

**14.00.36 -
14.00.06 -**

(PhD)

(PhD)

(PhD)

Contents of dissertation abstract of doctor of philosophy (PhD) on medical sciences

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**14.00.36 -
14.00.06 –**

(PhD)

(PhD)

2017.1. PhD/Tib146

(www.immunology.uz) «ZiyoNet» () (www.ziynet.uz)

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DSc.27.06.2017.Tib.50.01

2017 « » , 74. / (99871) 233-08-55, -mail: immunologiya@qip.ru).

(: 100060, , 74. / (99871) 233-08-55). (: 100060, ,

(2017 « » 2017 « »)).

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((PhD))

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, 2012 17,5 -
31%

, TyG AIP

11-12%

30-40%

. 2017-2021

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1652-

2011 28

- 2017 7

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-4947-

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V. « »

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(Libby . 2002, . . 2005, . . 2007, . . 2007, Ridker P.M. 2003, Robbins C.S. 2013, Bornfeldt K.E. 2014, . . 2010, . . 2011, . . 2016).

(. . 2010,

. . 2012, Libby P. 2011, Wang Z. 2011).

PHS (Physician’s Health Study), AMORIS (Apolipoprotein MORTality RiSk study), WHS (Women’s Health Study), MONICA (Monitoring of Trends and Determinants of Cardiovascular Disease), ARIC (Atherosclerosis Risk in Communities Study) 20

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(Devaraj S. 2009, Genest J. 2010, Holme I. 2010).

JUPITER

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() (Ridker P.M. 2012).

(4S; WOSCOPS; AF/Tex; CAPS;

LIPID; CARE; HPS)

20-25% ,

25-40%

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2009).

50%

(. . . 2005, . . . 2007,
. . . 2010, Zhang H.F. 2010, ki A. 2012, . . . 2015,
. . . 2015).

1990),

1997),

(. . . 1987, . . . 1992)

» (2012-2015) - 10- 010 «

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8 - /40-

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24

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25

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8

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112

(M, m, σ)

p<0,05

« »

11,8±1,6

(<0,001).

33,6±0,8

(

18,6±0,8

).

30,4±0,7

(<0,001).

20,4±0,4

5%(=0,007)

144,2±2,1

)

- 137,4±2,1

(<0,05).

()

, 88,1±1,1

85,1±1,1

87,5%

(), 43,7%

, 32,6%

23,7%

, 12,5 %

, 10%

, 8,8%

8,8%

: 89%

(),

48%

12% , ST

34,7%

1,8% , 13%

20,5%

16%

) () ,

()

()

6% . (p<0,001).

9% (p<0,05).

() 12,0±0,2

(11,2±0,2) 7% (p<0,01).

5% (p<0,01).

()

21,3% ,

25%

(<0,001).

()

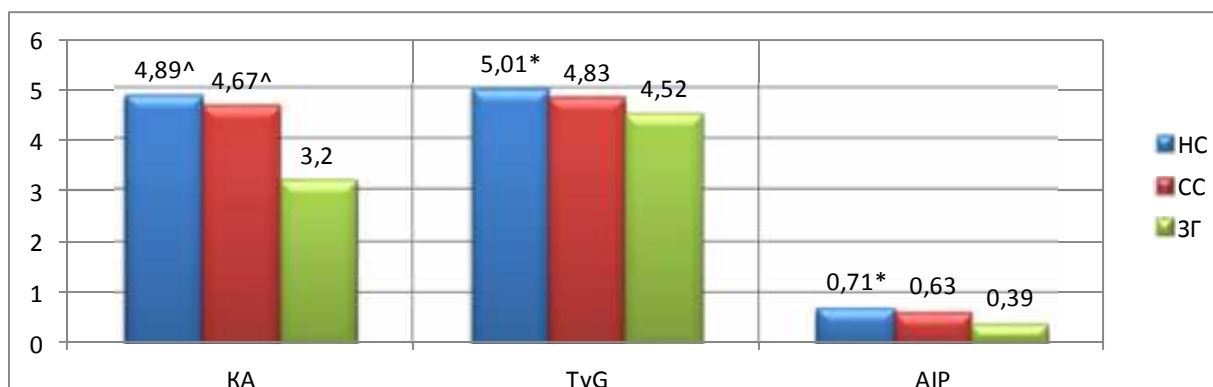
16% (<0,05).

40% ,

42%

(<0,001) 17,6% (<0,01).

21% (<0,01)



1-

, TyG AIP

: *- <0,01-
[^]- <0,001-

1,3 (<0,05), 1,4 (<0,001), 2 (<0,001),
 1,5 (<0,001). (1) TyG

(<0,001) AIP (<0,05).

«

»

()

2

(p<0,001) 1,1 (1-) 1,8
 (p<0,001), 1,4 2
 (p<0,001). (p<0,001).
 1,2 (p<0,001).

1-
 (±m)

	(n=138)	(n=80)	(n=41)
, /	5,7±0,3***^^^	4,5±0,3^^^	0,9±0,03
(10 ⁹ /)	6,2±0,1^^^	6,1±0,4^	5,2±1,1
	32,9±0,7	27,5±0,8	33,0±0,91
, /	11,0±0,8***^^^	6,5±0,3^	5,4±0,3
, /	3,4±0,1***^^^	3,0±0,2^^	2,5±0,1
-6, /	29,8±5,5***^^^	14,2±1,72^^^	3,4±0,3
- , /	23,5±4,8***^^^	12,7±2,1^^^	4,6±0,8
-18, /	168,3±10,6***^^^	134,4±8,9^	106,3±11,0

