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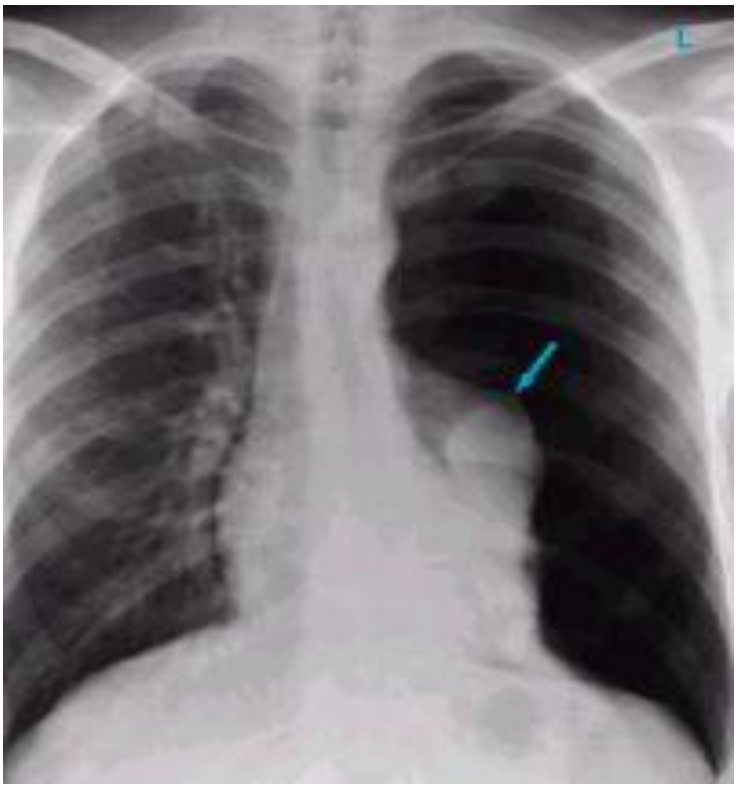
EXAMINATION TASK

of Objective Structured Clinical Examination (OSCE) of State Final Certification
in Education and Qualification Level "Specialist"
in the Specialty 7.1201000 "General Medicine"

Discipline "Internal, Occupational and Infectious Diseases"

Variant No. 1

Station 3



Questions:

1. Give a description of the radiograph.
2. Conclusion.

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EXAMINATION TASK

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in the Specialty 7.1201000 "General Medicine"

Discipline "Internal, Occupational and Infectious Diseases"

Variant No. 2

Station 3

Questions:

1. Give a description of the radiograph.
2. Conclusion.

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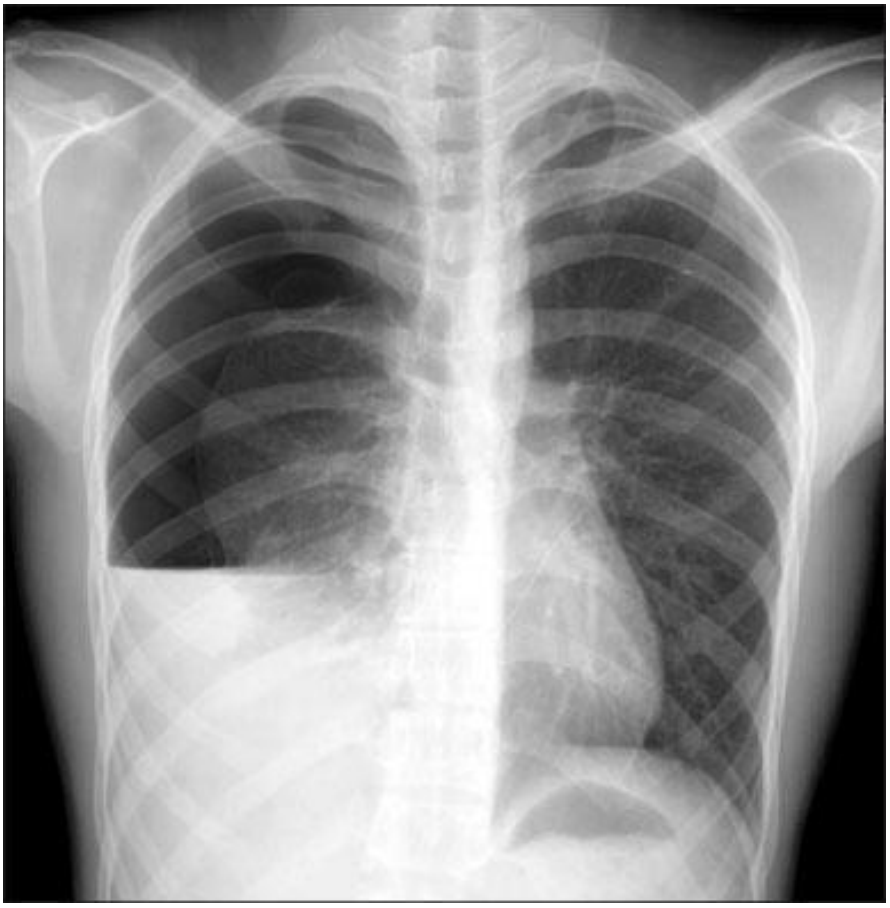
of Objective Structured Clinical Examination (OSCE) of State Final Certification
in Education and Qualification Level "Specialist"
in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 3
Station 3



Questions:
1. Give a description of the radiograph.
2. Conclusion.

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Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 4
Station 3

Questions:
1. Give a description of the radiograph.
2. Conclusion.

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Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 5
Station 3

Questions: 1. Give a description of the radiograph. 2. Conclusion.

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EXAMINATION TASK
of Objective Structured Clinical Examination (OSCE) of State Final Certification
in Education and Qualification Level "Specialist"
in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 6
Station 3

Questions: 1. Give a description of the radiograph. 2. Conclusion.

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Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 7
Station 3

Questions:
1. Give a description of the radiograph.
2. Conclusion.

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in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 8
Station 3

Questions:
1. Give a description of the radiograph.
2. Conclusion.

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Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 9
Station 3

Questions:
1. Give a description of the radiograph.
2. Conclusion.

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in Education and Qualification Level "Specialist"
in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 10
Station 3

Questions:
1. Give a description of the radiograph.
2. Conclusion.

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in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 11
Station 3

Questions:
1. Give a description of the radiograph.
2. Conclusion.

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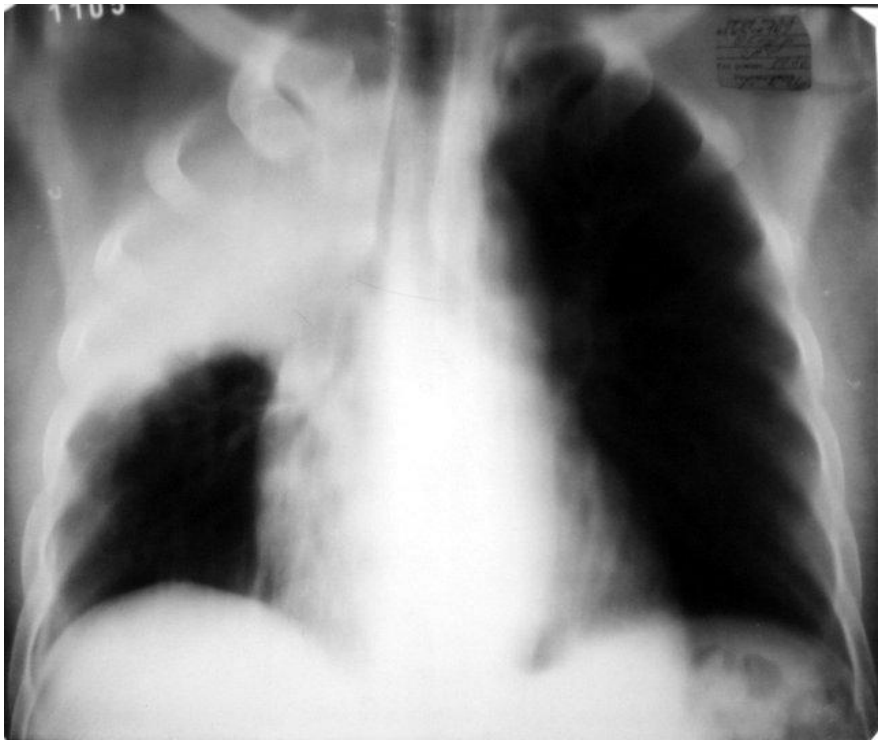
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 12
Station 3



Questions:
1. Give a description of the radiograph.
2. Conclusion.

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Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 13
Station 3

A 56 years-old man with complaints of general weakness and pain in the left hypochondrium was examined by a family doctor who prescribed a clinical blood test. The results were obtained.

Clinical blood test of the patient:

Indicators \ Units	Normal level	Patient level
Hemoglobin	**Female:**120-140 g/l	142 g/l
	Male: 130-160 g/l	
Red blood cells	**Female:**3,7-4,7x10^{12}/l	4x10^{12}/l
	Male: 4,0-5,0x10^{12}/l	
Mean corpuscular volume, MCV	80-100 fl	88 fl
Mean corpuscular hemoglobin, MCH	27-35 pg	34,5 pg
Erythrocyte sedimentation rate, ESR	**Female:** 2-15 mm/h	11 mm/h
	Male: 1-10 mm/h	
White blood cells	4-9x10^{9}/l	79x10^{9}/l
Platelets	180-320x10^{9}/l	516x10^{9}/l
Leukocyte formula		
blasts	0 %	3 %
myelocytes	0 %	8 %
1	2	3
young cells	0 %	8 %
banded neutrophils	1-5 %	17 %
segmented neutrophils	47-72 %	51 %
basophils	0,5-1 %	2 %
eosinophils	1-5 %	6 %
lymphocytes	18-38 %	1 %
monocytes	3-11 %	4 %

Sternal puncture was performed. Results of myelogram count:

Myelogram		Normal level	Patient level
blasts		0,1-1,1%	2,5%
Neutrophils	promyelocytes	1,0-4,0%	2%
	myelocytes	7,0-12,2%	37%
	metamyelocytes	8,0-15,0%	10,5%
	banded neutrophils	12,8-23,7%	15%
	segmented neutrophils	13,1-24,1%	20,5%
eosinophils		0,5-5,8%	8%
basophils		0,0-0,5%	1,5%
erythroblasts		0,2-1,1%	0%
pronormocytes		0,1-1,2%	0%
Normocytes	basophilic	1,4-4,6%	0%
	polychromatophilic	8,9-16,9%	1%
	oxyphilic	0,8-5,6%	0,5%
megaloblasts		0%	0%
lymphocytes		4,3-13,7%	1,5%
plasmocytes		0,1-1,8 %	0%
monocytes		0,7-3,1%	2%
leuko/erythro ratio		(3,5-4:1,0)	66:1
megakaryocytes		functional	Narrowed megakaryocytic row

Questions:
1. Evaluate hemogram and sternal puncture test.
2. Draw a conclusion. Assign the necessary examinations to confirm the diagnosis.

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Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 14
Station 3

A 42 years-old woman came to the hematologist with complaints of general weakness, dizziness, weight loss of 15 kg over the past 2 months.

In clinical blood test:

Indicators \ Units	Normal level	Patient level
Hemoglobin	**Female:**120-140 g/l	56 g/l
	Male: 130-160 g/l	
Red blood cells	**Female:**3,7-4,7x10^{12}/l	1,85x10^{12}/l
	Male: 4,0-5,0x10^{12}/l	
Mean corpuscular volume, MCV	80-100 fl	86 fl
Mean corpuscular hemoglobin, MCH	27-35 pg	30,27 pg
Erythrocyte sedimentation rate, ESR	**Female:** 2-15 mm/h	50 mm/h
	Male: 1-10 mm/h	
White blood cells	4-9x10^{9}/l	20x10^{9}/l
Platelets	180-320x10^{9}/l	52x10^{9}/l
Leukocyte formula		
blasts	0 %	56 %
myelocytes	0 %	0 %
young cells	0 %	0 %
banded neutrophils	1-5 %	0 %
segmented neutrophils	47-72 %	21 %
basophils	0,5-1 %	3 %
eosinophils	1-5 %	0 %
lymphocytes	18-38 %	16 %
monocytes	3-11 %	4 %

Sternal puncture was performed. Results of myelogram count:

Myelogram		Normal level	Patient level
blasts		0,1-1,1%	72,5%
Neutrophils	promyelocytes	0%	2%
	myelocytes	0,5%	37%
	metamyelocytes	1,0%	10,5%
	banded neutrophils	0,5%	15%
	segmented neutrophils	3,5%	20,5%
eosinophils		0,5-5,8%	2,0%
1		2	3
basophils		0,0-0,5%	0%
erythroblasts		0,2-1,1%	0%
pronormocytes		0,1-1,2%	0%
Normocytes	basophilic	2%	0%
	polychromatophilic	1%	1%
	oxyphilic	0%	0,5%
megaloblasts		0%	0%
lymphocytes		4,3-13,7%	12,5%
plasmocytes		0,1-1,8 %	0%
monocytes		0,7-3,1%	3,5%
leuko/erythro ratio		(3,5-4:1,0)	32:1
megakaryocytes		functional	Narrowed megakaryocytic row

Questions:
1. Evaluate hemogram and sternal puncture test.
2. Draw a conclusion. Assign the necessary examinations to confirm the diagnosis.

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Variant No. 15
Station 3

A 63 years-old man addressed to a family physician for prophylactic examination. Generalized lymphadenopathy was revealed in the clinical blood test shown following changes:

Indicators \ Units	Normal level	Patient level
Hemoglobin	**Female:**120-140 g/l	146 g/l
	Male: 130-160 g/l	
Red blood cells	**Female:**3,7-4,7x10^{12}/l	5,2x10^{12}/l
	Male: 4,0-5,0x10^{12}/l	
Mean corpuscular volume, MCV	80-100 fl	86 fl
Mean corpuscular hemoglobin, MCH	27-35 pg	30,27 pg
Erythrocyte sedimentation rate, ESR	**Female:** 2-15 mm/h	10 mm/h
	Male: 1-10 mm/h	
White blood cells	4-9x10^{9}/l	49x10^{9}/l
Platelets	180-320x10^{9}/l	236x10^{9}/l
Leukocyte formula		
blasts	0 %	0 %
myelocytes	0 %	0 %
young cells	0 %	0 %
banded neutrophils	1-5 %	1 %
segmented neutrophils	47-72 %	42 %
basophils	0,5-1 %	0 %
eosinophils	1-5 %	0 %
lymphocytes	18-38 %	56 %
monocytes	3-11 %	1 %

Sternal puncture was performed. Results of myelogram count:

Myelogram		Normal level	Patient level
blasts		0,1-1,1%	0,5%
Neutrophils	promyelocytes	0%	2%
	myelocytes	2,25%	37%
	metamyelocytes	3,0%	10,5%
	banded neutrophils	5,5%	15%
	segmented neutrophils	7,5%	20,5%
eosinophils		0,5-5,8%	0%
basophils		0,0-0,5%	0%
erythroblasts		0,2-1,1%	0%
pronormocytes		0,1-1,2%	0%
Normocytes	basophilic	1%	0%
	polychromatophilic	4,75%	1%
	oxyphilic	4,75%	0,5%
megaloblasts		0%	0%
lymphocytes		4,3-13,7%	69,5%
plasmocytes		0,1-1,8 %	0%
monocytes		0,7-3,1%	1,25%
leuko/erythro ratio		(3,5-4:1,0)	32:1
megakaryocytes		functional	functional

Questions:
1. Evaluate hemogram and sternal puncture test.
2. Draw a conclusion. Assign the necessary examinations to confirm the diagnosis.

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Discipline "Internal, Occupational and Infectious Diseases"

Variant No. 16

Station 3

A 23 years-old woman came to a family doctor because of the appearance of hemorrhagic rash on the skin of the trunk. For the last 2 months she has been noticing nosebleeds, frequent infectious diseases, weakness, dizziness.

The clinical analysis of the patient's blood revealed:

Units / Indicators	Normal level	Patient level
Hemoglobin	**Female:**120-140 g/l	43 g/l
	Male: 130-160 g/l	
Red blood cells	**Female:**3,7-4,7x10^{12}/l	0,9x10^{12}/l
	Male: 4,0-5,0x10^{12}/l	
Hematocrit	**Female:** 36-46 %	21 %
	Male: 41-51%	
Mean corpuscular hemoglobin, MCH	27-35 pg	34,5 pg
Erythrocyte sedimentation rate, ESR	**Female:** 2-15 mm/h	18 mm/h
	Male: 1-10 mm/h	
White blood cells	4-9x10^{9}/l	1,2x10^{9}/l
Platelets	180-320x10^{9}/l	5x10^{9}/l
Leukocyte formula		
blasts	0 %	0 %
myelocytes	0 %	0 %
young cells	0 %	0 %
banded neutrophils	1-5 %	3 %
segmented neutrophils	47-72 %	63 %
basophils	0,5-1 %	0 %
eosinophils	1-5 %	0 %
lymphocytes	18-38 %	38 %
monocytes	3-11 %	2 %

Bone marrow trepanobiopsy was performed. Results of histological examination:

- distribution of hematopoietic cells: cellularity is significantly reduced;
- the *leuko*/*erythro ratio*: 7: 1 (normal 3.5 – 4 : 1);
- dimensions of myeloid colonies: reduced;
- dimensions of erythroid colonies: reduced;
- the number of megakaryocytes is reduced;
- topography: marked bone marrow infiltration by adipocytes;
- diffuse infiltrates from lymphoid cells: none;
- there is a increase in blasts: no;
- iron deposits: increased.

Questions:
1. Evaluate hemogram and bone marrow trepanobiopsy.
2. Draw a conclusion. Assign the necessary examinations to confirm the diagnosis.

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Discipline "Internal, Occupational and Infectious Diseases"

Variant No. 17

Station 3

A 23 years-old man came to the otolaryngologist because of nasal bleeding that occurred without cause. Physical examination revealed a polymorphic hemorrhagic rash on the skin of the trunk and extremities.

In clinical blood test:

Indicators \ Units	Normal level	Patient level
Hemoglobin	**Female:**120-140 g/l	132 g/l
	Male: 130-160 g/l	
Red blood cells	**Female:**3,7-4,7x10^{12}/l	5,2x10^{12}/l
	Male: 4,0-5,0x10^{12}/l	
Mean corpuscular volume, MCV	80-100 fl	92 fl
Mean corpuscular hemoglobin, MCH	27-35 pg	34,5 pg
Erythrocyte sedimentation rate, ESR	**Female:** 2-15 mm/h	13 mm/h
	Male: 1-10 mm/h	
White blood cells	4-9x10^{9}/l	7,2x10^{9}/l
Platelets	180-320x10^{9}/l	15x10^{9}/l
Leukocyte formula		
blasts	0 %	0 %
myelocytes	0 %	0 %
young cells	0 %	0 %
banded neutrophils	1-5 %	3 %
segmented neutrophils	47-72 %	60 %
basophils	0,5-1 %	0 %
eosinophils	1-5 %	2 %
lymphocytes	18-38 %	32 %
monocytes	3-11 %	3 %

Sternal puncture was performed. Results of myelogram count:

Myelogram		Normal level	Patient level
blasts		0,1-1,1%	0,25%
Neutrophils	promyelocytes	0%	2%
	myelocytes	7,75%	37%
	metamyelocytes	4,75%	10,5%
	banded neutrophils	17,5%	15%
	segmented neutrophils	22,75%	20,5%
eosinophils		0,5-5,8%	3,5%
basophils		0,0-0,5%	0%
erythroblasts		0,2-1,1%	0%
pronormocytes		0,1-1,2%	0%
Normocytes	basophilic	4%	0%
	polychromatophilic	17,0%	1%
	oxyphilic	4,25%	0,5%
megaloblasts		0%	0%
lymphocytes		4,3-13,7%	13,5%
plasmocytes		0,1-1,8 %	1,25%
monocytes		0,7-3,1%	2,5%
leuko/erythro ratio		(3,5-4:1,0)	3,1:1
megakaryocytes		functional	With increased platelet formation

Questions:
1. Evaluate hemogram and sternal puncture test.
2. Draw a conclusion. Assign the necessary examinations to confirm the diagnosis.

