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**NURSING CARE FOR CORONARY ARTERY DISEASE,  
ANGINA PECTORIS**

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**Annotation**

The causes, principles of diagnosis, prevention and treatment of coronary heart disease (CHD) and angina pectoris are outlined. The main components of nursing care for ischemic heart disease and angina pectoris are presented.

**Key words:** coronary heart disease, angina pectoris, diagnosis, prevention, treatment, nursing care.

Coronary heart disease (CHD) is a disease characterized by a discrepancy between the myocardial need for oxygen and its supply through the coronary blood flow. IHD is one of the most common diseases among the population, especially in economically developed countries. It ranks one of the first places in the structure of morbidity, mortality and disability in the Russian Federation. Population-based epidemiological studies conducted in our country indicate a high prevalence of IHD in developed regions. Classification of coronary heart disease Currently in Russia, the nomenclature of coronary artery disease is used, proposed by a working group of WHO experts in 1979, based on modern ideas about the pathogenesis and course of its various forms: 1. Primary circulatory arrest (sudden coronary death). 2. Angina. 2.1. Angina pectoris. 2.1.1. New onset angina pectoris. 2.1.2. Stable angina pectoris (indicating functional class from I to IV). 2.1.3. Progressive angina pectoris. 2.2. Spontaneous (variant) angina (Prinzmetal's angina). 3. Myocardial infarction. 3.1. Definite. 3.2. Possible. 4. Heart rhythm disturbances. 5. Heart failure. Risk factors for the development of IHD are: 1. Age. The prevalence of coronary artery disease increases with age and is 150 per 100,000 inhabitants at the age of 50 years. 2. Gender IHD is more common in men 45–50 years old (men are affected 4–5 times more often than women). 3. Hypercholesterolemia. The incidence of coronary artery disease is directly

proportional to the level of total blood cholesterol. Moreover, the higher the cholesterol content in LDL relative to HDL cholesterol, the higher the risk of CHD. 4. Smoking, all other things being equal, increases the risk of coronary heart disease by 60%, since carbon monoxide in the blood of smokers damages the endothelium of the coronary arteries and increases platelet adhesiveness. 5. Hypertension. The higher the systolic or diastolic pressure, the greater the likelihood of developing coronary artery disease. 6. Diabetes mellitus, which reduces the lipolytic activity of the vascular wall and causes fibrosis and sclerosis, which contribute to the progression of atherosclerosis. 7. Muscular hypokinesia. Reduces the tension of redox processes and is accompanied by hyperlipidemia. 8. Taking hormonal contraceptives, which consist of estrogens and progesterone, causing metabolic changes. 9. Heredity. A family predisposition to IHD has been proven. Myocardial ischemia develops when there is a discrepancy between the myocardial need for oxygen and its delivery (myocardial oxygen demand increases and coronary blood flow decreases). Nursing process for angina Angina is a clinical syndrome of coronary heart disease, characterized by paroxysmal pain of a compressive nature localized behind the sternum, radiating to the left arm, shoulder and accompanied by a feeling of fear and anxiety. Etiology - risk factors for coronary artery disease, provoking factors (see above). The essence of the disease is that there is a disruption in the flow of blood through the coronary vessels that supply blood to the myocardium, which leads to pain in the heart area or behind the sternum. Angina pectoris is a clinical reflection of acutely developing oxygen starvation (ischemia) of the myocardium. Insufficient blood flow through the coronary arteries can be caused by many reasons: atherosclerotic plaques, spasm of the coronary arteries, myocardial overstrain under heavy physical and nervous stress. The cardiovascular system is closely connected with the cerebral cortex, so severe emotional stress can cause disruption of the innervation of the coronary arteries and contribute to the development of coronary insufficiency angina pectoris. An attack of angina is associated with physical or emotional stress, therefore, with coronary heart disease, we talk about angina pectoris in contrast to reflex angina. There are the following types of angina pectoris (in accordance with the modern international classification: 1. new; 2. stable (indicating the functional class - I, P, III, IV); 3. progressive; 4. spontaneous (special); 5. post-infarction early. All types, except stable, are classified as unstable angina (with the risk of developing myocardial infarction) and require mandatory hospitalization. Clinical picture. The clinical picture of angina is quite characteristic. Typical symptoms of the disease are paroxysmal pain of a compressive nature, localization of pain in the heart and behind sternum, irradiation - to the left half of the chest, left arm, lower jaw. Usually the pain begins in the upper part of the sternum or in the third or fourth intercostal space. Patients feel compression, heaviness, a burning sensation behind the sternum. During an attack, the patient feels a feeling of fear, freezes, being

