection, in medical organizations, and their structural subdivisions.
PC-10	Ready to get involved in the assessment of the quality of medical care provision using basic medical-statistical indicators.
PC-11	Ready for the analysis and public presentation of medical information based on evidence-based medicine.
PC-12	Capable of participating in conducting scientific research and introducing results into practical healthcare.
PC-13	Capable of carrying out laboratory and instrumental research methods to study properties of substances and processes involving them, processing and interpreting results obtained using theoretical knowledge and practical skills in solving natural science tasks.

6. Structure and content of the practical training

The total workload of the practical training is 9 credits (324 hours). The practical training is implemented in the sixth year of study over four weeks.

The practical training of therapeutic profile contains a number of key stages:

- organization of the practical training and the preparatory stage;
- practical work;
- office processing of material in laboratory conditions;
- preparation of the practical training report.

7. Tasks and the procedure for their completion

The main types of work performed by students during the practical training are:

1. Describe the setup and operation of a treatment room.
2. How to carry out cleaning and quartz treatment of a treatment room.
3. Describe the performance of routine and final cleaning of premises.
4. Describe the rules for storing medicinal products. The rules for distributing medicinal products.
5. List the routes of administration of medicinal products.
6. Describe the preparation of a system for intravenous drip infusions.

7. Technique of subcutaneous and intradermal injections.
8. Hand hygiene of medical personnel.
9. Primary processing of syringes.
10. Rules for the storage and use of disinfectant solutions. Labeling of cleaning equipment.
11. Methods for the prevention and reduction of viral hepatitis morbidity.
12. Transportation of patients.
13. Motor regimens. The position of the patient in bed in various diseases.
14. Making a bed. Changing underwear and bed linen.
15. Use of functional beds. Making a bed.
16. Features of observation and care for patients with kidney diseases.
17. Observation and care for patients with urinary retention.
18. Observation and care for patients with urinary incontinence.
19. Preparation of patients for instrumental examinations of the urinary system.
20. Skin care, prevention and treatment of pressure ulcers.
21. Oral care, eye and hair care.
22. Instillation of drops into the eyes, nose, ears.
23. Hair care, eye care, oral care.
24. Measurement of the patient's height and body weight.
25. Measurement of chest circumference.
26. Counting the number of respiratory movements.
27. Transportation of a patient in a wheelchair, on a stretcher-trolley, and manually (on a stretcher).
28. Changing underwear and bed linen for a seriously ill patient.
29. Providing a bedpan.
30. Washing a patient.
31. Performing oral, nasal, and ear toilet.
32. Measurement of body temperature and recording of measurement data in a temperature chart.
33. Provision of first pre-medical aid in case of sudden shortness of breath (suffocation).
34. Collection of sputum for laboratory examination.
35. Performing oxygen therapy by various methods.
36. Ability to use a pocket inhaler.
37. Determination of the characteristics of the arterial pulse on the radial artery.
38. Measurement of blood pressure.
39. Recording of the results of the arterial pulse and blood pressure examination in a temperature chart.

9. Form of submission of the practical training report with an assessment

For the credit, the following are submitted:

- a) a report on the results of the practical training, in which all materials must be reflected;
- b) a report on the topic of independent work, a presentation, and an oral report on it at the final conference.

The credit is given to the student for completing all types of planned work. The practical training materials are submitted to the department and are subsequently used by students when writing course and diploma papers and scientific reports.

10. Criteria for awarding grades

"5" (excellent) — the practice schedule was observed; all tasks were completed, no remarks on the design of the diary and the presentation of the material;

"4" (good) — the practice schedule was observed; 80% of the total number of tasks were completed, minor remarks / no remarks on the design of the diary and the presentation of the material;

"3" (satisfactory) — the practice schedule was observed; 70% of the total number of tasks were completed, there are remarks on the design of the diary and the presentation of the material;
"2" (unsatisfactory) — the practice schedule was observed; less than 70% of the total number of tasks were completed, there are gross errors in the presentation of the material, and remarks on the design of the diary.

11. Educational, methodological and informational support of the practical training Classroom for conducting seminar-type classes (laboratory work)

A classroom equipped with specialized furniture and technical teaching aids: a board, a computer.

Laboratory equipped with laboratory equipment:

1. Automatic selective biochemical analyzer
2. Platelet aggregation analyzer
3. Water bath TW2-0.2
4. Hemocoagulometer TROMB-1
5. Hematology analyzer
6. Laser scarifier ERMED-304
7. Device for staining smears UFOMK-01 "Eiliton"
8. 1-channel variable volume pipette, color 0.5-10
9. 1-channel variable volume pipette, color 100-1000
10. 1-channel variable volume pipette, color 20-200
11. Medical shaker S series, model ST-3L
12. Centrifuge SM-6M with a 6-place rotor

Classroom for conducting seminar-type classes (laboratory work)

A classroom equipped with specialized furniture and technical teaching aids: a board, a computer.

