

# Descriptive statistics for Myocardial infarction complications Database

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## 1 General description

Myocardial infarction complications Database was collected in the Krasnoyarsk Interdistrict Clinical Hospital №20 named after I. S. Berzon (Russia) in 1992-1995.

Database contains 1700 records (patients), 111 input features and 12 complications. Database contains 7.6% of missing values.

## 2 Complications

### 2.1 Atrial fibrillation (FIBR\_PREDS)

Binary attribute.

Value	# Cases	Fraction
No complication	1530	90.00%
There is complication	170	10.00%

### 2.2 Supraventricular tachycardia (PREDS\_TAH)

Binary attribute.

Value	# Cases	Fraction
No complication	1680	98.82%
There is complication	20	1.18%

### 2.3 Ventricular tachycardia (JELUD\_TAH)

Binary attribute.

Value	# Cases	Fraction
No complication	1658	97.53%
There is complication	42	2.47%

### 2.4 Ventricular fibrillation (FIBR\_JELUD)

Binary attribute.

Value	# Cases	Fraction
No complication	1629	95.82%
There is complication	71	4.18%

### 2.5 Third-degree AV block (A\_V\_BLOK)

Binary attribute.

Value	# Cases	Fraction
No complication	1643	96.65%
There is complication	57	3.35%

### 2.6 Pulmonary edema (OTEK\_LANC)

Binary attribute.

Value	# Cases	Fraction
No complication	1541	90.65%
There is complication	159	9.35%

### 2.7 Myocardial rupture (RAZRIV)

Binary attribute.

Value	# Cases	Fraction
No complication	1646	96.82%
There is complication	54	3.18%

## 2.8 Dressler syndrome (DRESSLER)

Binary attribute.

Value	# Cases	Fraction
No complication	1625	95.59%
There is complication	75	4.41%

## 2.9 Chronic heart failure (ZSN)

Binary attribute.

Value	# Cases	Fraction
No complication	1306	76.82%
There is complication	394	23.18%

## 2.10 Relapse of the myocardial infarction (REC\_IM)

Binary attribute.

Value	# Cases	Fraction
No complication	1541	90.65%
There is complication	159	9.35%

## 2.11 Post-infarction angina (P\_IM\_STEN)

Binary attribute.

Value	# Cases	Fraction
No complication	1552	91.29%
There is complication	148	8.71%

## 2.12 Lethal outcome (cause) (LET\_IS)

Categorical attribute. Categories are not ordered.

Value	# Cases	Fraction
0 Alive	1429	84.06%
1 Cardiogenic shock	110	6.47%
2 Pulmonary edema	18	1.06%
3 Myocardial rupture	54	3.18%
4 Progress of congestive heart failure	23	1.35%
5 Thromboembolism	12	0.71%
6 Asystole	27	1.59%
7 Ventricular fibrillation	27	1.59%

Can be considered as binary outcome: dead or alive.

## 2.13 Summary

Complication	With complication	
	# Cases	Fraction
Atrial fibrillation (FIBR_PREDS)	170	10.00%
Supraventricular tachycardia (PREDS_TAH)	20	1.18%
Ventricular tachycardia (JELUD_TAH)	42	2.47%
Ventricular fibrillation (FIBR_JELUD)	71	4.18%
Third-degree AV block (A_V_BLOK)	57	3.35%
Pulmonary edema (OTEK_LANC)	159	9.35%

Complication	With complication	
	# Cases	Fraction
Myocardial rupture (RAZRIV)	54	3.18%
Dressler syndrome (DRESSLER)	75	4.41%
Chronic heart failure (ZSN)	394	23.18%
Relapse of the myocardial infarction (REC_IM)	159	9.35%
Post-infarction angina (P_IM_STEN)	148	8.71%
Lethal outcome (cause) (LET_IS)	271	15.94%

Some of complications are nonexclusive. There are some combination of complications. In this subsection the lethal outcome is interpreted as binary attribute.

Cases	FIBR_PREDS	PREDS_TAH	JELUD_TAH	FIBR_JELUD	A_V_BLOK	OTEK_LAN	RAZRIV	DRESSLER	ZSN	REC_IM	P_IM_STEN	LET_IS
663												
102												X
104											X	
1											X	X
35										X		
19										X		X
6										X	X	
192									X			
10									X			X
14									X		X	
11									X	X		
5									X	X		X
7									X	X	X	
40								X				
1								X			X	
14								X	X			
3								X	X	X		
36							X					X
1							X			X		X
1							X		X			X
38						X						
21						X						X
1						X					X	
12						X				X		
1						X				X		X
1						X				X	X	
26						X			X			
5						X			X			X
2						X			X		X	
9						X			X	X		
4						X			X	X		X
2						X		X				
1						X		X	X	X		
1						X		X	X	X		X
1						X	X			X		X
1						X	X		X			X
17				X								
5				X								X
2				X						X		
1				X						X		X
7				X					X			



