

Catalog of elective subjects

1. **Department of** Emergency Medicine and Nursing
2. **Level of training:** Master's degree
3. **EP:** Nursing services
4. **Course:** 1 (profile)
5. **Name of the elective discipline:** Nursing profession in the healthcare system of the Republic of Kazakhstan
6. **Number of credits:** 5
7. **The purpose of the discipline:** Training in patient care skills and mastering the basics of theory; students' mastery of the basics of professional skills of a nurse, mastering the nursing process at the level of a scientific method of providing nursing care. Tasks of nursing education. Training methods. Development of individual education and parallel learning. Methods for assessing knowledge, skills, attitudes, competencies, and practical education.

8. Objectives of the discipline:

- Training in the theoretical and practical basics of patient care in medical institutions;
- Training in mastering the principles of professional ethics and deontology, the culture of thinking, the ability to present, analyze, perceive information, set goals and choose ways to achieve them;
- Training in interaction with colleagues and working in a team, including as part of a medical team, in accordance with the approved Procedure for providing medical care to patients;

9. Content of the discipline:

Nursing in the healthcare system of the Republic of Kazakhstan. Subject, place, and role of public health and prevention programs. Organization and management of the nurse's work. Fundamentals of evidence-based nursing practice, integration of scientific data with the nurse's clinical experience and patient values, critical thinking and decision-making.

10. Justification for choosing a discipline: Nursing is an important part of the healthcare system, which has significant human resources and real potential to meet the needs of the population for affordable health care. The subject of the research is the maintenance of accounting and reporting documentation, organization of nursing services at various levels, organization of collection and processing of medical and statistical data, development of methodological and educational materials for training and advanced training of nursing personnel. In the process of studying disciplines, a theoretical basis is formed.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
Summing up the results of their actions to promote the patient's health, rehabilitation and prevention of diseases;	Able to use patient-oriented learning tools and methods;	Summarizing their actions to promote patient health, rehabilitation and disease prevention;
- Demonstrates basic patient-oriented counseling skills in a simulation	environment; - Identifies factors that influence the main stages of rational solutions to problems and factors, as well as patient-oriented training;	- Demonstrates their knowledge and skills when communicating with patients, relatives, etc. colleagues;
- Is able to draw up a patient-oriented plan, using proven data for health promotion and disease prevention	-Naukastarga bagyrtalğan okytuda turaksyzdandyrylğan maselerdi zhoyuga kabiletli.	- Demonstrates their knowledge and skills in providing information about their work.

11. **Prerequisites:** Specialized nursing care
12. **Post-requests:** Managing the quality of medical care.
13. **Literature**
Mainpage:

1. Қалқабаева, С. А. Бірінші медициналық көмек: оқу құралы / С. А. Қалқабаева; Оңтүстік Қазақстан мемлекеттік медицина академиясы. Shymkent: OKMA Publ., 2008, 221 p. 897-897 897
2. First medical aid: textbook. manual for students. sred. prof. ucheb. institutions / P. V. Glybochko [et al.]. - Moscow: Publishing Center "Akademiya", 2007. - 240 p.
3. First aid: help. manual / E. E. Tribis. - Moscow: VLADOS-PRESS, 2005. - 214 p. - Tribis, E. E.
4. Uzhegov G. N. First medical aid: monograph / G. N. Uzhegov. Smolensk: Rusich Publ., 2001, 416 p.

Additional:

1. Akanov A. A. Population health and public health of the Republic of Kazakhstan.- 2nd edition. Эверо,оқулық 2014
2. Қаныбеков, А. Медбикенің іс-әрекеттері : оқулық бағдарлама / А. Қаныбеков. - ; KR DSM RCITMON басп. ұсынған. Almaty : Evero Publ., 2014, 476 p. (in Russian)
3. Syzdykova, K. Sh.Syzdykova K. Sh., Ryskulova A. R., Tulebaev Zh. S. [Management in healthcare: a textbook]. - Almaty: IP Publishing House "Aknur", 2015. - 236 p.

1. Department of Emergency Medicine and Nursing

2. Level of training: Master's degree

3. EP: Nursing services

4. Course: 1 (profile)

5. Name of the elective discipline: Managing the quality of medical care.

6. Number of credits: 5

7. The purpose of the discipline: formation and consolidation of stable knowledge, skills and abilities of undergraduates in the specialty "Nursing", preparation for the development of specialized disciplines

8. Objectives of the discipline:

- study of approaches to the problem of the influence of the quality of the medical and diagnostic process on the quality of services of middle-level medical personnel;
- research of approaches to the problem of assessing and controlling the quality of services of secondary medical personnel and the quality of nursing care in the recovery process;
- training of undergraduates in organizational and methodological approaches to ensuring the quality of nursing care, based on the standardization of the activities of secondary medical personnel, documentation of the nursing process, and conducting an expert examination of the quality of nursing care.

9. Content of the discipline: Quality management system. Basic functions of quality management. Methods and types of nursing care quality management. Factors affecting the quality of nursing care. Criteria for assessing the quality of nursing care. The main ways and directions of improving the quality of nursing care. Quality management of current processes at the level of secondary medical personnel. Expert assessment of the quality of nurses' work.

10. Justification for choosing a discipline: A career as a nurse manager comes with a large set of functions and responsibilities. A nurse manager is the head of a hospital's nursing department, and all nurses work under the supervision of a nurse manager. A nurse manager usually works in large hospital facilities, and also has management and assign responsibilities to all nurses. There is always a flow of patients in the hospital, and the nurse manager ensures that every patient receives proper attention and care. Nursing and managing a nurse's job is at the core of a nurse manager's job.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
- Demonstrates knowledge and is able to use their knowledge to identify patient problems and make	- Demonstrates the most advanced skills of high-quality nursing, focused on	- Demonstrates skills in self-directed nursing of patients/families at home and disease management.

a nursing diagnosis for people of different ages.	the safe patient using modern methods.	
- Demonstrates acritical understanding of the theories and principles of foreign affairs, and maintains professional ethics and confidentiality in accordance with legal standards.	- Is able to apply practice nursing diagnostics in practice.	- Is able to work actively at the operational, strategic and tactical levels in the family and society, in order to strengthen the health of individuals.
- Conducts patronage of patients using medical documentation.	- Demonstrates nursing skills.	