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Discipline "Internal, Occupational and Infectious Diseases"

Variant No. 18

Station 3

A 33 years-old woman went to the doctor complaining of general weakness, palpitations, shortness of breath during exercise, fever to 37,2°C during the month, butterfly skin rash.

The blood test found:

Indicators \ Units	Normal level	Patient level
Hemoglobin	**Female:**120-140 g/l **Male:** 130-160 g/l	109 g/l
Red blood cells	**Female:**3,7-4,7x10^{12}/l **Male:** 4,0-5,0x10^{12}/l	3,3x10^{12}/l
Mean corpuscular volume, MCV	80-100 fl	75 fl
Mean corpuscular hemoglobin, MCH	27-35 pg	24 pg
Erythrocyte sedimentation rate, ESR	**Female:** 2-15 mm/h **Male:** 1-10 mm/h	23 mm/h
White blood cells	4-9x10^{9}/l	4,2x10^{9}/l
Platelets	180-320x10^{9}/l	182x10^{9}/l
Leukocyte formula		
blasts	0 %	0 %
myelocytes	0 %	0 %
young cells	0 %	0 %
banded neutrophils	1-5 %	2 %
segmented neutrophils	47-72 %	55 %
basophils	0,5-1 %	0 %
eosinophils	1-5 %	2 %
lymphocytes	18-38 %	37 %

monocytes	3-11 %	4 %
Serum iron	5,83-34,5 μmol/l	3,08 μmol/l
Ferritin	**Female:** 13,0-150,0 ng/ml **Male:** 30,0-400,0 ng/ml	289 ng/ml

Questions:
1. Evaluate hemograms and iron metabolism.
2. Draw a conclusion. Assign the necessary examinations to confirm the diagnosis.

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in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 19
Station 3

Lipidogram:
Cholesterol – 6.2 mmol/l
LDL cholesterol – 3.8 mmol/l
TG – 1.9 mmol/l
HDL cholesterol – 1.0 mmol/l

Questions:
1. Evaluate the indices of the lipid chart.
2. Draw a conclusion.

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in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 20
Station 3

Lipidogram:
Cholesterol – 5.8 mmol/l
LDL cholesterol – 3.8 mmol/l
TG – 2.2 mmol/l
HDL cholesterol – 0.8 mmol/l
Questions:
1. Evaluate the indices of the lipid chart.
2. Draw a conclusion.

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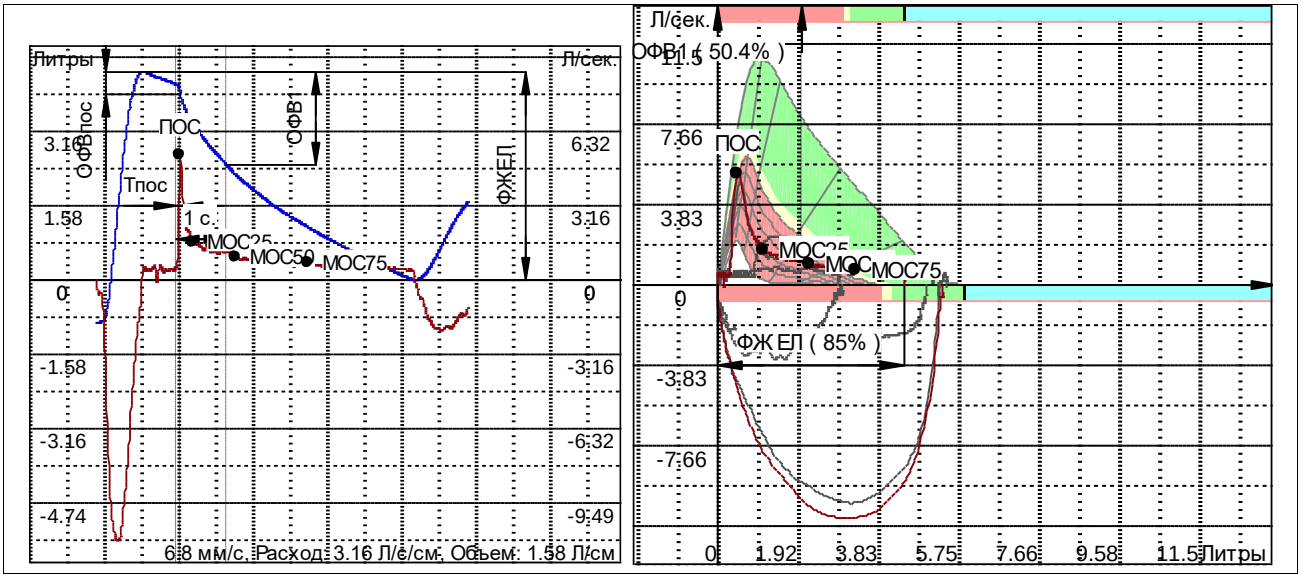
in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 21
Station 3

Date of birth: **22 Jun, 1941**	Age: **70**	Sex: **M**	Height: **185**	Weight: **90**
Date of examination: **7 May, 2012 10:25**				

"VC" and "FVC"

Title	Un.		norma	%	Deviation	Conclusion
FVC	l	4.4	5.2	85		conditional norm
FEV 0.5	l	1.37				
FEV 1	l	2	4	52		sharp decrease
FEV 2	l	2.9	4.9	59		significant decrease
FEV 3	l	3.6	5.2	69		slight decrease
FEVpos	l	0.495				
FEV1/FVC	%	45	70	64		significant decrease
PEF/FEV	l/s	11				
PEF	l/s	5.3	9.4	56		moderate decrease
MEF25	l/s	1.6	8.2	20		sharp decrease
MEF 50	l/s	0.96	4.5	21		з significant decrease
MEF 75	l/s	0.679	1.65	41		moderate decrease
COC0.2-1.2	l/s	1.79				
COC25-75	l/s	0.962	3.8	25		significant decrease
COC75-85	l/s	0.596	1.24	48		
Tпос	s	0.09				



1. Interpretation of spirometric indices.
2. Conclusion.

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EXAMINATION TASK
of Objective Structured Clinical Examination (OSCE) of State Final Certification
in Education and Qualification Level "Specialist"
in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 22
Station 3

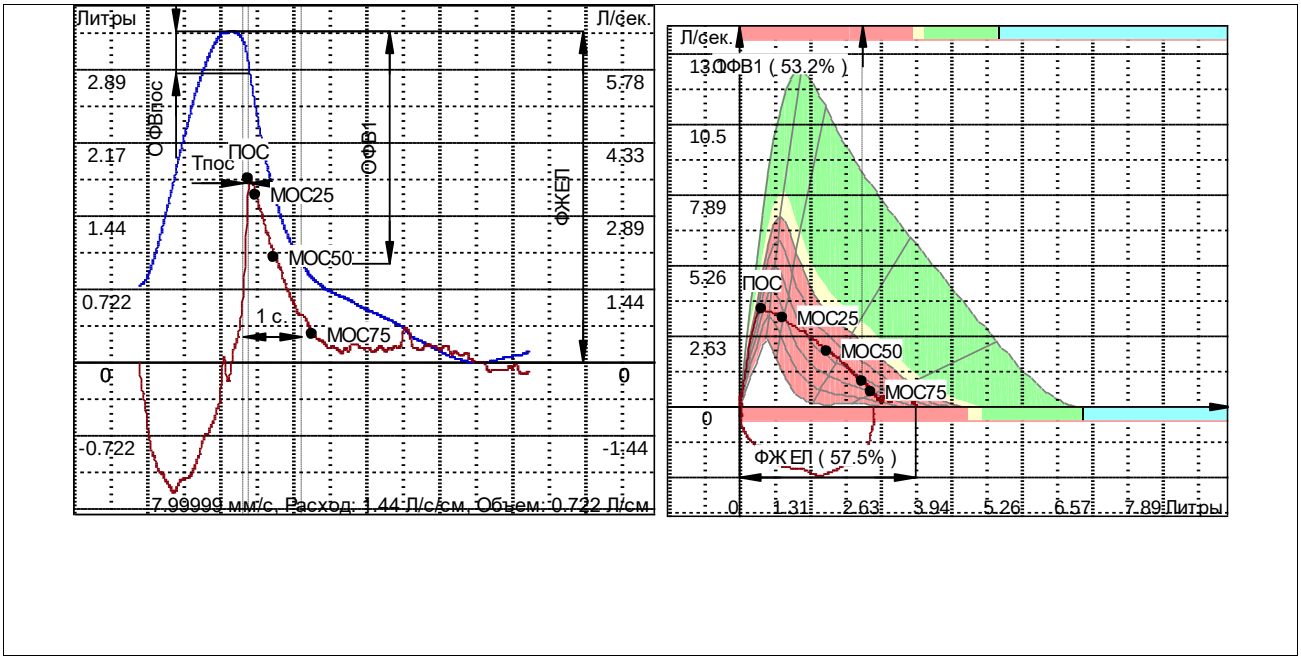
Spirogram № 22

Date of birth: **22 Jan, 1965** | Age: **48** | Sex: **M** | Height: **184** | Weight: **78**

Date of examination: **22 Nov, 2013 12:27**

"VC" and "FVC"

Title	Un.		norma	%	Deviation	Conclusion
FVC	l	3.3	5.7	58		significant decrease
FEV 0.5	l	1.55				
FEV 1	l	2.3	4.3	53		significant decrease
FEV 2	l	2.7	5.2	52		significant decrease
FEV 3	l	3.1	5.4	56		significant decrease
FEVpos	l	0.43				
FEV1/FVC	%	70	75	94		norma
PEF/FEV	l/s	8.4				
PEF	l/s	3.6	11	34		significant decrease
MEF25	l/s	3.3	9.4	35		significant decrease
MEF 50	l/s	2	5.1	40		moderate decrease
MEF 75	l/s	0.553	1.91	29		significant decrease
COC0.2-1.2	l/s	3.2				
COC25-75	l/s	1.68	4.2	40		moderate decrease
COC75-85	l/s	0.317	1.33	24		
Tпос	s	0.12				



1. Interpretation of parametres.
2. Conclusion.

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EXAMINATION TASK
of Objective Structured Clinical Examination (OSCE) of State Final Certification
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in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 23
Station 3

Spirogram № 23

Date of birth: **14 Mar, 1952**	Age: **61**	Sex: **M**	Height: **163**	Weight: **62**
Date of examination: **2 Dec, 2018 09:58**				

"VC" and "FVC"

Title	Un.		norma	%	Deviation	Conclusion
FVC	l	2.5	3.9	64		significant decrease
FEV 0.5	l	0.922				
FEV 1	l	1.27	2.9	43		significant decrease
FEV 2	l	1.79	3.7	48		significant decrease
FEV 3	l	2.2	3.9	57		significant decrease
FEVpos	l	0.237				
FEV1/FVC	%	52	75	69		moderate decrease
PEF/FEV	l/s	15				
PEF	l/s	3.7	8	46		significant decrease
MEF25	l/s	1.64	6.9	24		significant decrease
MEF 50	l/s	0.621	3.5	18		significant decrease
MEF 75	l/s	0.483	1.04	46		slight decrease
COC0.2-1.2	l/s	1.22				
COC25-75	l/s	0.642	2.8	23		significant decrease
COC75-85	l/s	0.456	0.696	65		
Tпос	s	0.07				

At 10:15 the patient received 4 inhalations of salbutamol 100 µg

"VC" and "FVC" 10:35

Title	Un.		norma	%	Deviation	Conclusion
FVC	l	3.5	3.9	72		moderate decrease
FEV 0.5	l	1.352				
FEV 1	l	1.58	2.9	54		significant decrease
FEV 2	l	2.19	3.7	58		significant decrease
FEV 3	l	2.9	3.9	64		significant decrease
FEVpos	l	0.637				
FEV1/FVC	%	64	75	75		moderate decrease
PEF/FEV	l/s	15				
PEF	l/s	4.6	8	55		significant decrease
MEF25	l/s	2.14	6.9	38		significant decrease
MEF 50	l/s	1.71	3.5	22		significant decrease
MEF 75	l/s	0.973	1.04	49		slight decrease
COC0.2-1.2	l/s	1.59				
COC25-75	l/s	0.982	2.8	25		significant decrease
COC75-85	l/s	0.856	0.696	70		
Tпос	s	0.09				

1. Interpretation of parametres.
2. Conclusion.

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in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 24
Station 3

Spirogram № 24

Date of birth: **2 Oct, 1946**	Age: **64**	Sex: **M**	Height: **170**	Weight: **80**
Date of examination: **25 Sep, 2018 10:35**				

"VC" and "FVC"

Title	Un.		norma	%	Deviation	Conclusion
FVC	l	1.77	4.2	55		sharp decrease
FEV 0.5	l	0.737				
FEV 1	l	1.12	3.2	35		sharp decrease
FEV 2	l	1.55	4.1	38		Significant decrease
FEV 3	l	1.72	4.3	40		sharp decrease
FEVpos	l	0.124				
FEV1/FVC	%	63	73	63		norma
PEF/FEV	l/s	25				
PEF	l/s	3	8.2	37		sharp decrease
MEF25	l/s	1.32	7.1	19		sharp decrease
MEF 50	l/s	0.788	3.8	21		sharp decrease
MEF 75	l/s	0.461	1.18	39		moderate decrease
COC0.2-1.2	l/s	0.943				
COC25-75	l/s	0.751	3.1	24		significant decrease
COC75-85	l/s	0.399	0.793	50		

At 10:40 the patient received 4 inhalations of salbutamol (400 μg)

"VC" and "FVC" 10:55

Title	Un.		norma	%	Deviation	Conclusion
FVC	l	1.8	4.2	57		sharp decrease
FEV 0.5	l	0.737				
FEV 1	l	1.2	3.2	38		sharp decrease
FEV 2	l	1.72	4.1	39		sharp decrease
FEV 3	l	1.78	4.3	41		sharp decrease
FEVpos	l	0.124				
FEV1/FVC	%	63	73	66		norma
PEF/FEV	l/s	25				
PEF	l/s	4	8.2	39		sharp decrease
MEF25	l/s	1.7	7.1	21		sharp decrease
MEF 50	l/s	1.23	3.8	23		sharp decrease
MEF 75	l/s	0.861	1.18	41		moderate decrease
COC0.2-1.2	l/s	0.943				
COC25-75	l/s	0.951	3.1	26		significant decrease
COC75-85	l/s	0.485	0.793	52		

1. Interpretation of spirometric indices.
2. Conclusion.

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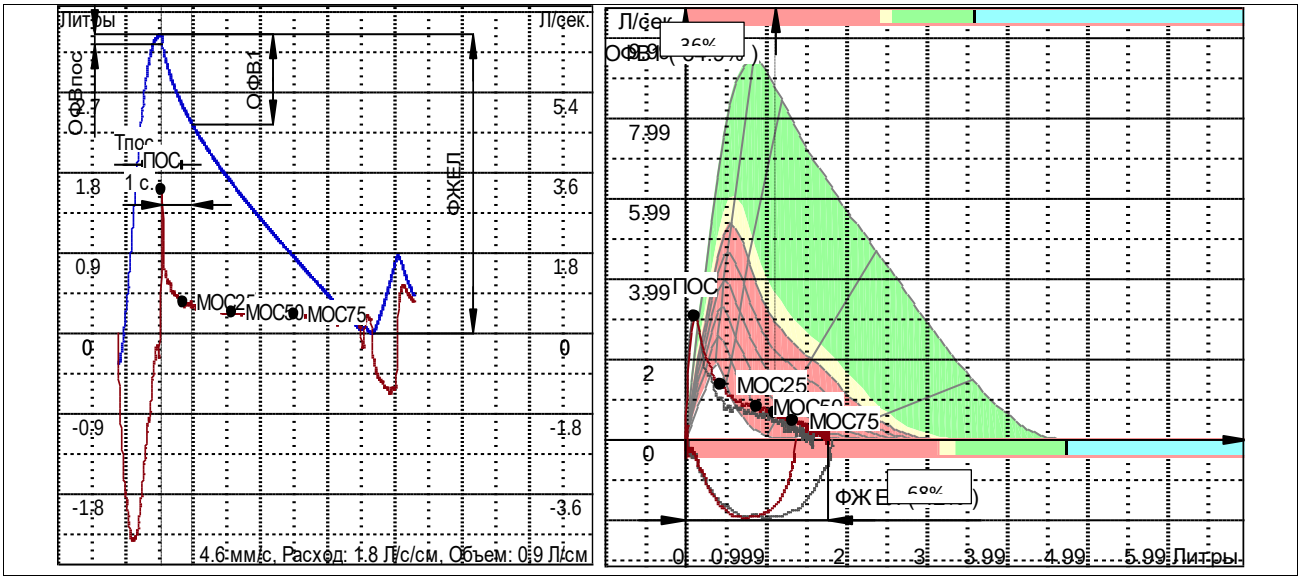
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 25
Station 3

Spirogram № 25				
Date of birth: **16 Mar, 1952**	Age: **64p.**	Sex: **M**	Height : **168**	Weight: **73**
Date of examination: **13 Apr, 2016 10:27**				

"VC" and "FVC"

Title	Un.	.	norma	%	Deviation	Conclusion
FVC	l	2.55	3.8	68		moderate decrease
FEV 0.5	l	0.679				
FEV 1	l	1.02	2.9	36		significant decrease
FEV 2	l	1.55	3.7	42		significant decrease
FEV 3	l	1.99	3.8	52		significant decrease
FEVpos	l	0.129				
FEV1/FVC	%	31	74	53		significant decrease
PEF/FEV	l/s	25				
PEF	l/s	3.2	7.8	41		significant decrease
MEF25	l/s	0.671	6.7	10		significant decrease
MEF 50	l/s	0.435	3.3	13		significant decrease
MEF 75	l/s	0.383	1.01	38		moderate decrease
COC0.2-1.2	l/s	0.806				
COC25-75	l/s	0.467	2.8	17		significant decrease
COC75-85	l/s	0.385	0.697	55		



1. Interpretation of parametres.
2. Conclusion.

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EXAMINATION TASK
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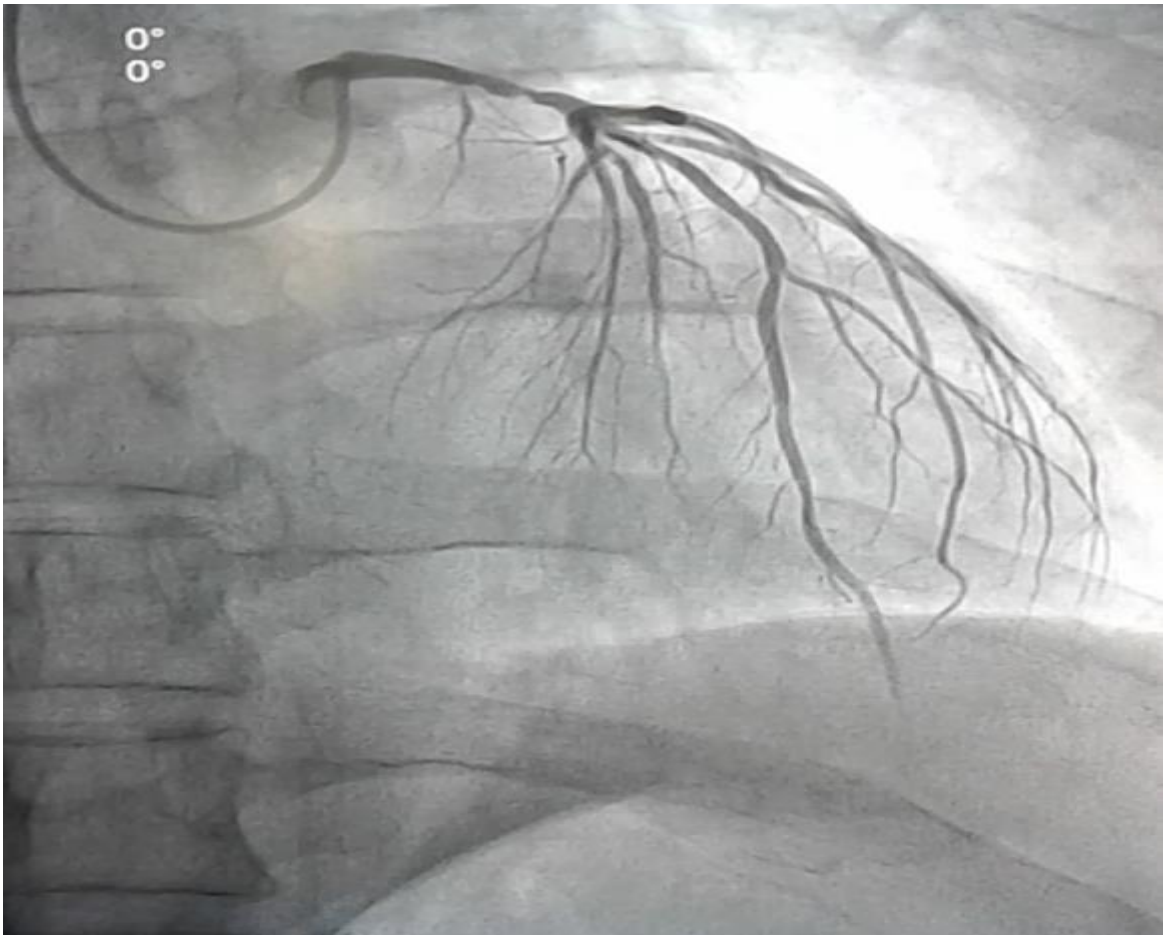
in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 26
Station 3



Questions:
1. Describe the changes found in the coronary angiogram.
2. What diseases can occur in patients with such lesions?