Cases	FIBR_PREDS	PREDS_TAH	JELUD_TAH	FIBR_JELUD	A_V_BLOK	OTEK_LAN	RAZRIV	DRESSLER	ZSN	REC_IM	P_IM_STEN	LET_IS
1					X			X				
3					X		X					X
1					X	X						
1					X	X						X
2					X	X				X		
1					X	X			X	X		
25				X								
8				X								X
1				X							X	
1				X						X		
1				X						X	X	
2				X					X			
1				X					X			X
1				X					X	X		X
3				X			X					X
1				X		X			X	X		
1				X		X		X		X		
1				X		X		X	X			
1				X	X							X
2				X	X				X			
1				X	X		X					X
15			X									
1			X							X		X
5			X						X			
1			X						X	X		
1			X					X		X	X	
1			X			X						X
1			X			X				X		
1			X			X		X	X			
1			X		X							X
1			X	X								X
1			X	X					X	X		
1			X	X				X		X		
1			X	X		X						
1			X	X	X				X			X
5		X										
1		X								X		
1		X								X	X	
2		X							X			
1		X				X				X		
1		X				X			X			
1		X	X									
1		X	X		X							
1		X	X		X							
63	X											
5	X											X
3	X										X	
3	X									X		
5	X									X		X
1	X									X	X	

Cases	FIBR_PREDS	PREDS_TAH	JELUD_TAH	FIBR_JELUD	A_V_BLOK	OTEK_LAN	RAZRIV	DRESSLER	ZSN	REC_IM	P_IM_STEN	LET_IS
30	X								X			
2	X								X			X
1	X								X		X	
4	X								X	X		
1	X								X	X		X
1	X							X			X	
1	X							X	X			
1	X							X	X			X
1	X							X	X		X	
1	X						X					X
1	X						X			X		X
2	X						X		X			X
1	X						X	X				X
6	X					X						
1	X					X				X		
5	X					X			X			
1	X					X			X			X
1	X					X			X	X		X
2	X				X							
2	X				X				X			
1	X				X		X					X
1	X				X	X						X
3	X			X								
1	X			X								X
1	X			X						X		X
2	X			X					X			
2	X			X					X	X		
1	X			X		X						
1	X		X				X					X
1	X		X		X							X
1	X		X	X					X			X
1	X		X	X		X						
2	X	X										
2	X	X										X
1	X	X						X	X			
1	X	X				X			X			X
1	X	X		X								X

663 records do not contain any complications. These records corresponds to patients without complications. It is not “healthy” patients. Records contain up to 5 complications. List of combinations with 4 and 5 complications is presented in table below. Totally 36 records have 4 complications and 7 records contain 5 complications.

Cases	FIBR_PREDS	PREDS_TAH	JELUD_TAH	FIBR_JELUD	A_V_BLOK	OTEK_LAN	RAZRIV	DRESSLER	ZSN	REC_IM	P_IM_STEN	LET_IS	Complications
4						X			X	X			4
1						X		X	X	X		X	4

Cases	FIBR_PREDS	PREDS_TAH	JELUD_TAH	FIBR_JELUD	A_V_BLOK	OOTEK_LAN	RAZRIV	DRESSLER	ZSN	REC_IM	P_IM_STEN	LET_IS	Complications
1						X	X			X		X	4
1						X	X		X			X	4
1					X	X			X	X			4
1				X					X	X		X	4
1				X		X			X	X			4
1				X		X		X		X			4
1				X		X		X	X				4
1				X	X		X					X	4
1			X					X		X	X		4
1			X			X				X		X	4
1			X			X		X	X				4
1			X	X					X	X			4
1			X	X				X		X			4
1	X								X	X		X	4
1	X							X	X			X	4
1	X							X	X		X		4
1	X						X			X		X	4
2	X						X		X			X	4
1	X						X	X				X	4
1	X					X			X			X	4
1	X				X		X					X	4
1	X				X	X						X	4
1	X			X						X		X	4
2	X			X					X	X			4
1	X		X				X					X	4
1	X		X		X							X	4
1	X		X	X		X							4
1	X	X						X	X				4
1	X	X		X								X	4
1						X		X	X	X		X	5
1			X	X	X				X			X	5
1	X					X			X	X		X	5
1	X		X			X			X	X			5
1	X		X	X						X		X	5
1	X		X	X				X	X				5
1	X	X				X			X			X	5

### 3 Input feature measured at the time of admission to hospital

#### 3.1 Age (AGE)

Numeric attribute

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Age	26	92	61.86	11.26	8	0.47%

#### 3.2 Gender (SEX)

Binary attribute

Value	# Cases	Fraction
0 – female	635	37.35%
1 – male	1065	62.65%

### 3.3 Quantity of myocardial infarctions in the anamnesis (INF\_ANAM)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction	Dummy		
0	1060	62.35%	0	0	0
1	410	24.12%	1	0	0
2	147	8.65%	1	1	0
3+	79	4.65%	1	1	1
Missing	4	0.24%			

### 3.4 Exertional angina pectoris in the anamnesis (STENOK\_AN)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction	Dummy					
0	661	38.88%	0	0	0	0	0	0
1	146	8.59%	1	0	0	0	0	0
2	137	8.06%	1	1	0	0	0	0
3	117	6.88%	1	1	1	0	0	0
4	76	4.47%	1	1	1	1	0	0
5	125	7.35%	1	1	1	1	1	0
6+	332	19.53%	1	1	1	1	1	1
Missing	106	6.24%						

### 3.5 Functional class (FC) of angina pectoris in the last year (FK\_STENOK)

Ordinal attribute. Possible usage of cumulative dummy coding.

