

A Peer Revieved Open Access International Journal

www.ijiemr.org

COPY RIGHT



ELSEVIER SSRN

2021 IJIEMR. Personal use of this material is permitted. Permission from IJIEMR must

be obtained for all other uses, in any current or future media, including reprinting/republishing this material for advertising or promotional purposes, creating new collective works, for resale or redistribution to servers or lists, or reuse of any copyrighted component of this work in other works. No Reprint should be done to this paper, all copy right is authenticated to Paper Authors

IJIEMR Transactions, online available on 10th Feb 2021. Link:

https://ijiemr.org/downloads/Volume-10/Special

DOI: 10.48047/IJIEMR/V10/I03/01

Title DEVELOPMENT OF CLINICAL MEASURES TO REDUCE THE RISK FACTORS LEADING TO ARRHYTHMIAS IN MYOCARDIAL INFARCTION

Volume 10, Issue 01, Pages: 1-3.

Paper Authors

Xaydarova Sarvinoz Akramovna





USE THIS BARCODE TO ACCESS YOUR ONLINE PAPER

To Secure Your Paper As Per UGC Guidelines We Are Providing A Electronic

Bar Code



A Peer Revieved Open Access International Journal

www.ijiemr.org

DEVELOPMENT OF CLINICAL MEASURES TO REDUCE THE RISK FACTORS LEADING TO ARRHYTHMIAS IN MYOCARDIAL INFARCTION

Xaydarova Sarvinoz Akramovna

Bukhara State Medical Institute named after Abu Ali ibn Sino.

Abstract: According to the literature data, cardiac arrhythmias and conduction disturbances are a constant complication of acute coronary artery disease, and in the first day of the disease, they are observed in 90-95% of patients. The priority of reperfusion therapy in the prevention of acute heart failure and improving the prognosis in myocardial infarction is undeniable. Thrombolysis remains an important factor as a cheap and effective method of reperfusion. Identification of factors related to thrombolysis efficacy, including genetic factors, is a unique process.

Keywords. Thrombolysis, inotropic therapy, cardiotonic, compliance.

The recorded late potentials of the ventricles of the heart are highly sensitive markers of the development of ventricular tachycardia, being the most frequent causes of death in patients with ACS (1). The urgency of this problem lies in the low efficiency of diagnosing the onset of rhythm disturbances, predicting their course and insufficiently effective treatment. Pathological changes in the myocardium are accompanied by various disturbances in the electrical activity of the heart, but all of them are characterized by general patterns and are prognostically unfavorable in terms of the occurrence of fatally dangerous The rhythm disturbances. onset myocardial ischemia due to a decrease in coronary blood flow leads to disruption of biochemical processes in mitochondrial cells, as a result, the contractile function of cardiomyocytes decreases (2). The current assessment of the degree of restoration of blood flow in the arteries associated with infarction (IBA) is of particular importance

for risk stratification and the choice of subsequent treatment. (1)

In 10-30% of cases of acute heart patients failure with mvocardial infarction, the use of cardiotonic, inotropic drugs is necessary (5). However, these drugs provide short-term symptomatic only improvement, and their mortality rate may increase due to widespread arrhythmogenic potential, increased oxygen consumption, and severe damage to myocardial cells due to calcium overload. In this context, it is important to identify criteria for the timely identification of patients with myocardial infarction in need of inotropic therapy, contribute to the mav differentiated use of drugs in this group. It is important to look for new drugs that provide the necessary symptomatic effect and at the same time do not worsen the prognosis of the disease. The most promising drug is levosimen, but its clinical efficacy and safety have been studied mainly in acute decompensation of heart failure and only one large randomized placebo-controlled 2-



A Peer Revieved Open Access International Journal

www.ijiemr.org

study in myocardial infarction included more than 500 patients with grade II-III acute heart failure. Killip (2). The efficacy of levosimen was first evaluated using clinical data. In this regard, a more detailed study of the effect of the drug on myocardial contractility using Doppler ultrasound is relevant. In addition, effect of such treatment arrhythmogenic preparation in this category of patients should be studied in detail (5).