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in Education and Qualification Level "Specialist"
in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 27
Station 3

Questions:
1. Describe the changes found in the coronary angiogram.
2. What diseases can occur in patients with such lesions?

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Discipline "Internal, Occupational and Infectious Diseases"

Variant No. 28

Station 3

A 56 years-old man with complaints of general weakness and pain in the left hypochondrium was examined by a family doctor who prescribed a clinical blood test. The results were obtained.

Clinical blood test of the patient:

Indicators \ Units	Normal level	Patient level
Hemoglobin	**Female:**120-140 g/l	142 g/l
	Male: 130-160 g/l	
Red blood cells	**Female:**3,7-4,7x10^{12}/l	4x10^{12}/l
	Male: 4,0-5,0x10^{12}/l	
Mean corpuscular volume, MCV	80-100 fl	88 fl
Mean corpuscular hemoglobin, MCH	27-35 pg	34,5 pg
Erythrocyte sedimentation rate, ESR	**Female:** 2-15 mm/h	11 mm/h
	Male: 1-10 mm/h	
White blood cells	4-9x10^{9}/l	79x10^{9}/l
Platelets	180-320x10^{9}/l	516x10^{9}/l
Leukocyte formula		
blasts	0 %	3 %
myelocytes	0 %	8 %
young cells	0 %	8 %
banded neutrophils	1-5 %	17 %
segmented neutrophils	47-72 %	51 %
basophils	0,5-1 %	2 %
eosinophils	1-5 %	6 %
lymphocytes	18-38 %	1 %
monocytes	3-11 %	4 %

Sternal puncture was performed.

Results of myelogram count:

Myelogram		Normal level	Patient level
blasts		0,1-1,1%	2,5%
Neutrophils	promyelocytes	1,0-4,0%	2%
	myelocytes	7,0-12,2%	37%
	metamyelocytes	8,0-15,0%	10,5%
	banded neutrophils	12,8-23,7%	15%
	segmented neutrophils	13,1-24,1%	20,5%
eosinophils		0,5-5,8%	8%
basophils		0,0-0,5%	1,5%
erythroblasts		0,2-1,1%	0%
pronormocytes		0,1-1,2%	0%
Normocytes	basophilic	1,4-4,6%	0%
	polychromatophilic	8,9-16,9%	1%
	oxyphilic	0,8-5,6%	0,5%
megaloblasts		0%	0%
lymphocytes		4,3-13,7%	1,5%
plasmocytes		0,1-1,8 %	0%
monocytes		0,7-3,1%	2%
leuko/erythro ratio		(3,5-4:1,0)	66:1
megakaryocytes		functional	Narrowed megakaryocytic row

Questions:
1. Evaluate hemogram and sternal puncture test.
2. Draw a conclusion. Assign the necessary examinations to confirm the diagnosis.

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Discipline "Internal, Occupational and Infectious Diseases"

Variant No. 29

Station 3

A 42 years-old woman came to the hematologist with complaints of general weakness, dizziness, weight loss of 15 kg over the past 2 months.

In clinical blood test:

Indicators \ Units	Normal level	Patient level
Hemoglobin	**Female:**120-140 g/l	56 g/l
	Male: 130-160 g/l	
Red blood cells	**Female:**3,7-4,7x10^{12}/l	1,85x10^{12}/l
	Male: 4,0-5,0x10^{12}/l	
Mean corpuscular volume, MCV	80-100 fl	86 fl
Mean corpuscular hemoglobin, MCH	27-35 pg	30,27 pg
Erythrocyte sedimentation rate, ESR	**Female:** 2-15 mm/h	50 mm/h
	Male: 1-10 mm/h	
White blood cells	4-9x10^{9}/l	20x10^{9}/l
Platelets	180-320x10^{9}/l	52x10^{9}/l
Leukocyte formula		
blasts	0 %	56 %
myelocytes	0 %	0 %
young cells	0 %	0 %
banded neutrophils	1-5 %	0 %
segmented neutrophils	47-72 %	21 %
basophils	0,5-1 %	3 %
eosinophils	1-5 %	0 %
lymphocytes	18-38 %	16 %
monocytes	3-11 %	4 %

Sternal puncture was performed. Results of myelogram count:

Myelogram		Normal level	Patient level
blasts		0,1-1,1%	72,5%
Neutrophils	promyelocytes	0%	2%
	myelocytes	0,5%	37%
	metamyelocytes	1,0%	10,5%
	banded neutrophils	0,5%	15%
	segmented neutrophils	3,5%	20,5%
eosinophils		0,5-5,8%	2,0%
basophils		0,0-0,5%	0%
erythroblasts		0,2-1,1%	0%
pronormocytes		0,1-1,2%	0%
Normocytes	basophilic	2%	0%
	polychromatophilic	1%	1%
	oxyphilic	0%	0,5%
megaloblasts		0%	0%
lymphocytes		4,3-13,7%	12,5%
plasmocytes		0,1-1,8 %	0%
monocytes		0,7-3,1%	3,5%
leuko/erythro ratio		(3,5-4:1,0)	32:1
megakaryocytes		functional	Narrowed megakaryocytic row

Questions:
1. Evaluate hemogram and sternal puncture test.
2. Draw a conclusion. Assign the necessary examinations to confirm the diagnosis.

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Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 30
Station 3

A 63 years-old man addressed to a family physician for prophylactic examination. Generalized lymphadenopathy was revealed in the clinical blood test shown following changes:

Indicators \ Units	Normal level	Patient level
Hemoglobin	**Female:**120-140 g/l	146 g/l
	Male: 130-160 g/l	
Red blood cells	**Female:**3,7-4,7x10^{12}/l	5,2x10^{12}/l
	Male: 4,0-5,0x10^{12}/l	
Mean corpuscular volume, MCV	80-100 fl	86 fl
Mean corpuscular hemoglobin, MCH	27-35 pg	30,27 pg
Erythrocyte sedimentation rate, ESR	**Female:** 2-15 mm/h	10 mm/h
	Male: 1-10 mm/h	
White blood cells	4-9x10^{9}/l	49x10^{9}/l
Platelets	180-320x10^{9}/l	236x10^{9}/l
Leukocyte formula		
blasts	0 %	0 %
myelocytes	0 %	0 %
young cells	0 %	0 %
banded neutrophils	1-5 %	1 %
segmented neutrophils	47-72 %	42 %
basophils	0,5-1 %	0 %
eosinophils	1-5 %	0 %
lymphocytes	18-38 %	56 %
monocytes	3-11 %	1 %

Sternal puncture was performed. Results of myelogram count:

Myelogram		Normal level	Patient level
blasts		0,1-1,1%	0,5%
Neutrophils	promyelocytes	0%	2%
	myelocytes	2,25%	37%
	metamyelocytes	3,0%	10,5%
	banded neutrophils	5,5%	15%
	segmented neutrophils	7,5%	20,5%
eosinophils		0,5-5,8%	0%
basophils		0,0-0,5%	0%
erythroblasts		0,2-1,1%	0%
pronormocytes		0,1-1,2%	0%
Normocytes	basophilic	1%	0%
	polychromatophilic	4,75%	1%
	oxyphilic	4,75%	0,5%
megaloblasts		0%	0%
1		2	3
lymphocytes		4,3-13,7%	69,5%
plasmocytes		0,1-1,8 %	0%
monocytes		0,7-3,1%	1,25%
leuko/erythro ratio		(3,5-4:1,0)	32:1
megakaryocytes		functional	functional

Questions:
1. Evaluate hemogram and sternal puncture test.
2. Draw a conclusion. Assign the necessary examinations to confirm the diagnosis.

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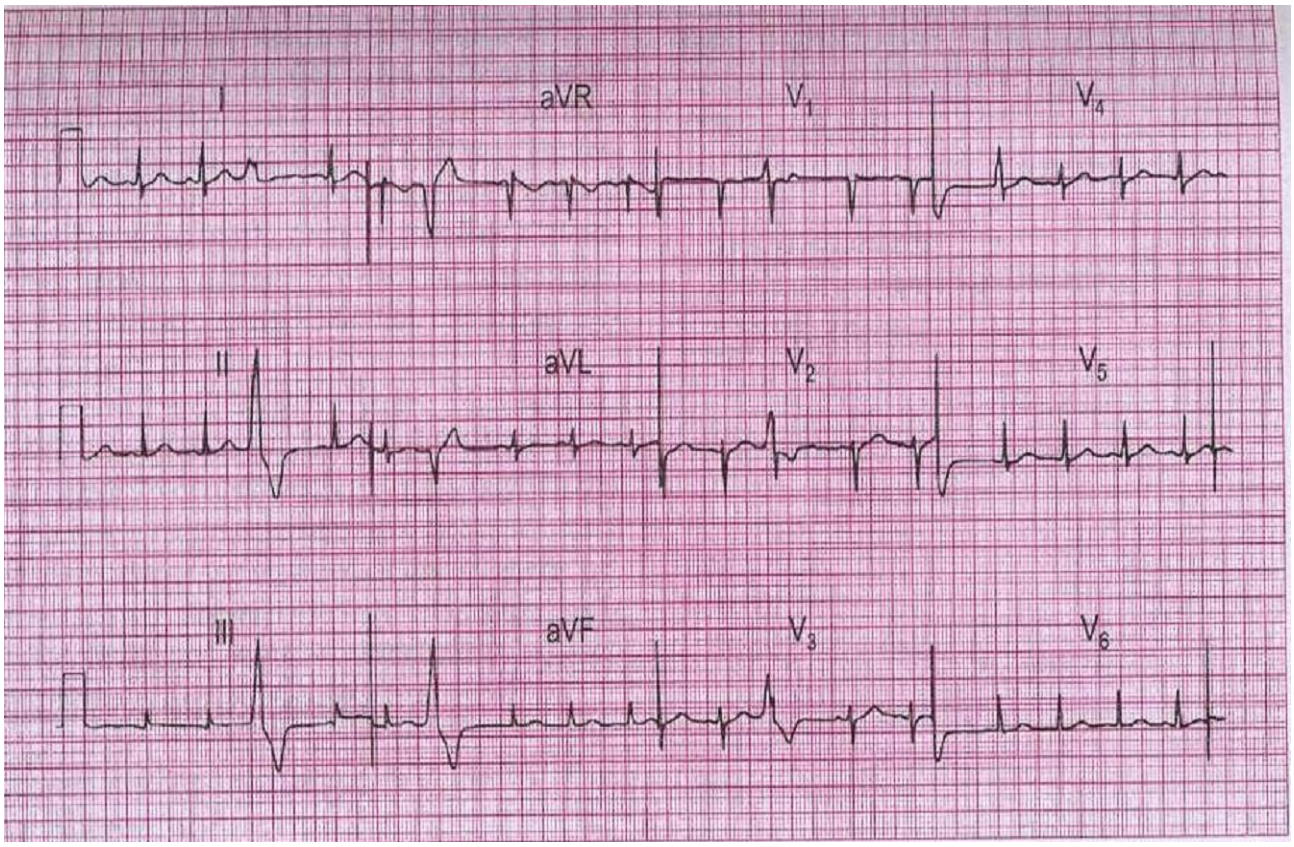
Variant No. 31

Station 3

ECG of a pregnant woman 28 years old with complaints of cardiac arrhythmia.

Questions:

1. What changes to the ECG?
2. Conclusion.



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in the Specialty 7.1201000 "General Medicine"

Discipline "Internal, Occupational and Infectious Diseases"

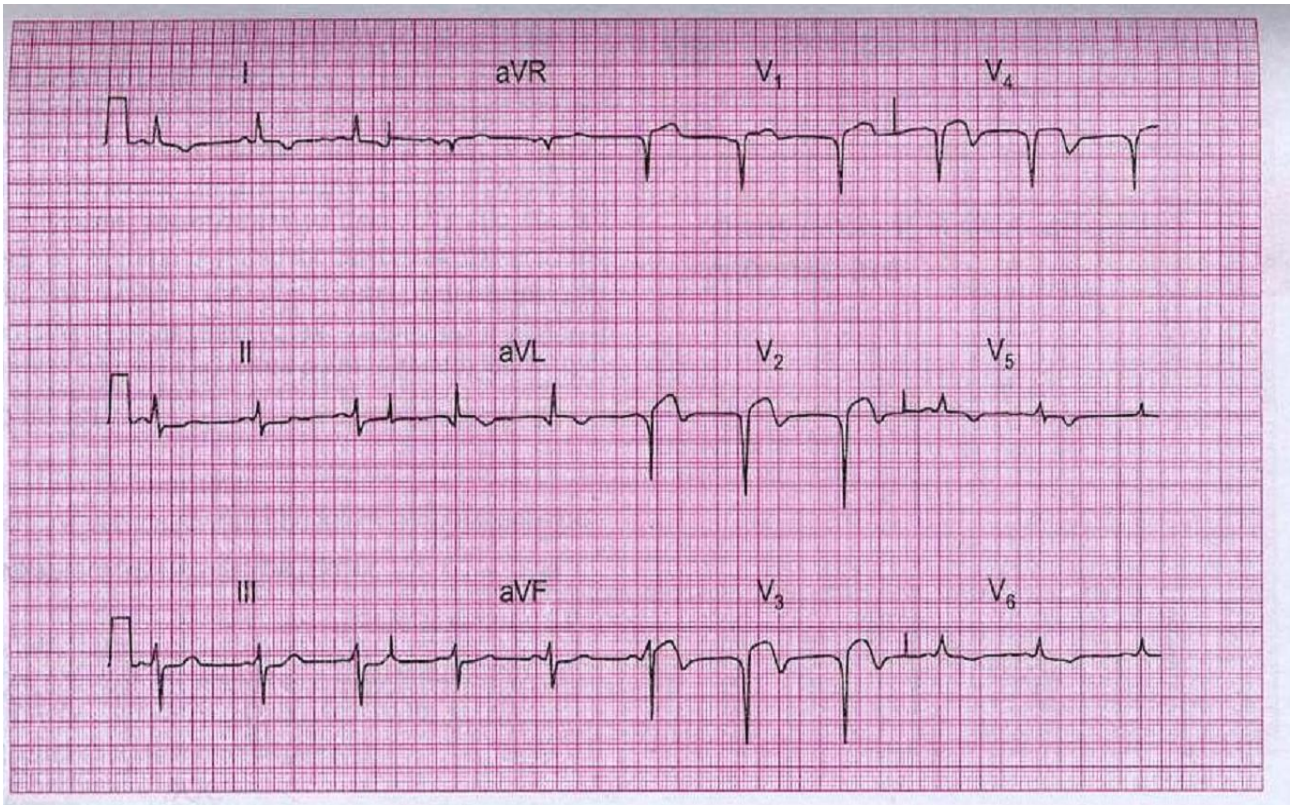
Variant No. 32

Station 3

A 56-year-old man was admitted to a hospital with severe chest pain lasting about 12 hours.

Questions:

1. What changes to the ECG?
2. Conclusion.



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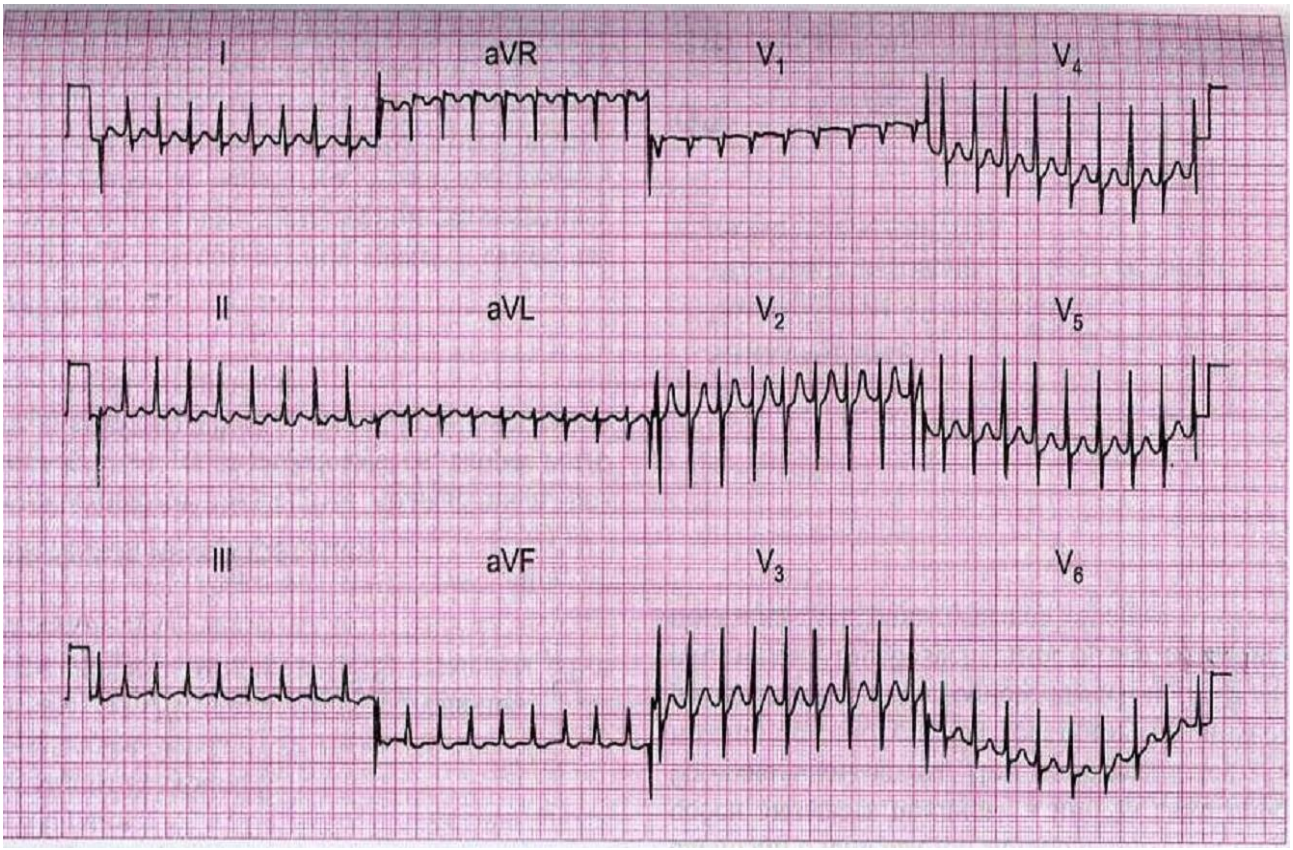
in the Specialty 7.1201000 "General Medicine"
Discipline "Internal, Occupational and Infectious Diseases"
Variant No. 33
Station 3

32-year-old woman was taken to hospital with heartbeat complaints. She noted similar attacks before.
Questions: 1. What changes to the ECG? 2. Conclusion.