Value	# Cases	Fraction	Dummy			
0 – there is no angina pectoris	661	38.88%	0	0	0	0
1 – I FC	47	2.76%	1	0	0	0
2 – II FC	854	50.24%	1	1	0	0
3 – III FC.	54	3.18%	1	1	1	0
4 – IV FC	11	0.65%	1	1	1	1
Missing	73	4.29%				

### 3.6 Coronary heart disease (CHD) in recent weeks, days before admission to hospital (IBS\_POST)

Ordinal attribute. Possible usage of cumulative dummy coding.

Value	# Cases	Fraction	Dummy	
0 – there was no CHD	418	24.59%	0	0
1 – exertional angina pectoris	548	32.24%	1	0
2 – unstable angina pectoris	683	40.18%	1	1
Missing	51	3.00%		

### 3.7 Heredity on CHD (IBS\_NASL)

Binary attribute.

Value	# Cases	Fraction
0 – isn't burdened	45	2.65%
1 – burdened	27	1.59%
Missing	1628	95.76%

### 3.8 Presence of an essential hypertension (GB)

Ordinal attribute. Possible usage of cumulative dummy coding.

Value	# Cases	Fraction	Dummy		
0 – there is no essential hypertension	605	35.59%	0	0	0
1 – Stage 1	11	0.65%	1	0	0
2 – Stage 2	880	51.76%	1	1	0
3 – Stage 3	195	11.47%	1	1	1
Missing	9	0.53%			

### 3.9 Symptomatic hypertension (SIM\_GIPERT)

Binary attribute.

Value	# Cases	Fraction
0 – no	1635	96.18%
1 – yes	57	3.35%
Missing	8	0.47%

### 3.10 Duration of arterial hypertension (DLIT\_AG)

Ordinal attribute. Possible usage of cumulative dummy coding.

Value	# Cases	Fraction	Dummy								
0 – there was no arterial hypertension	551	32.41%	0	0	0	0	0	0	0	0	0
1 – one year	93	5.47%	1	0	0	0	0	0	0	0	0
2 – two years	58	3.41%	1	1	0	0	0	0	0	0	0
3 – three years	58	3.41%	1	1	1	0	0	0	0	0	0
4 – four years	22	1.29%	1	1	1	1	0	0	0	0	0
5 – five years	73	4.29%	1	1	1	1	1	0	0	0	0
6 – 6-10 years	165	9.71%	1	1	1	1	1	1	0	0	0
7 – more than 10 years	432	25.41%	1	1	1	1	1	1	1	0	0
Missing	248	14.59%									

### 3.11 Presence of chronic Heart failure (HF) in the anamnesis (ZSN\_A)

Partially ordered attribute: there are two lines of severities:

0<1<2<4,

0<1<3<4.

State 4 means simultaneous states 2 and 3

Possible usage of cumulative dummy coding.

Value	# Cases	Fraction	Dummy		
0 – there is no chronic heart failure	1468	86.35%	0	0	0
1 – I stage	103	6.06%	1	0	0
2 – IIA stage (heart failure due to right ventricular systolic dysfunction)	27	1.59%	1	1	0
3 – IIA stage (heart failure due to left ventricular systolic dysfunction)	29	1.71%	1	0	1
4 – IIB stage (heart failure due to left and right ventricular systolic dysfunction)	19	1.12%	1	1	1
Missing	54	3.18%			

### 3.12 Observing of arrhythmia in the anamnesis (nr11)

Binary attribute.

Value	# Cases	Fraction
0 – no	1637	96.29%
1 – yes	42	2.47%
Missing	21	1.24%

### 3.13 Premature atrial contractions in the anamnesis (nr01)

Binary attribute.

Value	# Cases	Fraction
0 – no	1675	98.53%
1 – yes	4	0.24%
Missing	21	1.24%

### 3.14 Premature ventricular contractions in the anamnesis (nr02)

Binary attribute.

Value	# Cases	Fraction
0 – no	1660	97.65%
1 – yes	19	1.12%
Missing	21	1.24%

### 3.15 Paroxysms of atrial fibrillation in the anamnesis (nr03)

Binary attribute.

Value	# Cases	Fraction
0 – no	1644	96.71%
1 – yes	35	2.06%
Missing	21	1.24%

### 3.16 A persistent form of atrial fibrillation in the anamnesis (nr04)

Binary attribute.

Value	# Cases	Fraction
0 – no	1650	97.06%
1 – yes	29	1.71%
Missing	21	1.24%

### 3.17 Ventricular fibrillation in the anamnesis (nr07)

Binary attribute.