: *p<0,05, **p<0,01, ***p<0,001 –
 ^p<0,05, ^^p<0,01, ^^^p<0,001 –

(p<0,001) 4 (p<0,001). 5
 21% (1,3) (p<0,01),
 14,2±1,7 12,7±2,1 / 71,4% 133,4±8,81,
 -18, 76,2% - -6, 82,9% -
 168,3±10,6, 29,8±5,5 23,5±4,8 / -18 79,4%,
 -6 - 85,3% -6
 4,7 (p<0,001), 10
 (p<0,001). 2 (p<0,01). -6
 - , 5
 (p<0,001). - (p<0,001), 3
 - 2 (p<0,05). -
 -18 (p<0,001), 1,3 1,6
 (p<0,05). -18 1,3
 (p<0,05) -1 -
 -1
 4,4 (34,04±9,5 /),
 7 (54,87±10,32 /),
 (7,78±1,05), (p<0,05)
 , 3 (32,76±5,47 /),
 (10,48±3,75 /) 3,7 (39,07±6,27
 /),
 -1
 (60,53±1,04 /) (60,98±0,62 /)
 1,4 (44,70±8,59 /),

1,2 (p<0,05), 1,6 (p<0,05), -6 2 (p<0,05)
 - 2 (p<0,05)
 2

1,3 (p<0,05), 1,1 (p<0,05), 1,9 (p<0,001),
 (p<0,05) -6 2,5 (p<0,05), - 2,4 (p<0,05) 1,6 (p<0,05)

«

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-a

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- (-308G>A, rs1800629)

rs1800629 SS

II-III

(2<0.99,

P>0.32).

. rs1800629

(OR)

18,47 (P<0.004)

, /G

(OR=14,75, <0,02)

. A/A

(OR=3.06,

<0,02).

, /G

A/A

(

)

,

-

(2-).

,

. A/G

A/A

A

OR

8.78

(<0.02)

OR=6.82

OR=3.12

. (<0.08).

A/A+A/G

OR=8.14

(P<0.03).

(3-

)

(<0,001),

,

(<0,001),

(<0,001) (<0,001) NS
 A/G+A/A
 G/G
 A/G+A/A 18%
 (<0,05) AIP 11% (<0,05)

2- (-308G>A, rs1800629)

/			2	p	OR	
	n = 50	n = 51			.	95% CI
A	0.080	0.010	5.84	0.02	8.78	1.08 – 71.58
G	0.920	0.990			0.11	0.01 – 0.93
A/A	0.020	0.000	5.09	0.08	3.12	0.12 – 78.46
A/G	0.120	0.020			6.82	0.79 – 58.85
G/G	0.860	0.980			0.12	0.01 – 1.04

3- (-308G>A, RS 1800629) (M±m, n(%))

	G/G		G/G	(n=41)
	(n=43)	A/G+A/A (n=7)		
, /	228,1±5,6 ^{^^^}	245,5±14,6 ^{^^^}	215,7±7,8 ^{^^^}	158,3±3,34
, /	226,7±9,6 ^{*^^^}	237,8±19,7 ^{^^^}	196,9±11,5 ^{^^^}	95,9±5,4
, /	144,2±4,8 ^{^^^}	162,6±11,9 ^{^^}	133,2±6,8 ^{^^^}	101,1±2,77
, /	38,5±0,9	35,3±1,5 [^]	43,1±1,5 ^{*^}	39,1±0,91
, /	46,9±2,7 ^{^^^}	48,8±8,9 ^{^^}	40,6±2,7 ^{^^^}	19,2±1,07
, . .	4,88±0,17 ^{*^^^}	5,95±0,5 ^{^^^A}	4,11±0,17 ^{^^^}	3,2±0,09
, /	7,05±0,57 ^{*^^^}	7,6±1,57	5,09±0,43	4,8±0,5
AIP,	0,76±0,02 ^{**}	0,85±0,03	0,64±0,03	0,39±0,77
TyG,	5,0±0,04 ^{**}	5,1±0,09	4,80±0,05	4,52±1,95

[^]P<0,05, ^{^^}P<0,01, ^{^^^}P<0,001-

*P<0,05, **P<0,01, ***P<0,001-

NS SS ; P<0,05-

G/G

;

G/G

NS

TNF- (-

G/G

SS

1,2

(<0,05),

1,2

(<0,01),

1,4

(<0,01),

G/G

-

AIP

20% (<0,01)

TyG 6 %

(<0,001)

A/G+A/A

G/G 18%
 (<0,05) AIP 11% (<0,05).
 (-308G>A, rs 1800629)
 . (4.-). (- , -6, -18,
 , SS
 (<0,001). NS A/G+A/A
 ,
 G/G 2,8 (<0,001)
 G/A 13
 (<0,01). A/G+A/A
 G/G - 4,5
 (<0,01)
 4-
 (-308G>A, RS 1800629)

(M±m)

	G/G, (n=43)	A/G+A/A (n=7)	G/G (n=51)	(n=41)
- , /	13,4±1,2 ^{^^^}	60,6±17,2 ^{AA^^}	12,5±2,1 ^{^^^}	4,58±0,81
-6, /	17,9±2,3 ^{^^^}	57,3±14,8 ^{A^^^}	14,5±1,8 ^{^^^}	3,42±0,28
-18, /	155,0±10,65 ^{^^}	197,7±23,9 ^{^^}	133,69±9,14	106,3±11
, /	6,65±0,8 ^{*^^^}	7,25±1,69 ^{^^^}	4,48±0,31 ^{^^^}	0,9±0,03
, /	2,98±0,1 ^{^^^}	3,62±0,25 ^{A^^^}	3,15±0,18 ^{^^}	2,5±0,09
10 ² /1	6,47±0,26 [*]	6,30±0,38	5,72±0,16	5,2±1,1
, %	31,9±0,93 [*]	29,3±1,55	28,41±1,15	33,0±0,91
, /	10,2±1,17 [*]	11,1±4,14	6,37±0,45	6,5±1,9

[^]P<0,05, ^{^^}P<0,01, ^{^^^}P<0,001-

^{*}P<0,05, ^{**}P<0,01, ^{***}P<0,001-

NS SS G/G TNF-
 (-308 G/A); ^AP<0,05, ^{AA}P<0,01, ^{AAA}P<0,001-
 A/G+A/A TNF- (- 308 G/A).

G/G
 NS
 NS A/G+A/A
 G/G
 (0,92±0,04) 16% (1,07±0,06, <0,05) -6

G/G
 5,2 (<0,001), G/A+A/A

16,8 (<0,001), G/G 4,2
 (<0,001). -6
 G/A+A/A G/G -
 (-308G>A) 3,2 (<0,05)

G/G
 1,5 (<0,05), 1,1 (<0,05),
 1,1 (<0,05) 1,6 (<0,05)
 G/G 1,2 (<0,05)

: 1 / - (3
 ,) , 1 3 / - 3
 / - .

