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METHODICAL INSTRUCTIONS FOR THE TEACHER FOR ORGANIZATION OF
CLINICAL PRACTICE "PROCEDURAL NURSE ASSISTANT.
PART I" FOR SPECIALTY 31.05.01 " GENERAL MEDICINE»

Ulyanovsk

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The manual is prepared in accordance with the work program of the clinical practice "Procedural nurse assistant. Part I". The methodical manual is intended for teachers of medical faculty mastering on specialty 31.05.01-General medicine.

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Introduction

Brief description of the practice " Procedural Nurse Assistant. Part I ». Practice to obtain professional skills and experience of professional activity "Training practice Care of the therapeutic and surgical patients. Part I", Clinical practice "Training practice Care of the therapeutic and surgical patients. Part II", "Junior staff assistant" «Ward nurseassistant» are the previous discipline necessary for studying of this course.

Practice is held in the 6nd semester and is discret.

Practical training is conducted at training center for medical technology of medical faculty and training rooms of the Institute of Medicine, Ecology and Physical Culture USU.

I. The course aims

Aim of the Course: developing the general professional competences necessary for working the procedural nurse.

II. The course objectives

Objectives:

- to administer of the medical documentation procedural nurse;
- to administer parenteral ways of introduction of drugs;
- to know principles care of patients and to know first pre-medical aid;
- to administer of medical devices for medical aid.

III. Proposed results:

The course is aimed at the following competences:

Competence index. Content of a competence (or a part of it)	The proposed results of the course students are:
GPC-6 The willingness for conducting the medical documentation	know: - Medical documentation procedural nurse (sheet prescribing, log-book of strong and narcotic drugs). able to: - carry out sample of prescribing of a list prescribing; - fill in book of carrying out injections and intravenous infusion of the drugs; - fill in the log-book of strong and narcotic drugs. own to: conduct of the medical documentation procedural nurse
GPC-8 The willingness for medical application of	know: - methods of parenteral ways of introduction of drugs;

<p>drugs and other substances and their combinations at the decision of professional problems</p>	<ul style="list-style-type: none"> -the technique of drawing drugs from ampules; - the technique of carrying out of an intradermal injection; - the technique of carrying out of an subcutaneous injection; - the technique of sequence of the tourniquet before venipuncture; - the technique of carrying out of an intravenous injection; - the technique of carrying out of an drip; - the technique of carrying out of an intramuscular injection. <p>able to: - carry out intradermal injection;</p> <ul style="list-style-type: none"> - carry out subcutaneous injection; - sequence of the tourniquet before venipuncture; - carry out intravenous injection; - carry out intravenous infusion; - carry out intramuscular injection. <p>Own to: carry out methods of parenteral ways of introduction of drugs</p>
<p>GPC-10 The willingness to organize patients care and provide primary pre-hospital health care</p>	<p>know:</p> <ul style="list-style-type: none"> - the technique of assessing radial pulse; -the technique of measurement of blood pressure; - medical complications of injections; - clinical picture of the allergic reaction of urticaria, anaphylactic shock; - clinical picture of the post-injection abscess; - first aid for bronchial asthma attack, pulmonary bleeding, hypertensive crisis, gastric bleeding, cardiac asthma, collapse, pains in the abdomen, heart attack; -the technique of cardiopulmonary resuscitation (CRP); -the signs of clinical and biological death; -the technique of venipuncture for blood sampling for laboratory tests; -indications for catheterizing the urinary bladder, the technique of carrying, type of the catheters. <p>able to:</p> <ul style="list-style-type: none"> -measure arterial pressure; -investigate the pulse on peripheral

	<p>arteries;</p> <ul style="list-style-type: none"> -perform first aid for introduction of medicine not in right site (introduction of CaCl₂ under skin); -perform first aid for urticaria, anaphylactic shock; -perform first aid for post-injection abscess; -perform first aid for bronchial asthma attack, pulmonary bleeding, hypertensive crisis, gastric bleeding, cardiac asthma, collapse, pains in the abdomen, heart attack; - performing CPR; - to carry out venipuncture for blood sampling for laboratory tests; -to carry out catheterizing the urinary bladder of the soft catheter. <p>own to:</p> <ul style="list-style-type: none"> -to care patients with internal organs diseases; -to provide primary pre-hospital health care.
<p>GPC-11 The willingness to use medical devices intended for medical care.</p>	<p>know:</p> <ul style="list-style-type: none"> - the technique of collection of syringes,preparation (filling) of the system for intravenous infusion; - the technique of disinfection and utilization of syringes and needles; -the technique of disinfection and utilization of soft urinary catheters; - the technique of disinfection and preparation for sterilization of hard urinary catheters. <p>able to:</p> <ul style="list-style-type: none"> - carry out collection of syringes,prepare (fill in) of the system for intravenous infusion; - provide disinfection and utilization of syringes and needles; - provide disinfection and utilization of of soft urinary catheters; - provide disinfection and preparation for sterilization of hard urinary catheters <p>own to:</p> <ul style="list-style-type: none"> - apply medical devices intended for