Value	# Cases	Fraction
0 – no	1678	98.71%
1 – yes	1	0.06%
Missing	21	1.24%

### 3.18 Ventricular paroxysmal tachycardia in the anamnesis (nr08)

Binary attribute.

Value	# Cases	Fraction
0 – no	1675	98.53%
1 – yes	4	0.24%
Missing	21	1.24%

### 3.19 First-degree AV block in the anamnesis (np01)

Binary attribute.

Value	# Cases	Fraction
0 – no	1680	98.82%
1 – yes	2	0.12%
Missing	18	1.06%

### 3.20 Third-degree AV block in the anamnesis (np04)

Binary attribute.

Value	# Cases	Fraction
0 – no	1679	98.76%
1 – yes	3	0.18%
Missing	18	1.06%

### 3.21 LBBB (anterior branch) in the anamnesis (np05)

Binary attribute.

Value	# Cases	Fraction
0 – no	1671	98.29%
1 – yes	11	0.65%
Missing	18	1.06%

### 3.22 Incomplete LBBB in the anamnesis (np07)

Binary attribute.

Value	# Cases	Fraction
0 – no	1681	98.88%
1 – yes	1	0.06%
Missing	18	1.06%

### 3.23 Complete LBBB in the anamnesis (np08)

Binary attribute.

Value	# Cases	Fraction
0 – no	1676	98.59%
1 – yes	6	0.35%
Missing	18	1.06%

### 3.24 Incomplete RBBB in the anamnesis (np09)

Binary attribute.

Value	# Cases	Fraction
0 – no	1680	98.82%
1 – yes	2	0.12%
Missing	18	1.06%

### 3.25 Complete RBBB in the anamnesis (np10)

Binary attribute.

Value	# Cases	Fraction
0 – no	1679	98.76%
1 – yes	3	0.18%
Missing	18	1.06%

### 3.26 Diabetes mellitus in the anamnesis (endocr\_01)

Binary attribute.

Value	# Cases	Fraction
0 – no	1461	85.94%
1 – yes	228	13.41%
Missing	11	0.65%

### 3.27 Obesity in the anamnesis (endocr\_02)

Binary attribute.

Value	# Cases	Fraction
0 – no	1648	96.94%
1 – yes	42	2.47%
Missing	10	0.59%

### 3.28 Thyrotoxicosis in the anamnesis (endocr\_03)

Binary attribute.

Value	# Cases	Fraction
0 – no	1677	98.65%
1 – yes	13	0.76%
Missing	10	0.59%

### 3.29 Chronic bronchitis in the anamnesis (zab\_leg\_01)

Binary attribute.

Value	# Cases	Fraction
0 – no	1559	91.71%
1 – yes	134	7.88%
Missing	7	0.41%

### 3.30 Obstructive chronic bronchitis in the anamnesis (zab\_leg\_02)

Binary attribute.

Value	# Cases	Fraction
0 – no	1572	92.47%
1 – yes	121	7.12%
Missing	7	0.41%

### 3.31 Bronchial asthma in the anamnesis (zab\_leg\_03)

Binary attribute.

Value	# Cases	Fraction
0 – no	1656	97.41%
1 – yes	37	2.18%
Missing	7	0.41%

### 3.32 Pulmonary tuberculosis in the anamnesis (zab\_leg\_06)

Binary attribute.

Value	# Cases	Fraction
0 – no	1684	99.06%
1 – yes	9	0.53%
Missing	7	0.41%



### 3.33 Systolic blood pressure according to Emergency Cardiology Team (S\_AD\_KBRIG)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	0	260	136.91	34.97	1076	63.29%

### 3.34 Diastolic blood pressure according to Emergency Cardiology Team (D\_AD\_KBRIG)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	0	190	81.39	19.73	1076	63.29%

### 3.35 Systolic blood pressure according to intensive care unit (S\_AD\_ORIT)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	0	260	134.59	31.34	267	15.71%

### 3.36 Diastolic blood pressure according to intensive care unit (D\_AD\_ORIT)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	0	190	82.75	18.31	267	15.71%

### 3.37 Pulmonary edema at the time of admission to intensive care unit (O\_L\_POST)

Binary attribute.

Value	# Cases	Fraction
0 – no	1578	92.82%
1 – yes	110	6.47%
Missing	12	0.71%

### 3.38 Cardiogenic shock at the time of admission to intensive care unit (K\_SH\_POST)

Binary attribute.

Value	# Cases	Fraction
0 – no	1639	96.41%
1 – yes	46	2.71%
Missing	15	0.88%

### 3.39 Paroxysms of atrial fibrillation at the time of admission to intensive care unit, (or at a pre-hospital stage) (MP\_TP\_POST)

Binary attribute.

Value	# Cases	Fraction
0 – no	1572	92.47%
1 – yes	114	6.71%
Missing	14	0.82%

### 3.40 Paroxysms of supraventricular tachycardia at the time of admission to intensive care unit, (or at a pre-hospital stage) (SVT\_POST)

Binary attribute.