1 /
 2,3 (p<0,01) 1,4 .
 (p<0,05).

1,4 (p<0,05) 2 (p<0,01), -6 2,7 (p<0,05), -
 -18 1,4 (p<0,01),

5-

(M±SD)

	1 / (n=20) (n=17)	1-3 / (n=30) (n=30)	3 / (n=88) (n=33)	(n=41)
, /	11,6±2,1 ^{^^**} 5,1±0,4	12,3±2,0 ^{^^^} 6,8±0,3 ^{^^**}	10,5±1,0 ^{^^^**} 7,1±0,7 [^]	5,4±0,3
, /	1,0±0,1* 0,74±0,1	2,4±0,1 ^{^^^} 2,36±0,2 ^{^^^}	7,23±0,4 ^{^^^**} 5,41±0,2 ^{^^^}	0,9±0,03
, /	2,9±0,2 2,66±0,5	2,8±0,1 [^] 2,88±0,3	3,2±0,1 ^{^^^} 3,29±0,2 ^{^^^}	2,5±0,1
-6, /	9,2±1,0 ^{^^^} 6,2±3,9	19,7±5,2 ^{^^} 14,8±2,9 ^{^^^}	33,4±7,3 ^{^^^**} 12,1±1,2 ^{^^^}	3,4±0,3
- , /	6,4±0,4 [^] 6,2±1,7	18,0±4,8 8,88±0,8 ^{^^^}	26,5±6,4 ^{^^^**} 13,1±2,6 ^{^^}	4,6±0,8
-18, /	153,6±17,0 [^] 127,5±6,5	167,8±30,6 152,3±5,4 ^{^^^}	174,6±10,8 ^{^^^*} 127,4±10,1	106,3±11,0

[^] <0,05, ^{^^} <0,01, ^{^^^} <0,001 -

* <0,05, ** <0,01, *** <0,001 -

1-3 / 2

(p<0,01) .

(p<0,001), 1,1 2,3 (p<0,001), 2,7

(p<0,01), 2,6 (p<0,001), -6 4,4 (p<0,05), -6 5,8

(p<0,001) -18 1,4 (p<0,001), -6 4,4 (p<0,001), 1,3 (p<0,001), - 2

(p<0,001).

3 /

1,5 (p<0,01), 1,3 (p<0,001), -6 2,8

(p<0,01), - 2 (p<0,01), -18 1,4 (p<0,01), ,

1,1 (p<0,05) 1,3

(p<0,001).

(p<0,001).

« () »

3 (I- <0,05, II- <0,01, III- <0,001)

<0,01, III- <0,001) (I- <0,01, II- <0,01, III- <0,001)

(<0,05).

(<0,05)

(<0,05).

()

(<0,001),

. - II (<0,05), I III

(<0,05).

, -6 (<0,05)
 - (<0,05)
 . -18
 ,
 (=0,2).
 (45,5%) (<0,001), - 1,2 (15%) (<0,01) -6 1,8
 -18
 .
 (65%) (<0,05), - 3 (65,9%) (<0,05) -6 2,8
 -18 8%

6-
 (±m)
(3)

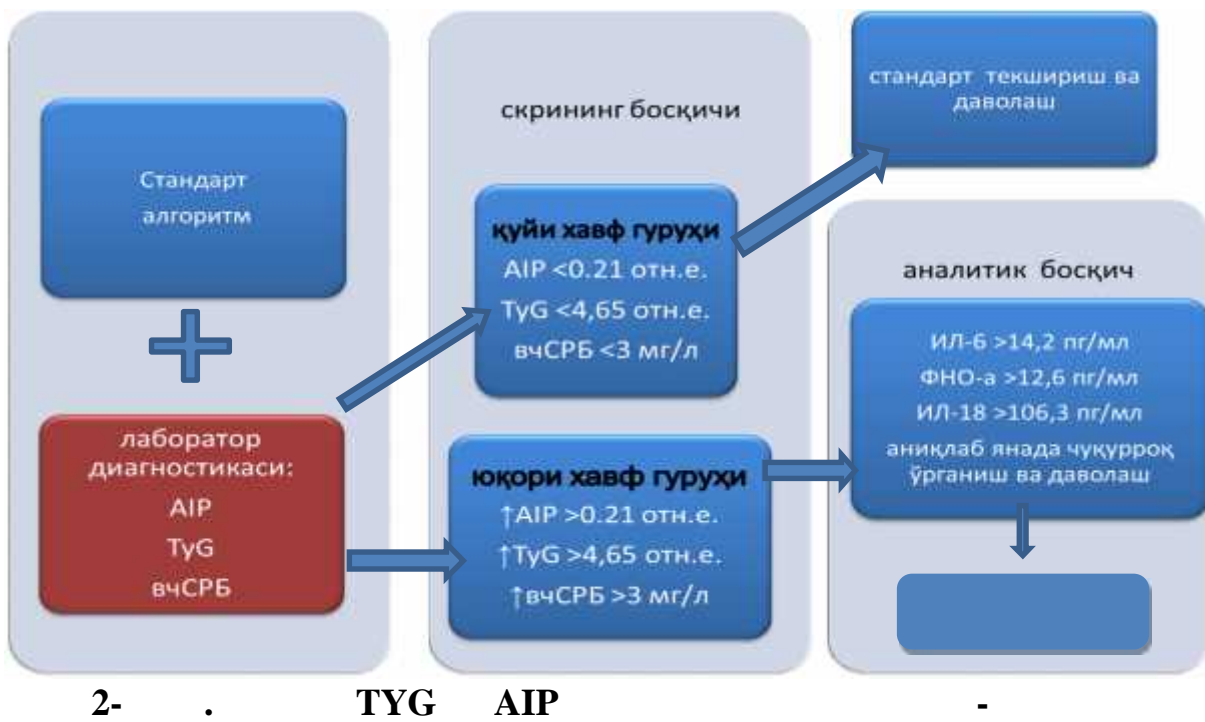
	I (n=37)	II (n=32)	III (n=69)
	6,4±0,5	5,9±0,6	4,9±0,6
, /	2,8±0,4 ^{^^^}	2,6±0,3 ^{^^^}	2,7±0,4 ^{^^^}
(10 ⁹ /)	6,0±0,2	6,2±0,2	6,3±0,2
	5,9±0,4	5,9±0,5	5,7±0,3 [^]
, /	8,7±1,4	11,4±1,7	12,1±1,3
	7,6±1,9	9,0±2,1	10,1±2,0
, /	3,0±0,2	3,1±0,1	2,9±0,1
	2,9±0,5	2,7±0,1 [^]	2,4±0,01 ^{^^^}
-6, /	14,3±3,0	29,2±9,2	42,2±11,2
	7,8±0,5 ^{^^^}	9,9±1,5 [^]	14,9±3,0 [^]
- , /	11,0±2,9	16,3±3,7	33,4±10,5
	9,3±1,1 ^{^^}	8,6±0,7 [^]	11,4±2,7 [^]
-18, /	180,5±15,7	161,1±14,8	168,8±17,1
	179,1±21,7	180,9±23,3	190,6±44,1