afraid to move and pressing your fist to the heart area. Attacks of pain occur most often during movement, physical or mental stress, due to increased smoking, cooling. There are angina pectoris (pain occurs during movement, physical stress) and angina at rest (pain occurs at rest, during sleep). During an attack of angina, taking nitroglycerin, as a rule; stops the attack. Body temperature remains normal. Changes in the ECG are not observed or are not persistent, a downward shift of the S-T interval may be observed, and the T wave may become negative. With appropriate treatment, these indicators return to normal. The morphological composition of blood in patients with angina pectoris remains unchanged. Auscultation of the heart does not reveal any specific changes. An attack of angina lasts 1-5 minutes. More a prolonged attack should be considered as a possibility of myocardial infarction. The course of the disease is wavy. Character - periods of remission alternate with periods of increased frequency of attacks. If angina attacks occurred for the first time 1-2 months ago, they speak of new-onset angina pectoris. If they have existed for a long time, and the patient knows under what physical activity it occurs and with what dose of nitroglycerin it is relieved, stable angina is diagnosed. Violation of the attack algorithm (an attack with a lower load is relieved with a larger dose of nitroglycerin) is characteristic of progressive angina. Newly occurring and progressive angina are collectively called unstable and dangerous, as they can be complicated by myocardial infarction. Patients with unstable angina should be hospitalized. Treatment. During an attack of angina, pain must be relieved immediately. The patient is given drugs that dilate the coronary vessels of the heart: nitroglycerin under the tongue. A heating pad is placed at the feet, and mustard plasters are placed on the heart area. If after 3 minutes the pain has not stopped, repeat the use of nitroglycerin under the tongue. If the pain does not stop, call a doctor and administer an analgesic intravenously, and if the pain persists, it is necessary to administer a narcotic analgesic (Promedol), and the patient should have an ECG and decide on the issue of hospitalization with suspected myocardial infarction. Three groups of drugs have a real effect in ischemic heart disease: nitrates (sustac-mite, sustac-forte, nitroorbide), calcium antagonists (nifedipine, verapamil, finoptin, etc.) and b-blockers (anaprilin, trazicor, cordanum, atenolol, etc.) Prescribes antiplatelet agents (acetylsalicylic acid, ticlid, chimes, etc.). During an attack of angina, the patient is provided with complete rest, an influx of fresh air, if there are no mustard plasters, sometimes lowering the left arm up to the elbow into hot water relieves the pain. For emotionally excitable persons, it is advisable to prescribe sedatives: Valocordin (Corvalol) 25-30 drops per dose, Seduxen 1 tablet 2 times a day. Antiatherosclerotic therapy is prescribed. The general principles of treatment include measures to reduce blood pressure, rational diet therapy, and reducing the amount of fluid consumed. Physical therapy, systematic walks, and spa treatment play an important role in the treatment of angina pectoris. Prevention. Primary prevention involves eliminating risk

factors for coronary artery disease. Secondary - in clinical observation, prescribing, if necessary, anti-atherosclerotic therapy, antiplatelet, coronary therapy. For incessant, frequent (many times during the day and night), attacks caused by obliteration of the coronary arteries, surgical treatment is resorted to - coronary artery bypass grafting, etc.