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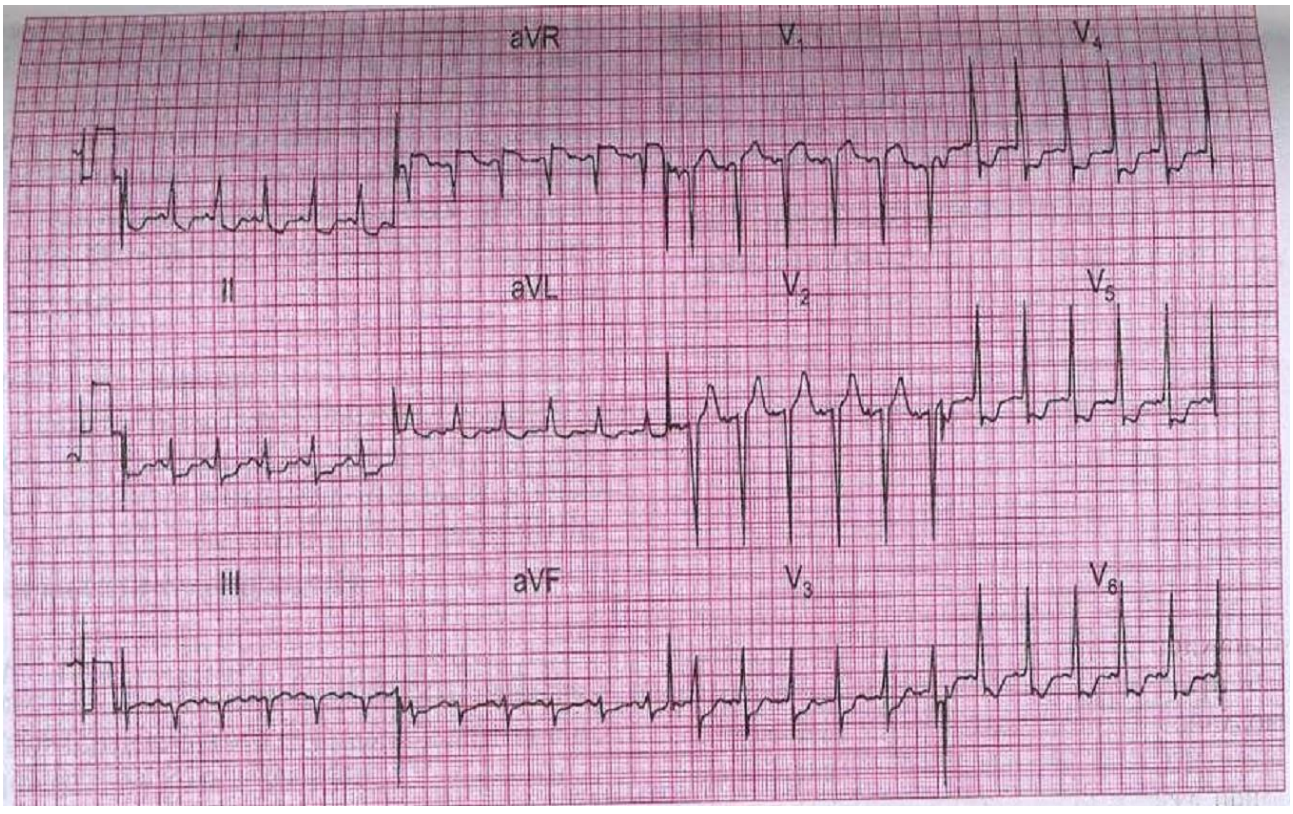
Variant No. 34

Station 3

ECG of a patient 58 years old with chest pain at rest for about 20 minutes.

Questions:

1. What changes to the ECG?
2. Conclusion.



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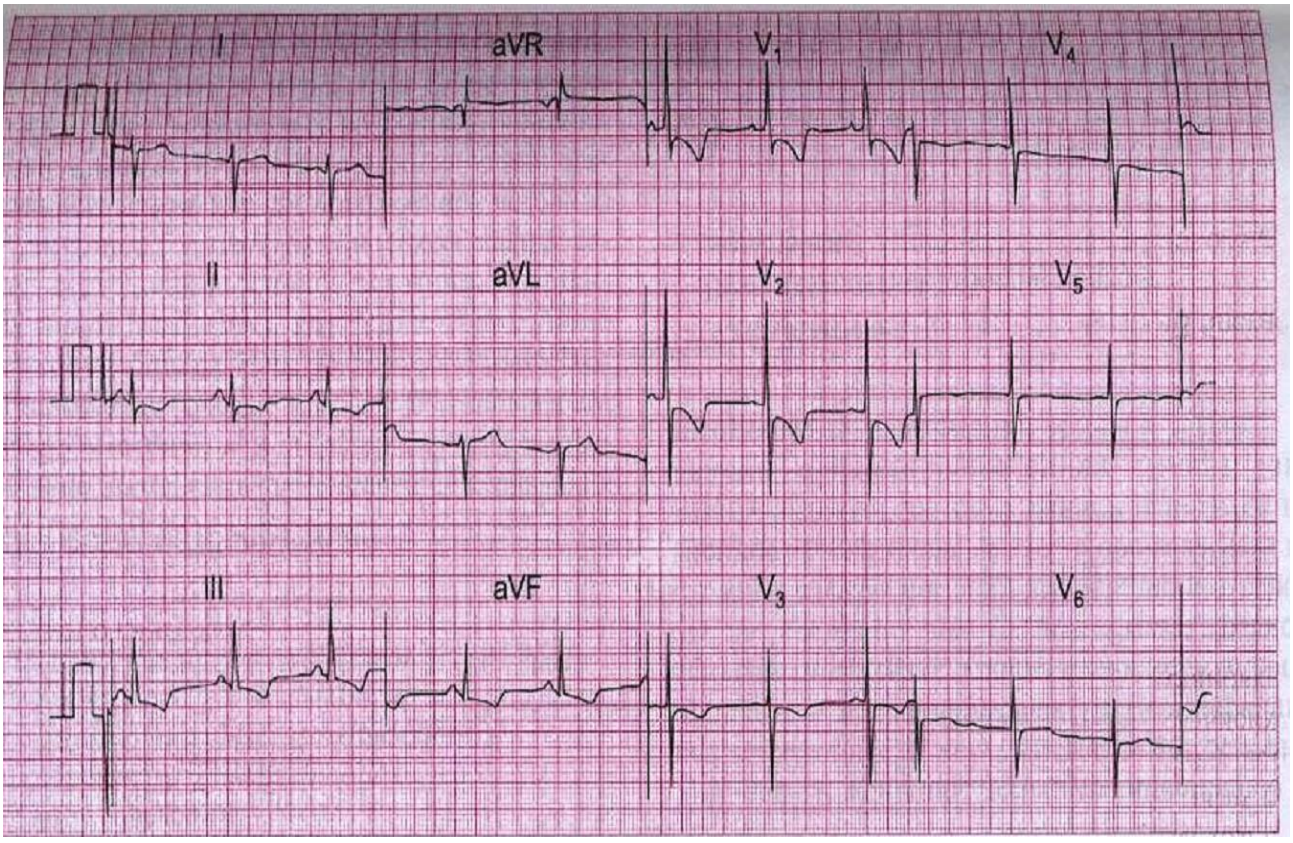
Variant No. 35

Station 3

A patient of 48 years went to the doctor complaining of progressive shortness of breath.

Question:

1. What changes to the ECG?
2. Conclusion.



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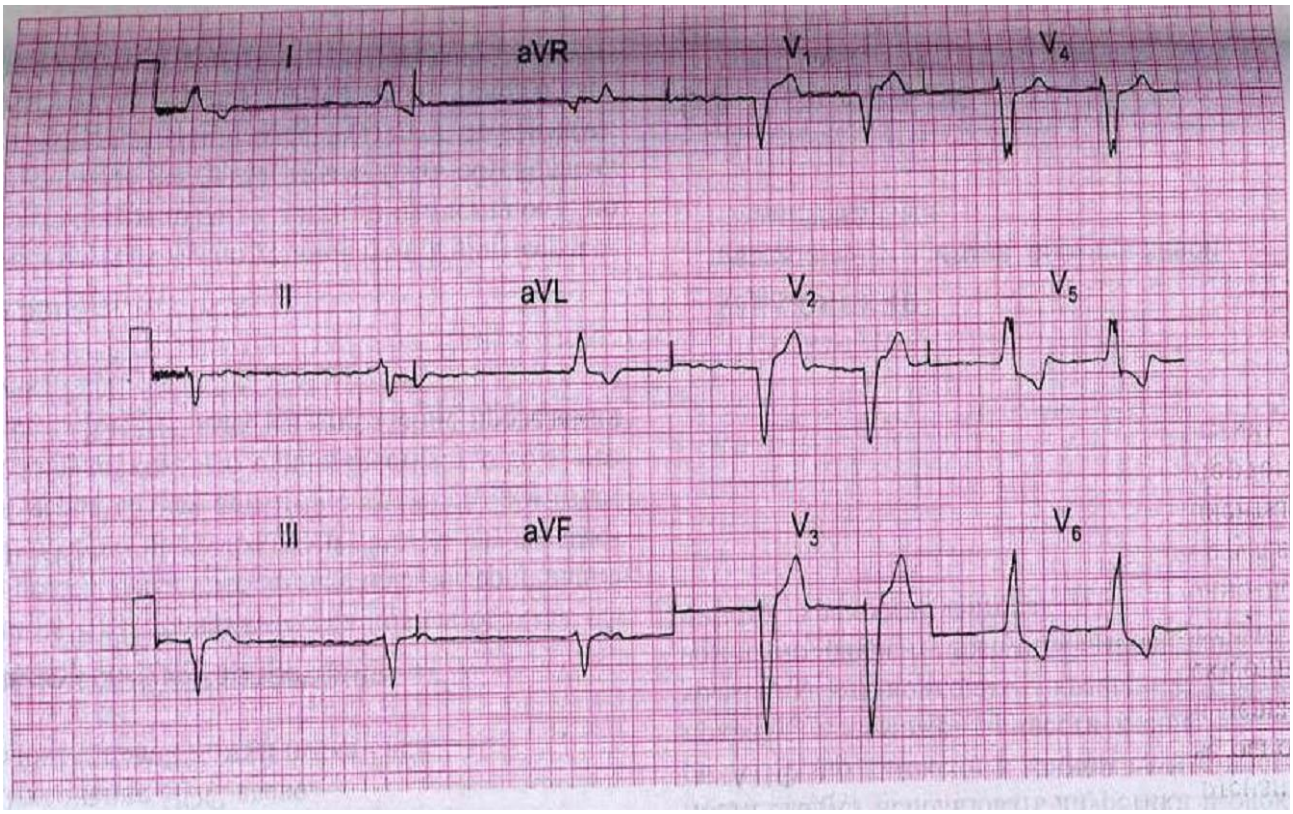
Variant No. 36

Station 3

82-year-old ECG patient with shortness of breath, difficulty in the right hypochondrium, swelling of the tibia, which has gradually increased over the last three months.

Question:

1. What changes to the ECG?
2. Conclusion.



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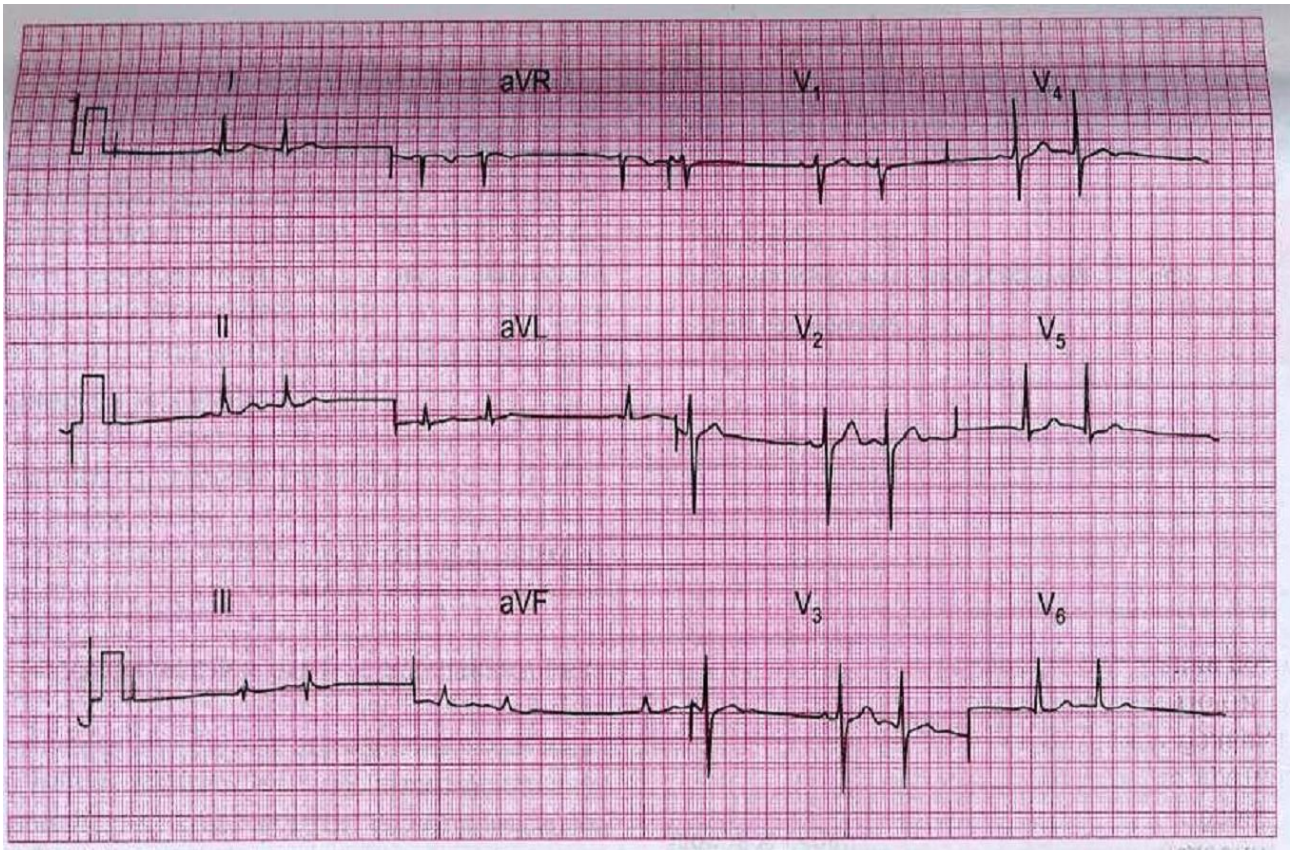
Variant No. 37

Station 3

ECG of a 36 year old man complaining of palpitations.

Questions:

1. What changes to the ECG?
2. Conclusion.



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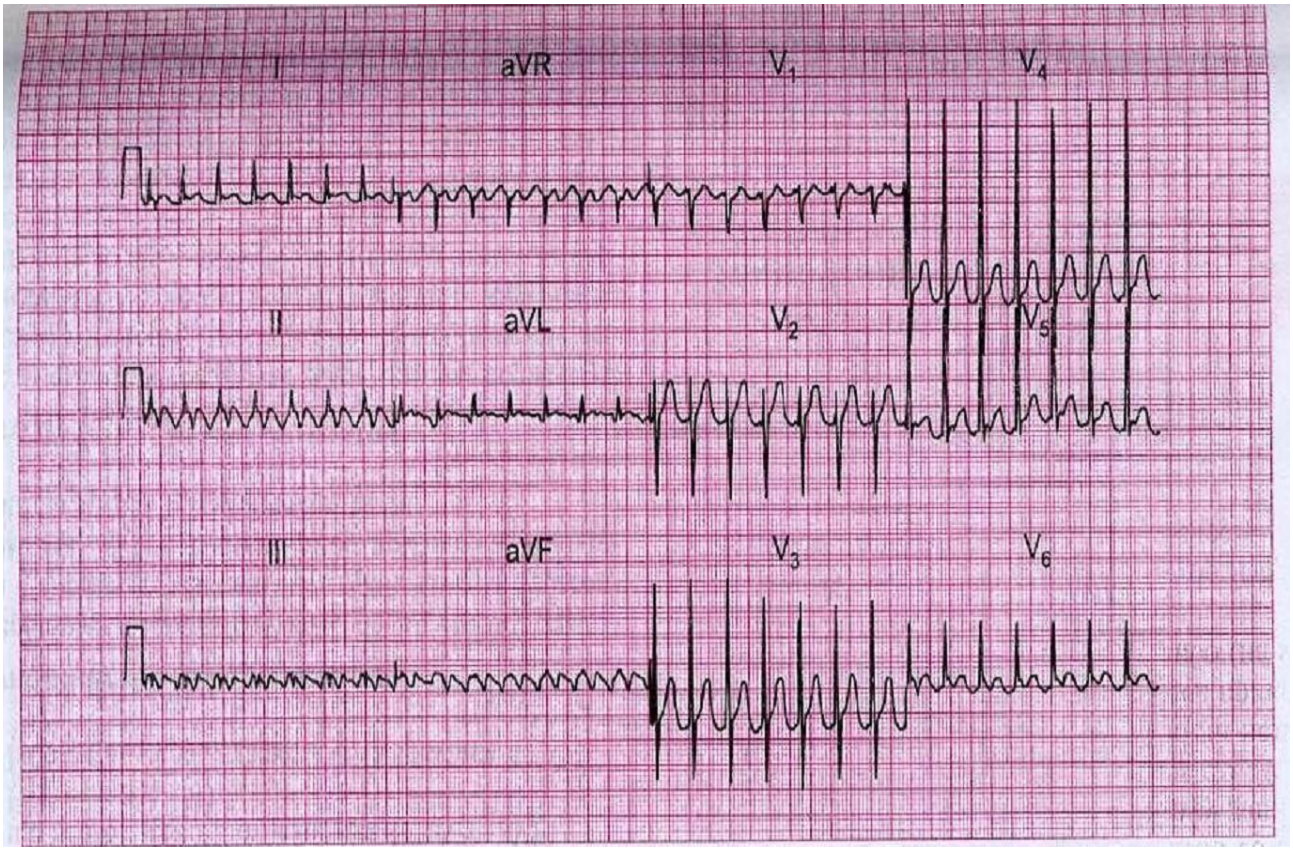
Variant No. 38

Station 3

ECG of a 42-year-old woman hospitalized in a cardiac ward with an acute left ventricular failure clinic.