Value	# Cases	Fraction
0 – no	1680	98.82%
1 – yes	8	0.47%
Missing	12	0.71%

### 3.41 Paroxysms of ventricular tachycardia at the time of admission to intensive care unit, (or at a pre-hospital stage) (GT\_POST)

Binary attribute.

Value	# Cases	Fraction
0 – no	1680	98.82%
1 – yes	8	0.47%
Missing	12	0.71%

### 3.42 Ventricular fibrillation at the time of admission to intensive care unit, (or at a pre-hospital stage) (FIB\_G\_POST)

Binary attribute.

Value	# Cases	Fraction
0 – no	1673	98.41%
1 – yes	15	0.88%
Missing	12	0.71%

### 3.43 Presence of an anterior myocardial infarction (left ventricular) (ECG changes in leads V<sub>1</sub> – V<sub>4</sub>) (ant\_im)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction	Dummy			
0 – there is no infarct in this location	660	38.82%	0	0	0	0
1 – QRS has no changes	392	23.06%	1	0	0	0
2 – QRS is like QR-complex	39	2.29%	1	1	0	0
3 – QRS is like Qr-complex	34	2.00%	1	1	1	0
4 – QRS is like QS-complex	492	28.94%	1	1	1	1
Missing	83	4.88%				

### 3.44 Presence of a lateral myocardial infarction (left ventricular) (ECG changes in leads V<sub>5</sub> – V<sub>6</sub>, I, AVL) (lat\_im)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction	Dummy			
0 – there is no infarct in this location	576	33.88%	0	0	0	0
1 – QRS has no changes	838	49.29%	1	0	0	0
2 – QRS is like QR-complex	97	5.71%	1	1	0	0
3 – QRS is like Qr-complex	72	4.24%	1	1	1	0
4 – QRS is like QS-complex	37	2.18%	1	1	1	1
Missing	80	4.71%				

### 3.45 Presence of an inferior myocardial infarction (left ventricular) (ECG changes in leads III, AVF, II). (inf\_im)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction	Dummy			
0 – there is no infarct in this location	937	55.12%	0	0	0	0
1 – QRS has no changes	195	11.47%	1	0	0	0
2 – QRS is like QR-complex	191	11.24%	1	1	0	0
3 – QRS is like Qr-complex	121	7.12%	1	1	1	0
4 – QRS is like QS-complex	176	10.35%	1	1	1	1
Missing	80	4.71%				

### 3.46 Presence of a posterior myocardial infarction (left ventricular) (ECG changes in V<sub>7</sub> – V<sub>9</sub>, reciprocity changes in leads V<sub>1</sub> – V<sub>3</sub>) (post\_im)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction	Dummy			
0 – there is no infarct in this location	1370	80.59%	0	0	0	0
1 – QRS has no changes	157	9.24%	1	0	0	0
2 – QRS is like QR-complex	52	3.06%	1	1	0	0
3 – QRS is like Qr-complex	35	2.06%	1	1	1	0
4 – QRS is like QS-complex	14	0.82%	1	1	1	1
Missing	72	4.24%				

0 – there is no infarct in this location

### 3.47 Presence of a right ventricular myocardial infarction (IM\_PG\_P)

Binary attribute.

Value	# Cases	Fraction
0 – no	1649	97.00%
1 – yes	50	2.94%
Missing	1	0.06%

### 3.48 ECG rhythm at the time of admission to hospital – sinus (with a heart rate 60-90) (ritm\_ecg\_p\_01)

Binary attribute.

Value	# Cases	Fraction
0 – no	519	30.53%
1 – yes	1029	60.53%
Missing	152	8.94%

### 3.49 ECG rhythm at the time of admission to hospital – atrial fibrillation (ritm\_ecg\_p\_02)

Binary attribute.

Value	# Cases	Fraction
0 – no	1453	85.47%
1 – yes	95	5.59%
Missing	152	8.94%

### 3.50 ECG rhythm at the time of admission to hospital – atrial (ritm\_ecg\_p\_04)

Binary attribute.

Value	# Cases	Fraction
0 – no	1525	89.71%
1 – yes	23	1.35%
Missing	152	8.94%

### 3.51 ECG rhythm at the time of admission to hospital – idioventricular (ritm\_ecg\_p\_06)

Binary attribute.

Value	# Cases	Fraction
0 – no	1547	91.00%
1 – yes	1	0.06%
Missing	152	8.94%

### 3.52 ECG rhythm at the time of admission to hospital – sinus with a heart rate above 90 (tachycardia) (ritm\_ecg\_p\_07)

Binary attribute.

Value	# Cases	Fraction
0 – no	1195	70.29%
1 – yes	353	20.76%
Missing	152	8.94%

### 3.53 ECG rhythm at the time of admission to hospital – sinus with a heart rate below 60 (bradycardia) (ritm\_ecg\_p\_08)

Binary attribute.

Value	# Cases	Fraction
0 – no	1502	88.35%
1 – yes	46	2.71%
Missing	152	8.94%

### 3.54 Premature atrial contractions on ECG at the time of admission to hospital (n\_r\_ecg\_p\_01)

Binary attribute.

