

## The catalog of elective disciplines

1. **Department of Neurology, Psychiatry, Rehabilitation and Neurosurgery**
2. **Residency**
3. **Educational program** «Physical medicine and rehabilitation for adults, children»
4. 2 course
5. **Discipline:** Medical rehabilitation of patients with respiratory diseases
6. **Number of credits:** 4 credits
7. **The purpose of the discipline:** training of doctors specializing in rehabilitation medicine to independently provide qualified care to patients with problems of the respiratory system.
8. **Contents of the discipline:** effective treatment and use of adequate methods of restorative drug and non-drug therapy in children and adults with diseases of the respiratory system, traumatic, inflammatory, vascular, tumor, infectious-toxic, congenital origin.
9. **Tasks:**
  - Train residents to determine routing for patients with respiratory diseases.
  - Train residents in the use of adequate methods of restorative drug and non-drug therapy in children and adults with diseases of the respiratory system.
  - Train residents to provide emergency qualified medical care to patients with diseases of the respiratory system in order to restore and improve the function of external respiration and the cardiovascular system and ability to work.
10. **Rationale for the choice of discipline:**  
Pulmonary rehabilitation is the use of supervised exercise, education, support and behavioral interventions to improve the functioning of people with chronic lung disease in daily life and improve their quality of life.

### 11. Learning outcomes

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
<p>Knows the issues of organizing rehabilitation for adults and children suffering from respiratory diseases.</p> <p>Knows human anatomy and topographical anatomy.</p> <p>Knows the basic issues of normal and pathological human physiology.</p> <p>Has an understanding of the etiology, classification, pathogenesis, differential diagnosis and rehabilitation, both medicinal and non-medicinal, in adults and children suffering from respiratory diseases.</p>	<p>Knows:</p> <p>clinical symptomatology and syndromology of respiratory diseases in adults and children, their prevention, diagnosis and treatment;</p> <ul style="list-style-type: none"> <li>- differential diagnosis of respiratory diseases;</li> <li>- outcomes and prognosis of respiratory diseases;</li> <li>- basics of pharmacotherapy, routing and rehabilitation methods: physiotherapy, therapeutic massage, and exercise therapy, acupuncture and other treatment methods;</li> </ul>	<p>Able to establish the most trusting relationships with the patient, his relatives, colleagues, and other employees.</p> <p>Applies knowledge in establishing professional, personal and corporate contacts.</p> <p>Strive to improve professional communication skills with students, teachers, patients, observing the rules of dentology and subordination.</p>

12. **Prerequisites:** normal anatomy, path anatomy, normal physiology, path physiology, histology.

13. **Post requisites:** rehabilitation of the respiratory system in children and adults.

### 14. Literature

#### Primary:

1. Реабилитация больных эпилепсией [Текст] / А. А. Есетова, Г. Н. Досыбаева, Т. И. Тулеева // Вестник ЮКМА = ОҚМА хабаршысы. - 2019. - Т.1, №1(85). - С. 31-35.

2. Роль реабилитации в профилактике тяжелой инвалидизации при инсультах [Текст] : тезисы II Междунар. науч. конференции молодых ученых и студентов "Перспективы развития биологии, медицины и фармакологии" Республика Казахстан, Шымкент, 9-10 декабря 2014 г. / Д. Б. Оразалиева, Х. А. Сайтмуратов, Г. М. Батырбекова // ОҚМФА хабаршысы = Вестник ЮКГФА. - 2014. - №4 : Приложение 1. - С. 40-41.
3. Гинсберг, Л. Неврология для врачей общей практики [Электронный ресурс] : учебник / Л. Гинсберг. - 2-е изд., доп. - М. : БИНОМ ; Лаборатория знаний, 2013. - 368 с. <http://elib.kaznu.kz/>

**Additional:**

1. Епифанов, В. А. Реабилитация в неврологии [Текст] : руководство / В. А. Епифанов, А. В. Епифанов. - М. : ГЭОТАР - Медиа, 2014. - 416 с.
2. Абдрахманова, М. Г. Современные принципы реабилитации неврологических больных : учебно методическое пособие / М-во здравоохранения и социального развития РК. КГМУ. - Караганда : ИП "Акнұр", 2015. - 228 с. Дополнительная литература

1. **Department of Neurology, Psychiatry, Rehabilitation and Neurosurgery**
2. **Residency**
3. **Educational program** «Physical medicine and rehabilitation for adults, children»
4. 2 course
5. **Discipline:** Medical and technical means in the system of medical rehabilitation/
6. **Number of credits:** 4 credits
7. **The purpose of the discipline:**

training of doctors in the specialty of rehabilitation doctor, proficient in modern methods and medical technical means for the rehabilitation of adult and pediatric patients.

**8. Contents of the discipline:**

special means for self-care and care; special means for orientation (including guide dogs with a set of equipment), communication and information exchange; special means for training, education (including literature for the blind) and employment; prosthetic products (including prosthetic and orthopedic products, orthopedic shoes and special clothing, eye prostheses and hearing aids); special training and sports equipment, sports equipment.