Questions:

1. What changes to the ECG?
2. Conclusion.



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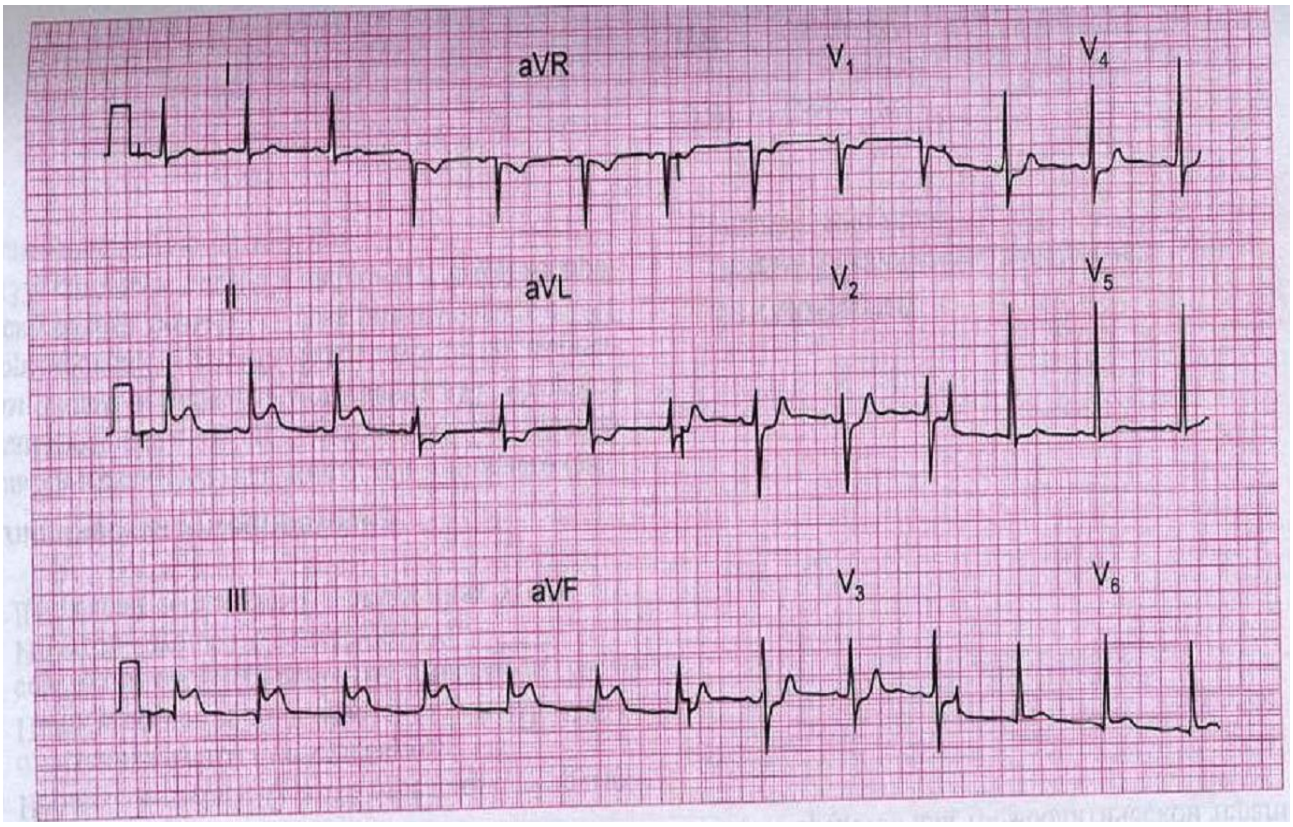
Variant No. 39

Station 3

ECG of a 47-year-old hospitalized with complaints of compressive chest pain lasting about an hour.

Question:

1. What changes to the ECG?
2. Conclusion.



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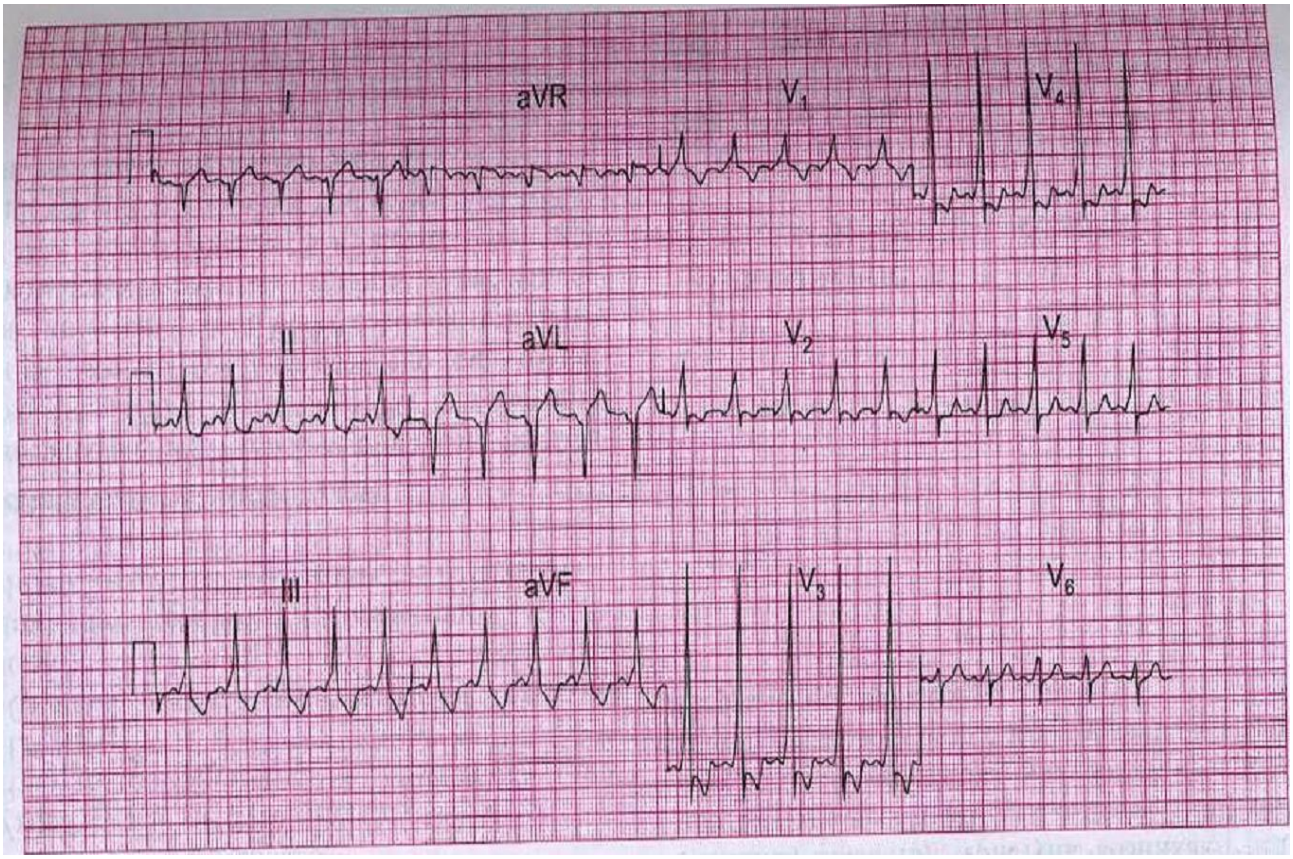
Variant No. 40

Station 3

ECG of a 22 years old student with complaints of tachycardia attacks occurring 1-2 times a year. The attacks start and disappear suddenly, lasting a few minutes.

Questions:

1. What changes to the ECG?
2. Conclusion.



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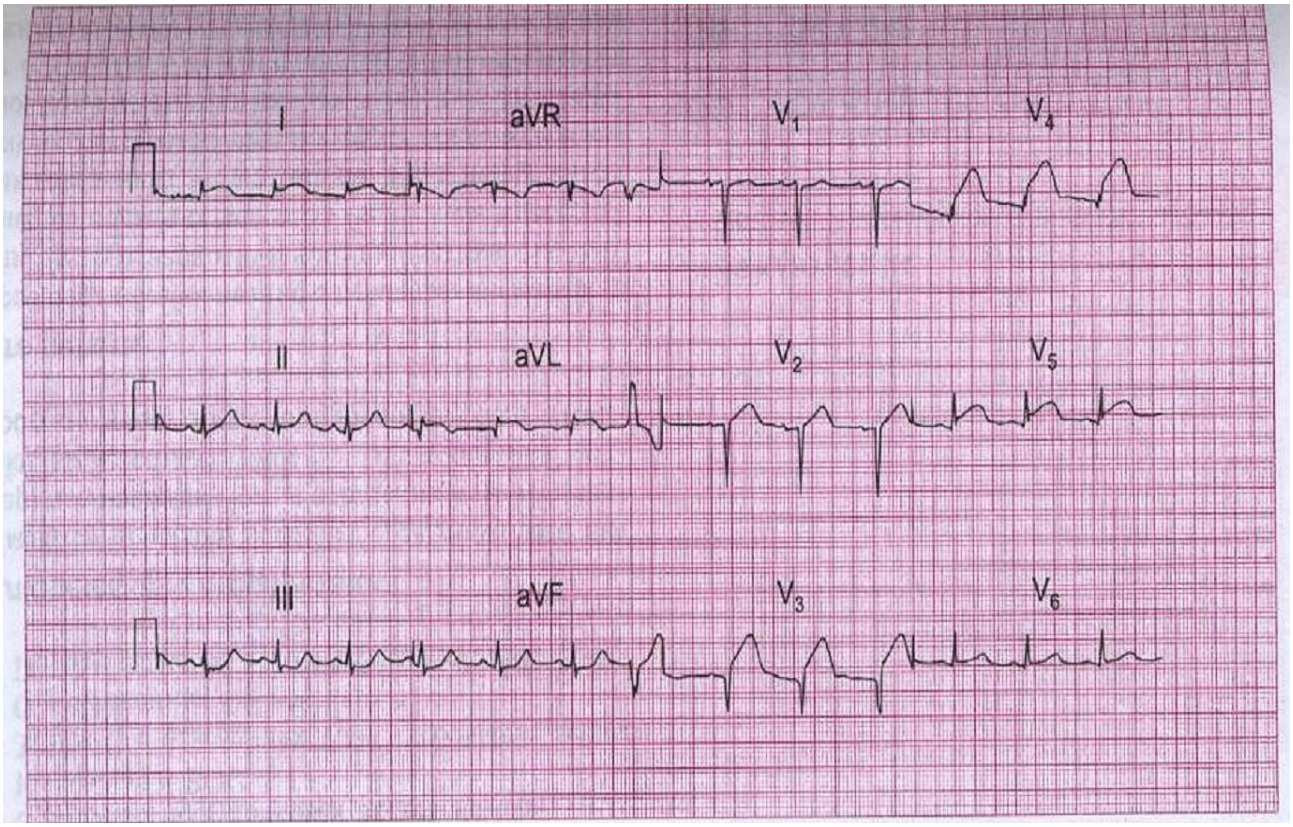
Variant No. 41

Station 3

ECG of a 65-year-old man with severe chest pain for 2 hours.

Questions:

1. What changes to the ECG?
2. Conclusion.



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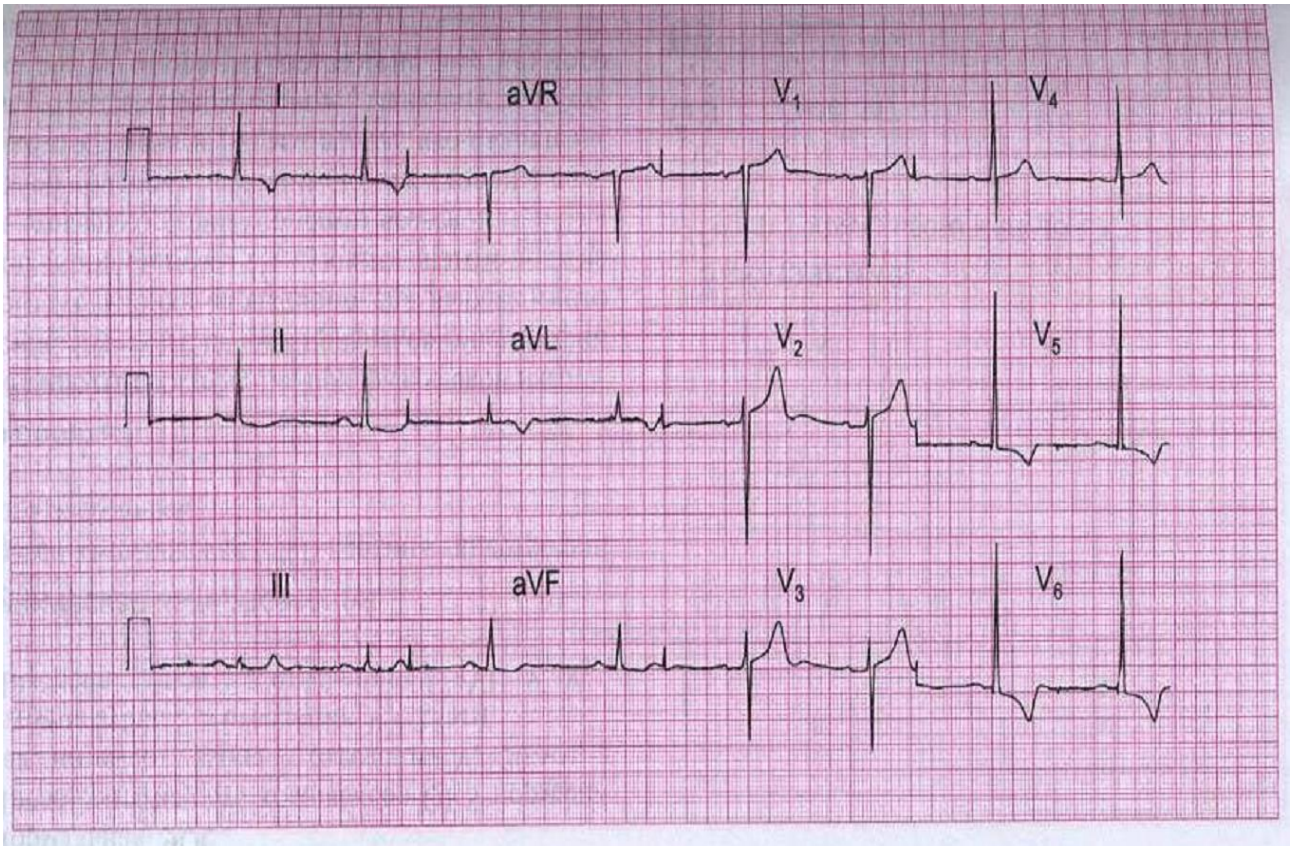
Variant No. 42

Station 3

ECG of a man 72 years old with aortic valve stenosis.

Questions:

1. What changes to the ECG?
2. Conclusion.



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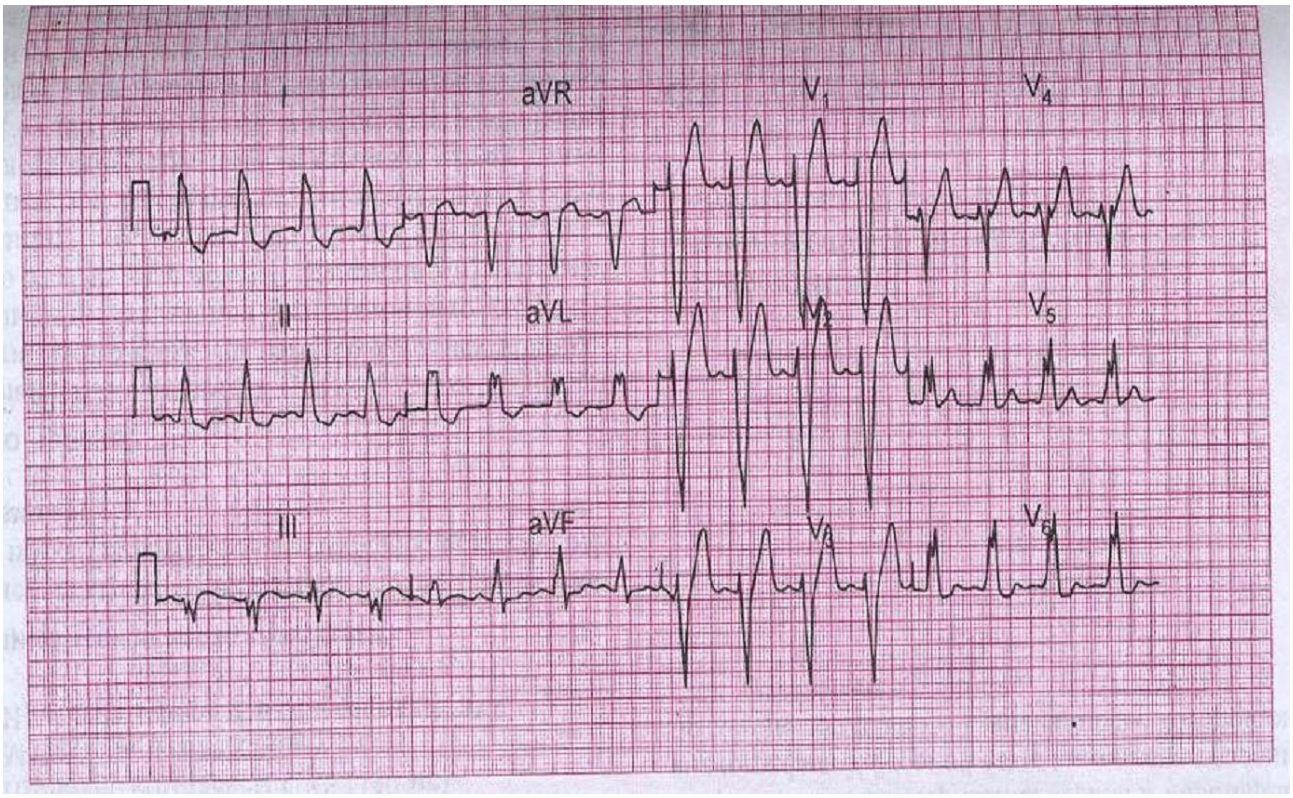
Variant No. 43

Station 3

ECG 78 year-old woman with compressive pain behind the sternum, dizziness and syncope during physical activity.

Questions:

1. What changes to the ECG?
2. Conclusion.



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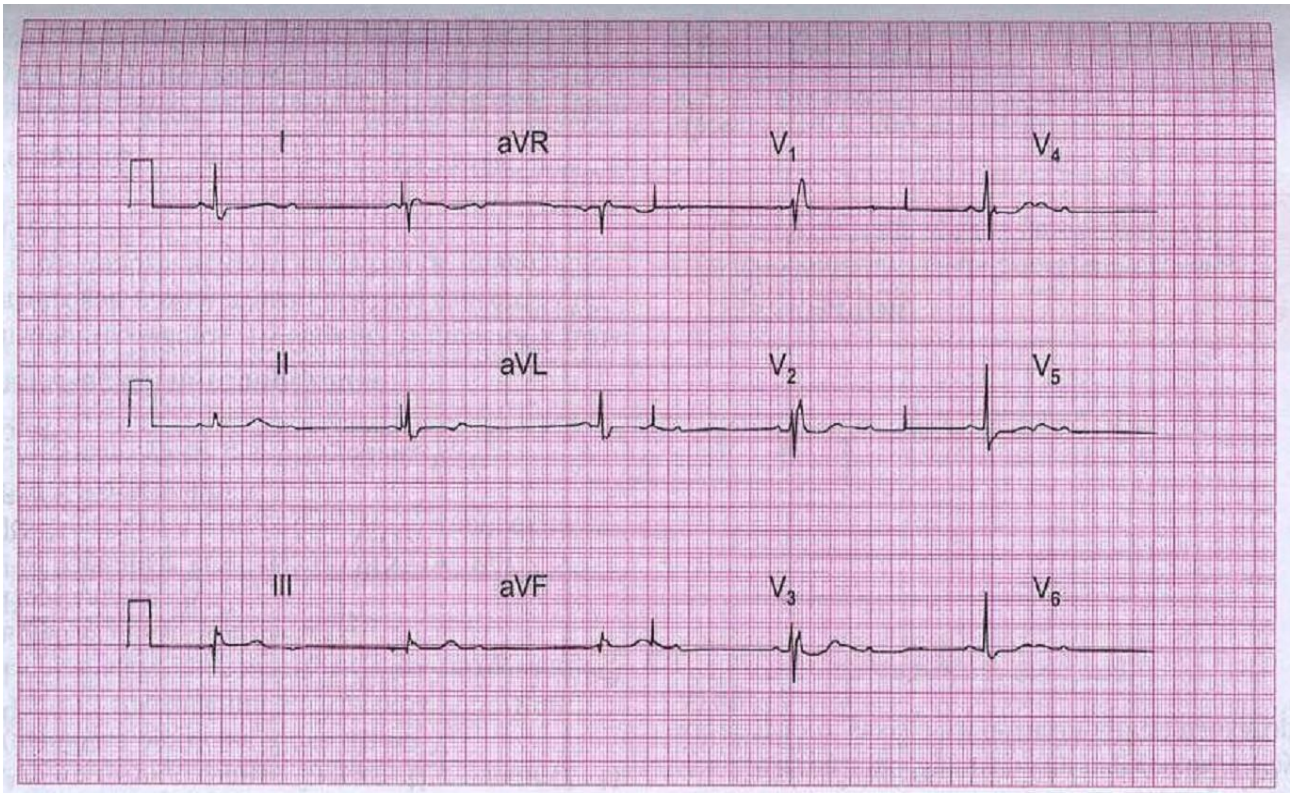
Variant No. 44

Station 3

ECG of a 72-year-old woman hospitalized for shortness of breath, developed 2 months ago a few days ago.