Value	# Cases	Fraction
0 – no	1527	89.82%
1 – yes	58	3.41%
Missing	115	6.76%

### 3.55 Frequent premature atrial contractions on ECG at the time of admission to hospital (n\_r\_ecg\_p\_02)

Binary attribute.

Value	# Cases	Fraction
0 – no	1577	92.76%
1 – yes	8	0.47%
Missing	115	6.76%

### 3.56 Premature ventricular contractions on ECG at the time of admission to hospital (n\_r\_ecg\_p\_03)

Binary attribute.

Value	# Cases	Fraction
0 – no	1381	81.24%
1 – yes	204	12.00%
Missing	115	6.76%

### 3.57 Frequent premature ventricular contractions on ECG at the time of admission to hospital (n\_r\_ecg\_p\_04)

Binary attribute.

Value	# Cases	Fraction
0 – no	1516	89.18%
1 – yes	69	4.06%
Missing	115	6.76%

### 3.58 Paroxysms of atrial fibrillation on ECG at the time of admission to hospital (n\_r\_ecg\_p\_05)

Binary attribute.

Value	# Cases	Fraction
0 – no	1515	89.12%
1 – yes	70	4.12%
Missing	115	6.76%

### 3.59 Persistent form of atrial fibrillation on ECG at the time of admission to hospital (n\_r\_ecg\_p\_06)

Binary attribute.

Value	# Cases	Fraction
0 – no	1553	91.35%
1 – yes	32	1.88%
Missing	115	6.76%

### 3.60 Paroxysms of supraventricular tachycardia on ECG at the time of admission to hospital (n\_r\_ecg\_p\_08)

Binary attribute.

Value	# Cases	Fraction
0 – no	1581	93.00%
1 – yes	4	0.24%
Missing	115	6.76%

### 3.61 Paroxysms of ventricular tachycardia on ECG at the time of admission to hospital (n\_r\_ecg\_p\_09)

Binary attribute.

Value	# Cases	Fraction
0 – no	1583	93.12%
1 – yes	2	0.12%
Missing	115	6.76%

### 3.62 Ventricular fibrillation on ECG at the time of admission to hospital (n\_r\_ecg\_p\_10)

Binary attribute.

Value	# Cases	Fraction
0 – no	1583	93.12%
1 – yes	2	0.12%
Missing	115	6.76%

### 3.63 Sinoatrial block on ECG at the time of admission to hospital (n\_p\_ecg\_p\_01)

Binary attribute.

Value	# Cases	Fraction
0 – no	1583	93.12%
1 – yes	2	0.12%
Missing	115	6.76%

### 3.64 First-degree AV block on ECG at the time of admission to hospital (n\_p\_ecg\_p\_03)

Binary attribute.

Value	# Cases	Fraction
0 – no	1553	91.35%
1 – yes	32	1.88%
Missing	115	6.76%

### 3.65 Type 1 Second-degree AV block (Mobitz I/Wenckebach) on ECG at the time of admission to hospital (n\_p\_ecg\_p\_04)

Binary attribute.

Value	# Cases	Fraction
0 – no	1580	92.94%
1 – yes	5	0.29%
Missing	115	6.76%

### 3.66 Type 2 Second-degree AV block (Mobitz II/Hay) on ECG at the time of admission to hospital (n\_p\_ecg\_p\_05)

Binary attribute.

Value	# Cases	Fraction
0 – no	1583	93.12%
1 – yes	2	0.12%
Missing	115	6.76%

### 3.67 Third-degree AV block on ECG at the time of admission to hospital (n\_p\_ecg\_p\_06)

Binary attribute.

Value	# Cases	Fraction
0 – no	1558	91.65%
1 – yes	27	1.59%
Missing	115	6.76%

**3.68 LBBB (anterior branch) on ECG at the time of admission to hospital  
(n\_p\_ecg\_p\_07)**

Binary attribute.

Value	# Cases	Fraction
0 – no	1483	87.24%
1 – yes	102	6.00%
Missing	115	6.76%

**3.69 LBBB (posterior branch) on ECG at the time of admission to hospital  
(n\_p\_ecg\_p\_08)**

Binary attribute.

Value	# Cases	Fraction
0 – no	1578	92.82%
1 – yes	7	0.41%
Missing	115	6.76%

**3.70 Incomplete LBBB on ECG at the time of admission to hospital  
(n\_p\_ecg\_p\_09)**

Binary attribute.

Value	# Cases	Fraction
0 – no	1575	92.65%
1 – yes	10	0.59%
Missing	115	6.76%

**3.71 Complete LBBB on ECG at the time of admission to hospital  
(n\_p\_ecg\_p\_10)**

Binary attribute.

Value	# Cases	Fraction
0 – no	1551	91.24%
1 – yes	34	2.00%
Missing	115	6.76%

**3.72 Incomplete RBBB on ECG at the time of admission to hospital  
(n\_p\_ecg\_p\_11)**

Binary attribute.