11. Prerequisites: Leadership in nursing

12. Post-requests: Modern paradigms of nursing development

13. Literature

Mainpage:

1. Қаныбеков, А. Емшара және таңу бөлмелерінің мейірбикелерінің іс - әрекеттері: оқулық / А. Қаныбеков, А. Қаныбекова. Almaty : Evero Publ., 2017, 200 бет. p.
2. Адилова, Л. М. Мейіргердің манипуляциялық әрекетінің алгоритмдері: оқу құралы = Алгоритмы сестринских манипуляций : учебное пособие/- М. : "Литтерра", 2016. - 248 бет
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1. Gadzhiev R. S., Gadzhiev N. O. Kachestvo i effektivnost' truda meditsinskikh sesterov gorodskikh poliklinik [Quality and efficiency of work of medical nurses in city polyclinics]. Sadraddinova/ Problems of social hygiene, health care and the history of medicine. 2005. - No. 1. - pp. 49-51.
2. Glotova I. G. Problemy i zadachi otsenki kachestva sestrinskoy pomoshchi v period reformirovaniya sestrinskogo dela v Belgorodskoy oblasti [Problems and tasks of assessing the quality of nursing care in the period of reforming nursing in the Belgorod region]. 2000. - No. 1. - pp. 7-17.
3. Golubeva A. P. Teoreticheskie osnovy upravleniya kachestvom meditsinskoy pomoshchi [Theoretical foundations of quality management of medical care]. 2003. - No. 2. - pp. 41-47.
4. Grekov I. G. Kriterii otsenki klinicheskoi deyatel'nosti sestrinskikh sluzhbymulti-profile hospitals [Criteria for assessing the clinical activity of nursing services in a multidisciplinary hospital]. - 2001. - No. 8. - pp. 35-41.
5. Grekov I. G. Nekotorye podkhody k klassifikatsii sestrinskikh proizvodstvennykh funktsii [Some approaches to classification of nursing production functions]. 2004. - No. 6. - pp. 49-53.
6. Nurmanova, M. Sh. Collection of standards of nursing technologies in the discipline "Fundamentals of nursing" - Karagandy: ZHK "Aknur", 2013

1. Department of Emergency Medicine and Nursing

2. Level of training: Master's degree

3. EP: Nursing services

4. Course: 1 (profile)

5. Name of the elective discipline: Modern paradigms of nursing development

6. Number of credits: 2

7. The purpose of the discipline: Substantiation of norms and criteria when working as an administrative and pedagogical nursing specialist.

8. Objectives of the discipline:

- Mastering the knowledge, skills, views, competencies and methods of evaluating practical education;
- Study of the peculiarities of training in nursing and development paradigms at work;
- Organization of continuous professional development of specialists in postgraduate education and nursing.

9. Content of the discipline:

10. Justification for choosing a discipline:

.Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
- Demonstrates the importance of the development paradigm in nursing;	- Uses information and communication technologies and uses a reference base, information base at a professional level;	- Uses verbal and non-verbal communication skills when communicating with patients;
-Demonstrates the paradigm of nursing development and its importance in healthcare;	- Is able to collect information from the Internet in connection with an emergency situation;	-Can review the management organization system and aspects and problems of management;
- Summarizes its actions to promote the patient's health, rehabilitation and prevention of diseases.	- Analyzes databases and other information resources and solves professional issues.	- Owns and is able to apply organizational aspects of management.

11. Prerequisites: Nursing in primary health care

12. Post-requests: Quality management of medical care

13. Literature

Mainpage:

1. Borisov K. N., Alekseev V. A., Shurandina I. S., Health for All a strategy of Finland / / Rosmedportal. kom. 2011. №2 URL: <http://www.rosmedportal.com/>

2. Kasafutdinova G. T., Baisugurova V. Y. Current state of nursing in developed countries: expanding nursing practice // KazNMU Bulletin. 2013. no. pp. 303-306.

Additional:

1. Abdrakhmanova A. O., Kalieva M. A., Baigozhina Z. A., Khandillaeva M., Kabdrakhmanova N. M., Problemy meditsinskikh sester i puti ikh resheniya v Respublike Kazakstan (Problems of Nursing and their solutions in the Republic of Kazakhstan) // Mezhdunarodnyi zhurnal prikladnykh i fundamental'nykh issledovaniy. 2014. No. 11, pp. 96-99.

2. Muratbekova S. K., "Fundamentals of nursing", Kokshetau,.;2010.

3. Mukhina S. A., Tarnovskaya I. I., Practical guide to the subject "Fundamentals of nursing", Moscow: GEOTAR-Media, 2013.

4. Koryagina N. Yu., Shirokova N. V., Nagovitsina Yu. A., Shilina E. R., Tsybalyuk V. R. "Organization of specialized nursing care" GEOTAR-Media, 2013.

1. Department of Emergency Medicine and Nursing

2. Level of training: Master's degree

3. EP: Nursing services

4. Course: 1 (profile)

5. Name of the elective discipline: Information and communication technologies and digitalization in healthcare and nursing

6. Number of credits: 3

7. The purpose of the discipline: formation and consolidation of stable knowledge, skills and abilities in the specialty "Nursing", preparation for the development of specialized disciplines.

8. Objectives of the discipline:

- Development of a scientifically based knowledge system for undergraduates, which can be designated as "nursing science".
- introduction of the new and improved nursing management system for undergraduates
- improvement of the system of training, advanced training and use of nursing personnel in accordance with the acquired knowledge.
- familiarization of undergraduates with new forms and technologies of organization of nursing activities, expanded scope of nursing care

- training of undergraduates in nursing by promoting the development of professional nursing associations and involving them in the reform of nursing.
9. **Content of the discipline:** Modern aspects of medical and nursing informatization: Information technologies (IT), classification of health care information systems; medical and integrated; definition, tasks, basic concepts of medical information resources; information and telecommunications technologies and Internet resources for medicine and nursing; fundamentals of telemedicine, information security

10. Justification for choosing a discipline: Improving the quality of medical care largely depends on the level of development of professional competence, professional culture and potential of nursing professionals, since Nursing in the field of healthcare remains an integral part of the healthcare industry, which has real potential and extensive human resources to meet the ever-increasing needs of society for health services..

Compared to other medical sciences, Sestrinskoe delo is considered a relatively young science, which is in the process of formation. As in many countries of the world, the Republic of Kazakhstan connects its development with a rethinking of the content of the professional activity of a nurse and the creation of a fundamental basis for nursing, the foundations of the individuality of the profession of a nurse.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
Knows the basic laws of the Republic of Kazakhstan, legislative and regulatory documents in the field of healthcare;	Can work with regulatory and structural documentation.	Can set up professional, personal and corporate contacts.
Knows the principles of implementing new technologies;	Knows how to appreciate new technologies and implement them.	Able to find ways to solve information search tasks, ready for personal and professional growth;
Knows the types of new technologies;	Can use new technologies.	Has flexible and creative thinking;
Knows specialized characteristics in the specialty "Nursing business"	Uses new technologies in the organization and implementation of individual needs and problems of the patient	He treats the results of his work and the work of the team with high responsibility.

