

Available Online at: https://www.scholarexpress.net

Volume-31, February 2024

ISSN: 2749-3644

THE ROLE OF ISCHEMIC MYOCARDIAL WALL DAMAGE ON THE CLINICAL COURSE OF UNSTABLE ANGINA PECTORIS IN MEN OF WORKING AGE

Khasanjanova F.O.^{1,2}, Akhmadov M.A.²

1. Samarkand State Medical University.

2. Samarkand regional branch of the Republican Scientific and Practical Specialized Medical Center of Cardiology, Samarkand, Uzbekistan.

Article history:		Abstract:
Received: Accepted: Published:	December 4 th 2023 January 4 th 2024 February 6 th 2024	In this work, the clinical features of the course of unstable angina pectoris were studied depending on ischemic myocardial damage in patients at a young age. 150 patients with unstable angina pectoris were examined on the basis of the Samarkand regional branch of the Republican Scientific and Practical Specialized Medical Center of Cardiology. All patients, depending on their age, were divided into 2 groups: the first main group consisted of 76 young patients. The second comparative group consisted of 74 elderly patients. The most common occurrence of angina attacks from 6 to 8 times during the day was observed in 55 (67.5%) patients of group 1, in 52 (78.8%) patients in group 2, which indicated the severity of the disease. According to ECG data, ischemic lesion of more than two walls was most often observed in young people, and scarring was most often observed in older men, this was due to a previous history of AMI.

Keywords: unstable angina pectoris, young age, old age, ischemia, anginal pain, etc.

INTRODUCTION:

Despite the existence of many strategies for the prevention and treatment of cardiovascular diseases, coronary heart disease (CHD) remains the leading cause of death worldwide [1, 3, 5, 20]. Coronary heart disease with its various manifestations (different forms of angina pectoris, acute myocardial infarction, its clinical and atypical variants and outcomes) often leads to permanent disability and death. Covering people of working age and mature age, cardiovascular diseases continue to be very common among the population of many countries, leading to premature disability and mortality, occupying a leading position among the most important modern medical problems. According to WHO, more than 9 million people die from coronary heart disease every year (WHO 2019).

Numerous clinical and epidemiological studies indicate a progressive decrease in the incidence of morbidity, disability and mortality from coronary heart disease among the world's population, which is especially alarming in young people [2, 4, 6, 21, 29]. The mortality rate from coronary heart disease in people aged 25-34 years is 10:100,000. Unfortunately, a percentage of these patients have a constant tendency to heal. The increase in these indicators among young people under 45 years of age affects society, their future [7, 9, 11, 22]. In the economic countries of the West, about 30% and in the USA

about 35% of the population with coronary heart disease die as a result of damage to the coronary arteries. According to prospective studies, about 5-8% of men aged 20 to 44 years suffer from coronary heart disease [8, 10, 12, 23, 30]. The incidence of coronary heart disease in men under 45 years of age is 1.4-1.5 times higher than in women of this age. Coronary heart disease, which manifested in men at a young age, differs from the elderly in clinical manifestations and prognosis of the disease [13, 15, 17, 24].

In young people, atypical pain behind the sternum is most common, which is due to a tendency to vasospasm, the presence of coronary insufficiency of the microvascular bed, vegetative vascular dystonia (VSD) without connection with coronary artery stenosis (CA). As a rule, in young patients, the occurrence of NS is preceded by a short ischemic history [24, 29, 34] and according to foreign studies, it was found that before the occurrence of a real coronary event, only 24% of young patients sought medical help for anginarelated pain, 69% of patients younger than 45 years had previously had pain for there was no sternum [9, 28, 35]. In most of the young patients, the duration of the angina clinic was observed for several days, and signs of ischemic myocardial damage on an electrocardiogram (ECG) were detected immediately after a painful attack [33, 34].