### Recommended reading

1. Saodat, A., Vohid, A., Ravshan, N., & Shamshod, A. (2020). MRI study in patients with idiopathic coxarthrosis of the hip joint. *International Journal of Psychosocial Rehabilitation*, 24(2), 410-415.
2. Axmedov, S. J. (2023). EFFECTS OF THE DRUG MILDRONATE. *Innovative Development in Educational Activities*, 2(20), 40-59.
3. Уроков, Ш. Т., & Хамроев, Х. Н. (2019). Influence of diffusion diseases of the liver on the current and forecast of obstructive jaundice. *Тиббиётда янги кун*, 1, 30.
4. TESHAEV, S. J., TUHSANOVA, N. E., & HAMRAEV, K. N. (2020). Influence of environmental factors on the morphometric parameters of the small intestine of rats in postnatal ontogenesis. *International Journal of Pharmaceutical Research (09752366)*, 12(3).
5. Хамроев, Х. Н. (2022). Toxic liver damage in acute phase of ethanol intoxication and its experimental correction with chelate zinc compound. *European journal of modern medicine and practice*, 2, 2.
6. Gafurovna, A. N., Xalimovich, M. N., & Komilovich, E. B. Z. (2023). KLIMAKTERIK YOSHDAGI AYOLLARDA ARTERIAL GIPERTENZIYANING KECHISHI. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 23(6), 26-31.
7. Komilovich, E. B. Z. (2023). Coronary Artery Disease. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, 3(12), 81-87.
8. Эргашов, Б. К. (2023). Артериальная Гипертония: Современный Взгляд На Проблему. *Research Journal of Trauma and Disability Studies*, 2(11), 250-261.
9. ASHUROVA, N. G., MAVLONOV, N. X., & ERGASHOV, B. Z. K. БИОЛОГИЯ И ИНТЕГРАТИВНАЯ МЕДИЦИНА. *БИОЛОГИЯ*, (4), 92-101.
10. Jamshidovich, A. S. (2023). ASCORBIC ACID: ITS ROLE IN IMMUNE SYSTEM, CHRONIC INFLAMMATION DISEASES AND ON THE ANTIOXIDANT EFFECTS. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, 3(11), 57-60.
11. Jamshidovich, A. S. (2023). THE ROLE OF THIOTRIAZOLINE IN THE ORGANISM. *Ta'lim innovatsiyasi va integratsiyasi*, 9(5), 152-155.
12. Jamshidovich, A. S. (2023). NEPRAL IS USED IN LIVER DISEASES. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 35(3), 76-78.
13. Jamshidovich, A. S. (2023). EFFECT OF TIVORTIN ON CARDIOMYOCYTE CELLS AND ITS ROLE IN MYOCARDIAL INFARCTION. *Gospodarka i Innowacje.*, 42, 255-257.

14. Jamshidovich, A. S. (2024). NEUROPROTECTIVE EFFECT OF CITICOLINE. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, 4(1), 1-4.
15. Jamshidovich, A. S. (2024). THE ROLE OF TRIMETAZIDINE IN ISCHEMIC CARDIOMYOPATHY. *Journal of new century innovations*, 44(2), 3-8.
16. Ачилов Шохрух Шавкиддин угли. (2024). ХИРУРГИЧЕСКИЕ МЕТОДЫ ЛЕЧЕНИЯ АНЕВРИЗМЫ БРЮШНОЙ АОРТЫ . *TADQIQOTLAR*, 30(3), 120–126
17. Ачилов Шохрух Шавкиддин угли (2023). ОСЛОЖНЕНИЯ ПОСЛЕ КОВИДА НА СОСУДАХ НИЖНИХ КОНЕЧНОСТЕЙ. *CENTRAL ASIAN JOURNAL OF MEDICAL AND NATURAL SCIENCES* Volume: 04 Issue: 06 Oct-Nov 2023ISSN:2660-4159, 400-403
18. Ачилов Шохрух Шавкиддин угли (2023). НАЛОЖЕНИЕ ШИВОВ ПРИ ГНОЙНЫХ ПРОЦЕССАХ НА ТКАНИ. *CENTRAL ASIAN JOURNAL OF MEDICAL AND NATURAL SCIENCES* Volume: 04 Issue: 06 Oct-Nov 2023ISSN:2660-4159, 292-297
19. Khamroev, B. S. (2022). RESULTS OF TREATMENT OF PATIENTS WITH BLEEDING OF THE STOMACH AND 12 DUO FROM NON-STEROIDAL ANTI-INFLAMMATORY DRUGS-INDUCED OENP. *Journal of Pharmaceutical Negative Results*, 1901-1910.
20. Nutfilloyevich, K. K. (2023). STUDY OF NORMAL MORPHOMETRIC PARAMETERS OF THE LIVER. *American Journal of Pediatric Medicine and Health Sciences* (2993-2149), 1(8), 302-305.
21. Nutfilloyevich, K. K. (2024). NORMAL MORPHOMETRIC PARAMETERS OF THE LIVER OF LABORATORY RATS. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 36(3), 104-113.
22. Nutfilloyevich, K. K., & Akhrorovna, K. D. (2024). MORPHOLOGICAL CHANGES IN THE LIVER IN NORMAL AND CHRONIC ALCOHOL POISONING. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 36(3), 77-85.
23. Kayumova, G. M., & Namroyev, X. N. (2023). SIGNIFICANCE OF THE FEMOFLOL TEST IN ASSESSING THE STATE OF VAGINAL MICROBIocenosis IN PRETERM VAGINAL DISCHARGE. *International Journal of Medical Sciences And Clinical Research*, 3(02), 58-63.
24. Хамроев, Х. Н., & Тухсанова, Н. Э. (2022). НОВЫЙ ДЕНЬ В МЕДИЦИНЕ. *НОВЫЙ ДЕНЬ В МЕДИЦИНЕ Учредители: Бухарский государственный медицинский институт, ООО "Новый день в медицине"*, (1), 233-239.
25. Хамроев, Х. Н. (2024). Провести оценку морфологических изменений печени в норме и особенностей характера ее изменений при хронической алкогольной интоксикации. *ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ*, 36(3), 95-3.
26. Хамроев, Х. Н., & Тухсанова, Н. Э. (2021). Characteristic of morphometric parameters of internal organs in experimental chronic alcoholism. *Тиббиётда янги кун*, 2, 34.