**9. Tasks:**

- To prepare a doctor-rehabilitologist who has modern theoretical and practical knowledge, methods of using medical and technical means in the system of medical rehabilitation.
- Train residents to identify medical indications and contraindications, on the basis of which the need for technical means of rehabilitation is determined.

**10. Rationale for the choice of discipline:**

Technical means of rehabilitation (TSR) for disabled people include devices containing technical solutions, including special ones, used to compensate for or eliminate persistent limitations in the life activity of a disabled person.

**11. Learning outcomes**

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
<p>Knows the issues of organizing the rehabilitation of patients with somatic pathology and diseases of the nervous system.</p> <p>Knows human anatomy and topographical anatomy.</p> <p>Knows the basic issues of normal and pathological physiology.</p> <p>Knows:</p> <ul style="list-style-type: none"> <li>- classification, etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment of diseases of internal organs, nervous system.</li> </ul>	<p>Able to identify:</p> <ul style="list-style-type: none"> <li>- symptoms and syndromes of pathology of internal organs and nervous system.</li> </ul> <p>Knows:</p> <ul style="list-style-type: none"> <li>- indications and contraindications for the use of medical and technical means in the rehabilitation of patients with diseases of internal organs and the nervous system;</li> </ul>	<p>Able to establish the most trusting relationships with the patient, his relatives, colleagues, and other employees.</p> <p>Applies knowledge in establishing professional, personal and corporate contacts.</p> <p>Strive to improve professional communication skills with students, teachers, patients, observing the rules of dentology and subordination.</p>

**12. Prerequisites:** normal anatomy, path anatomy, normal physiology, path physiology, histology.

**13. Post requisites:** medical and technical means in the system of medical rehabilitation

**14. Literature:**

**Primary:**

1. Диденко Л.Н. Особенности реабилитации инвалидов с нарушением зрительных функций // Медико-социальные проблемы инвалидности. 2019. № 4. – С. 73-76.
2. Епифанов Е.А. Лечебная физическая культура: учебное пособие. – Москва: ГЕОТАР Медия. – 2017. – С. 3-4
3. Ильина И. В. Медицинская реабилитация. Практикум : учеб. пособие для СПО / И. В. Ильина. — М. : Издательство Юрайт, 2019. — 393 с.
4. Кильсенбаев Э. Р. Социальная реабилитация инвалидов с нарушениями зрения / Э.Р. Кильсенбаев // Башкирский государственный университет, г. Уфа, РФ. – 2018. — С. 85-90

5. Корнева С.М. Особенности медицинской реабилитации инвалидов: от программ в рамках господдержки до услуг частных центров / С.М. Корнева – [Электронный ресурс] – URL: <https://www.kp.ru/guide/meditsinskaja-reabilitatsija-invalidov.html>
6. Носкина С.В. Реабилитация больных с нарушением слуха / С.В. Носкина // [Электронный источник] – URL: <http://pactehok.ru/?cat=article&id=1891>
7. Пономаренко Г.Н. Медицинская реабилитация: учебник. М.: ГЭОТАР-Медиа. — 2019. — С. 360.
8. Швиренко И.Р. Проблемные вопросы медицинской реабилитации в современных условиях / И.Р. Швиренко // Университетская клиника. — 2017. — № 3-1 (24). С. 181-187.
9. Хечумян А.Ф. Современные аспекты медицинской реабилитации / А.Ф. Хечумян // Современные вопросы биомедицины. — 2017. — Т. 1. — № 1 (1). — С. 10.

**Additional:**

1. Алиев А.К., Пузин С.Н., Владимирова О.Н., Горяйнова М.В., Пузин С.С. Медико-социальная помощь и медикосоциальная реабилитация пациентов старших возрастных групп, включая инвалидов, с синдромом гипомобильности // Вестник Всероссийского общества специалистов по медико-социальной экспертизе, реабилитации и реабилитационной индустрии. 2023. № 1. С. 7-16.
2. Афанасьева В.В., Потапчук А.А. Особенности программы респираторной реабилитации пациентов, перенесших новую коронавирусную инфекцию covid-19 // Вестник Новгородского государственного университета. 2023. № 2 (131). С. 292-301.
3. Ачабаева А.Б., Кайсинова А.С., Гусов Р.М., Таймазова З.А., Ефименко Н.В., Чалая Е.Н. Природные лечебные факторы в медицинской реабилитации пациентов с постковидным синдромом // Вопросы курортологии, физиотерапии и лечебной физической культуры. 2022. Т. 99. № 6-2. С. 5-11.
4. Березнова В.А. Соблюдение основных принципов реабилитации больных с онмк как показатель эффективности деятельности отделения медицинской реабилитации III этапа // В сборнике: Менеджмент в здравоохранении: вызовы и риски XXI века. Сборник материалов VI Международной научно-практической конференции. Волгоград, 2022. С. 311-313.
5. Богачев Д.Е., Литвинова Е.А. Физическая реабилитация лиц среднего возраста при ишиасе на поликлиническом этапе реабилитации // Научные исследования молодых учёных. сборник статей XVIII Международной научно-практической конференции. Пенза, 2022. С. 225-227.
6. Веремеенко Н.А., Саукина А.В., Перепелица С.А. Интеграция виртуальной реальности в программу немедикаментозного лечения боли и ранней реабилитации // Медицинский вестник ГВКГ им. Н.Н. Бурденко. 2022. № 1 (7). С. 5-14.
7. Володько А.К., Михайлова М.Г. Физическая реабилитация фигуристов после реконструкции передней крестообразной связки на этапе спортивной реабилитации // В сборнике: Физическая реабилитация и спортивная медицина: пути развития. материалы X Всероссийской научно-практической конференции с международным участием. Москва, 2022. С. 32-37.
8. Гайдукова Т.Ю., Куликов А.Г., Львова Н.В., Ксенофонтова И.В., Кочеткова Н.А. Флюктуофорез препарата торфяной грязи в реабилитации пациентов после микродискэктомий // В книге: Физиотерапия. Лечебная физкультура. реабилитация. Спортивная медицина. Сборник материалов VI Всероссийского конгресса. 2023. С. 13-14.