11. Prerequisites: Organization of research in nursing

12. Post-requests: Quality management of medical care

13. Literature

Main:

Қаныбеков, А. Медбикелердің іс – әрекеттері. 2-бөлім: оқулық бағдарлама / А. Қаныбеков. Almaty : Evero Publ., 2016. 260 bet s

Additional:

Қаныбеков, А. Медбикелердің іс – әрекеттері. 2-бөлім: оқулық бағдарлама / А. Қаныбеков. Almaty : Evero Publ., 2016. 260 bet s

1. Department of Emergency Medicine and Nursing

2. Level of training: Master's degree

3. OP: Nursing services

4. Course: 1 (profile)

5. Name of the elective discipline: Emergency conditions BLS, ACLS, PALS

6. Number of credits: 4

7.The purpose of the discipline: Formation of knowledge and skills in planning, organizing, and implementing the nursing process in emergency medicine and emergency medical care to solve the problems of a patient in a dangerous situation.

8.Objectives of the discipline:

- providing undergraduates with knowledge about the structure, equipment, and organization of emergency medical care teams;
- training in the implementation of the nursing process in the most common emergency situations;
- training in the implementation of medical and infectious hygiene measures organized in emergency situations at the sites of natural disasters.

9. Content of the discipline: Basic resuscitation-Basis Life Support, advanced cardiopulmonary resuscitation-Advanced Cardiac Life Support. Advanced decision-making in Pediatrics-Pediatric Advanced Life Support. Recommendations of the European Council for Resuscitation 2010. fundamentals of clinical diagnosis of terminal conditions. Primary and secondary assessment of the patient and victim. Closed heart massage. The Safar method. Heart defibrillation technique. Tracheal intubation.

10. Justification of the choice of discipline: The value of the discipline is revealed in the organizational work of the ambulance station and in emergency situations, in the provision of assistance, in the diagnostic approach and resuscitation. An emergency situation is a life - threatening situation that requires urgent medical attention.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
It can differentiate clinicsy in surgical, urological, oncological, infectious, nervous, mental, children's, eye, obstetric and gynecological diseases, различа, distinguish themain symptoms and syndromes of non-emergency conditions common in clinical practice, emergenciesx ситуаций, catastrophes.	СоблюдаObserve thenorms of medical ethics and morals in each type of professional communication.	Able to buildpractical, professional and collective relationships;
knows the principles of the impact of physical, mental and social factors on various human organs and systems in extreme conditions	Able to getthe necessary medical information about a patient in need of emergency medical	carecan solve the problem of data retrieval;
Knows medical accounting and reporting documentation, regulatory and legal documentation cfrom the emergency medical service.	Knows the equipment, structure, organizational work of the ambulance service, the specifics of the work of the ambulance organization, including specialized ones.	I want todevelop personally and professionally.

14. Prerequisites: Nursing care for immediate and urgent conditions

15. Post-requests: Information and communication technologies and digitalization in healthcare and nursing

16. Literature

Mainpage:

1. Қ.М. Тұрланов, С.А.Қалқабаева Жедел медицина жәрдем. Оқулық. Almaty, 2004-330 бет.
2. Орта медициналық қызметкерлер үшін нұсқау + CD / Ю.П. Никитина, А.М. Чернышева редакциясымен. - М, 2007. -992 б.
3. Верткин АЛ. Шұғыл медициналық көмек. Фельдшерлерге нұсқау: оқулық - 3-ші баспа. - М., 2008. -400 б.

Additionalinformation:

1. С.А.Қалқабаева Бірінші медициналық көмек. Оқу құралы. Бірінші басылым. Shymkent, 2008-220 бет.
2. Иванова В.И., Матвейчик Т.В. Мейірбике ісін ұйымдастыру, Минск, 2006.«Мейірбике ісі» журналы,
3. «Медициналық көмек» журналы.

8. Department of Emergency Medicine and Nursing

9. Level of training: Master's degree

10. EP: Nursing services

11. Course: 1 (profile)

12. Name of the elective discipline: Nursing profession in the healthcare system of the Republic of Kazakhstan

13. Number of credits: 5

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8. Objectives of the discipline:

- Training in the theoretical and practical basics of patient care in medical institutions;
- Training in mastering the principles of professional ethics and deontology, the culture of thinking, the ability to present, analyze, perceive information, set goals and choose ways to achieve them;
- Training in interaction with colleagues and working in a team, including as part of a medical team, in accordance with the approved Procedure for providing medical care to patients;

9. Content of the discipline:

Nursing in the healthcare system of the Republic of Kazakhstan. Subject, place, and role of public health and prevention programs. Organization and management of the nurse's work. Fundamentals of evidence-based nursing practice, integration of scientific data with the nurse's clinical experience and patient values, critical thinking and decision-making.

10. Justification for choosing a discipline: Nursing is an important part of the healthcare system, which has significant human resources and real potential to meet the needs of the population for affordable health care. The subject of the research is the maintenance of accounting and reporting documentation, organization of nursing services at various levels, organization of collection and processing of medical and statistical data, development of methodological and educational materials for training and advanced training of nursing personnel. In the process of studying disciplines, a theoretical basis is formed.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
Summing up the results of their actions to promote the patient's health, rehabilitation and prevention of diseases;	Able to use patient-oriented learning tools and methods;	Summarizing their actions to promote patient health, rehabilitation and disease prevention;
- Demonstrates basic patient-oriented counseling skills in a simulation	environment; - Identifies factors that influence the main stages of rational solutions to problems and factors, as well as patient-oriented training;	- Demonstrates their knowledge and skills when communicating with patients, relatives, etc. colleagues;
- Is able to draw up a patient-oriented plan, using proven data for health promotion and disease prevention	-Naukastarga bagytdalğan okytuda turaksydzandyrylğan maselerdi zhoyuga kabiletti.	- Demonstrates their knowledge and skills in providing information about their work.

17. Prerequisites: Specialized nursing care

18. Post-requests: Managing the quality of medical care.

19. Literature

Mainpage:

- 5. Қалқабаева, С. А. Бірінші медициналық көмек: оқу құралы / С. А. Қалқабаева; Оңтүстік Қазақстан мемлекеттік медицина академиясы. Shymkent: ОКМА Publ., 2008, 221 p. 897-897 897
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7. **The purpose of the discipline:** formation and consolidation of stable knowledge, skills and abilities of undergraduates in the specialty "Nursing", preparation for the development of specialized disciplines

8. **Objectives of the discipline:**

- study of approaches to the problem of the influence of the quality of the medical and diagnostic process on the quality of services of middle-level medical personnel;
- research of approaches to the problem of assessing and controlling the quality of services of secondary medical personnel and the quality of nursing care in the recovery process;
- training of undergraduates in organizational and methodological approaches to ensuring the quality of nursing care, based on the standardization of the activities of secondary medical personnel, documentation of the nursing process, and conducting an expert examination of the quality of nursing care.