Laboratory equipped with laboratory equipment:

1. Microscopes
2. Sets of reagents and dyes
3. Fume hood
4. Automatic plate washer "Akvmarin"
5. Thermostat TS-180
6. ELISA Spectrophotometer
7. Anaerostat
8. Refrigerator Indesit
9. Colony counter
10. Electric stove
11. Gas burners
12. Laboratory centrifuge OPn-3 "Dastan"
13. Shaker ST-3 for ELISA
14. Bactericidal irradiator

Classroom for conducting seminar-type classes (laboratory work)

A classroom equipped with specialized furniture and technical teaching aids: a portable laptop, a projector, a board.

Laboratory equipped with laboratory equipment:

1. Medical stadiometer SH-8053
2. Dry portable spirometer SSP
3. Tonometer "Periscan" device
4. Polyclinic audiometer AA-02
5. Electronic floor scales VMEN-150
6. Technical pharmacy scales up to 1 kg VA-4M with a set of weights (10 mg - 100 g)
7. Hand dynamometer DK-100

8. Hand dynamometer DK-25
9. Hand dynamometer DK-50
10. Back dynamometer DS-200
11. Mechanical metronome MP80BE 3 302
12. Desktop perimeter PNR-2
13. Portable spirometer MIR with oximeter
14. Upper-level Powerlab Lab Chart systems with an additional set of sensors
15. Psychophysiological testing device UPFT-1/30
16. Exercise bike, bicycle ergometer
17. Luxmeter Yu-116
18. Goniometer (P)
19. Cardiopulmonary and cerebral resuscitation trainer "Maxim-III-01"
20. Physiological couch
21. Projector
22. Laptop
23. Single-beam scanning spectrophotometer "SF-103"
24. Semi-automatic programmable photometer-fluorimeter-chemiluminometer "Fluorat-02-ABLF"
25. Laser therapy device "Standart"
26. Dosimeter-radiometer MKS-03SA

Educational and scientific laboratory

A classroom equipped with specialized furniture.

Laboratory equipped with laboratory equipment:

1. Upper-level Powerlab Lab Chart systems with an additional set of sensors
2. "Periscan" device
3. Analyzer "Fluorat-02-ABLF-T" (complete set)
4. Biochemical analyzer (complete set)
5. Enzyme immunoassay analyzer
6. Psychophysiological testing device UPFT-1/30 "Psychophysilogist"
7. Analyzer "Fluorat-02-ABLF-T" (complete set)
8. Biochemical analyzer (complete set)
9. Enzyme immunoassay analyzer
10. Educational laboratory device Microtome MZP 01 Technom
11. Microscope "MIKMED-1-var. 1"
12. Microscope-spectrophotometer MSFU-K
13. Educational laboratory device Microtome MZP 01 Technom
14. Photometer FBS-01-02 (Microlab-540)
15. Digital biological microscope Moyic DMBA-310 based on BA 300 microscope
16. Electrosurgical device
17. Barochamber
18. Dry heat oven
19. Classic thermostat
20. Thermo-shaker ST-60HL
21. Torsion scales VT 1000
22. Photoelectrocolorimeter
23. Microtome MPS 2
24. Complex for analyzing heart rate variability VARICARD

Classroom for conducting seminar-type classes (laboratory work)

A classroom equipped with specialized furniture and technical teaching aids: a portable laptop, a board.

Laboratory equipped with laboratory equipment:

Set of macro-preparations:

- 1 - Atherosclerosis of the aorta
- 2 - Hemorrhagic infarction of the lung
- 3 - Glandular hyperplasia of the uterine mucosa
- 4 - Fatty degeneration of the liver
- 5 - Ischemic infarction of the spleen
- 6 - Gallstones
- 7 - Hemorrhage into the brain
- 8 - Renal anemia in case of anemia
- 9 - Micronodular cirrhosis of the liver
- 10 - Rheumatic recurrent verrucous endocarditis
- 11 - Nutmeg liver
- 12 - Renal infarctions
- 13 - Thrombi in the veins of the extremities
- 14 - Fibrinous tracheitis
- 15 - Uterine fibromyoma
- 16 - Phlegmonous appendicitis
- 17 - Cerebrospinal purulent leptomeningitis
- 18 - Cyanotic induration of the kidneys and spleen
- 19 - Small intestine ulcers in typhoid fever
- 20 - Amebic processes in the liver
- 21 - Renal amyloidosis
- 22 - Atherosclerosis and aneurysm of the abdominal aorta
- 23 - Atherosclerotic nephrosclerosis
- 24 - Saucer-shaped stomach cancer
- 25 - Bronchiectasis and pneumosclerosis
- 26 - Gangrene of the intestine
- 27 - Hydrocephalus
- 28 - Cardiac hypertrophy
- 29 - Glioblastoma of the brain
- 30 - Diabetic glomerulosclerosis
- 31 - Diphtheritic ulcerative colitis
- 32 - Diffuse colloid goiter
- 33 - Diffuse stomach cancer
- 34 - Ulcerated cancer of the lower third of the esophagus
- 35 - Caseous pneumonia
- 36 - Kidney stones and hydronephrosis
- 37 - Bone marrow in chronic myeloid leukemia
- 38 - Micronodular cirrhosis of the liver
- 39 - Cancer metastases to the liver
- 40 - Miliary tuberculosis of the lungs
- 41 - Medullary swelling of grouped follicles of the small intestine in typhoid fever
- 42 - Cardiac obesity
- 43 - Adrenal tumor
- 44 - Acute verrucous endocarditis of the bicuspid valve
- 45 - Perforated ulcer of the small intestine in typhoid fever
- 46 - Lung cancer
- 47 - Kidney cancer
- 48 - Rheumatic heart disease
- 49 - Myocardial scar after infarction, chronic cardiac aneurysm
- 50 - Sarcoma

- 51 - Spleen in prolonged septic endocarditis
- 52 - Spleen in lymphogranulomatosis
- 53 - Septic endometritis
- 54 - Gray softening (ischemic infarction) of the brain
- 55 - Toxic liver
- 56 - Pulmonary embolism
- 57 - Tubal pregnancy
- 58 - Tuberculosis of the lymph nodes
- 59 - Tuberculous spondylitis
- 60 - Fibrinous-hemorrhagic tracheitis in influenza
- 61 - Fibrinous pericarditis
- 62 - Chronic glomerulonephritis with outcome in shrinkage
- 63 - Ovarian cystadenoma
- 64 - Stomach ulcer
- 65 - Stomach cancer
- 66 - Panasonic UB-T780 copyboard
- 67 - Pirogov anatomical panel
- 68 - "NanoEducator" measuring device
- 69 - Teacher's workstation
- 70 - Student's workstation (3 pcs.)
- 71 - Microscope

Classroom for group and individual consultations

Classroom for ongoing monitoring and interim certification

A classroom equipped with specialized furniture and technical teaching aids serving to present educational information to a large audience: a computer, a projector, a magnetic-marker board.

Software:

1.	Alt Workstation 10
2.	Alt Workstation K
3.	Alt Server
4.	Office software package – P7-Office

11. Educational, Methodological, and Informational Support for the Discipline

11.1. List of Main and Additional Literature Required for Mastering the Discipline (Module)

11.1.1. List of Main Literature:

1. Kishkun A. A. Klinicheskaya laboratornaya diagnostika [Clinical Laboratory Diagnostics]: ucheb. posobie. Moscow: GEOTAR-Media, 2013. 962 p. Bibliogr.: pp. 957–962. ISBN 978-5-9704-2559-6.
2. Nasledstvennye bolezni. Polnyy spravochnik [Hereditary Diseases. Complete Reference Book] [Electronic resource]. Saratov: Nauchnaya kniga, 2019. 700 p. ISBN 978-5-9758-1854-6. Available at: <http://www.iprbookshop.ru/80196.html> (in Russian).
3. Eliseev Yu. Yu., Nazarova L. S., Belyakova N. I. et al. Polnyy spravochnik. Vnutrennie bolezni [Complete Reference Book. Internal Diseases] [Electronic resource]. Saratov: Nauchnaya kniga, 2019. 893 p. ISBN 978-5-9758-1873-7. Available at: <http://www.iprbookshop.ru/80177.html> (in Russian).

11.1.2. List of Additional Literature:

1. Baskakov M. B. Meditsinskaya fizika. Osnovy morfologii cheloveka i obshchey patologii kletki [Medical Physics. Fundamentals of Human Morphology and General Cell Pathology] [Electronic resource]: uchebnoe posobie. Tomsk: Tomskiy politekhnicheskii universitet, 2013.