Questions:

1. What changes to the ECG?
2. Conclusion



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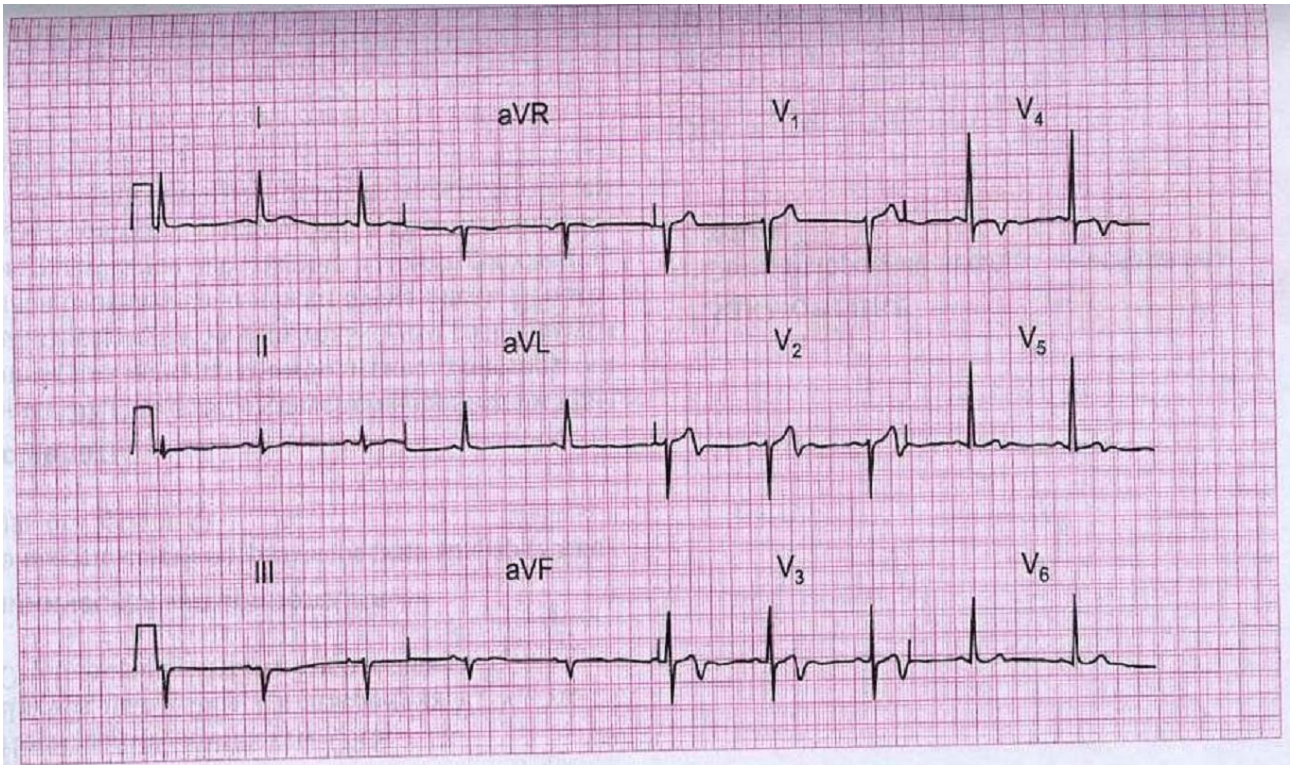
Variant No. 45

Station 3

ECG of a 62 years old woman with severe chest pain for one hour.

Questions:
1. What changes to the ECG?
2. Conclusion.



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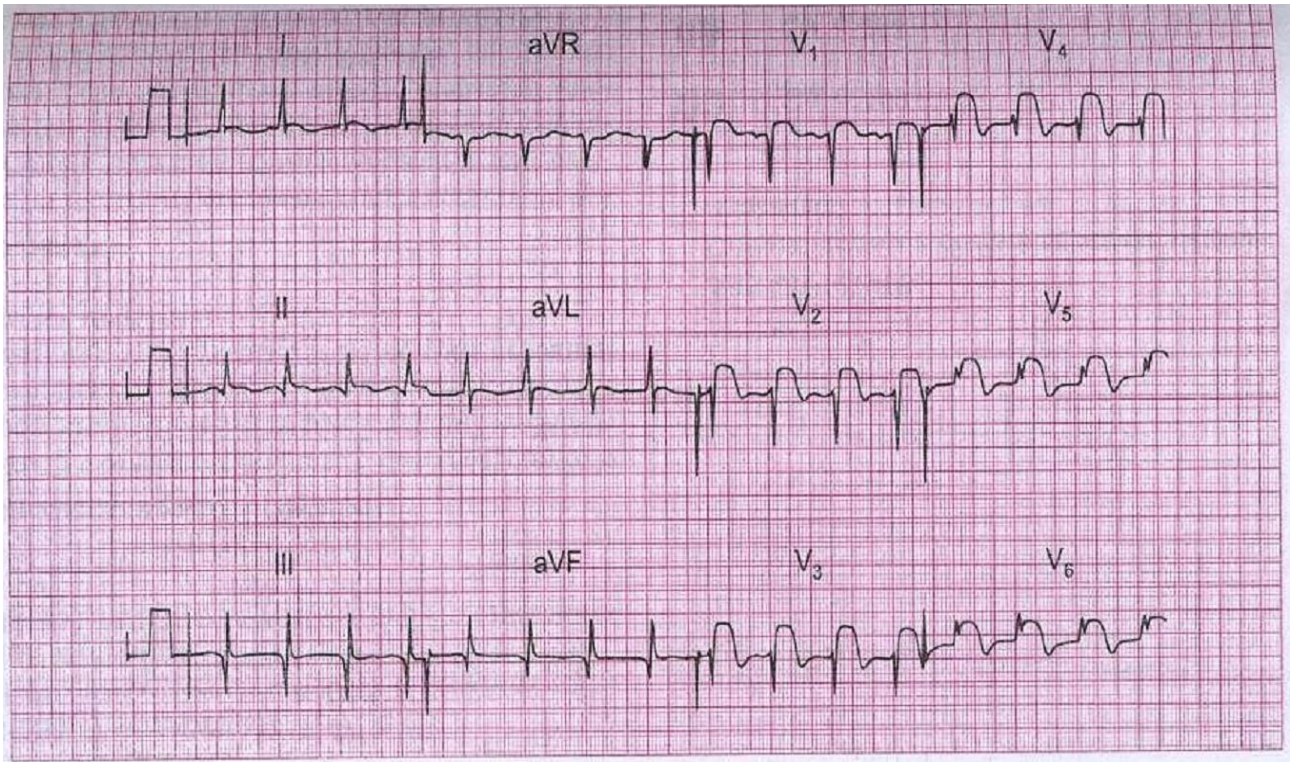
Variant No. 46
Station 3

Patient 67 years was admitted to hospital with chest pain that lasts for about an hour and does not stop after sublingual nitroglycerin. Five years ago had a myocardial infarction.

Questions:
1. What changes to the ECG?
2. Conclusion.



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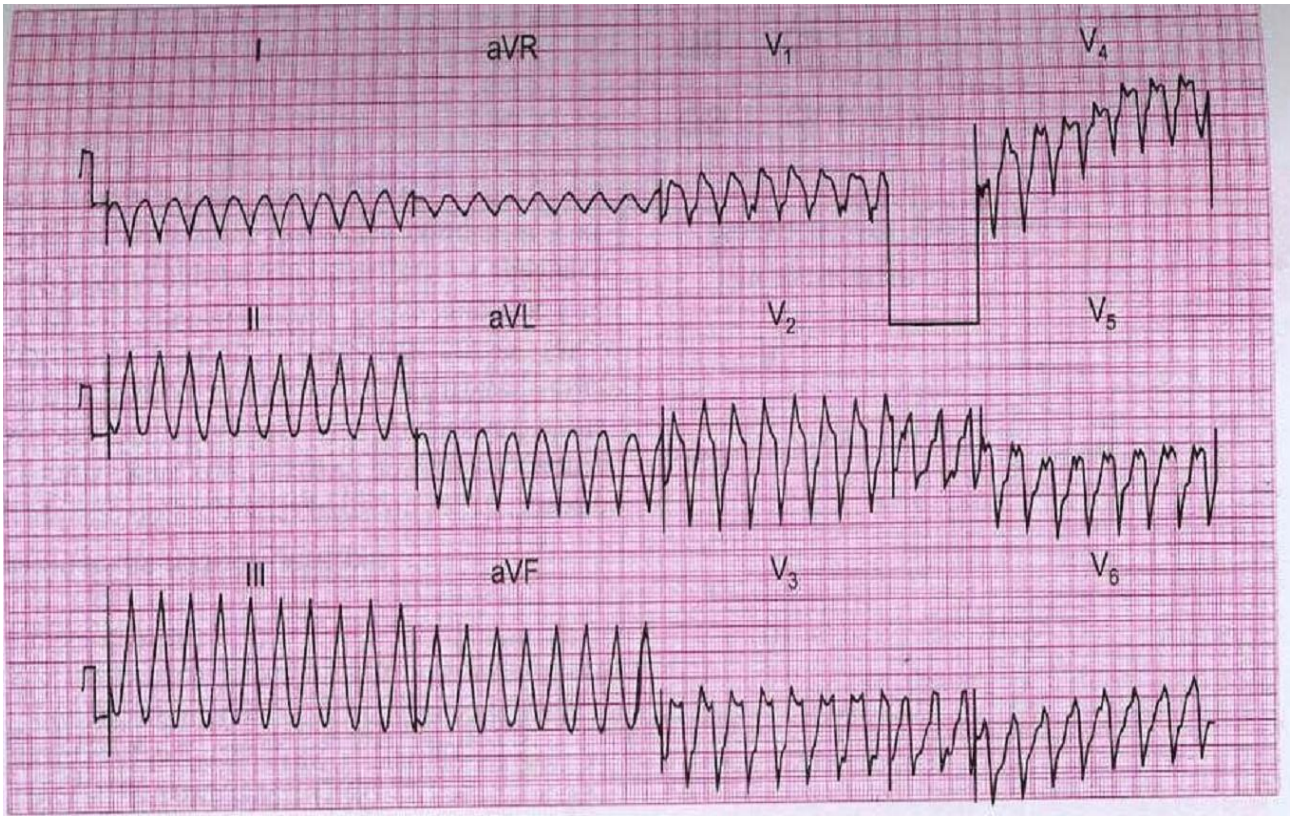
Variant No. 47

Station 3

ECG of a patient with acute anterior myocardial infarction three hours after hospitalization.

Questions:

1. What changes to the ECG?
2. Conclusion.



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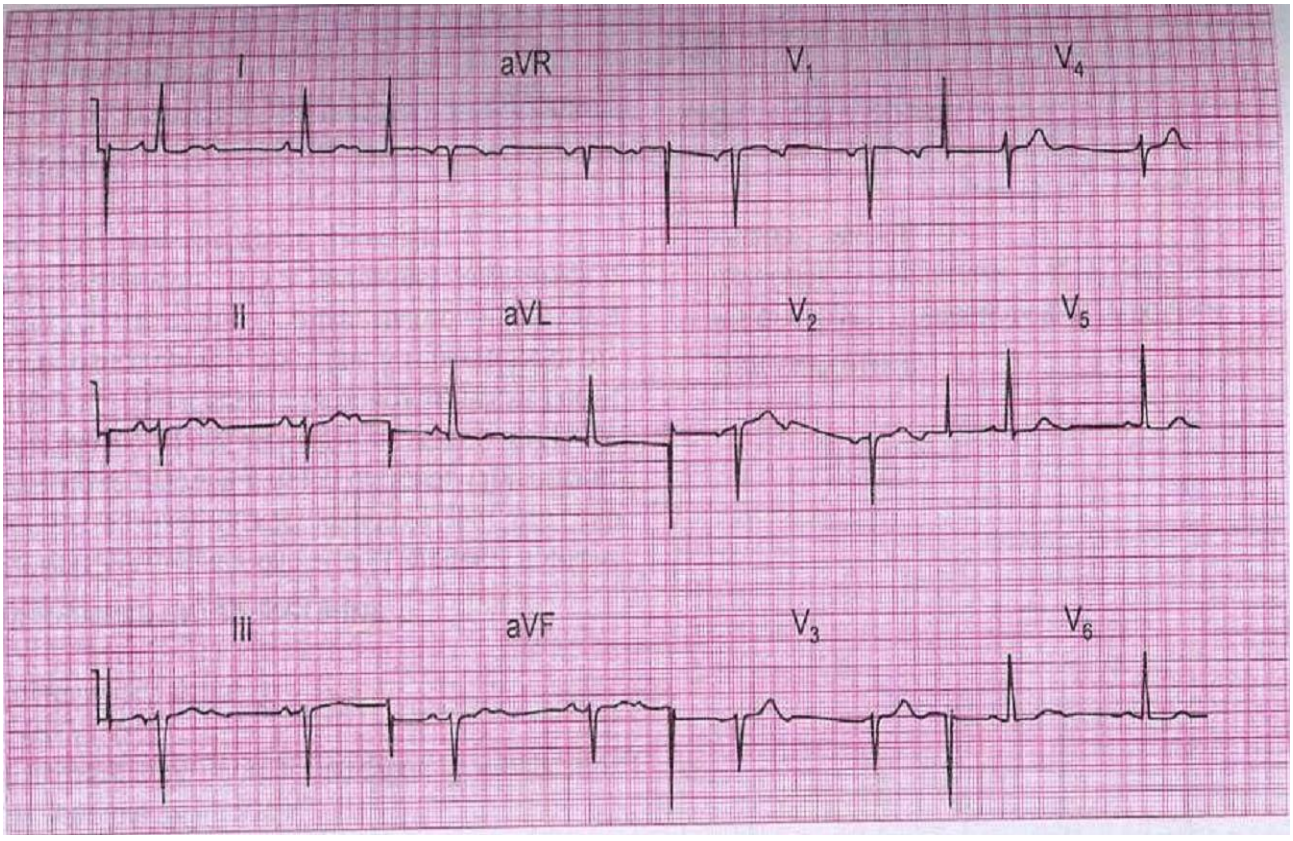
Variant No. 48

Station 3

ECG of a woman 78 years with complaints of shortness of breath.

Questions:

1. What changes to the ECG?
2. Conclusion.



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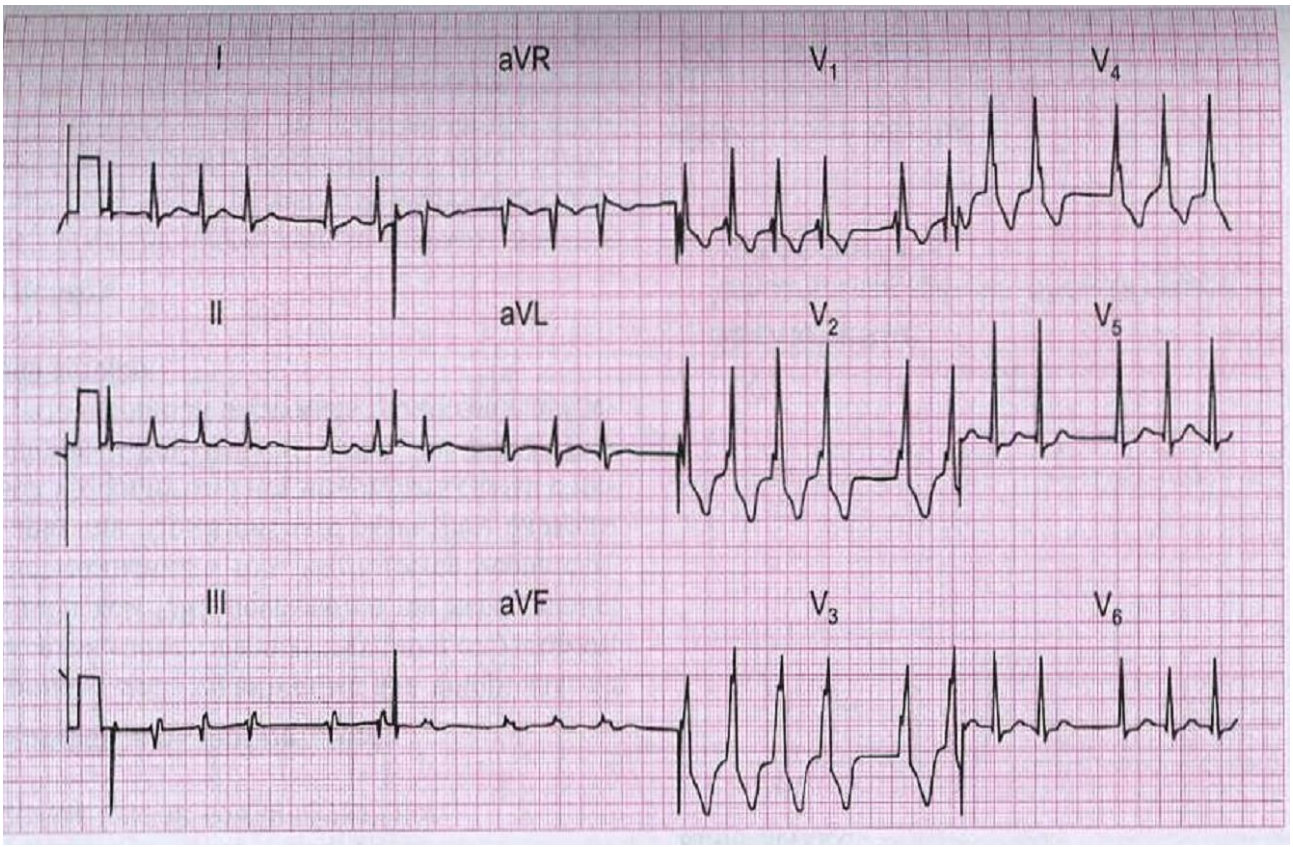
Variant No. 49

Station 3

58-year-old woman operated on for calculus cholecystitis, no ECG changes were detected before surgery. On the 4th day after surgery there was chest pain, cough and shortness of breath.