Despite the improvement in the diagnosis and treatment of cardiac patients, research at home and abroad shows that cardiovascular disease remains a pressing problem of the XXI century in many countries around the world [9]. Recent studies confirm that 7–21% of cases in patients with acute myocardial infarction are complicated by ventricular fibrillation [3] The main reason for the complication of acute myocardial infarction with ventricular fibrillation is the increase in hemodynamic load on the left ventricle resulting from acute left ventricular failure [7]

Complications of ventricular arrhythmias have been reported in 4.5–7% of patients with acute myocardial infarction [8]. This leads to an increase in nosocomial mortality [4,5].

Transient dysfunction of the left ventricle to varying degrees occurs in approximately 50% of patients myocardial infarction [6]. Acute heart failure is primarily associated with impaired systolic function of the myocardium and decreased heart rate. The first sign of pumping dysfunction with a relatively small myocardial infarction (less than 10% of left ventricular mass) is a decrease in compliance (compliance) found experimentally and in myocardial ischemia without necrosis [5]. This disruption of

relaxation is explained by a slowing of the release of calcium ions from the myofibrils to the sarcoplasmic reticulum, which is explained by a sharp decrease in the reserve of energy substrates in cardiomyocytes. As a result of these disturbances, systole is prolonged and left ventricular diastole is defective; lack of proper relief contributes to an increase in diastolic pressure in it, which eventually leads to the appearance of symptoms of acute heart failure.

The purpose of the study.

To determine the degree of myocardial infarction complication with arrhythmia and the main factor leading to arrhythmia and to develop measures to reduce this factor.

Research materials and methods. Eighty patients treated with a diagnosis of acute myocardial infarction will be studied. The subject of the study is based on the results of clinical examination, ECG findings, laboratory parameters (general analysis of blood, biochemical analysis of blood) ExoKG data. For the first time, rhythm changes are described from the time of development of myocardial infarction. Rhythm disorders are studied in relation to necrotic foci and clinical course. The data obtained, as well as the proposed early diagnostics and preventive measures will help to prevent complications of various arrhythmias in patients with acute myocardial infarction.

Conclusion

The results obtained and the conclusions presented provide an opportunity to reduce the complication rate of myocardial infarction with arrhythmias, which are listed among the current problems of the health system.

References



A Peer Revieved Open Access International Journal

www.ijiemr.org

- 1. ASh Inoyatov, DS Rahmatova Improving the prevention and treatment of dental caries in childreninoyatov. New day in medicine, 2020
- 2. Bassand JP, Hamm CW, Ardissino D, Boersma E, Budaj A, Fernandez- Aviles F, Fox KA, Hasdai D, Ohman EM, Wallentin L, Wijns W. Guidelines for the diagnosis and treatment of non-ST-segment elevation acute coronary syndromes. Eur Heart J 2007;28:1598-1660.
- 3. Bhatia R.S., Tu J.V., Lee D.S. et al. Outcome of Heart Failure with Preserved Ejection Fraction in a Population-Based Study. N Engl J Med. July 20, 2006;355:260-9
- 4. Person H, linder-Klingsell, Eriksson SV et al. Heart failure after myocardial infarction: the importance of diastolic function. Eur Heart J 1995: 16:496-505
- 5. Aroney CN, Aylward Ρ, Kelly AM, Chew DPB, Clune E, on behalf of the Acute Coronary Syndrome Guidelines Working Group. Guidelines management of acute coronary syndromes 2006. Med J Aust 2006;184:S9-S29.
- 6. Aurigemma GP, Gaasch WH. Clinical practice. Diastolic heart failure. N Engl JMed 2004 Sep 9;351(11):1097-105.
- 7. Bassand JP, Hamm CW, Ardissino D, Boersma E, Budaj A, Fernandez- Aviles F, Fox KA, Hasdai D, Ohman EM, Wallentin L, Wijns W. Guidelines for the diagnosis and treatment of non-ST-

- segment elevation acute coronary syndromes. Eur Heart J 2007;28:1598-1660.
- 8. Bhatia R.S., Tu J.V., Lee D.S. et al. Outcome of Heart Failure with Preserved Ejection Fraction in a Population-Based Study. N Engl J Med. July 20, 2006;355:260-9
- 9. Person H, linder-Klingsell, Eriksson SV et al. Heart failure after myocardial infarction: the importance of diastolic function. Eur Heart J 1995; 16:496-505