9. Content of the discipline: Quality management system. Basic functions of quality management. Methods and types of nursing care quality management. Factors affecting the quality of nursing care. Criteria for assessing the quality of nursing care. The main ways and directions of improving the quality of nursing care. Quality management of current processes at the level of secondary medical personnel. Expert assessment of the quality of nurses ' work.

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Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
- Demonstrates knowledge and is able to use their knowledge to identify patient problems and make	- Demonstrates the most advanced skills of high-quality nursing, focused on	- Demonstrates skills in self-directed nursing of

a nursing diagnosis for people of different ages.	the safe patient using modern methods.	patients/families at home and disease management.
- Demonstrates acritical understanding of the theories and principles of foreign affairs, and maintains professional ethics and confidentiality in accordance with legal standards.	- Is able to apply practice nursing diagnostics in practice.	- Is able to work actively at the operational, strategic and tactical levels in the family and society, in order to strengthen the health of individuals.
- Conducts patronage of patients using medical documentation.	- Demonstrates nursing skills.	

11. Prerequisites: Leadership in nursing

12. Post-requests: Modern paradigms of nursing development

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5. **Name of the elective discipline:** Modern paradigms of nursing development

6. **Number of credits:** 2

7. **The purpose of the discipline:** Substantiation of norms and criteria when working as an administrative and pedagogical nursing specialist.

8. **Objectives of the discipline:**

- Mastering the knowledge, skills, views, competencies and methods of evaluating practical education;
- Study of the peculiarities of training in nursing and development paradigms at work;
- Organization of continuous professional development of specialists in postgraduate education and nursing.

11. Content of the discipline:

12. Justification for choosing a discipline:

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
- Demonstrates the importance of the development paradigm in nursing;	- Uses information and communication technologies and uses a reference base, information base at a professional level;	- Uses verbal and non-verbal communication skills when communicating with patients;
-Demonstrates the paradigm of nursing development and its importance in healthcare;	- Is able to collect information from the Internet in connection with an emergency situation;	-Can review the management organization system and aspects and problems of management;
- Summarize its actions to promote the patient's health, rehabilitation and prevention of diseases.	- Analyzes databases and other information resources and solves professional issues.	- Owns and is able to apply organizational aspects of management.

11. Prerequisites: Nursing in primary health care

12. Post-requests: Quality management of medical care

13. Literature

Mainpage:

1. Borisov K. N., Alekseev V. A., Shurandina I. S., Health for All a strategy of Finland // Rosmedportal. kom. 2011. №2 URL: <http://www.rosmedportal.com/>

2. Kasafutdinova G. T., Baisugurova V. Y. Current state of nursing in developed countries: expanding nursing practice // KazNMU Bulletin. 2013. no. pp. 303-306.

Additional:

1. Abdrakhmanova A. O., Kalieva M. A., Baigozhina Z. A., Khandillaeva M., Kabdrakhmanova N. M., Problemy meditsinskikh sester i puti ikh resheniya v Respublike Kazakstan (Problems of Nursing and their solutions in the Republic of Kazakhstan) // Mezhdunarodnyi zhurnal prikladnykh i fundamental'nykh issledovaniy. 2014. No. 11, pp. 96-99.

2. Muratbekova S. K., "Fundamentals of nursing", Kokshetau.,;2010.

3. Mukhina S. A., Tarnovskaya I. I., Practical guide to the subject "Fundamentals of nursing", Moscow: GEOTAR-Media, 2013.

4. Koryagina N. Yu., Shirokova N. V., Nagovitsina Yu. A., Shilina E. R., Tsybalyuk V. R. "Organization of specialized nursing care" GEOTAR-Media, 2013.

1. Department of Emergency Medicine and Nursing

2. Level of training: Master's degree

3. EP: Nursing services

4. Course: 1 (profile)

5. Name of the elective discipline: Information and communication technologies and digitalization in healthcare and nursing

6. Number of credits: 3

7. The purpose of the discipline: formation and consolidation of stable knowledge, skills and abilities in the specialty "Nursing", preparation for the development of specialized disciplines.

8. Objectives of the discipline:

- Development of a scientifically based knowledge system for undergraduates, which can be designated as "nursing science".
- introduction of the new and improved nursing management system for undergraduates
- improvement of the system of training, advanced training and use of nursing personnel in accordance with the acquired knowledge.
- familiarization of undergraduates with new forms and technologies of organization of nursing activities, expanded scope of nursing care
- training of undergraduates in nursing by promoting the development of professional nursing associations and involving them in the reform of nursing.

9. Content of the discipline: Modern aspects of medical and nursing informatization: Information technologies (IT), classification of health care information systems; medical and integrated;

definition, tasks, basic concepts of medical information resources; information and telecommunications technologies and Internet resources for medicine and nursing; fundamentals of telemedicine, information security

10. Justification for choosing a discipline: Improving the quality of medical care largely depends on the level of development of professional competence, professional culture and potential of nursing professionals, since Nursing in the field of healthcare remains an integral part of the healthcare industry, which has real potential and extensive human resources to meet the ever-increasing needs of society for health services..

Compared to other medical sciences, Sestrinskoe delo is considered a relatively young science, which is in the process of formation. As in many countries of the world, the Republic of Kazakhstan connects its development with a rethinking of the content of the professional activity of a nurse and the creation of a fundamental basis for nursing, the foundations of the individuality of the profession of a nurse.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
Knows the basic laws of the Republic of Kazakhstan, legislative and regulatory documents in the field of healthcare;	Can work with regulatory and structural documentation.	Can set up professional, personal and corporate contacts.
Knows the principles of implementing new technologies;	Knows how to appreciate new technologies and implement them.	Able to find ways to solve information search tasks, ready for personal and professional growth;
Knows the types of new technologies;	Can use new technologies.	Has flexible and creative thinking;
Knows specialized characteristics in the specialty "Nursing business"	Uses new technologies in the organization and implementation of individual needs and problems of the patient	He treats the results of his work and the work of the team with high responsibility.