27. Хамроев, Х. Н., Хасанова, Д. А., Ганжиев, Ф. Х., & Мусоев, Т. Я. (2023). Шошилинич тиббий ёрдам ташкил қилишнинг долзарб муаммолари: Политравма ва ўтқир юрак-қон томир касалликларида ёрдам кўрсатиш масалалари. *XVIII Республика илмий-амалий анжумани*, 12.
28. Хамроев, Х. Н., & Хасанова, Д. А. (2023). Жигар морфометрик кўрсаткичларининг меъёра ва экспериментал сурункали алкоголизмда қиёсий таснифи. *Медицинский журнал Узбекистана | Medical journal of Uzbekistan*, 2.
29. Khamroyev, X. N. (2022). TOXIC LIVER DAMAGE IN ACUTE PHASE OF ETHANOL INTOXICATION AND ITS EXPERIMENTAL CORRECTION WITH CHELATE ZINC COMPOUND. *European Journal of Modern Medicine and Practice*, 2(2), 12-16.
30. Хамроев, Х. Н. (2022). The morphofunctional changes in internal organs during alcohol intoxication. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, 2(2), 9-11.
31. Khamroyev, X. N. (2022). TOXIC LIVER DAMAGE IN ACUTE PHASE OF ETHANOL INTOXICATION AND ITS EXPERIMENTAL CORRECTION WITH CHELATE ZINC COMPOUND. *European Journal of Modern Medicine and Practice*, 2(2), 12-16.
32. Хамроев, Х. Н. (2022). The morphofunctional changes in internal organs during alcohol intoxication. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, 2(2), 9-11.
33. Латипов, И. И., & Хамроев, Х. Н. (2023). Улучшение Результат Диагностики Ультразвуковой Допплерографии Синдрома Хронической Абдоминальной Ишемии. *Central Asian Journal of Medical and Natural Science*, 4(4), 522-525.
34. Хамроев, Х. Н., & Уроков, Ш. Т. (2019). ВЛИЯНИЕ ДИФФУЗНЫХ ЗАБОЛЕВАНИЙ ПЕЧЕНИ НА ТЕЧЕНИЕ И ПРОГНОЗ МЕХАНИЧЕСКОЙ ЖЕЛТУХИ. *Новый день в медицине*, (3), 275-278.
35. Хамроев, Х. Н., & Ганжиев, Ф. Х. (2023). Динамика структурно-функциональных нарушение печени крыс при экспериментальном алкоколние циррозе. *Pr oblemsofmodernsurgery*, 6.
36. Irgashev, I. (2024). COVID-19 INFEKSIYSINI YUQTIRGAN KASALXONADAN TASHQARI PNEVMONIYA BILAN KASALLANGAN BEMORLARDA DROPERIDOL NEYROLEPTIK VOSITASINI QO'LLANILISHI VA UNING DAVO SAMARADORLIGIGA TA'SIRI. *Центральноазиатский журнал образования и инноваций*, 3(1), 12-18.
37. Irgashev, I. E. (2022). New Principles of Anticoagulant Therapy in Patients with Covid-19. *Research Journal of Trauma and Disability Studies*, 1(12), 15-19.
38. Irgashev, I. E. (2023). RESPIRATORY DISTRESS SYNDROME. *Horizon: Journal of Humanity and Artificial Intelligence*, 2 (5), 587–589.
39. Irgashev, I. E. (2023). Pathological Physiology of Heart Failure. *American Journal of Pediatric Medicine and Health Sciences* (2993-2149), 1(8), 378-383.