	medical care
<p>PC-14 Readiness to determine the need for the use of natural therapeutic factors, drug, non-drug therapy and other methods in patients in need of medical rehabilitation and Spa treatment</p>	<p>know: - the main groups of drugs and methods of their administration used for drug therapy in patients with various diseases in need of medical rehabilitation and Spa treatment</p> <p>able to: - use different methods of drug therapy in patients with various diseases in need of medical rehabilitation and Spa treatment</p> <p>own to: - apply different methods of administration of drugs in health resort conditions in patients, those in need of medical rehabilitation and Spa treatment;</p>
<p>PC -15 Readiness for training of patients and their relatives to the basic hygienic actions of improving character, skills of self-control of the main physiological indicators promoting preservation and strengthening of health, prevention of diseases</p>	<p>know to: -Methods of study and estimation of the pulse. - Methodology for measuring and assessing blood pressure - Method of counting of breath movements.</p> <p>able to: - train patients and their relatives to conduct research and assess the pulse. - count breath movements. - carry out blood pressure measurement</p> <p>own to: - self-control of the main physiological indicators promoting preservation and strengthening of health, prevention of diseases. -evaluate of the effectiveness of preventive work with patients and monitor compliance with preventive measures</p>

IV. Organization of clinical practice

The direct head of the production practice is a teacher of the faculty of medicine, who organizes and supervises the work of students in the departments.

Certification on the results of practice is carried out on the basis of the diary of clinical practice issued according to the established requirements and the report to the head of practice.

At the end of the internship, the responsible teacher conducts an interview, where the results of the practice are summed up, comments and wishes of students on its organization are clarified.

According to the results of the practice, the assessment is made on a five-point

system.

Documentation on clinical practice is checked by the teacher of medical faculty responsible for carrying out this clinical practice.

V. Content of Practice

№ п/п	Name of sections	The form of practice, including independent work	Quantity of Hours	The form of control
I. Preparatory stage of practice				
1	Briefing on safety	Briefing on safety	4	Control of the filling of the diary
II. Production stage				
1	Administration of the medical documentation	Medical documentation procedural nurse (sheet prescribing, log-book of strong and narcotic drugs).	24	Control of the filling of the diary, check-lists
2	Invasive parenteral ways of introduction of drugs	General rules for the use of medicines. Methods of administration of medicine. The collection of syringes, making medicines from vials, collection of IVS. In/m, subcutaneous, intravenous, intravenous injection, drip medicines. Complications of injections. Principles of first aid in anaphylactic shock. Development of practical skills training center of medical technology.	28	Control of the filling of the diary, check-lists
3	General care of the patients and first aid	First aid for bronchial asthma attack, pulmonary bleeding, hypertensive crisis, gastric bleeding, cardiac asthma, collapse, pains in the abdomen, heart attack	28	Control of the filling of the diary, check-lists

		Development of practical skills training center of medical technology.		
4	Handling and preparing to use medical devices provide primary pre-hospital health care	Blood pressure measurement. Study of arterial pulse and counting the frequency of respiratory movements. Urinary bladder cauterization Development of practical skills training center of medical technology.	24	Control of the filling of the diary, check-lists
	Total		108	

VI. Questions for ongoing monitoring depending on the type and type of practice

No.	question
PHASE I "PREPARATION»	
Instructing students on safety and health, according to the rules of the diary, schedule and order of practice, etc.	
1.	Types of instructing students on occupational safety and health
2.	Basic documents on conducting introductory, primary, unscheduled and targeted instruction on labor protection
3.	The person responsible for conducting the initial, unplanned and target instructing
4.	The main types of medical institutions
5.	Main modes of medical institutions
PHASE I "PREPARATION»	
Maintenance of medical records	
6.	Medical documentation of the treatment room
7.	Duties of the procedural nurse
8.	Basic medical documentation of a procedural nurse
9.	Accounting forms of medical documentation and terms of their storage
10.	Rules of registration of medical documentation of the procedural nurse
11.	Rules for filling the temperature sheet
12.	Rules for filling in the journal of medical appointments.
13.	Rules of taking of blood sampling for biochemical studies.
14.	The rules of filling the log of blood on RW, the collection of blood for AIDS.
15.	Rules for filling in the register of potent drugs and narcotic analgesics
PHASE II "PRODUCTION»	
Implementation of the invasive parenteral administration of drugs	
16.	Methods of parenteral invasive administration of drugs
17.	
18.	Methods of drug administration