: [^] <0,05, ^{^^} <0,01, ^{^^^} <0,001 -
 ;(-)

, : -6
 3 (66%) (<0,05), - 2 (47%)
 (<0,05), -18 22% .

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 .
 2 :
 <5 / 5 /
 ,
 5 /
 , - , III >100 / ,
 , /
 .
 , 2- 3- > 5 / ,
 ,
 .
 , / III (4-) , II
 / I ,
 (4- I) .
 I 69,5% 59,0% , II 76,6% , III
 5 / (28,1%, P<0,05) 2 (59,0%)
 , > 5 / .
 , ,
 (, ,)

(2-), TyG > 4,65 (OR = 4,44, 95% CI = 2,45-8,05), AIP OR = 31,6, 95% CI = 9,26-107,8), >3 / (OR = 2,50, 95% CI = 1,43-4,4), -18 OR = 4,14, 95% CI = 2,16-7,94), -6 > 14,2 / (OR = 1,30, 95% CI = 1,07-1,58) - > 12,6 / (OR = 1,20, 95% CI = 1,00-1,47). AIP TYG



: AIP- (), TyG – , reaktiv protein, - , - , -

1.

21% , 11,8% ,
 -6 52,3% , -
 45,9% , -18 20% . -1 -

2.

2 , ; ,
 , TyG AIP ; ,

3.

14% , 35,9% , -6 50,8% , -
 47,4% . 2
 10,8% , 37,5% -6 25,5% , - 57,9%
 56,7%

4.

- (-308G>A) -
 , /G A/A .
 /G+ /
 , - 77,9% , -6 68,8% ,
 17,7% ,
 18% AIP 10,6%

5.

56% , -6 66% TFN- 47,2% .

6.

, AIP TyG

14.00.36 –
14.00.06 –

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 “ZiyoNet” (www.ziynet.uz).

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 , 74. ./ : (99871) 233-08-55, -mail: immunologiya@qip.ru.)

(: 100060, . , . . .
 , 74. ./ : (99871) 233-08-55)

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((PhD))

17,5

2012

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-

31%

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, TyG AIP

11-12%.

30-40%

2017-2021

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28

2011

- 1652 «

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7 2017 -4947 «
»,

- , .

V. « »

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- ,

(Libby . 2002, . . 2005, . . 2007, . . 2007,
Ridker P.M. 2009, Robbins C.S. 2013, Bornfeldt K.E. 2014, . . 2010,
. . 2011, . . 2016).

- , ,
,

((. . 2010, . .
2012, Libby P. 2011, Wang J. 2011).

20

, PHS
(Physician's Health Study), WHS (Women's Health Study), MONICA
(Monitoring of Trends and Determinants of Cardiovascular Disease), ARIC
(Atherosclerosis Risk in Communities Study), AMORIS (Apolipoprotein
Mortality RISK study)

(Devaraj S. 2009, Genest
JUPITER

J. 2010, Holme I. 2010).

(,)
. (Ridker P.M. 2012).

(4S; WOSCOPS; AF/Tex; CAPS; LIPID; CARE; HPS)

20-25% ,
- 25-40% (. . 2009).

50%

. (. . 2005, . . 2007,

. . 2010, Zhang H.F. 2010, ki A. 2012, . . 2015, . .
2015)

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() (. . , . . 1990),
(. . 1998, . 1997),
(. . 1987,
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» (2015-2017).

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G>A)

2 ;

- (-308

AIP TyG

(III), 20 ,
 III), II-III (3
).
 3 ;
 ;
 III-IV (NYHA); <60
 ;
 ;
 ; 1 2 ;
 ; ,
 .
 2,7 ($\chi^2=3,9$; P=0,048), 3
 2 ($\chi^2=3,8$; P=0,05), 4,2 ($\chi^2=7,0$;
 P=0,008), (<0,05),
 (<0,01).
 « » (II III) « »
 (I) : I-37 ,
 60-90 / ; II-32 (20-40 /) (60-90 /); III-69
 (20-40 /).
 « »
 (2007 .),
 <100 / , <70 / (1,81 /).
 : 1- (9-10); 2- -
 3
 .
 , , .
 (12 6- -
 «Marquette-Hellige» (GE,)), (-
 «ALOKA-MultiView» - -
), («ALOKA - MultiView» -
 () 7 -
).
 :
 ((), (),

(20,4±0,4) (<0,001).

(=0,007),

137,4±2,1 144,2±2,1

(<0,05).