40. Irgashev, I. E., & Farmonov, X. A. (2021). Specificity of resuscitation and rehabilitation procedures in patients with covid-19. *Central Asian Journal of Medical and Natural Science*, 2(1), 11-14.
41. Ikhtiyarova, G. A., Dustova, N. K., & Qayumova, G. (2017). Diagnostic characteristics of pregnancy in women with antenatal fetal death. *European Journal of Research*, (5), 5.
42. Kayumova, G. M., & Nutfilloyevich, K. K. (2023). CAUSE OF PERINATAL LOSS WITH PREMATURE RUPTURE OF AMNIOTIC FLUID IN WOMEN WITH ANEMIA. *AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI*, 2(11), 131-136.
43. Kayumova, G. M., & Dustova, N. K. (2023). Significance of the femoflor test in assessing the state of vaginal microbiocenosis in preterm vaginal discharge. Problems and scientific solutions. In *International conference: problems and scientific solutions. Abstracts of viii international scientific and practical conference* (Vol. 2, No. 2, pp. 150-153).
44. Каюмова, Г. М., Мухторова, Ю. М., & Хамроев, Х. Н. (2022). Определить особенности течения беременности и родов при дородовом излитии околоплодных вод. *Scientific and innovative therapy. Научный журнал по научный и инновационный терапии*, 58-59.
45. Kayumova, G. M., & Dustova, N. K. (2023). ASSESSMENT OF THE STATE OF THE GENITAL TRACT MICROBIOCENOSIS IN PREGNANT WOMEN WITH PREMATURE RUPTURE OF THE MEMBRANES USING THE FEMOFLOL TEST. *Modern Scientific Research International Scientific Journal*, 1(1), 70-72.
46. Valeryevna, S. L., Mukhtorovna, K. G., & Kobyllovna, E. S. (2019). Premature Birth In A Modern Aspect. *International Journal of Bio-Science and Bio-Technology*, 11(10), 31-37.
47. Саркисова, Л. В., Каюмова, Г. М., & Умидова, Н. Н. (2018). Морфологические изменения фетоплацентарного комплекса при герпетической инфекции. *Тиббиётда янги кун*, 188-191.
48. Каюмова, Г. М., Саркисова, Л. В., & Умидова, Н. Н. (2018). Современные взгляды на проблему преждевременных родов. *Тиббиётда янги кун*, 183-185.
49. Каюмова, Г. М., Хамроев, Х. Н., & Ихтиярова, Г. А. (2021). Причины риска развития преждевременных родов в период пандемии организм и среда жизни к 207-летию со дня рождения Карла Францевича Рулье: сборник материалов IV-ой Международной научнопрактической конференции (Кемерово, 26 февраля 2021 г.). ISBN 978-5-8151-0158-6.139-148.
50. Саркисова, Л. В., Каюмова, Г. М., & Бафаева, Н. Т. (2019). Причины преждевременных родов и пути их решения. *Биология ва тиббиёт муаммолари*, 115(4), 2.
51. Kayumova, G. M., & Dustova, N. K. (2023). Significance of the femoflor test in assessing the state of vaginal microbiocenosis in preterm vaginal discharge. Problems and scientific solutions. In *International conference: problems and*

scientific solutions. Abstracts of viii international scientific and practical conference (Vol. 2, No. 2, pp. 150-153).