	19.	Advantages of parenteral invasive method of drug administration
	20.	Methods of absorption of drugs from ampoules
	21.	Methods of collecting syringes for intravenous administration of drugs
	22.	The method of collection systems for intravenous introduction of medical products
	23.	The technique of tourniquet
	24.	
	25.	Technique of intradermal injection
	26.	Technique of intradermal injection
	27.	Technique of subcutaneous injection.
	28.	Technique of subcutaneous injection.
	29.	Technique of intravenous injection.
	30.	Technique of intravenous drip of drugs.
	31.	Technique of intravenous drip of drugs.
	32.	Technique of intramuscular injections.
	33.	Technique of intramuscular injections.
	34.	Methods of blood sampling from a vein for biochemical, immunological, bacteriological studies
	35.	Injecting the possible complications of the different methods of administering drugs
	36.	Rules of the statement, the account and storage of medicines (including, strong and drugs)
	37.	Clinical manifestations of post-injection complications
PHASE II "PRODUCTION» General care and first aid in case of emergency		
	38.	Risk factors for cardiovascular diseases
	39.	Risk factors for respiratory diseases
	40.	The method of calculation of NPV
	41.	The mechanisms of origin of shortness of breath, its types
	42.	Methods of studying the pulse on the radial arteries. Properties of arterial pulse
	43.	Method of study of carotid pulse
	44.	Method of measuring blood PRESSURE. Possible causes of a change of AD in the direction of increase and decrease
	45.	The methodology of the peakflowmetry. The main indications and contraindications. Interpretation of results
	46.	The main clinical manifestations of bronchial asthma attack
	47.	Algorithm of emergency care in case of bronchial asthma attack
	48.	The main clinical manifestations of pulmonary hemorrhage
	49.	Algorithm of emergency care in pulmonary hemorrhage
	50.	The main clinical manifestations of bleeding from the gastrointestinal tract. Possible cause
	51.	Algorithm of emergency care in case of gastrointestinal bleeding
	52.	The main clinical manifestations of collapse
	53.	Algorithm of emergency care in case of collapse
	54.	The main clinical manifestations of angina attack

	55.	The algorithm of rendering of the urgent help at the attack of angina
	56.	The main clinical manifestations in hypertensive crisis
	57.	Algorithm of emergency care in hypertensive crisis
PHASE II "PRODUCTION»		
Treatment and preparation for use of medical devices provided for by the procedure of medical care		
	58.	Indications for bladder catheterization, types of catheters
	59.	Methods of bladder catheterization in men and women.
	60.	Rules of treatment and storage of soft urinary catheters
	61.	Rules for disinfection and disposal of needles and syringes.
	62.	Rules of treatment and storage of metal urinary catheters
	63.	Types of des. disinfection solutions, rules for dilution of solutions

VII. The list of practical skills

No	Name of the skill
1.	Administration of the medical documentation procedural nurse
2.	Intradermal injection
3.	Subcutaneous injection
4.	Intramuscular injection
5.	Sequence of the tourniquet before venipuncture
6.	Intravenous injection
7.	Intravenous infusion
8.	Assessing arterial pulse of his performance
9.	Measuring blood pressure
10.	First aid for introduction of medicine not in right site (introduction of CaCl ₂ under skin)
11.	First aid for urticaria, anaphylactic shock
12.	First aid for post-injection abscess
13.	First aid for bronchial asthma attack, pulmonary bleeding, hypertensive crisis, gastric bleeding, cardiac asthma, collapse, pains in the abdomen, heart attack
14.	Administering artificial respiration
15.	Chest compressions
16.	Venipuncture for blood sampling for laboratory tests
17.	Catheterizing the urinary bladder by the soft catheter
18.	Collection of syringes, preparation (filling) of the system for intravenous infusion
19.	Disinfection and utilization of syringes and needles
20.	Disinfection and utilization of soft urinary catheters
21.	Disinfection and preparation for sterilization of hard urinary catheters

VIII. Documentation of the practice

Documentation on the practice, provided at the end of the teacher, includes a diary of practical training with a digital report

IX. Evaluation criteria based on the results of certification of clinical

practice

Criteria for the final evaluation for the production practice "Procedural Nurse Assistant»:

"5" (excellent) - the student has mastered complete program of clinical practice, observes discipline, has a correctly and accurately filled diary and digital report, has no comments from the direct supervisor.

"4" (good) - the score is reduced by one point if there are comments on at least one of the following items: non-rude comments on discipline, on the technique of performing practical skills by the head of the practice, the diary and/or report are filled with small shortcomings.