The clinical course of coronary heart disease at a young age is variable and the disease can debut with



Available Online at: https://www.scholarexpress.net

Volume-31, February 2024

ISSN: 2749-3644

the so-called acute coronary syndrome (unstable angina and acute myocardial infarction) or sometimes the first (and probably the last) manifestation of coronary heart disease is the so-called sudden coronary death [13, 15, 18, 25]. One of the features of coronary heart disease in young patients is the longterm subclinical course of coronary pathology, and coronary heart disease debuts in the form of acute myocardial infarction (AMI) [16, 18, 20, 26, 31]. However, CHD often immediately assumes the character of a chronic disease, clinically manifesting angina pectoris. The remaining cases statistically account for sudden and non-sudden coronary death, and acute coronary insufficiency [16, 18, 20, 27, 32].

Unfortunately, people under the age of 45 are practically not represented in studies, despite the fact that their percentage in the population is growing [8, 11, 13, 28, 33]. Currently, there are only a few studies in our country that affect the prevalence of cardiovascular diseases (CVD) among the working-age population, and the issue of prognosis has been poorly studied, although it seems to be very interesting.

THE PURPOSE OF THE STUDY: to study the features of the clinical course and ischemic myocardial damage in patients with coronary heart disease of young age.

RESEARCH MATERIALS AND METHODS: 150 patients with unstable angina pectoris were examined on the basis of the Samarkand regional branch of the Republican Scientific and Practical Specialized Medical Center of Cardiology from 2021 to 2023, who were divided into 2 groups. The first main group consisted of 76 young patients. The second comparative group consisted of 74 elderly patients. The control group consisted of 110 practically healthy volunteers.

Clinical and anamnestic data and electrocardiography (ECG) data in 12 leads were evaluated in all patients. All patients underwent general clinical examination, echocardiography. electrocardiography, and monitoring was carried out daily, ECHO-KG examination on the 1st, 8th day, laboratory parameters were examined on the 1st, 3rd, 8th day of the patient's stay in the Samarkand regional branch of the RSNPMC.

When collecting anamnesis in men, the presence of coronary heart disease (previously suffered myocardial infarction (MI), stable angina pectoris, unstable angina pectoris of tension or rest) was found out. When questioning the patient, attention was paid to the period preceding the development of coronary heart

disease, as well as to the factors that provoked the development of this disease (excessive physical exertion, infections, psychoemotional stress).

THE RESULTS OF THE STUDY: When studying the frequency of pain attacks during the day in the study groups, the following data were revealed. Angina attacks 3-5 times a day were observed in group 1 in 17 (23.5%) patients, in group 2 in 7 (16.7%), (p<0.0001). Angina attacks 6-8 times a day were observed in 55 (67.5%) patients of group 1, in 52 (78.8%) patients in group 2 (p=0.001). Seizures more than 9 times a day were observed in 24 (29%) patients of group 1, in 15 (24.4%) patients of group 2 (p>0.05).

When questioning all patients with coronary heart disease, attention was paid to the time of occurrence of pain behind the sternum during the day. According to the occurrence of pain attacks during the day, the following data were revealed. Angina attacks that occurred from 01:00 to 06:00 hours were observed in group 1 in 7 patients, in group 2 in 4 (p<0.0001). Angina attacks occurring from 06:00 to 12:00 hours were observed in 28 patients of the 1st group, in 23 patients in the 2nd group (p=0.001). The occurrence of seizures during 12:00-18:00 hours was noted in 24 patients of the 1st group, in 16 (14.4%) patients of the 2nd group, (p>0.05). Angina attacks that occurred from 18:00 to 24:00 hours were observed in group 1 in 16 patients, in group 2 in 12 (p<0.0001).