11. Prerequisites: Organization of research in nursing

12. Post-requests: Quality management of medical care

13. Literature

Main:

Қаныбеков, А. Медбикелердің іс – әрекеттері. 2-бөлім: оқулық бағдарлама / А. Қаныбеков. Almaty : Evero Publ., 2016. 260 bet s

Additional:

Қаныбеков, А. Медбикелердің іс – әрекеттері. 2-бөлім: оқулық бағдарлама / А. Қаныбеков. Almaty : Evero Publ., 2016. 260 bet s

1. Department of Emergency Medicine and Nursing

2. Level of training: Master's degree

3. OP: Nursing services

4. Course: 1 (profile)

5. Name of the elective discipline: Emergency conditions BLS, ACLS, PALS

6. Number of credits: 4

7. The purpose of the discipline: Formation of knowledge and skills in planning, organizing, and implementing the nursing process in emergency medicine and emergency medical care to solve the problems of a patient in a dangerous situation.

8. Objectives of the discipline:

- providing undergraduates with knowledge about the structure, equipment, and organization of emergency medical care teams;
- training in the implementation of the nursing process in the most common emergency situations;

- training in the implementation of medical and infectious hygiene measures organized in emergency situations at the sites of natural disasters.

9. Content of the discipline: Basic resuscitation-Basis Life Support, advanced cardiopulmonary resuscitation-Advanced Cardiac Life Support. Advanced decision-making in Pediatrics-Pediatric Advanced Life Support. Recommendations of the European Council for Resuscitation 2010. fundamentals of clinical diagnosis of terminal conditions. Primary and secondary assessment of the patient and victim. Closed heart massage. The Safar method. Heart defibrillation technique. Tracheal intubation.

10. Justification of the choice of discipline: The value of the discipline is revealed in the organizational work of the ambulance station and in emergency situations, in the provision of assistance, in the diagnostic approach and resuscitation. An emergency situation is a life - threatening situation that requires urgent medical attention.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
It can differentiate clinicsy in surgical, urological, oncological, infectious, nervous, mental, children's, eye, obstetric and gynecological diseases, различа, distinguish themain symptoms and syndromes of non-emergency conditions common in clinical practice, emergenciesx ситуаций, catastrophes.	СоблюдаObserve thenorms of medical ethics and morals in each type of professional communication.	Able to buildpractical, professional and collective relationships;
knows the principles of the impact of physical, mental and social factors on various human organs and systems in extreme conditions	Able to getthe necessary medical information about a patient in need of emergency medical	carecan solve the problem of data retrieval;
Knows medical accounting and reporting documentation, regulatory and legal documentation cfrom the emergency medical service.	Knows the equipment, structure, organizational work of the ambulance service, the specifics of the work of the ambulance organization, including specialized ones.	I want todevelop personally and professionally.

20. Prerequisites: Nursing care for immediate and urgent conditions

21. Post-requests: Information and communication technologies and digitalization in healthcare and nursing

22. Literature

Mainpage:

4. Қ.М. Тұрланов, С.А.Қалқабаева Жедел медицина жәрдем. Оқулық. Алматы, 2004-330 бет.
5. Орта медициналық қызметкерлер үшін нұсқау + CD / Ю.П. Никитина, А.М. Чернышева редакциясымен. - М, 2007. -992 б.
6. Верткин АЛ. Шұғыл медициналық көмек. Фельдшерлерге нұсқау: оқулық - 3-ші баспа. - М., 2008. -400 б.

Additionalinformation:

4. С.А.Қалқабаева Бірінші медициналық көмек. Оқу құралы. Бірінші басылым. Shymkent, 2008-220 бет.
5. Иванова В.И., Матвейчик Т.В. Мейірбике ісін ұйымдастыру, Минск, 2006.«Мейірбике ісі» журналы,
6. «Медицналық көмек» журналы.

15. Department of Emergency Medicine and Nursing

16. Level of training: Master's degree

17. EP: Nursing services

18. Course: 1 (profile)

19. Name of the elective discipline: Nursing profession in the healthcare system of the Republic of Kazakhstan

20. Number of credits: 5

21. The purpose of the discipline: Training in patient care skills and mastering the basics of theory; students' mastery of the basics of professional skills of a nurse, mastering the nursing process at the level of a scientific method of providing nursing care. Tasks of nursing education. Training methods. Development of individual education and parallel learning. Methods for assessing knowledge, skills, attitudes, competencies, and practical education.

8. Objectives of the discipline:

- Training in the theoretical and practical basics of patient care in medical institutions;
- Training in mastering the principles of professional ethics and deontology, the culture of thinking, the ability to present, analyze, perceive information, set goals and choose ways to achieve them;
- Training in interaction with colleagues and working in a team, including as part of a medical team, in accordance with the approved Procedure for providing medical care to patients;

9. Content of the discipline:

Nursing in the healthcare system of the Republic of Kazakhstan. Subject, place, and role of public health and prevention programs. Organization and management of the nurse's work. Fundamentals of evidence-based nursing practice, integration of scientific data with the nurse's clinical experience and patient values, critical thinking and decision-making.

10. Justification for choosing a discipline: Nursing is an important part of the healthcare system, which has significant human resources and real potential to meet the needs of the population for affordable health care. The subject of the research is the maintenance of accounting and reporting documentation, organization of nursing services at various levels, organization of collection and processing of medical and statistical data, development of methodological and educational materials for training and advanced training of nursing personnel. In the process of studying disciplines, a theoretical basis is formed.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
Summing up the results of their actions to promote the patient's health, rehabilitation and prevention of diseases;	Able to use patient-oriented learning tools and methods;	Summarizing their actions to promote patient health, rehabilitation and disease prevention;
- Demonstrates basic patient-oriented counseling skills in a simulation	environment; - Identifies factors that influence the main stages of rational solutions to problems and factors, as well as patient-oriented training;	- Demonstrates their knowledge and skills when communicating with patients, relatives, relatives, etc. colleagues;
- Is able to draw up a patient-oriented plan, using proven data for health promotion and disease prevention	-Naukastarga bagytagan okytuda turaksydzandyrylgan maselerdi zhoyuga kabiletti.	- Demonstrates their knowledge and skills in providing information about their work.

23. Prerequisites: Specialized nursing care

24. Post-requests: Managing the quality of medical care.

25. Literature

Mainpage:

9. Қалқабаева, С. А. Бірінші медициналық көмек: оқу құралы / С. А. Қалқабаева; Оңтүстік Қазақстан мемлекеттік медицина академиясы. Shymkent: OKMA Publ., 2008, 221 p. 897-897 897
10. First medical aid: textbook. manual for students. sred. prof. ucheb. institutions / P. V. Glybochko [et al.]. - Moscow: Publishing Center "Akademiya", 2007. - 240 p.
11. First aid: help. manual / E. E. Tribis. - Moscow: VLADOS-PRESS, 2005. - 214 p. - Tribis, E. E.