88,1±1,1 85,1±1,1

43,7% 87,5% , 32,6% , 12,5%

23,7% , 10%

8,8% , 8,8% -

8,8%

12%, 89% ,

48%

ST 34,7%,

1,8%, 13%

16% , 20,5%

6% (p<0,001)

9% (p<0,05)

12,0±0,2 7% (p<0,01), (11,2±0,2)

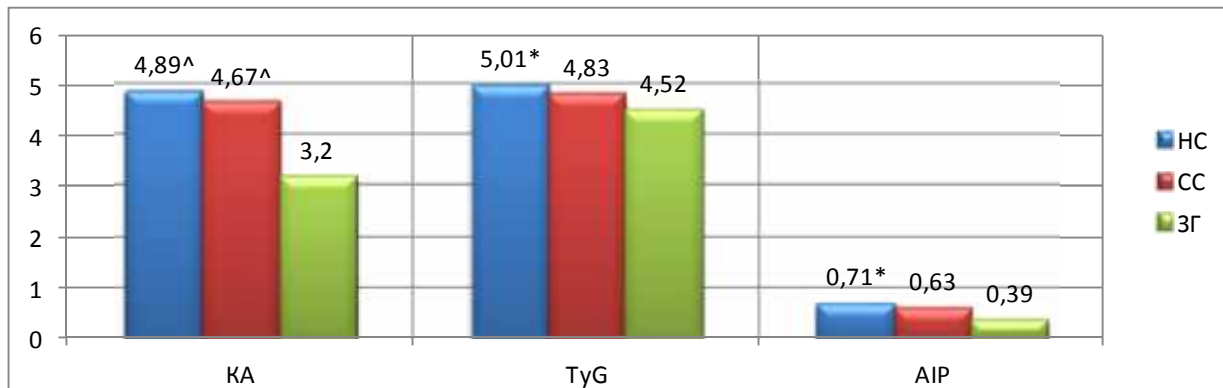
5% (p<0,01)

21,3%

25% (<0,001)

16% (<0,05)

40% , 42% (<0,001)
 17,6% (<0,01) 21% (<0,01)
 1,4 (<0,001), 2 (<0,001), 1,3
 (<0,05), 1,5 (<0,001).



.1 , TyG AIP ; *- <0,01- ; ^- <0,001-

TyG (<0,001) AIP (<0,05)

« »

2

(.1) 1,8 (p<0,001) 1,1 (p<0,05)

(±m)

	(n=138)	(n=80)	(n=41)
, /	5,7±0,3***^^^	4,5±0,3^^^	0,9±0,03
(10 ⁹ /)	6,2±0,1^^^	6,1±0,4^	5,2±1,1
	32,9±0,7	27,5± 0,8	33,0±0,91
, /	11,0±0,8***^^^	6,5±0,3^	5,4±0,3
, /	3,4±0,1*^^^	3,0±0,2^^	2,5±0,1
-6, /	29,8±5,5***^^^	14,2±1,72^^^	3,4±0,3
- , /	23,5±4,8*^^^	12,7±2,1^^^	4,6±0,8
-18, /	168,3±10,6*^^^	134,4±8,9^	106,3±11,0

: *p<0,05,**p<0,01,***p<0,001 - ;
 ^p<0,05,^^p<0,01,^^^p<0,001 -

2 (p<0,001), 1,4
 (p<0,001).
 - 5 1,2 (p<0,001). 4 (p<0,001)
 - 21% (1,3)
 (p<0,01),
 71,4%
 -18, 76,2% - -6, 82,9% - -
 133,4±8,81, 14,2±1,7 12,7±2,1 / .
 () -18
 79,4%, -6 - 85,3%
 168,3±10,6, 29,8±5,5 23,5±4,8 / .
 -6 4,7 (p 0,001),
 10
 (p 0,001). -6
 2 (p 0,01).
 - , 5 (p 0,001),
 - (p 0,001),
 3 .
 2 (p 0,05).
 -18
 1,6 (p 0,001), 1,3 (p 0,05).

-18 1,3 (p 0,05)

-1
7 (54,87±10,32 /), 4,4 (34,04±9,5 /),

(p 0,05). (7,78±1,05),

3,7 (39,07±6,27 /) 3 (32,76±5,47 /), (10,48±3,75 /),

-1
(60,98±0,62 /) (60,53±1,04 /)
(44,70±8,59 /), 1,4

(<0,05). -1
2,2

4,8 (<0,05) 3,9 (<0,05),

2 ,

-6 2 (p<0,05) - 2 1,2 (p<0,05), 1,6 (p<0,05),

2
1,1 (p<0,05), 1,9 (p<0,001), 1,3 (p<0,05),
(p<0,05), - 2,4 (p<0,05) 1,6 (p<0,05) -6 2,5

«

»

-a.

- (-308G>A, rs1800629)
().

rs1800629 SS II-III
(2< 0.99, P>0.32).

(OR) rs1800629
18,47 (P<0.004),
/G (OR=14,75, <0,02) A/A
(OR=3.06, <0,02).
/G A/A
()
()
(.2.). , OR A
8.78 (<0.02).
A/G A/A , OR=6.82 OR=3.12,
(<0.08).
, A/A+A/G OR=8.14 (P<0.03).

2.

- (-308G>A, rs1800629)

/			2	p	OR	
	n = 50	n = 51			.	95% CI
A	0.080	0.010	5.84	0.02	8.78	1.08 – 71.58
G	0.920	0.990			0.11	0.01 – 0.93
A/A	0.020	0.000	5.09	0.08	3.12	0.12 – 78.46
A/G	0.120	0.020			6.82	0.79 – 58.85
G/G	0.860	0.980			0.12	0.01 – 1.04

(.3.)
(<0,001), , (<0,001),
(<0,001), (<0,001),

A/G+A/A.

c A/G+A/A
18% (<0,05) AIP 11% (<0,05)
G/G.

G/G G/G
1,2 (<0,05), 1,2
(<0,01), 1,4 (<0,01),

TyG 6 %(<0,001)
 SS
 11% (<0,05)

-
 AIP 20% (<0,01)
 G/G
 c A/G+A/A
 18% (<0,05) AIP
 G/G.

3.