Value	# Cases	Fraction
0 – no	1557	91.59%
1 – yes	28	1.65%
Missing	115	6.76%

**3.73 Complete RBBB on ECG at the time of admission to hospital  
(n\_p\_ecg\_p\_12)**

Binary attribute.

Value	# Cases	Fraction
0 – no	1507	88.65%
1 – yes	78	4.59%
Missing	115	6.76%

### 3.74 Fibrinolytic therapy by Celasum 750k IU (fibr\_ter\_01)

Binary attribute.

Value	# Cases	Fraction
0 – no	1677	98.65%
1 – yes	13	0.76%
Missing	10	0.59%

### 3.75 Fibrinolytic therapy by Celasum 1m IU (fibr\_ter\_02)

Binary attribute.

Value	# Cases	Fraction
0 – no	1674	98.47%
1 – yes	16	0.94%
Missing	10	0.59%

### 3.76 Fibrinolytic therapy by Celasum 3m IU (fibr\_ter\_03)

Binary attribute.

Value	# Cases	Fraction
0 – no	1622	95.41%
1 – yes	68	4.00%
Missing	10	0.59%

### 3.77 Fibrinolytic therapy by Streptase (fibr\_ter\_05)

Binary attribute.

Value	# Cases	Fraction
0 – no	1686	99.18%
1 – yes	4	0.24%
Missing	10	0.59%

### 3.78 Fibrinolytic therapy by Celasum 500k IU (fibr\_ter\_06)

Binary attribute.

Value	# Cases	Fraction
0 – no	1681	98.88%
1 – yes	9	0.53%
Missing	10	0.59%

### 3.79 Fibrinolytic therapy by Celasum 250k IU (fibr\_ter\_07)

Binary attribute.

Value	# Cases	Fraction
0 – no	1684	99.06%
1 – yes	6	0.35%
Missing	10	0.59%

### 3.80 Fibrinolytic therapy by Streptodecase 1.5m IU (fibr\_ter\_08)

Binary attribute.

Value	# Cases	Fraction
0 – no	1688	99.29%
1 – yes	2	0.12%
Missing	10	0.59%



### 3.81 Hypokalemia (< 4 mmol/L) (GIPO\_K)

Binary attribute.

Value	# Cases	Fraction
0 – no	797	46.88%
1 – yes	534	31.41%
Missing	369	21.71%

### 3.82 Serum potassium content (K\_BLOOD) (mmol/L)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	2.3	8.2	4.19	0.75	371	21.82%

### 3.83 Increase of sodium in serum (more than 150 mmol/L) (GIPER\_Na)

Binary attribute.

Value	# Cases	Fraction
0 – no	1295	76.18%
1 – yes	30	1.76%
Missing	375	22.06%

### 3.84 Serum sodium content (Na\_BLOOD) (mmol/L)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	117	169	136.55	6.51	375	22.06%

### 3.85 Serum AIAT content (ALT\_BLOOD) (IU/L)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	0.03	3	0.48	0.39	284	16.71%

### 3.86 Serum AsAT content (AST\_BLOOD) (IU/L)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	0.04	2.15	0.26	0.2	285	16.67%

### 3.87 Serum CPK content (KFK\_BLOOD) (IU/L)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	1.2	3.6	2	0.95	1696	99.76%

### 3.88 White blood cell count (billions per liter) (L\_BLOOD)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	2	27.9	8.78	3.40	125	7.35%

### 3.89 ESR (Erythrocyte sedimentation rate) (ROE) (mm)

Numeric attribute.

Feature	Min	Max	Mean	STD	Missing cases	Missing fraction
Value	1	140	13.44	11.29	203	19.94%

### 3.90 Time elapsed from the beginning of the attack of CHD to the hospital (TIME\_B\_S)

Ordinal attribute. Possible usage of cumulative dummy coding.

Value	# Cases	Fraction	Dummy							
1 – less than 2 hours	198	11.65%	0	0	0	0	0	0	0	0
2 – 2-4 hours	360	21.18%	1	0	0	0	0	0	0	0
3 – 4-6 hours	175	10.29%	1	1	0	0	0	0	0	0
4 – 6-8 hours	87	5.12%	1	1	1	0	0	0	0	0
5 – 8-12 hours	92	5.41%	1	1	1	1	0	0	0	0
6 – 12-24 hours	151	8.88%	1	1	1	1	1	0	0	0
7 – more than 1 days	141	8.29%	1	1	1	1	1	1	0	0
8 – more than 2 days	101	5.94%	1	1	1	1	1	1	1	0
9 – more than 3 days	269	15.82%	1	1	1	1	1	1	1	1
Missing	126	7.41%								

### 3.91 Use of opioid drugs by the Emergency Cardiology Team (NA\_KB)

Binary attribute.

Value	# Cases	Fraction
0 – no	425	25.00%
1 – yes	618	36.35%
Missing	657	38.65%

### 3.92 Use of NSAIDs by the Emergency Cardiology Team (NOT\_NA\_KB)

Binary attribute.