The following data were revealed on the localization of ischemic changes on the ECG. Ischemic changes in the anterior wall were noted in group 1 in 17 (24.5%) patients, in group 2 in 14 (23.5%) patients (p=0.99). Ischemia of the posterior wall of the left ventricle was noted in 28 (32%) patients of group 1, in group 2 it was detected in 19 (28.3%) patients (p=0.45). Ischemic changes in the anterior septum wall were 2 times higher in patients of group 2 and were noted in 8 (17.7%) patients, in group 1 in 4 (13.2%) patients, respectively (p-0.14). Lateral wall ischemia was detected in group 1 in 3 (2.4%) patients, in group 2 in 2 (10.9%) patients (p=0.81). Ischemia of two or more walls was observed in group 1 in 52 (81.3%) patients, in group 2 in 42 (80.4%) patients (p=0.79) (Fig. 3). Despite the different causes and peculiar course of coronary artery disease, the process of myocardial ischemia is always individual, its features the currents are determined by a set of FR. When providing medical care in a timely manner and in full, the prognosis in patients with coronary heart disease at a young age is significantly better than in older patients.



Available Online at: https://www.scholarexpress.net

Volume-31, February 2024

ISSN: 2749-3644

CONCLUSION. Thus, the most frequent occurrence of angina attacks from 6 to 8 times during the day was observed in 45 (67.5%) patients of group 1, in 42 (78.8%) patients in group 2, which indicated the severity of the disease. According to ECG data, ischemic lesion of more than two walls was most often observed in young people, and scarring was most often observed in older men, this was due to a previous history of AMI.

LIST OF LITERATURE:

- Alimzhanovich, Rizaev Jasur, Saidov Maksud Arifovich, and Farida Odylovna Khasanjanova.
 "THE ROLE OF HIGH-TECH MEDICAL CARE IN THE HEALTH CARE SYSTEM." World Bulletin of Public Health 21 (2023): 138-143.
- 2. Alimzhanovich, Rizaev Jasur, Saidov Maksud Arifovich, and Farida Odylovna Khasanjanova. "ASSESSMENT OF THE DYNAMICS OF **MORBIDITY** AND **MORTALITY FROM** CARDIOVASCULAR DISEASES ΙN THE REPUBLIC OF UZBEKISTAN." World Bulletin of Public Health 21 (2023): 133-137.
- 3. Khasanjanova, F. O. "Differences in the frequency of development of the main complications in patients with acute myocardial infarction." Actual scientific research in the modern world 10-6 (2018): 39-41
- 4. Khasanjanova, F. O., et al. "Features Influence of Risk Factors on Treatment Outcome in Young Patients with Acute Coronary Syndrome with St Segment Elevation." *JournalNX*: 222-226.
- Khasanjanova, F. O. "Predictors of poor prognosis with acute myocardial infarction with ST segment elevation in emergency medical care." Materials of the IV Congress of the Association of Emergency Medical Doctors of Uzbekistan. Vol. 278. 2018.
- Khasanjanova, F. O., and Rofeev M. Sh. "Common risk factors for myocardial infarction in young men with different outcomes of the disease." Actual scientific research in the modern world 10-7 (2019): 87-90.
- Khasanjanova, F. O., et al. "Clinical, hemodynamic and genetic aspects of the development of unstable variants angina in young men." European Journal of Molecular and Clinical Medicine 7.09 (2020): 2122-2139.
- 8. Khasanjanova, F. O., et al. "Features Influence of Risk Factors on Treatment Outcome in Young Patients with Acute Coronary Syndrome