12. Uzhegov G. N. First medical aid: monograph / G. N. Uzhegov. Smolensk: Rusich Publ., 2001, 416 p.

Additional:

7. Akanov A. A. Population health and public health of the Republic of Kazakhstan.- 2nd edition. Эверо,оқулық 2014
8. Қаныбеков, А. Медбикенің іс-әрекеттері : оқулық бағдарлама / А. Қаныбеков. - ; KR DSM RCITMON басп. ұсынған. Almaty : Evero Publ., 2014, 476 p. (in Russian)
9. Syzdykova, K. Sh.Syzdykova K. Sh., Ryskulova A. R., Tulebaev Zh. S. [Management in healthcare: a textbook]. - Almaty: IP Publishing House "Aknur", 2015. - 236 p.

9. Department of Emergency Medicine and Nursing

10. Level of training: Master's degree

11. EP: Nursing services

12. Course: 1 (profile)

13. Name of the elective discipline: Managing the quality of medical care.

14. Number of credits: 5

15. The purpose of the discipline: formation and consolidation of stable knowledge, skills and abilities of undergraduates in the specialty "Nursing", preparation for the development of specialized disciplines

16. Objectives of the discipline:

- study of approaches to the problem of the influence of the quality of the medical and diagnostic process on the quality of services of middle-level medical personnel;
- research of approaches to the problem of assessing and controlling the quality of services of secondary medical personnel and the quality of nursing care in the recovery process;
- training of undergraduates in organizational and methodological approaches to ensuring the quality of nursing care, based on the standardization of the activities of secondary medical personnel, documentation of the nursing process, and conducting an expert examination of the quality of nursing care.

9. Content of the discipline: Quality management system. Basic functions of quality management. Methods and types of nursing care quality management. Factors affecting the quality of nursing care. Criteria for assessing the quality of nursing care. The main ways and directions of improving the quality of nursing care. Quality management of current processes at the level of secondary medical personnel. Expert assessment of the quality of nurses ' work.

10. Justification for choosing a discipline: A career as a nurse manager comes with a large set of functions and responsibilities. A nurse manager is the head of a hospital's nursing department, and all nurses work under the supervision of a nurse manager. A nurse manager usually works in large hospital facilities, and also has management and assign responsibilities to all nurses. There is always a flow of patients in the hospital, and the nurse manager ensures that every patient receives proper attention and care. Nursing and managing a nurse's job is at the core of a nurse manager's job.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
- Demonstrates knowledge and is able to use their knowledge to identify patient problems and make a nursing diagnosis for people of different ages.	- Demonstrates the most advanced skills of high-quality nursing, focused on the safe patient using modern methods.	- Demonstrates skills in self-directed nursing of patients/families at home and disease management.
- Demonstrates acritical understanding of the theories and principles offoreignro affairs, andmaintains professional ethics	- Is able to apply практике nursing diagnostics in practiceз.	- Is able to work actively at the operational, strategic and tactical levels in the family and society, in order to

and confidentiality in accordance with legal standards.		strengthen the health of individuals.
- Conducts patronage of patients using medicalyю documentationю.	-Demonstrates nursing skills.	

11. Prerequisites: Leadership in nursing

12. Post-requests: Modern paradigms of nursing development

13. Literature

Mainpage:

5. Қаныбеков, А. Емшара және таңу бөлмелерінің мейірбикелерінің іс - әрекеттері: оқулық / А. Қаныбеков, А. Қаныбекова. Almaty : Evero Publ., 2017, 200 бет. p.
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15. Golubeva A. P. Teoreticheskie osnovy upravleniya kachestvom meditsinskoy pomoshchi [Theoretical foundations of quality management of medical care]. 2003. - No. 2. - pp. 41-47.
16. Grekov I. G. Kriterii otsenki klinicheskoi deyatel'nosti sestrinskikh sluzhbymulti-profile hospitals [Criteria for assessing the clinical activity of nursing services in a multidisciplinary hospital]. - 2001. - No. 8. - pp. 35-41.
17. Grekov I. G. Nekotorye podkhody k klassifikatsii sestrinskikh proizvodstvennykh funktsii [Some approaches to classification of nursing production functions]. 2004. - No. 6. - pp. 49-53.
18. Nurmanova, M. Sh. Collection of standards of nursing technologies in the discipline "Fundamentals of nursing" - Karagandy: ZHK "Aknur", 2013

13. Department of Emergency Medicine and Nursing

14. Level of training: Master's degree

15. EP: Nursing services

16. Course: 1 (profile)

17. Name of the elective discipline: Modern paradigms of nursing development

18. Number of credits: 2

19. The purpose of the discipline: Substantiation of norms and criteria when working as an administrative and pedagogical nursing specialist.

20. Objectives of the discipline:

- Mastering the knowledge, skills, views, competencies and methods of evaluating practical education;
- Study of the peculiarities of training in nursing and development paradigms at work;
- Organization of continuous professional development of specialists in postgraduate education and nursing.

21. Content of the discipline:

22. Justification for choosing a discipline:

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)

- Demonstrates the importance of the development paradigm in nursing;	- Uses information and communication technologies and uses a reference base, information base at a professional level;	- Uses verbal and non-verbal communication skills when communicating with patients;
- Demonstrates the paradigm of nursing development and its importance in healthcare;	- Is able to collect information from the Internet in connection with an emergency situation;	- Can review the management organization system and aspects and problems of management;
- Summarizes its actions to promote the patient's health, rehabilitation and prevention of diseases.	- Analyzes databases and other information resources and solves professional issues.	- Owns and is able to apply organizational aspects of management.

11. Prerequisites: Nursing in primary health care

12. Post-requests: Quality management of medical care

13. Literature

Mainpage:

1. Borisov K. N., Alekseev V. A., Shurandina I. S., Health for All a strategy of Finland // Rosmedportal. kom. 2011. №2 URL: <http://www.rosmedportal.com/>

2. Kasafutdinova G. T., Baisugurova V. Y. Current state of nursing in developed countries: expanding nursing practice // KazNMU Bulletin. 2013. no. pp. 303-306.

Additional:

1. Abdrakhmanova A. O., Kalieva M. A., Baigozhina Z. A., Khandillaeva M., Kabdrakhmanova N. M., Problemy meditsinskikh sester i puti ikh resheniya v Respublike Kazakstan (Problems of Nursing and their solutions in the Republic of Kazakhstan) // Mezhdunarodnyi zhurnal prikladnykh i fundamental'nykh issledovaniy. 2014. No. 11, pp. 96-99.