Questions:

1. What changes to the ECG?
2. Conclusion.



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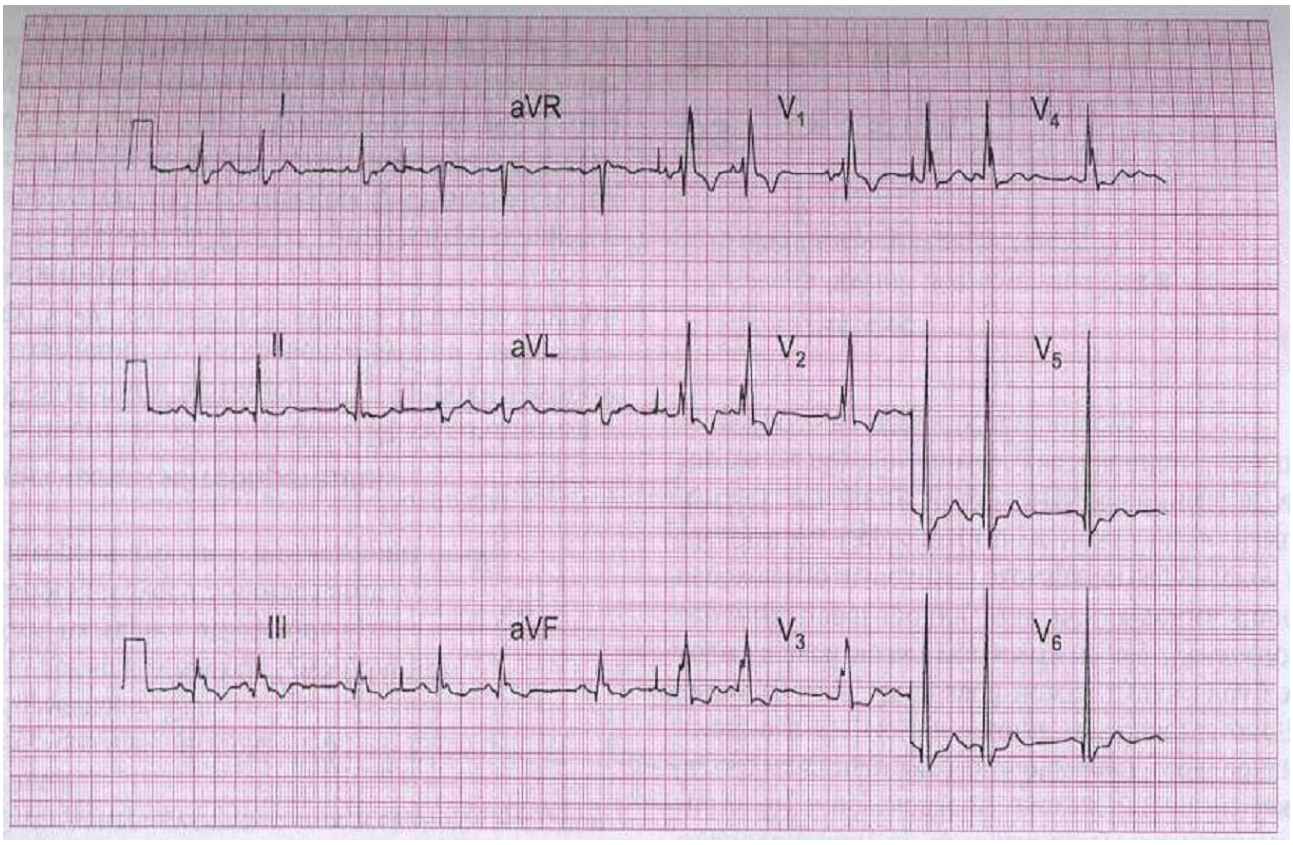
Variant No. 50

Station 3

ECG of a pregnant woman of 24 years with complaints of heart beat.

Questions:

1. What changes to the ECG?
2. Conclusion.



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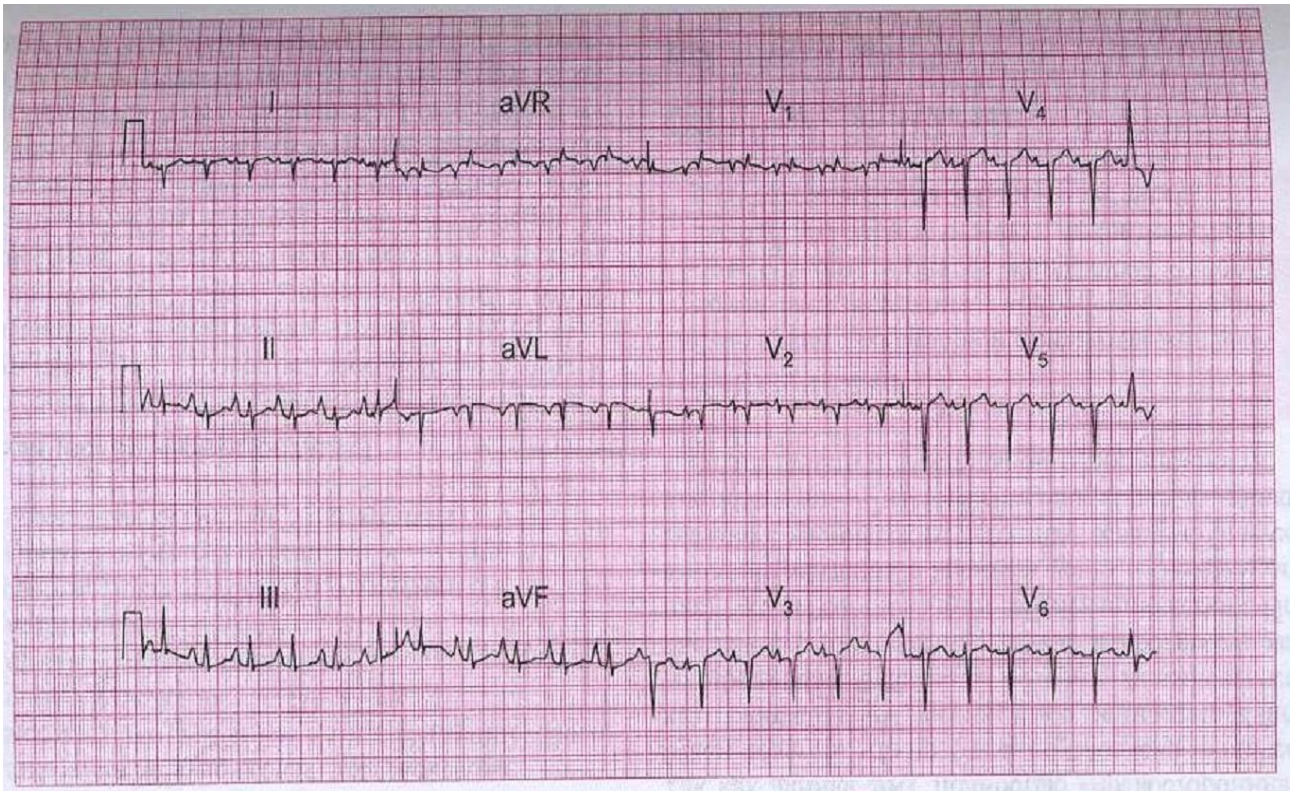
Variant No. 51

Station 3

The ECG of a 65-year-old woman with chronic obstructive pulmonary disease complains of severe shortness of breath, which has gradually increased over the last two years.

Questions:

1. What changes to the ECG?
2. Conclusion.



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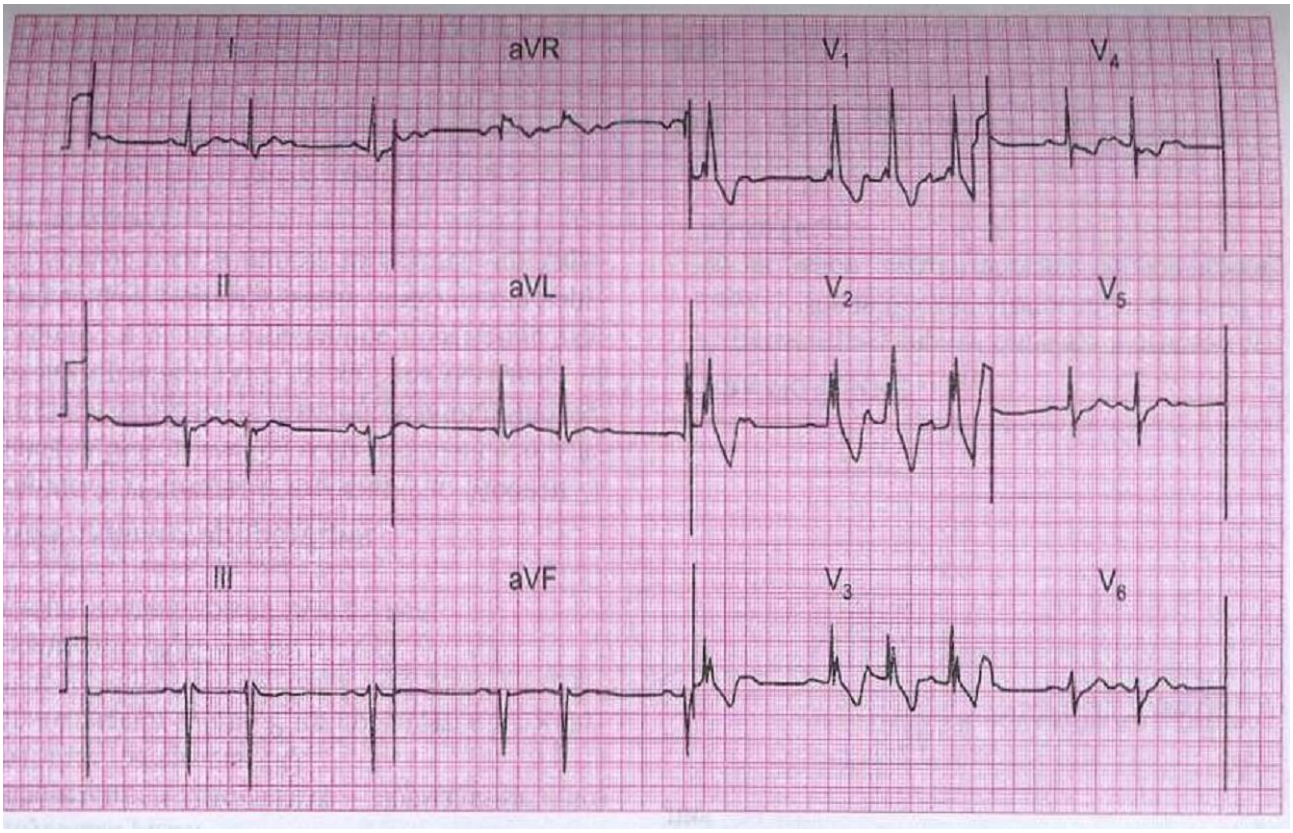
Variant No. 52

Station 3

ECG 70 year old man with arrhythmic pulse and dizziness.

Question:

1. What changes to the ECG?
2. Conclusion.



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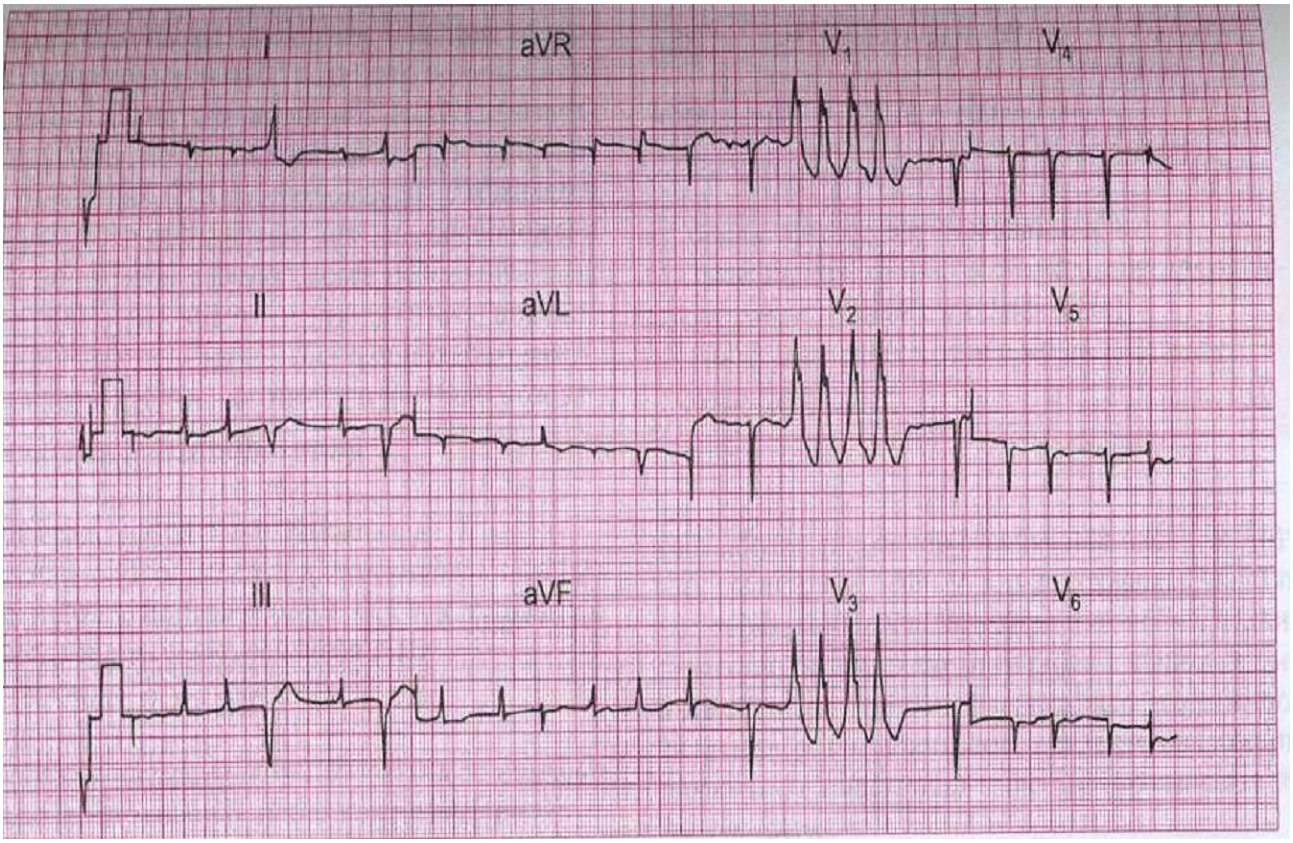
Variant No. 53

Station 3

ECG 65 years old woman with heart beat attack.

Questions:

1. What changes to the ECG?
2. Conclusion.



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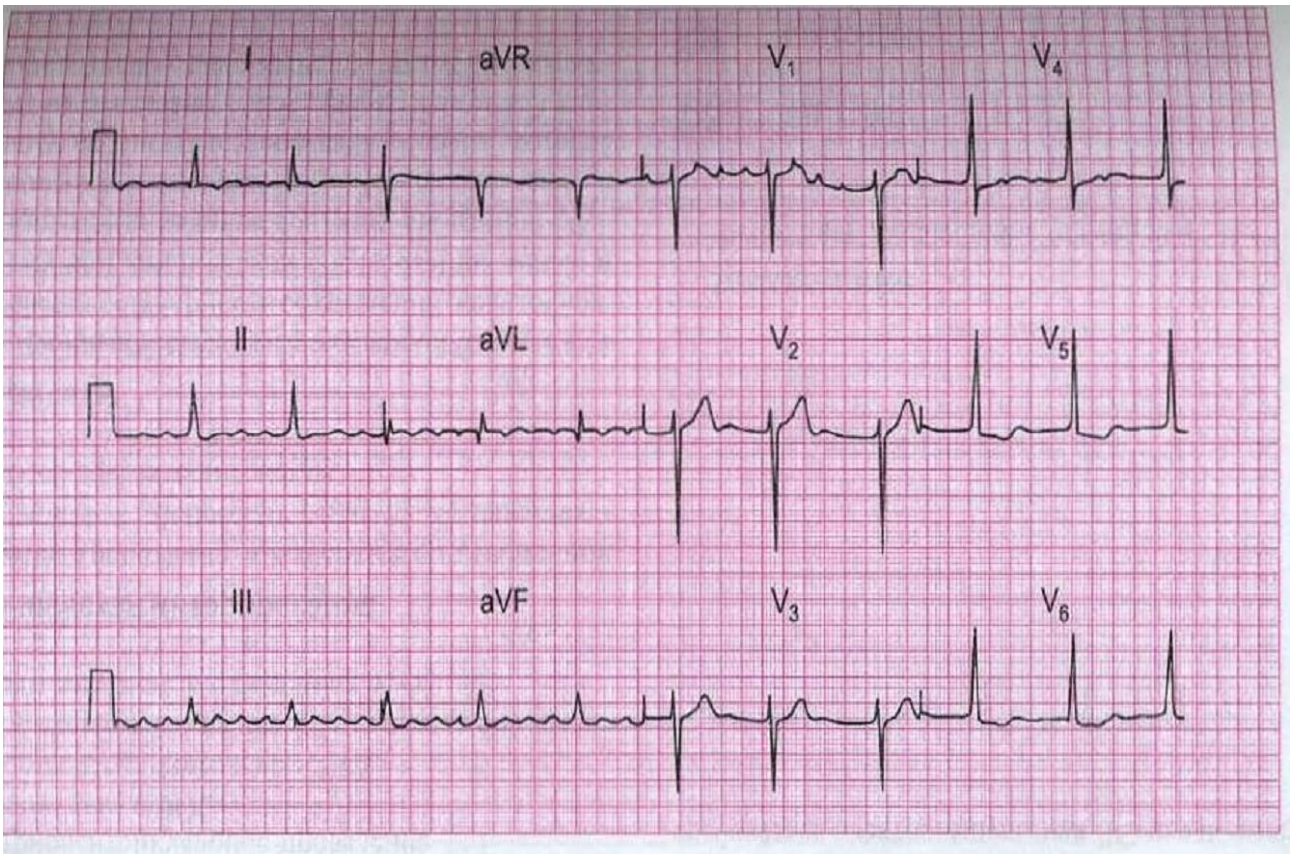
Variant No. 54

Station 3

ECG 60 year old man complaining of shortness of breath.

Questions:

1. What changes to the ECG?
2. Conclusion.



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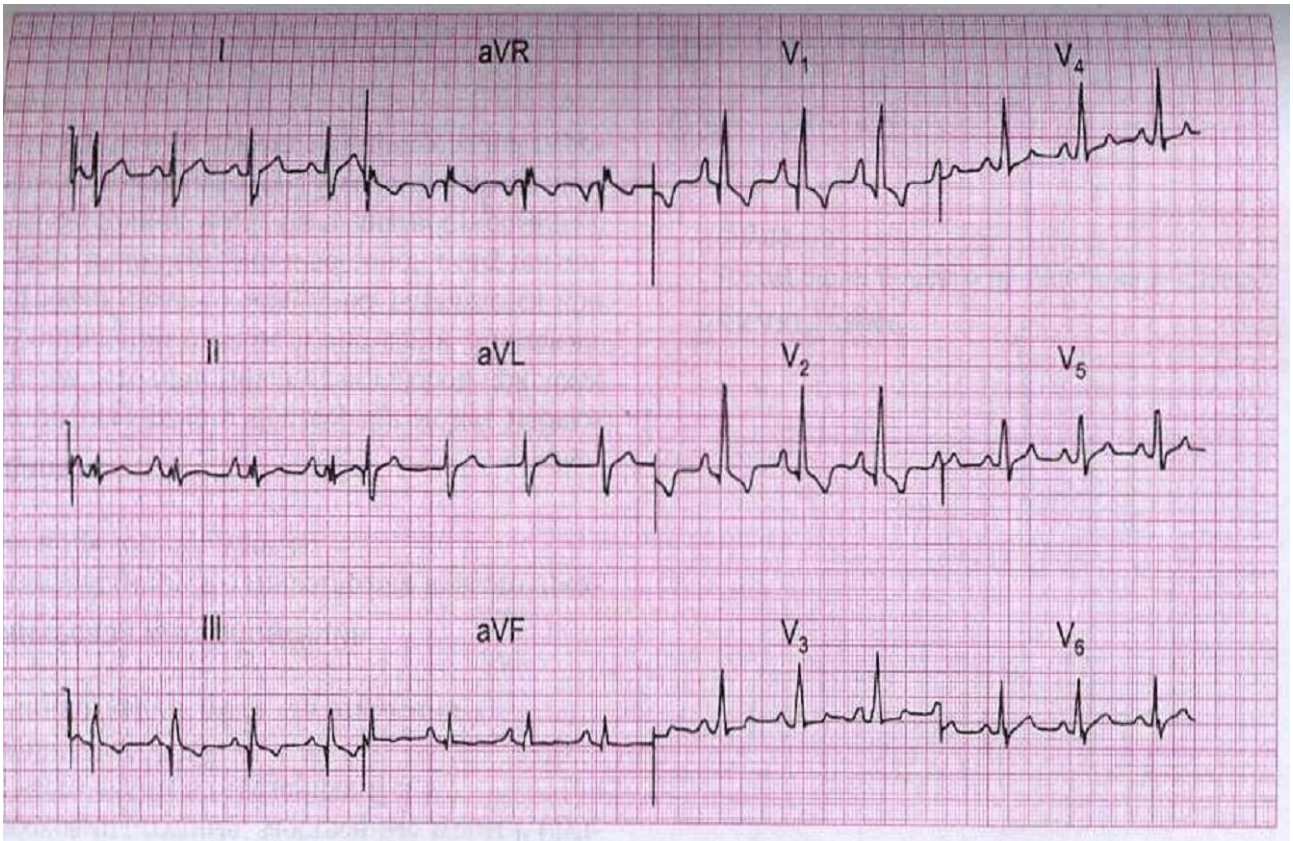
Variant No. 55

Station 3

ECG of a 17 years old young man with shortness of breath, swelling of the shins, enlargement of the liver. He has a heart murmur since childhood.