- (-308G>A, RS 1800629) (M±m, n(%))

	G/G		G/G	
	(n=43)	A/G+A/A (n=7)	(n=51)	(n=41)
, /	228,1±5,6 ^{^^^}	245,5±14,6 ^{^^^}	215,7±7,8 ^{^^^}	158,3±3,34
, /	226,7±9,6 ^{*^^^}	237,8±19,7 ^{^^^}	196,9±11,5 ^{^^^}	95,9±5,4
, /	144,2±4,8 ^{^^^}	162,6±11,9 ^{^^}	133,2±6,8 ^{^^^}	101,1±2,77
, /	38,5±0,9	35,3±1,5 [^]	43,1±1,5 ^{*^}	39,1±0,91
, /	46,9±2,7 ^{^^^}	48,8±8,9 ^{^^}	40,6±2,7 ^{^^^}	19,2±1,07
, . .	4,88±0,17 ^{**^^^}	5,95±0,5 ^{^^^A}	4,11±0,17 ^{^^^}	3,2±0,09
, /	7,05±0,57 ^{**^^^}	7,6±1,57	5,09±0,43	4,8±0,5
AIP, . .	0,76±0,02 ^{**}	0,85±0,03	0,64±0,03	0,39±0,77
TyG, . .	5,0±0,04 ^{**}	5,1±0,09	4,80±0,05	4,52±1,95

[^]P<0,05, ^{^^}P<0,01, ^{^^^}P<0,001-

*P<0,05, **P<0,01, ***P<0,001-

TNF- (-308 G/A); P<0,05-

NS SS

;

G/G

NS

rs 1800629)

-6, -18,

(.4).

)

(<0,001)

,

A/G+A/A,

13

(<0,01).

,

4,5 (<0,01)

,

A/G+A/A

-
 G/G

2,8 (<0,001)

A/G+A/A

G/G

NS

G/G

G/A

G/G.

16% (1,07±0,06, <0,05),
 (0,92±0,04).

- (-308G>A, RS 1800629) (M±m)

	G/G, (n=43)	A/G+A/A (n=7)	G/G (n=51)	(n=41)
	- , /	13,4±1,2 ^{^^^}	60,6±17,2 ^{AAA}	
-6, /	17,9±2,3 ^{^^^}	57,3±14,8 ^{AAA}	14,5±1,8 ^{^^^}	3,42±0,28
-18, /	155,0±10,65 ^{^^}	197,7±23,9 ^{^^}	133,69±9,14	106,3±11
, /	6,65±0,8 ^{*^^^}	7,25±1,69 ^{^^^}	4,48±0,31 ^{^^^}	0,9±0,03
, /	2,98±0,1 ^{^^^}	3,62±0,25 ^{AAA}	3,15±0,18 ^{^^}	2,5±0,09
, 10 ² /1	6,47±0,26 [*]	6,30±0,38	5,72±0,16	5,2±1,1
, %	31,9±0,93 [*]	29,3±1,55	28,41±1,15	33,0±0,91
, /	10,2±1,17 [*]	11,1±4,14	6,37±0,45	6,5±1,9

[^]P<0,05, ^{^^}P<0,01, ^{^^^}P<0,001-

*P<0,05, **P<0,01, ***P<0,001-

TNF- (-308 G/A); ^AP<0,05, ^{AA}P<0,01, ^{AAA}P<0,001-

G/G A/G+A/A TNF- (-308 G/A).

NS SS

G/G
NS

-6

G/G 5,2 (<0,001),

G/A+A/A 16,8 (<0,001),

G/G 4,2 (<0,001).

-6 NS

3,2 (<0,05)

G/A+A/A

G/G

- (-308G>A).

G/G

1,5 (<0,05),

1,6 (<0,05) 1,1 (<0,05),
NS.

1,1 (<0,05)

G/A+A/A 1,2 (<0,05)

G/G.

(. 5).

(, 3 / -) 1 / , 1 3 / -

(p<0,01) 1 / 1,4 (p<0,05) 2,3

2 (p<0,01), -6 2,7 (p<0,05), - 1,4 (p<0,05)

-18 1,4 (p<0,01),

5.

(M±SD)

	1 /	1-3 /	3 /	
	(n=20) (n=17)	(n=30) (n=30)	(n=88) (n=33)	
, /	11,6±2,1 ^{^^*} 5,1±0,4	12,3±2,0 ^{^^^} 6,8±0,3 ^{^^*}	10,5±1,0 ^{^^^**} 7,1±0,7 [^]	5,4±0,3
, /	1,0±0,1* 0,74±0,1	2,4±0,1 ^{^^^} 2,36±0,2 ^{^^^}	7,23±0,4 ^{^^^***} 5,41±0,2 ^{^^^}	0,9±0,03
, /	2,9±0,2 2,66±0,5	2,8±0,1 [^] 2,88±0,3	3,2±0,1 ^{^^^} 3,29±0,2 ^{^^^}	2,5±0,1
-6, /	9,2±1,0 ^{^^^} 6,2±3,9	19,7±5,2 ^{^^} 14,8±2,9 ^{^^^}	33,4±7,3 ^{^^^**} 12,1±1,2 ^{^^^}	3,4±0,3
- , /	6,4±0,4 [^] 6,2±1,7	18,0±4,8 8,88±0,8 ^{^^^}	26,5±6,4 ^{^^^**} 13,1±2,6 ^{^^}	4,6±0,8
-18, /	153,6±17,0 [^] 127,5±6,5	167,8±30,6 152,3±5,4 ^{^^^}	174,6±10,8 ^{^^^*} 127,4±10,1	106,3±11,0

[^] <0,05, ^{^^} <0,01, ^{^^^} <0,001 –
; * <0,05, ** <0,01, *** <0,001–

1-3 / 2 (p<0,01)

(p<0,001), 1,1 (p<0,05), 2,3 (p<0,001), 2,7
-6 5,8 (p<0,01),
(p<0,001), 1,3 (p<0,001), 2,6
-6 4,4 (p<0,001), - 2 (p<0,001) -18 1,4
(p<0,001).

3 / 1,5
(p<0,01), 1,3 (p<0,001), -6 2,8 (p<0,01), - 2
(p<0,01), -18 1,4 (p<0,01), 1,1 (p<0,05)
1,3 (p<0,001)

(p<0,001).

«

»

()

(I- <0,05, II- <0,01, III- <0,001)

(I- <0,01, II- <0,01, III- <0,001),

(<0,05)

(<0,05)

(<0,05).