- 115 p. ISBN 978-5-4387-0318-1. Available at: <http://www.iprbookshop.ru/34678.html> (in Russian).
2. Glukhareva T. V., Selezneva I. S. Biokhimiya. Chast' 2. Osnovnye regulatory i biologicheskie zhidkosti chelovecheskogo organizma [Biochemistry. Part 2. Main Regulators and Biological Fluids of the Human Body] [Electronic resource]: uchebnoe posobie. Yekaterinburg: Ural'skiy federal'nyy universitet, EBS ASV, 2016. 116 p. ISBN 978-5-7996-1843-8. Available at: <http://www.iprbookshop.ru/68227.html> (in Russian).
3. Klochko I. A. Informatsionnye tekhnologii v professional'noy deyatel'nosti [Information Technologies in Professional Activities] [Electronic resource]: uchebnoe posobie. Saratov: Vuzovskoe obrazovanie, 2014. 236 p. ISSN 2227-8397. Available at: <http://www.iprbookshop.ru/20424.html> (in Russian).
4. Korotyaev A. I., Babichev S. A. Meditsinskaya mikrobiologiya, immunologiya i virusologiya [Medical Microbiology, Immunology and Virology] [Electronic resource]. Saint Petersburg: SpetsLit, 2012. 760 p. ISBN 978-5-299-00425-0. Available at: <http://www.iprbookshop.ru/45694.html> (in Russian).
5. Novikova I. A., Khoduleva S. A. Klinicheskaya i laboratornaya gematologiya [Clinical and Laboratory Hematology] [Electronic resource]: uchebnoe posobie. Minsk: Vysheyshaya shkola, 2013. 447 p. ISBN 978-985-06-2226-6. Available at: <http://www.iprbookshop.ru/24061.html> (in Russian).
6. Pavlovich S. A. Mikrobiologiya s virusologiyey i immunologiyey [Microbiology with Virology and Immunology] [Electronic resource]: uchebnoe posobie. Minsk: Vysheyshaya shkola, 2013. 800 p. ISBN 978-985-06-2237-2. Available at: <http://www.iprbookshop.ru/24067.html> (in Russian).

11.2. List of Educational and Methodological Support for the Independent Work of Students in the Discipline (Module)

1. Methodological Guidelines for Organizing and Conducting Practical Training in Emergency Medical Procedures [Electronic resource]. Stavropol: NCFU, 2022. 40 p.

11.3. List of Resources of the Information and Telecommunications Network **Internet** Required for Mastering the Discipline (Module)

1. www.biomed.net — Club of the Biological and Medical Community.
2. www.healthgate.net — Information Search in MEDLINE and Other Bibliographic Databases.
3. www.elibrary.ru — Scientific Electronic Library.
4. www.sbio.info — Information on All Sections of Biology.
5. www.biologylib.ru — Library of Biology.
6. www.ramld.ru — Russian Association of Medical Laboratory Diagnostics;
7. www.rosminzdrav.ru — Ministry of Health of the Russian Federation.

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**REPORT ON PRACTICAL TRAINING
Practical Training of General Medical Profile**

Student_____

Year of study_____

Specialty_____

Grade_____

Methodological recommendations for preparing a report on the completion of practical training in emergency medical procedures

The report is an analytical systematized document reflecting the degree of mastering the content and achieving the goals of the practical training.

The student's report must contain:

1. a title page;
2. an introduction;
3. the main part;
4. a conclusion;
5. a list of references.

Content of the main sections of the practical training report:

Introduction

- place and time of the practical training;
- the aim and objectives of the practical training for acquiring professional skills and experience in professional activities in the positions of mid-level medical personnel;
- the form of the practical training for acquiring professional skills and experience in professional activities in the positions of mid-level medical personnel;

Main part:

- The relevance of the conducted research;
- Results of the analytical work;
- Proposals for the practical application of the obtained results.

Conclusion: conclusions and proposals based on the results of the practical training for acquiring professional skills and experience in professional activities in the positions of mid-level medical personnel.

The report is prepared in typewritten form on one side of an A4 sheet of paper (297*210). Page parameters: left margin — at least 30 mm, right margin — at least 10 mm, top margin — 15 mm, bottom margin — at least 20 mm. Font Times New Roman, font size — 14, spacing — 1.5.

All tables, diagrams, drawings, figures, and illustrative materials must be titled and numbered.

Page numbering is continuous. The title page is included in the total number of pages of the report. The number is not placed on the title page; on subsequent pages, the number is placed in the upper right corner.

If the report has sections and subsections, they must have sequential numbering and be designated by Arabic numerals with a period at the end. The introduction and conclusion are not numbered.

The work is submitted in a folder with a binder.

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APPROVED BY:
Head of the Department

(Full name)

(signature)

« ____ » 20 ____ y

INDIVIDUAL PLAN FOR THE PRACTICAL TRAINING

Practical Training of General Medical Profile

for the 20____ - 20____ academic year

of the student _____
(Full name)

Specialty _____
(number and title)

Year and mode of study _____

Department _____
(title)

Research supervisor _____
(Full name)

№	Planned forms of work	Number of hours	Calendar dates of conducting
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Student	_____ (signature)	_____ (transcript of the signature)
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Research supervisor	_____ (signature)	_____ (transcript of the signature)
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