Questions:

1. What changes to the ECG?
2. Conclusion.



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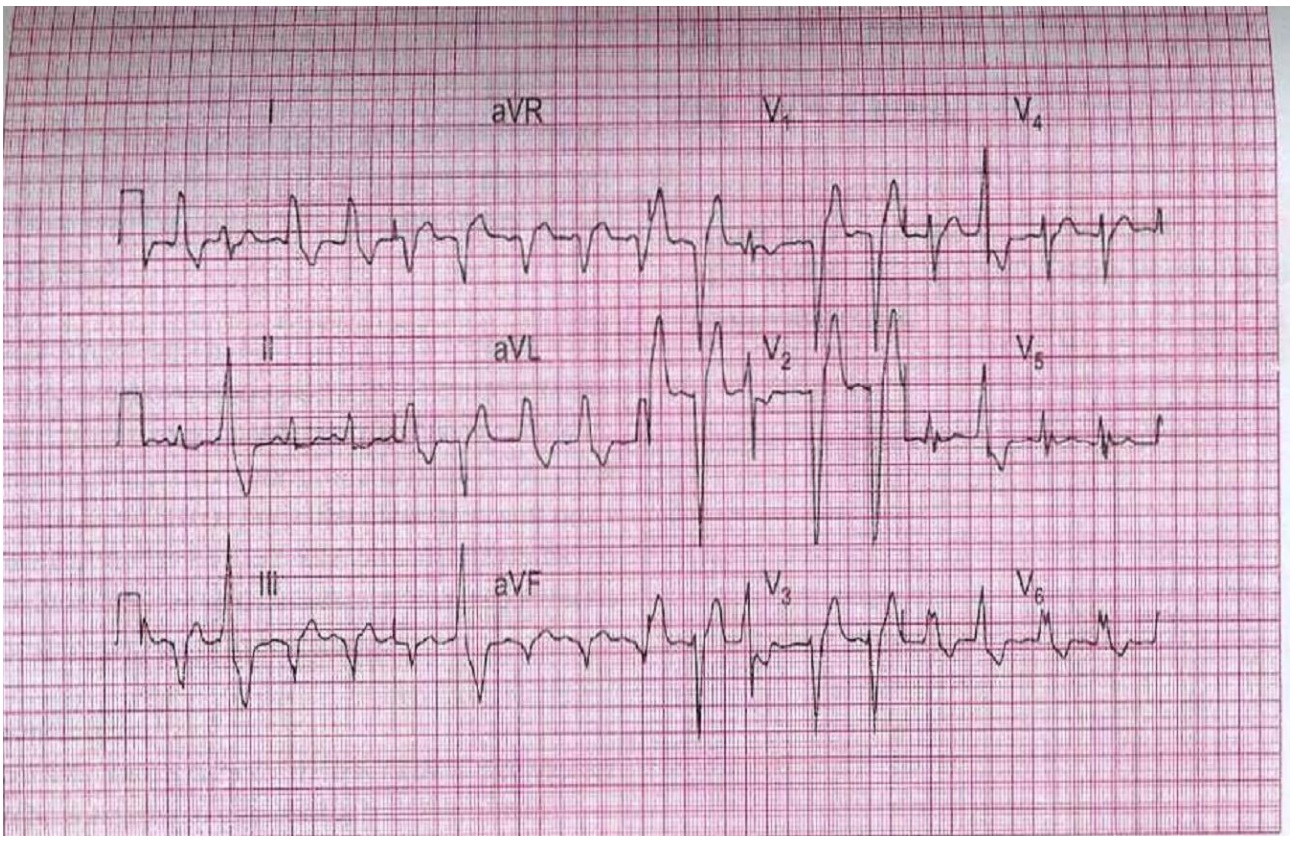
Variant No. 56

Station 3

ECG of a 55-year-old woman who was hospitalized 2 hours after chest pain.

Questions:

1. What changes to the ECG?
2. Conclusion.



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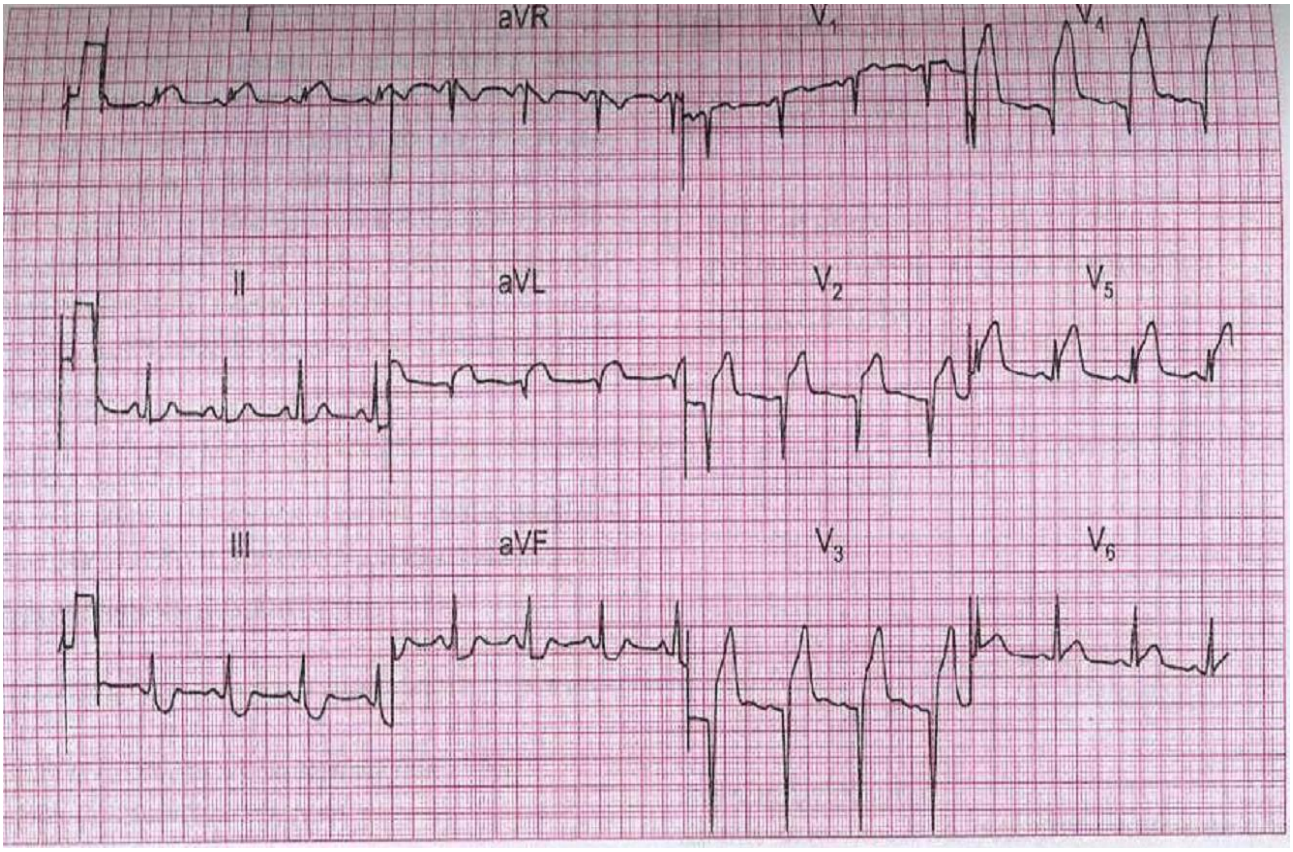
Variant No. 57

Station 3

ECG of a 47-year-old man complaining of severe chest pain.

Questions:

1. What changes to the ECG?
2. Conclusion.



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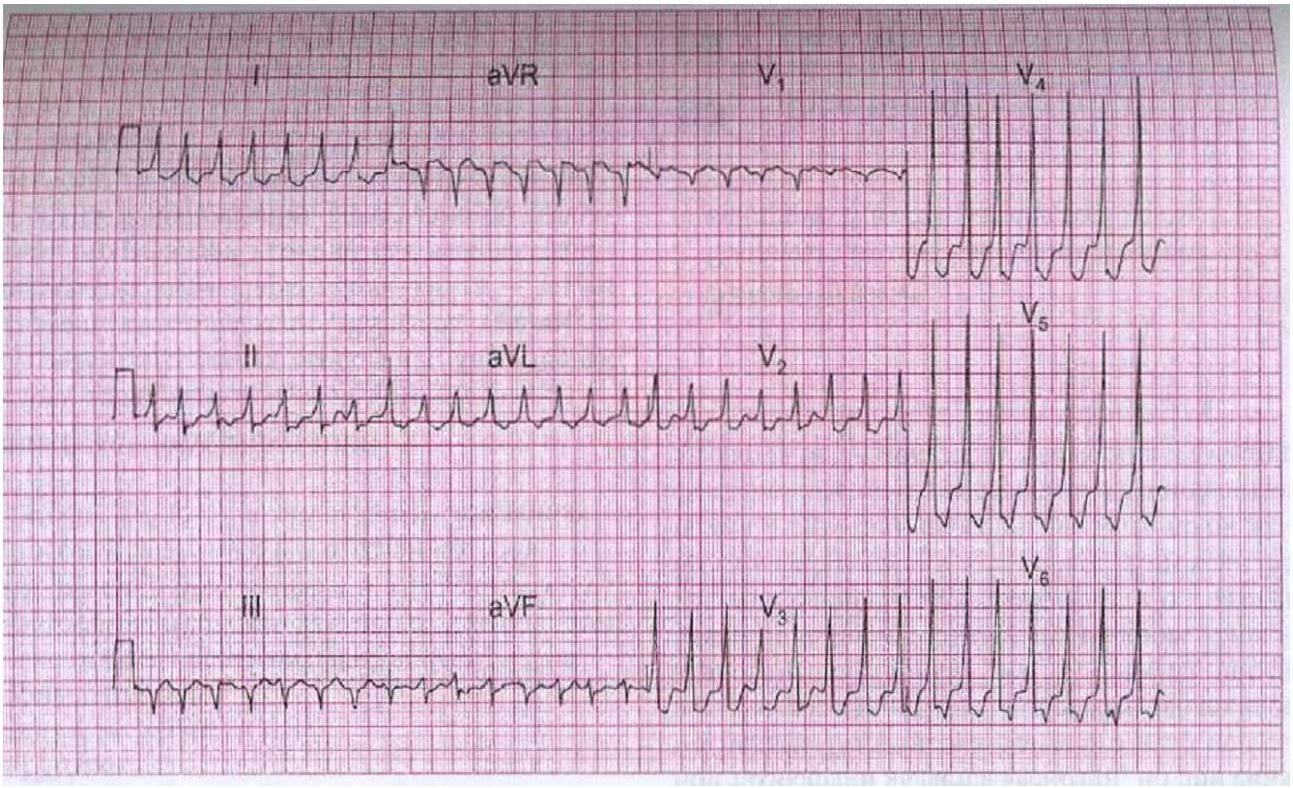
Variant No. 58

Station 3

36 year old man with a heart beet attack.

Questions:

1. What changes to the ECG?
2. Conclusion.



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EXAMINATION TASK

of Objective Structured Clinical Examination (OSCE) of State Final Certification
in Education and Qualification Level "Specialist"
in the Specialty 7.1201000 "General Medicine"

Discipline "Internal, Occupational and Infectious Diseases"

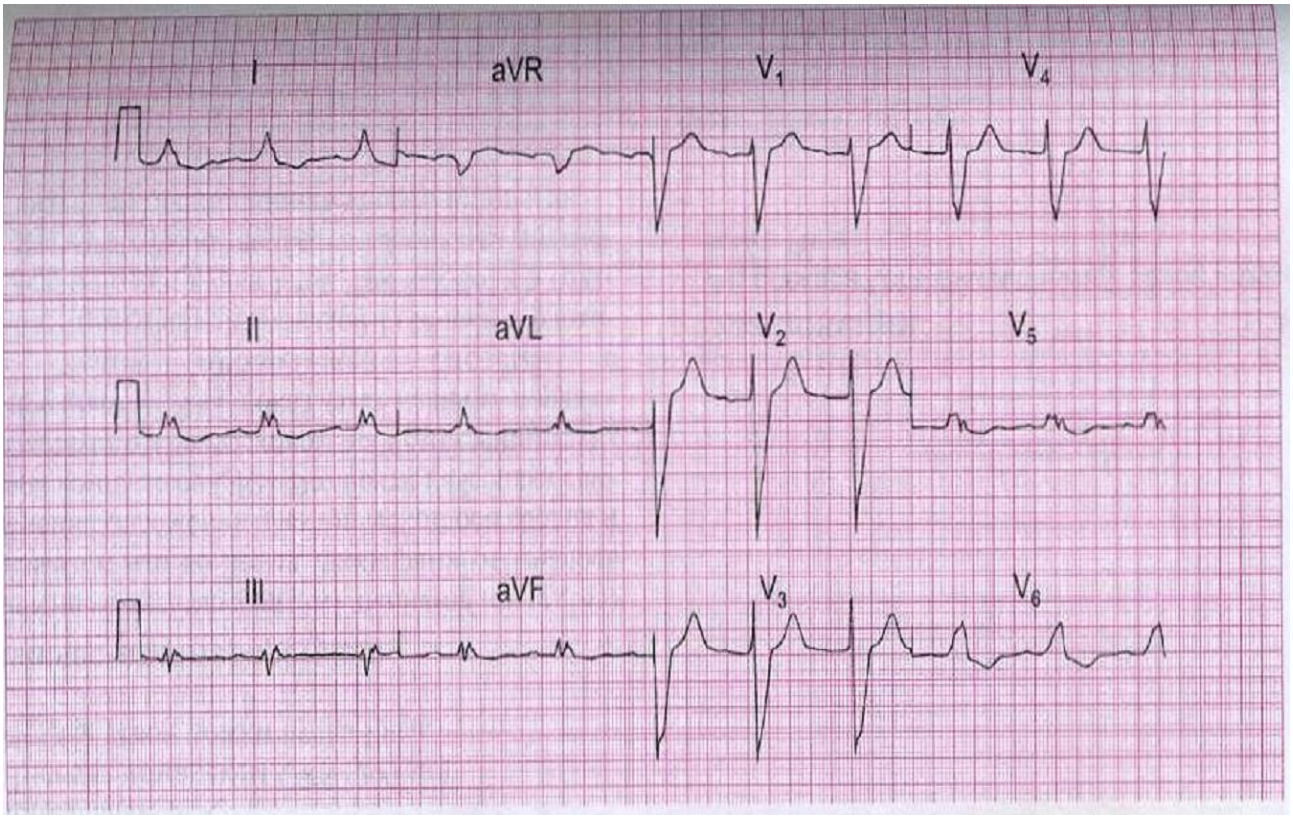
Variant No. 59

Station 3

ECG of a 64 year old patient with ischemic heart disease.

Questions:

1. What changes to the ECG?
2. Conclusion.



Head of Department
of Internal Medicine
with the Center of respiratory medicine _____ Lyudmyla PRYSTUPA

AGREED BY:
Director of Medical Institute _____ Andriy LOBODA

SUMY STATE UNIVERSITY

APPROVED

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EXAMINATION TASK

of Objective Structured Clinical Examination (OSCE) of State Final Certification
in Education and Qualification Level "Specialist"
in the Specialty 7.1201000 "General Medicine"

Discipline "Internal, Occupational and Infectious Diseases"

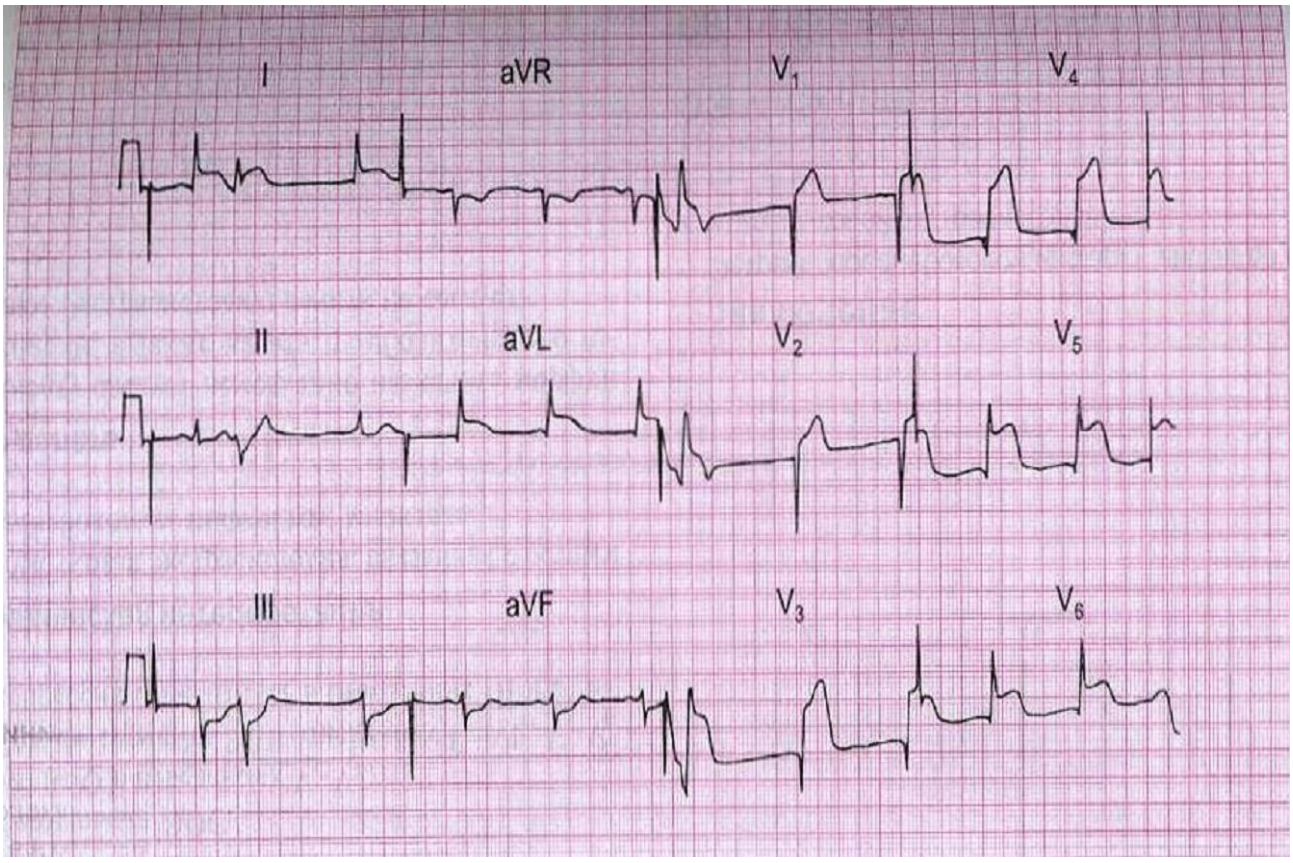
Variant No. 60

Station 3

ECG of a 52 years old man with chest pain for 1 hour.

Questions:

1. What changes to the ECG?
2. Conclusion.



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