2. Muratbekova S. K., "Fundamentals of nursing", Kokshetau,.;2010.

3. Mukhina S. A., Tarnovskaya I. I., Practical guide to the subject "Fundamentals of nursing", Moscow: GEOTAR-Media, 2013.

4. Koryagina N. Yu., Shirokova N. V., Nagovitsina Yu. A., Shilina E. R., Tsybalyuk V. R. "Organization of specialized nursing care" GEOTAR-Media, 2013.

1. Department of Emergency Medicine and Nursing

2. Level of training: Master's degree

3. EP: Nursing services

4. Course: 1 (profile)

5. Name of the elective discipline: Information and communication technologies and digitalization in healthcare and nursing

6. Number of credits: 3

7. The purpose of the discipline: formation and consolidation of stable knowledge, skills and abilities in the specialty "Nursing", preparation for the development of specialized disciplines.

8. Objectives of the discipline:

- Development of a scientifically based knowledge system for undergraduates, which can be designated as "nursing science".
- introduction of the new and improved nursing management system for undergraduates
- improvement of the system of training, advanced training and use of nursing personnel in accordance with the acquired knowledge.
- familiarization of undergraduates with new forms and technologies of organization of nursing activities, expanded scope of nursing care
- training of undergraduates in nursing by promoting the development of professional nursing associations and involving them in the reform of nursing.

9. Content of the discipline: Modern aspects of medical and nursing informatization: Information technologies (IT), classification of health care information systems; medical and integrated; definition, tasks, basic concepts of medical information resources; information and

telecommunications technologies and Internet resources for medicine and nursing; fundamentals of telemedicine, information security

10. Justification for choosing a discipline: Improving the quality of medical care largely depends on the level of development of professional competence, professional culture and potential of nursing professionals, since Nursing in the field of healthcare remains an integral part of the healthcare industry, which has real potential and extensive human resources to meet the ever-increasing needs of society for health services..

Compared to other medical sciences, Sestrinskoe delo is considered a relatively young science, which is in the process of formation. As in many countries of the world, the Republic of Kazakhstan connects its development with a rethinking of the content of the professional activity of a nurse and the creation of a fundamental basis for nursing, the foundations of the individuality of the profession of a nurse.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
Knows the basic laws of the Republic of Kazakhstan, legislative and regulatory documents in the field of healthcare;	Can work with regulatory and structural documentation.	Can set up professional, personal and corporate contacts.
Knows the principles of implementing new technologies;	Knows how to appreciate new technologies and implement them.	Able to find ways to solve information search tasks, ready for personal and professional growth;
Knows the types of new technologies;	Can use new technologies.	Has flexible and creative thinking;
Knows specialized characteristics in the specialty "Nursing business"	Uses new technologies in the organization and implementation of individual needs and problems of the patient	He treats the results of his work and the work of the team with high responsibility.

11. Prerequisites: Organization of research in nursing

12. Post-requests: Quality management of medical care

13. Literature

Main:

Қаныбеков, А. Медбикелердің іс – әрекеттері. 2-бөлім: оқулық бағдарлама / А. Қаныбеков. Алматы : Evero Publ., 2016. 260 бет s

Additional:

Қаныбеков, А. Медбикелердің іс – әрекеттері. 2-бөлім: оқулық бағдарлама / А. Қаныбеков. Алматы : Evero Publ., 2016. 260 бет s

1. Department of Emergency Medicine and Nursing

2. Level of training: Master's degree

3. OP: Nursing services

4. Course: 1 (profile)

5. Name of the elective discipline: Emergency conditions BLS, ACLS, PALS

6. Number of credits: 4

7. The purpose of the discipline: Formation of knowledge and skills in planning, organizing, and implementing the nursing process in emergency medicine and emergency medical care to solve the problems of a patient in a dangerous situation.

8. Objectives of the discipline:

- providing undergraduates with knowledge about the structure, equipment, and organization of emergency medical care teams;
- training in the implementation of the nursing process in the most common emergency situations;
- training in the implementation of medical and infectious hygiene measures organized in emergency situations at the sites of natural disasters.

9. Content of the discipline: Basic resuscitation-Basis Life Support, advanced cardiopulmonary resuscitation-Advanced Cardiac Life Support. Advanced decision-making in Pediatrics-Pediatric Advanced Life Support. Recommendations of the European Council for Resuscitation 2010. fundamentals of clinical diagnosis of terminal conditions. Primary and secondary assessment of the patient and victim. Closed heart massage. The Safar method. Heart defibrillation technique. Tracheal intubation.

10. Justification of the choice of discipline: The value of the discipline is revealed in the organizational work of the ambulance station and in emergency situations, in the provision of assistance, in the diagnostic approach and resuscitation. An emergency situation is a life - threatening situation that requires urgent medical attention.

Learning outcomes (competencies):

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
It can differentiate clinicsy in surgical, urological, oncological, infectious, nervous, mental, children's, eye, obstetric and gynecological diseases, различа, distinguish themain symptoms and syndromes of non-emergency conditions common in clinical practice, emergenciesx ситуаций, catastrophes.	СоблюдаObserve thenorms of medical ethics and morals in each type of professional communication.	Able to buildpractical, professional and collective relationships;
knows the principles of the impact of physical, mental and social factors on various human organs and systems in extreme conditions	Able to getthe necessary medical information about a patient in need of emergency medical	carecan solve the problem of data retrieval;
Knows medical accounting and reporting documentation, regulatory and legal documentation cfrom the emergency medical service.	Knows the equipment, structure, organizational work of the ambulance service, the specifics of the work of the ambulance organization, including specialized ones.	I want todevelop personally and professionally.

26. Prerequisites: Nursing care for immediate and urgent conditions

27. Post-requests: Information and communication technologies and digitalization in healthcare and nursing

28. Literature

Mainpage:

7. Қ.М. Тұрланов, С.А.Қалқабаева Жедел медицина жәрдем. Оқулық. Алматы, 2004-330 бет.
8. Орта медициналық қызметкерлер үшін нұсқау + CD / Ю.П. Никитина, А.М. Чернышева редакциясымен. - М, 2007. -992 б.
9. Верткин АЛ. Шұғыл медициналық көмек. Фельдшерлерге нұсқау: оқулық - 3-ші баспа. - М., 2008. -400 б.

Additionalinformation:

7. С.А.Қалқабаева Бірінші медициналық көмек. Оқу құралы. Бірінші басылым. Shymkent, 2008-220 бет.
8. Иванова В.И., Матвейчик Т.В. Мейірбике ісін ұйымдастыру, Минск, 2006.«Мейірбике ісі» журналы,
9. «Медицнналық көмек» журналы.