- with St Segment Elevation." JournalNX: 222-226.
- 9. Khasanjanova, F. O., U. A. U. Mardonov, and T. Sh U. Yusupov. "Factors adversely affecting the outcome of treatment of patients with acute coronary syndrome in young and old age." Problems of modern science and education, (11-1 (144)) (2019).
- Khasanjanova, F. O. "Predictors of poor prognosis with acute myocardial infarction with ST segment elevation in emergency medical care." *Materials of the IV Congress of the Association of Emergency Medical Doctors of Uzbekistan.* Vol. 278. 2018.
- Khasanjanova, F. O., D. D. Khaydarova, and B. M. Togayeva. "To study the frequency of the risk factors of smoking in pstients with acute coronary syndrome in young age." *Science, Research, Development* 33: 29-30.
- Khasanjanova, F. O., et al. "Evaluation of the Frequency of Heart Arrhythmias and Indicators of Ventricular Repolarization in Patients with Hypertension Crisis." Scholastic: Journal of Natural and Medical Education 2.5 (2023): 152-156.
- 13. Tajiyev, Tursunpulat Ismoilovich, and Farida Odilovna Xasanjanova. "BO 'LMACHALAR FIBRILLYATSIYASINI SHOSHILINCH DAVOLASH STRATEGIYASI VA TAKTIKASI: MUAMMONING ZAMONAVIY KO 'RINISHI." RESEARCH AND EDUCATION 2.1 (2023): 253-260.
- 14. Агабабян, Ирина Рубеновна, Максуд Арифович Саидов, and Санжар Шухратович Жониев. "YURAK ISHEMIK **KASALLIGI** BO'LGAN KEKSA YOSHDAGI BEMORLARNI TEXNOLOGIK YUQORI USULLAR **BILAN** DAVOLASH." Журнал кардиореспираторных исследований 3.4 (2022).
- 15. Карпов, Юрий Александрович, and Евгений Владимирович Сорокин. Стабильная ишемическая болезнь сердца: стратегия и тактика лечения. Издательство" Медицинское информационное агентство", 2012.
- 16. Одиловна, Хасанджанова Фарида и др. «КЛИНИЧЕСКИЕ, ГЕМОДИНАМИЧЕСКИЕ И ГЕНЕТИЧЕСКИЕ АСПЕКТЫ РАЗВИТИЯ НЕСТАБИЛЬНЫХ ВАРИАНТОВ СТЕНОКАРДОНА У ЮНОШЕЙ». Европейский журнал молекулярной и клинической медицины 7.09 (2021): 2020.
- 17. Одиловна, Хасанджанова Фарида, Самадова



Available Online at: https://www.scholarexpress.net

Volume-31, February 2024

ISSN: 2749-3644

- Нигина Алишеровна, Болтакулова Сарвиноз Дильшодовна. «Роль гена il-1b 3953 c/t в развитии вариантов нестабильной стенокардии у мужчин молодого возраста в условиях скорой медицинской помощи». Web of Scientist: Международный научный исследовательский журнал 3.02 (2022): 362-367.
- 18. Ташкенбаева, Э. Н., Ф. О. Хасанжанова, and Д. Д. Хайдарова. "Влияние факторов риска на исход лечения больных острым коронарным синдромом с подъемом сегмента ST." Евразийский союз ученых (ECY) 9 (2018): 54.
- Ф. О., Х. и Х. А., А. (2023). Особенности Клинического Течения Инфаркта Миокарда С Хронической Сердечной Недостаточностью У Больных В Молодом Возрасте. Центральноазиатский журнал медицины и естествознания, 4 (2), 637-640.
- 20. Ф. О., Х., М. А., С., Х. Ш., Н. и Т. Ш., Ю. (2023). Эффективность Тромболической Терапии У Больных С Острым Коронарным Синдромом С Подъемом Сегмента У Лиц В Молодом Возрасте. Центрально-Азиатский Журнал Медицины и Естествознания, 4 (2), 632-
 - 636. https://doi.org/10.17605/OSF.IO/GNQ8A
- 21. Хасанжанова, Фарида Одыловна. "Роль дислипидемии при развитие ишемической болезни сердца у мужчин в молодом возрасте." Журнал кардиореспираторных исследований SI-2 (2022).
- 22. Хасанджанова, Фарида Одиловна. «ОСОБЕННОСТИ КЛИНИЧЕСКОГО ТЕЧЕНИЯ И ЭЛЕКТРОКАРДИОГРАФИЧЕСКИХ ДАННЫХ ИШЕМИЧЕСКОЙ БОЛЕЗНИ СЕРДЦА У МУЖЧИН В МОЛОДОМ И ПОЖИЛОМ ВОЗРАСТЕ». Евразийский журнал медицинских и естественных наук 2.5 (2022): 227-233.
- 23. Хасанжанова, Ф. О., et al. "Клиническое течение хронической сердечной недостаточности от локализации острого инфаркта миокарда." Евразийский кардиологический журнал S1 (2019): 221.
- 24. Хасанжанова, Фарида Одыловна, and Мумин Шамсиевич Рофеев. "Часто встречаемые факторы риска при инфаркте миокарда у мужчин молодого возраста при разных исходах заболевания." Актуальные научные исследования в современном мире 10-7 (2019): 87-90.