"3" (satisfactory) - implementation of the practice program with errors in the performance of skills, diary and / or report filled with deficiencies, there are violations of labor discipline during the practice.

"2" (unsatisfactory) – gross violation of labor discipline (regular unexcused absences). Billed "2" also for the forgery of the digital report (marked manipulation, which the student did not perform) and gross defects when filling out the diary.

The student who has not fulfilled the program of practice in due time and (or) received negative feedback on the work from the head of the practice, as well as missed the practice due to illness or other valid reasons, submits an explanatory note to the Dean's office, which indicates the reasons for the debt. The issue of practical training of these persons is decided individually.

X. List of literature

a) Core reading:

1. Smirnova A. Yu. Patients care with internal diseases. Course of training practice [Электронныйресурс]: textbook of medicine for medicine faculty students / Smirnova A. Yu., V. V. Gnoevykh; Ulyanovsk State University, Insitute of Medicine, Ecology and Physical culture. - Электрон. текстовыедан. (1 файл : 3,09 Мб). - Ulyanovsk : ULSU, 2016.-108 с.- Access mode:ftp://10.2.96.134/Text/Smirnova_2016-1.pdf
2. Ostrovsky V. K.
The general care per surgical patients with elements of first-aid treatment at sharp surgical diseases and injuries : educational and methodical edition for students of 1 course in "Medical business" and "Pediatrics" / V. K. Ostrovsky; translated by D. N. Isaev; Ulyanovsk State University, Insitute of Medicine, Ecology and Physical culture. - Ulyanovsk : UISU, 2015. - 92 с. - Текстнаангл. яз. - Библиогр.: с. 91. - б/п.
3. Gostishchev Victor Kuzmich.
General surgery = A guide to general surgery practice: the manual : textbook for foreign students of medical higher educational institutions / Gostishchev Victor Kuzmich. - Moscow: GEOTAR-Media, 2018. - 219 p. : il. - Парал. тит. л. рус. - ISBN 978-5-9704-4697-3 : 900.00.

b) Supplementary reading:

1. Osloпов V.N., Epiphany O.V., et al..General care. Training manual. Part 1.General care of a patient. Manual. Part 1 – Kazan: KSMU, 2005. – 106 с. Access mode: <http://osloпов-kazan.ru/wordpress/wp-content/uploads/2014/02/General-care-of-a-Patient.-Part-1.pdf>


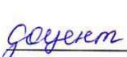
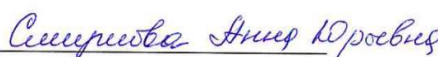
2. Osloпов V.N., Epiphany O.V., et al..General care. Training manual. Part 2.General care of a patient. Manual. Part 2 – Kazan: KSMU, 2005. – 114 c. Access mode:<http://osloпов-kazan.ru/wordpress/wp-content/uploads/2014/02/General-care-of-a-Patient.-Part-2.pdf>

c) educational-methodical readin


1. *Smirnova A.Yu.* Methodical manual on clinical practice of 3d year students " Procedural nurse assistant. Part I " for the student.- Ulyanovsk, Ulsu, 2019.-45;
2. *Smirnova A.Yu.* Methodical manual on clinical practice of 3d year students "Procedural nurse assistant. Part I " for the teacher.- Ulyanovsk, Ulsu, 2019.-13;
3. *Smirnova A.Yu.* Methodical manual on clinical practice of 1st year students "Procedural nurse assistant. Part I " for independent work of the student.- Ulyanovsk, Ulsu, 2019.-45.


Professed data base, directory and search systems:

1. Electronic library systems:
 - 1.1. IPRbooks: Electronic Library System / AI P.Er Media Group. Electron. Dan. - Saratov, 2019. Access mode: <http://www.iprbookshop.ru>.
 - 1.2. WRIGHT E-Resource: Electronic Library System / E-Publishing Ltd. Electron. Dan. Moscow, 2019. Access mode: <https://www.biblio-online.ru>.
 - 1.3. Student Consultant "Electronic Resource": Electronic Library System / PolytechResource LLC. Electron. Dan. Moscow, 2019. Access mode: <http://www.studentlibrary.ru/pages/catalogue.html>.
2. ConsultantPlus "Electronic Resource": Reference Legal System. /Consultant Plus - Electron. Dan. - Moscow : ConsultantPlus, "2019".
3. Database of periodicals "Electronic resource" : electronic magazines / IVIS LLC. Electron. Dan. - Moscow, 2019. Access mode: <https://dlib.eastview.com/browse/udb/12>.
4. National Electronic Library
5. Educational resources of the USU:
 - 5.1 Electronic libraries of USU. Access mode: <http://lib.ulsu.ru/MegaPro/Web>
 - 5.2 Educational portal of USU. Access mode: <http://edu.ulsu.ru>

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