(<0,05)

(<0,05).

(.6)

(<0,001),

: II I III
(<0,05),

(<0,05).

6

(3)

(±m)

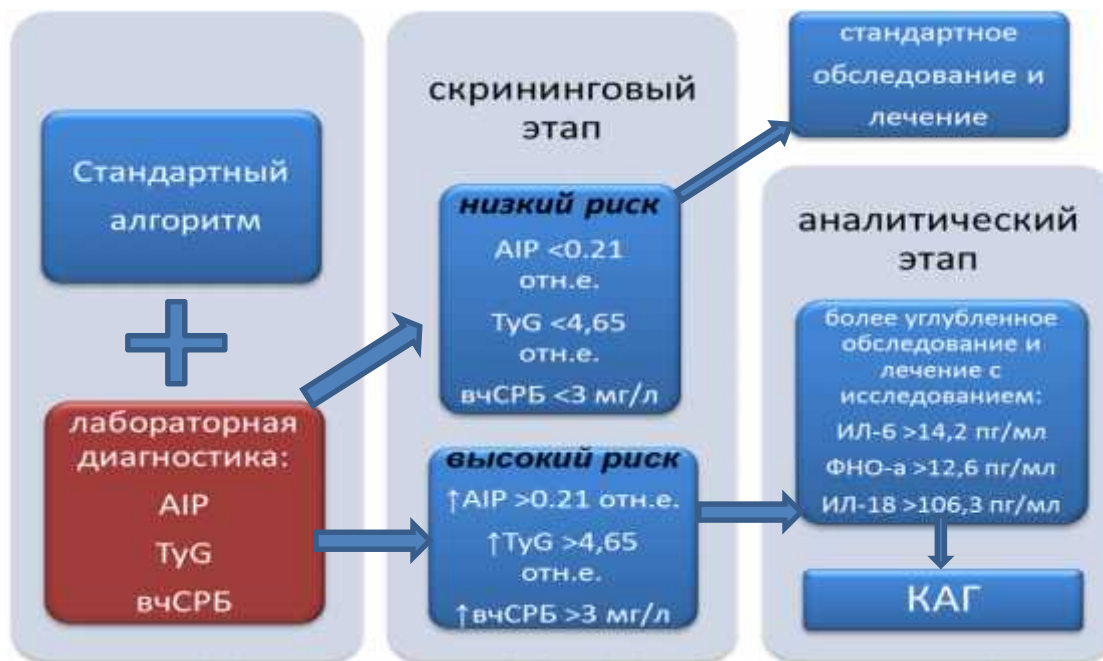
	I (n=37)	II (n=32)	III (n=69)
C , /	6,4±0,5	5,9±0,6	4,9±0,6
	2,8±0,4 ^{^^}	2,6±0,3 ^{^^}	2,7±0,4 ^{^^}
(10 ⁹ /)	6,0±0,2	6,2±0,2	6,3±0,2
	5,9±0,4	5,9±0,5	5,7±0,3 [^]
, /	8,7±1,4	11,4±1,7	12,1±1,3
	7,6±1,9	9,0±2,1	10,1±2,0
, /	3,0±0,2	3,1±0,1	2,9±0,1
	2,9±0,5	2,7±0,1 [^]	2,4±0,01 ^{^^}
-6, /	14,3±3,0	29,2±9,2	42,2±11,2
	7,8±0,5 ^{^^}	9,9±1,5 [^]	14,9±3,0 [^]
- , /	11,0±2,9	16,3±3,7	33,4±10,5
	9,3±1,1 ^{^^}	8,6±0,7 [^]	11,4±2,7 [^]
-18, /	180,5±15,7	161,1±14,8	168,8±17,1
	179,1±21,7	180,9±23,3	190,6±44,1

: [^] <0,05, ^{^^} <0,01, ^{^^^} <0,001 -

; ()

: -6 (<0,05)

- ($<0,05$)
-18
(=0,2).
-6 1,8
(45,5%) ($<0,001$), - 1,2 (15%) ($<0,01$) -18
($<0,05$), - 3 (65,9%) ($<0,05$) -6 -18 2,8 (65%)
8%
($<0,05$), -6 -18 3 (66%) ($<0,05$), - 2 (47%)
22%
2 : <5 / 5 /
5 /
>100 / , III / - .
> 5 / ,
, , 2 3 ,
(.4). III , II /
/ . I ,
(.4). I
59,0%, II 76,6%, III 69,5%. I
2 (59,0%) ,
< 5 / (28,1%, $P<0,05$),
> 5 / .



.2.

TyG AIP.

: AIP –

(

), TyG-

(.2.)

> 4,65 (OR = 4,44, 95% CI = 2,45-8,05), AIP OR = 31,6, 95% CI = 9,26-107,8), >3 / (OR = 2,50, 95% CI = 1,43-4,4), -18 OR = 4,14, 95% CI = 2,16-7,94), -6 > 14,2 / (OR = 1,30, 95% CI = 1,07-1,58) - > 12,6 / (OR = 1,20, 95% CI = 1,00-1,47). AIP TyG

(.2).

1.

21%, 11,8%;
 -6 52,3%, -
 45,9%, -18 20%.
 1 -

2.

2 , ; TyG AIP, , , , ,
 ;

3.

14%, 35,9%, -6 50,8%, -
 47,4%. 2
 25,5%, 10,8%, 37,5% -6
 56,7%, - 57,9%.

4.

TNF- (-308G>A) - , /G
 A/A () . /G+ /

5.

- 77,9%, -6 68,8%,
 17,7%, 18% AIP 10,6%.
 : 56%, -6 66% TFN-
 47,2%.

6.