- 25. Хасанжанова, Фарида Одыловна, Улугбек Азимжон Угли Мардонов, and Тохиржон Шомирза Угли Юсупов. "Факторы, неблагоприятно влияющие на исход лечения больных с острым коронарным синдромом В пожилом молодом И возрасте." Проблемы современной науки и образования 11-1 (144) (2019): 94-97.
- 26. Хасанжанова, Фарида Одыловна. "Роль дислипидемии при развитие ишемической болезни сердца у мужчин в молодом возрасте." Журнал кардиореспираторных исследований SI-2 (2022).
- 27. Хасанжанова, Ф. О., et al. "Клиническое течение хронической сердечной недостаточности от локализации острого инфаркта миокарда." *Евразийский кардиологический журнал* S1 (2019): 221.
- 28. Хасанжанова, Фарида Одыловна, Улугбек Азимжон Угли Мардонов, and Тохиржон Шомирза Угли Юсупов. "Факторы, неблагоприятно влияющие исход на лечения больных с острым коронарным синдромом в молодом И пожилом возрасте." Проблемы современной науки и образования 11-1 (144) (2019): 94-97.
- 29. Хасанжанова, Ф. О., and Х. А. Авазова. "Особенности Клинического Течения Инфаркта Миокарда С Хронической Сердечной Недостаточностью У Больных В Молодом Возрасте." *Central Asian Journal of Medical and Natural Science* 4.2 (2023): 637-640.
- 30. Хасанжанова, Фарида Одыловна, and X. А. Авазова. "Особенности Клинического Течения Инфаркта Миокарда С Хронической Сердечной Недостаточностью У Больных В Молодом Возрасте." *Central Asian Journal of Medical and Natural Science* 4.2 (2023): 637-640.
- 31. Пулатов, Шухрат Шуропович, Амира Асроровна Рузиева, апd Фарида Одыловна Хасанжанова. "Аспекты Кардиопротекции Пациентов Хронической Сердечной Недостаточности, Как Последствие Инфаркта Миокарда." *Periodica Journal of Modern Philosophy, Social Sciences and Humanities* 17 (2023): 133-136.
- 32. Аскаров, Иномжон Куддусович, et al. "Предикторы Кардиопротекции Пациентов Хронической Сердечной Недостаточности, Как Последствие Инфаркта Миокарда." *Periodica Journal of Modern*



Available Online at: https://www.scholarexpress.net

Volume-31, February 2024

ISSN: 2749-3644

Philosophy, Social Sciences and Humanities 17 (2023): 137-140.

- 33. Хасанжанова, Фарида Одыловна. "Роль дислипидемии при развитие ишемической болезни сердца у мужчин в молодом возрасте." Журнал кардиореспираторных исследований SI-2 (2022).
- 34. Хасанжанова, Фарида Одыловна. "ВЛИЯНИЕ ТРОМБОЛИТИЧЕСКОЙ ТЕРАПИИ НА СИСТОЛИЧЕСКУЮ ФУНКЦИЮ ЛЕВОГО ЖЕЛУДОЧКА ПРИ ОСТРОМ КОРОНАРНОМ СИНДРОМЕ С ПОДЪМОМ СЕГМЕНТА ST В МОЛОДОМ ВОЗРАСТЕ." Актуальные научные исследования в современном мире 10-7 (2019): 91-95.
- 35. Шальнова, Светлана Анатольевна, and Александр Дмитриевич Деев. "Ишемическая болезнь сердца в России: распространенность и лечение (по данным клинико-эпидемиологических исследований)." Терапевтический архив 83.1 (2011): 7-12.