1. Department: Pharmacology, Pharmacotherapy and Clinical Pharmacology

2. Level of training: master

3. Specialty: "Medicine", scientific and pedagogical

4. Course: 1

5. Name of elective discipline: "Interaction and interchangeability of drugs"

6. Number of loans: 5

7. Purpose: to teach undergraduates in the OP "Medicine" to conduct rational pharmacotherapy of various diseases in their practical activities, taking into account the interaction of drugs and to conduct the optimal selection and replacement of a drug.

8. Tasks:

- To teach to predict and evaluate the side effects of drugs, taking into account the individual characteristics of the patient;
- To teach the optimal selection and replacement of a drug if necessary in order to improve the rationality of pharmacotherapy.

9. The content of the discipline: Interaction of drugs - a change in the pharmacological action or strength of one drug while prescribing another drug. This can lead to either an increase or a weakening of the action of the drug, the appearance of toxicity of one or both drugs. Drug Interaction Mechanisms .

The main types of interaction: pharmacokinetic (changes in drug absorption, changes in distribution, metabolic disturbances, drug interactions during metabolism, induction and inhibition of metabolic enzymes) and pharmacodynamic (addiction, superraddition, antagonism).

10. Justification of the choice of discipline: The elective discipline "Interaction and interchangeability of medicines" is the final link in the chain of study of biomedical disciplines at the Faculty of Medicine. As an integrative subject, "Interaction and Interchangeability of Medicines," it combines a number of logically related, harmoniously complementary disciplines: pharmacology, biochemistry, clinical pharmacology, evidence-based medicine, genetics, pharmacogenetics, pharmaceutical chemistry and biochemistry.

11. Learning outcomes (competency):

Knowledge (cognitive sphere)	Skills (psychomotor sphere)	Personalities and professional competencies (relationships)
<ul style="list-style-type: none">- Knows the features of the pharmacokinetics and pharmacodynamics of drugs and methods for assessing the quality of life of a particular patient- Knows risk factors and clinical manifestations of major adverse drug reactions.- Knows methods for assessing the quality of life, the basic principles of dosage of drugs, depending on the pathological and physiological parameters of the human body.- Knows the main types of drug interactions.- Knows methods for assessing the clinical	<ul style="list-style-type: none">- Able to make the choice of the most effective and safe and affordable medicines, for the rational use of drugs, taking into account age-related aspects and the condition of patients, determine the optimal dosage regimen;- Able to choose methods of monitoring the safety of treatment and predict the risk of side effects of drugs;- Able to provide informational and advisory assistance to doctors in choosing the dosage form of the drug, dose, frequency and duration of drug administration.	<ul style="list-style-type: none">- Competent in determining the causes and consequences of irrational use of drugs;- Understands the strengths and weaknesses of various strategies to improve drug use;- Advises doctors on the rational use of drugs.- Conduct a consultation of doctors and patients;- Formulates the problems of rational use of medicines.- He argues the formulary list based on the protocol of treatment.

<p>efficacy and safety of drugs, and methods of working with doctors to increase their knowledge of personalized medicine.</p>	<ul style="list-style-type: none"> - Able to use types of literature (educational, scientific, reference) and computer databases on clinical pharmacology and evidence-based medicine. - Is able to control and make a forecast of the risk of side effects of drugs; - Able to prevent and apply correction methods when they occur; - Able to apply clinical protocol diagnostics and treatment of diseases. 	
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12. Prerequisites: pharmacology, biochemistry, clinical pharmacology, evidence-based medicine, genetics, pharmacogenetics, molecular biology.

13. Post requisites: professional development.

14. Literature:

Primary:

1. Kalieva, S. S. Clinical pharmacology and rational pharmacotherapy. Volume 1: textbook / Sh. S. Kaliev., N. A. Minakova. - Almaty: Evero, 2016. -- 460

2. Kalieva, C. S. Clinical pharmacology and rational pharmacotherapy. Volume 2: textbook / S. S. Kaliev, N. A. Simokhin. - Almaty: Evero, 2016. -- 288 p.

3. Greenhalh T. Fundamentals of evidence-based medicine: textbook: translation from English / ed. G.S. Kemelov; Audit in the Kazakh language. Sagadatova TK –M. : GEOTAR-Media, 2014

4. Kulmaganbetov, I. R. Pharmacology Clinic. Line 1: About Uralsk / I.R. Kulmaganbetov. - Almaty: Euro, 2014. -- 320 p.

5. Kulmaganbetov, I. R. Pharmacology Clinic. Part II: reading Uralsk / I.R. Kulmaganbetov. - Almaty: Euro, 2014. -- 392 p.

6. Petrov VI Medicine, based on evidence: textbook. allowance / VI Petrov, SV Недогода.-; Пек. Educational-methodical unit. on med. and farm. education of Russian universities. - M. : ГЭОТАР- Медиа, 2012

Additional:

1. Rational pharmacotherapy in oncology: hand, for practicing physicians / ed. MI Davydova, VA Gorbunova. - M. : GEOTAR- Media, 2015. -844p.

2. Petrov VI Clinical pharmacology and pharmacotherapy in real medical practice: master class: textbook / VI Petrov.-; Пек. GOU DPO "Russian Med. acad. postgraduate education. - M. : - M.: GEOTAR-Media, 2011. -- 880 p.: Ill.

3. Lecture complex - the subject of using the results of the lesson: lecture complex / pharmacology, pharmacotherapy, clinic wife, pharmacology of the department. - Shymkent: SKSPhA, 2016. - 65 p.

4. Rakhimov K.D. Guidelines for the safe use of medicines: a guide / K.D. Rakhimov, K.A. Zordinova; Ministry of Health of the Republic of Kazakhstan; Almaty state Institute of Advanced Doctors Research Institute of Pharmacology and Toxicology; National Acad. Sciences of the Republic of Kazakhstan. - Almaty: B. and., 2009.- 244s.

Electronic editions:

1. Petrov, V. I. Clinical pharmacology and pharmacotherapy in real medical practice, master class [Electronic resource]: textbook / V. I. Petrov. - The electron. text data (63.5 MB). - M.: Publishing Group "GEOTAR-Media", 2011. - 880 p. email opt. disk (CD-ROM).

2. .. Doctor's consultant. Clinical Pharmacology. Version 1.1 [Electronic resource]: manual. - The electron. text data (132 Mb). - M.: Publishing Group "GEOTAR-Media", 2010. - Email. opt. disk (CD-ROM).