Value	# Cases	Fraction
0 – no	313	18.41%
1 – yes	700	41.18%
???	1	0.06%
Missing	375	22.06%

### 3.93 Use of lidocaine by the Emergency Cardiology Team (LID\_KB)

Binary attribute.

Value	# Cases	Fraction
0 – no	627	36.88%
1 – yes	396	23.29%
Missing	677	39.82%

### 3.94 Use of liquid nitrates in the ICU (NITR\_S)

Binary attribute.

Value	# Cases	Fraction
0 – no	1496	88.00%
1 – yes	194	11.41%
10	1	0.06%
Missing	9	0.53%

### 3.95 Use of lidocaine in the ICU (LID\_S\_n)

Binary attribute.

Value	# Cases	Fraction
0 – no	1211	71.24%
1 – yes	479	28.18%
Missing	10	0.59%

### 3.96 Use of beta-blockers in the ICU (B\_BLOK\_S\_n)

Binary attribute.

Value	# Cases	Fraction
0 – no	1474	86.71%
1 – yes	215	12.65%
Missing	11	0.65%

### 3.97 Use of calcium channel blockers in the ICU (ANT\_CA\_S\_n)

Binary attribute.

Value	# Cases	Fraction
0 – no	562	33.06%
1 – yes	1125	66.18%
Missing	13	0.76%

### 3.98 Use of a anticoagulants (heparin) in the ICU (GEPAR\_S\_n)

Binary attribute.

Value	# Cases	Fraction
0 – no	480	28.24%
1 – yes	1203	70.76%
Missing	17	1.00%

### 3.99 Use of acetylsalicylic acid in the ICU (ASP\_S\_n)

Binary attribute.

Value	# Cases	Fraction
0 – no	431	25.35%
1 – yes	1252	73.65%
Missing	17	1.00%

### 3.100 Use of Ticlid in the ICU (TIKL\_S\_n)

Binary attribute.

Value	# Cases	Fraction
0 – no	1654	97.29%
1 – yes	30	1.76%
Missing	16	0.94%

### 3.101 Use of Trental in the ICU (TRENT\_S\_n)

Binary attribute.

Value	# Cases	Fraction
0 – no	1343	79.00%
1 – yes	341	20.06%
Missing	16	0.94%

## 4 Input feature measured before end of the first day (24 hours after admission to the hospital)

### 4.1 Relapse of the pain in the first hours of the hospital period (R\_AB\_1\_n)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction
0 – there is no relapse	1282	75.41%
1 – only one	298	17.53%
2 – 2 times	78	4.59%
3 – 3 or more times	26	1.53%
Missing	16	0.94%

### 4.2 Use of opioid drugs in the ICU in the first hours of the hospital period (NA\_R\_1\_n)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction
0 – no	1108	65.18%
1 – once	409	24.06%
2 – twice	132	7.76%
3 – three times	35	2.06%
4 – four times	11	0.65%
Missing	5	0.29%

### 4.3 Use of NSAIDs in the ICU in the first hours of the hospital period (NOT\_NA\_1\_n)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction
0 – no	1237	72.76%
1 – once	376	22.12%
2 – twice	53	3.12%
3 – three times	17	1.00%
4 – four or more times	7	0.41%
Missing	10	0.59%

## 5 Input feature measured before end of the second day (48 hours after admission to the hospital)

### 5.1 Relapse of the pain in the second day of the hospital period (R\_AB\_2\_n)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction
0 – there is no relapse	1414	83.18%
1 – only one	133	7.82%
2 – 2 times	44	2.59%

3 – 3 or more times	1	0.06%
Missing	108	6.35%

## 5.2 Use of opioid drugs in the ICU in the second day of the hospital period (NA\_R\_2\_n)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction
0 – no	1474	86.71%
1 – once	87	5.12%
2 – twice	30	1.76%
3 – three times	1	0.06%
Missing	108	6.35%

## 5.3 Use of NSAIDs in the ICU in the second day of the hospital period (NOT\_NA\_2\_n)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction
0 – no	1454	85.53%
1 – once	95	5.59%
2 – twice	38	2.24%
3 – three times	3	0.18%
Missing	110	6.47%

## 6 Input feature measured before end of the third day (72 hours after admission to the hospital)

### 6.1 Relapse of the pain in the third day of the hospital period (R\_AB\_3\_n)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction
0 – there is no relapse	1469	86.41%
1 – only one	86	5.06%
2 – 2 times	15	0.88%
3 – 3 or more times	2	0.12%
Missing	1469	86.41%

### 6.2 Use of opioid drugs in the ICU in the third day of the hospital period (NA\_R\_3\_n)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction
0 – no	1493	87.82%
1 – once	60	3.53%
2 – twice	16	0.94%
Missing	131	7.71%

### 6.3 Use of NSAIDs in the ICU in the third day of the hospital period (NOT\_NA\_3\_n)

Ordinal attribute can be interpreted as numerical. Possible encoding as is or cumulative dummy coding.

Value	# Cases	Fraction
0 – no	1474	86.71%
1 – once	57	3.35%
2 – twice	38	2.24%
Missing	131	7.71%