1. **Department of Neurology, Psychiatry, Rehabilitation and Neurosurgery**
2. **Residency**
3. **Educational program «Physical medicine and rehabilitation for adults, children»**
4. **2 course**
5. **Discipline:** Nutritional support in medical rehabilitation
6. **Number of credits:** 4 credits
7. **The purpose of the discipline:**  
training of doctors specializing in rehabilitation medicine to independently provide qualified care to sick adults and children.
8. **Contents of the discipline:**  
nutritional support in medical rehabilitation; methods for assessing nutritional status; clinical signs of malnutrition; modern aspects in rehabilitation with nutrition correction; current aspects of the treatment of etiological nutritional factors; innovative methods of rehabilitation of patients with nutrition correction; non-drug therapy and rehabilitation; the relevance of the problem of organizing rehabilitation activities with nutraceuticals.
9. **Tasks:**

- To prepare a rehabilitation physician who has modern theoretical and practical knowledge of rehabilitation care for patients (adults and children).
- Train residents in the skills and practical skills to carry out the manipulations necessary for the rehabilitation of sick adults and children.
- Train residents to provide nutritional support - a set of measures aimed at creating favorable conditions for patient rehabilitation by increasing body weight and normalizing metabolism.

#### 10. Rationale for the choice of discipline:

Carrying out nutritional support taking into account the increase in the patient's energy needs during rehabilitation procedures allows us to determine the target level of energy supply necessary to achieve the target indicators of patient rehabilitation.

#### 11. Learning outcomes

Knowledge (cognitive sphere)	Skills and abilities (psychomotor sphere)	Personal and professional competencies (relationships)
<p>Knows the issues of organizing the rehabilitation of patients with somatic pathology and diseases of the nervous system.</p> <p>Knows human anatomy and topographical anatomy.</p> <p>Knows the basic issues of normal and pathological physiology.</p> <p>Knows:</p> <ul style="list-style-type: none"> <li>- classification, etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment of diseases of internal organs, nervous system.</li> </ul>	<p>Able to identify:</p> <ul style="list-style-type: none"> <li>- signs of malnutrition in patients.</li> </ul> <p>Knows:</p> <ul style="list-style-type: none"> <li>- correction of nutrition in patients during rehabilitation;</li> <li>- current aspects of the treatment of etiological nutritional factors;</li> <li>- innovative methods of rehabilitation of patients with nutrition correction;</li> <li>- non-drug therapy and rehabilitation;</li> <li>- organization of rehabilitation events with nutraceuticals.</li> </ul>	<p>Able to establish the most trusting relationships with the patient, his relatives, colleagues, and other employees.</p> <p>Applies knowledge in establishing professional, personal and corporate contacts.</p> <p>Strive to improve professional communication skills with students, teachers, patients, observing the rules of dentology and subordination.</p>

**12. Prerequisites:** normal anatomy, path anatomy, normal physiology, path physiology, histology.

**13. Post requisites:** нутрициология в медицинской реабилитации.

#### 14. Literature

##### Primary:

1. Пасечник И. Н., Закревский А. И. Нутритивная поддержка и реабилитация в отделениях реанимации и интенсивной терапии больных пожилого и старческого возраста. Обзор литературы //Вестник интенсивной терапии имени АИ Салтанова. – 2021. – №. 2. – С. 94-102.
2. Чуприна С. Е. и соавт. «Нутритивная поддержка у пациентов с острым нарушением мозгового кровообращения». Журнал неврологии и психиатрии им. С.С. Корсакова. 2018; 118(1): 110–114.
3. Луфт В. М. и др. Руководство по клиническому питанию. – 2016.
4. Медицинская реабилитация: учебник / Епифанов А.В., Ачкасов Е.Е., Епифанов В. - Москва: ГЭОТАР-Медиа, 2015 - 672 с. - Режим доступа:<https://www.studentlibrary.ru/book/ISBN9785970432488.html>