52. KAYUMOVA, G., & DUSTOVA, N. (2023). Features of the hormonal background with premature surge of amniotic fluid. Of the international scientific and practical conference of young scientists «Science and youth: conference on the quality of medical care and health literacy» Ministry of healthcare of the republic of kazakhstan kazakhstan's medical university «KSPH». ISBN 978-601-305-519-0.29-30.
53. Қаюмова, Г. М. НҚ Дўстова.(2023). Muddatdan oldin qog'onoq suvining ketishida xavf omillarning ta'sirini baholash. *Журнал гуманитарных и естественных наук*, 2(07), 11-18.
54. Каюмова, Г. М., & Мухторова, Ю. М. (2022). Пороговые значения антител к эстрадиолу, прогестерону и бензо [а] пирену как факторы риска преждевременного излития околоплодных вод при недоношенной беременности. *Scientific and innovative therapy. Научный журнал по научный и инновационный терапии*, 59-60.
55. Sarkisova, L. V., & Kayumova, G. M. (2019). Exodus of premature birth. *Тиббиётда янги кун*, 1(25), 155-159.
56. Саркисова, Л. В., & Каюмова, Г. М. (2018). Перинатальный риск и исход преждевременных родов. *Проблемы медицины и биологии*, 169-175.
57. Каюмова, Г. М., Саркисова, Л. В., & Рахматуллаева, М. М. (2018). Особенности состояния плаценты при преждевременных родах. In *Республиканской научно практической конференции «Актуальные вопросы охраны здоровья матери и ребенка, достижения и перспективы»* (pp. 57-59).
58. Каюмова, Г. М., Саркисова, Л. В., & Саъдуллаева, Л. Э. (2018). Показатели центральной гемодинамики и маточно-фетоплацентарного кровотока при недонашивании беременности. In *Республиканской научно практической конференции «Актуальные вопросы охраны здоровья матери и ребенка, достижения и перспективы»* (pp. 56-57).
59. Саркисова, Л., Каюмова, Г., & Рузиева, Д. (2019). Современные тренды преждевременных родов. *Журнал вестник врача*, 1(4), 110-114.
60. Каюмова, Г. М., & Ихтиярова, Г. А. (2021). Причина перинатальных потер при преждевременных родов у женщин с анемией.(2021). In *Материалы республиканской научно-практической онлайн конференции.«Актуальные проблемы современной медицины в условиях эпидемии»* (pp. 76-7).
61. Kayumova, G. M., Khamroyev, X. N., & Ixtiyarova, G. A. (2021). Morphological features of placental changes in preterm labor. *Тиббиётда янги кун*, 3(35/1), 104-107.
62. Khamroyev XN, Q. G. (2021). Improving the results of treatment of choledocholithiasis in liver diseases.
63. Kayumova, G. M. (2023). TO DETERMINE THE FEATURES OF THE COURSE OF PREGNANCY AND CHILDBIRTH IN WOMEN WITH PRENATAL RUPTURE OF AMNIOTIC FLUID. *AMALIY VA TIBBIYOT FANLARI ILMiy JURNALI*, 2(11), 137-144.



64. Kayumova, G. M. (2023). To Determine the Features Of Pregnancy and Children During Antenature Ruption Of Ambient Fluid. *American Journal of Pediatric Medicine and Health Sciences* (2993-2149), 1(9), 66-72.
65. Kayumova, G. M. (2023). Features of the Hormonal Background During Premature Relation of Ambitionial Fluid. *American Journal of Pediatric Medicine and Health Sciences* (2993-2149), 1(9), 73-79.
66. Kayumova, G. M. (2023). The Significance Of Anti-Esterogen And Progesterone Antibodies As A Risk Factor In Premature Rupture Of Amniotic Fluid. *American Journal of Pediatric Medicine and Health Sciences* (2993-2149), 1(9), 58-65.