- AIP TyG ,

**ONE-TIME SCIENTIFIC COUNCIL AT THE SCIENTIFIC COUNCIL ON
THE ADMISSION OF SCIENTIFIC DEGREES DSc.27.06.2017.Tib.50.01
AT THE REPUBLICAN SCIENTIFIC CENTER OF IMMUNOLOGY AND
THE TASHKENT MEDICAL ACADEMY**

REPUBLICAN SCIENTIFIC CENTER OF IMMUNOLOGY

KASIMOVA MUKHLISAKHON SAIDAKBARKHODJAYEVNA

IMMUNOGENETIC ASPECTS OF ANGINA

14.00.36 – Allergy and immunology

14.00.06 – Cardiology

**DISSERTATION ABSTRACT OF THE DOCTOR OF PHILOSOPHY (PhD)
ON MEDICAL SCIENCES**

TASHKENT – 2017

The subject of doctoral dissertation is registered the Supreme Attestation Commission at the Cabinet of Ministers of the Republic of Uzbekistan in number 2017.1.PhD/Tib146

Doctoral dissertation was carried out at the Republican center of immunology.

Abstract of dissertation in three languages (Uzbek, Russian, English) is placed on web page to address (www.immunology.uz) and an information-educational portal "ZiyoNet" to address (www.ziynet.uz)

Scientific chiefs:	Ismailova Adolat Abdurakhimovna Doctor of Medical Science
	Tulabayeva Gavkhar Mirakbarovna Doctor of Medical Science, dozent
Official opponents:	Akhmedova Kholida Yuldashevna Doctor of Medical Science
	Nurillayeva Nargiza Mukhtarkhanovna Doctor of Medical Science, dozent
Leading organization:	Bukhara State medical institute

Defense of the thesis will be held «____» _____ 2017 in ____ hours at a meeting of the Scientific Council at the Scientific Council DSc.27.06.2017.Tib.50.01 at the Republican Scientific Center of Immunology and the Tashkent Medical Academy (Address: 100060, Tashkent, Academician Str. Ya. Gulyamova, 74. Tel / fax: (99871) 233-08-55, e-mail: immunologiya@qip.ru.)

With a doctoral thesis can be found in the Information Resource Center of the Republican Scientific Center of Immunology (registered for the number) (Address: 100060, Tashkent, Academician Y. Gulyamov St., 74. Tel./Fax: (99871) 233-08- 55)

Abstract of dissertation sent out on «____» _____ 2017 year
(mailing report _____ on _____ 2017 year)

T.U. Aripova
Chairman of scientific council on award
of scientific degrees, MD, professor

Z.S. Kamalov
Scientific secretary of scientific council on award
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T.R. Hegay
hairman of scientific seminar under scientific
council on award of scientific degrees, MD

INTRODUCTION (abstract of PhD thesis)

The aim of the research. Studying immunogenetic aspect of non-specific inflammation interdependence with clinical features of CHD course.

The object of the research work. The analysis of results of clinical-laboratory and immunogenetic indicators of 218 patients with coronary artery disease in the age from 27 to 75 years is given. Of these, 138 patients with unstable (progressive) angina pectoris (UAP) II and 80 patients with stable angina pectoris (SAP) II-III FG. The control group consisted of conditionally healthy, outpatient examinations, 41 people without clinical and diagnostic signs of coronary artery disease.

Scientific novelty of the research work are followings:

- A complex clinical and immunological examination of inflammation biomarkers in patients with CHD of stable and unstable angina pectoris was carried out for the first time.

- It was shown for the first time that the activity of inflammatory process of unstable angina is caused by the presence of PSCS and concomitant type II diabetes in the anamnesis, which allows to determine the diagnostic significance of these markers of inflammation in the process of destabilization of angina pectoris.

- Immunological biomarkers of inflammation in patients with CHD, whose magnitude is a direct reflection of activity of inflammation processes with stable and unstable angina, were studied for the first time.

- For the first time, the AIP, TyG and hsCRP indexes are scientifically grounded, which indicate possible risks of the development of cardiovascular complications.

- The anti-inflammatory effect of combined therapy of simvastatin with oligvone has been demonstrated for the first time. hsCRP decreased for 56% and inflammatory cytokines IL-6 for 66% and TNF- α for 47.2% in patients with unstable angina

Implementation of the research results. Based on the obtained results of the study of clinical and immunological aspects of the pathogenesis of angina pectoris, the role of immunoinflammatory reactions has been revealed, which manifests itself as the hyperactivation of inflammatory mediators in patients with CHD especially in combination with MI and DM 2.

Practical results of methodical recommendations were implemented into practical healthcare of the Republic, including the of the Republican Specialized Cardiology Center, Municipal Clinical Hospital #7 in Tashkent and the educational process of the Department of Cardiology and Gerontology TIAMS (Ministry of Health 8N-d / 40 from 24th of October 2014).

The outline of the thesis

1. In patients with unstable angina in contrast to stable angina, the activation of immunoinflammatory reactions was manifested: an increase in the levels of hsCRP to 21%, fibrinogen to 11,8%; overexpression of proinflammatory cytokines IL-6 to 52,3, TNF- α 45,9%, IL-18 to 20%. There was also an increase

in the spontaneous and induced production of the pro-inflammatory cytokines IL-1 and TNF- α , which predominated in the UAP group.

2. Unstable angina pectoris was associated with frequent PSCS, type 2 diabetes, obesity; high BMI, heart rate, MBP, fasting glucose level, TyG and AIP, TIMC, FDS, LV, TIVS and PWLV indices; and a low LVEF.

3. Patients with HCV with PICS had an elevated level of lymphocytes to 14%, ESR to 35,9%, IL-6 to 50,8%, TNF- α 47,4%. In patients with type 2 diabetes, increased rates of hsCRP were to 25,5%, lymphocytes to 10,8%, ESR to 37,5% and IL-6 to 56,7%, and TNF- α to 57,9%.

4. In the genesis of CHD, the TNF- α gene (-308G> A-allele A, A / G and A / A genotypes are characterized as risk types in the development of unstable (progressive) angina pectoris in the Uzbek population. A / G + A / A genotype is detected only in the group of patients with UAP and is associated with a high level of serum TNF- α to 77,9%, IL-6 to 68,8%, fibrinogen to 17,7%, SC to 18% and AIP index to 10,6%.

5. More profound anti-inflammatory effect was observed when simvastatin and oligvone were combined, decreasing hsCRP for 56% and inflammatory cytokines IL-6 for 66% and TNF- α for 47.2%.

6. The algorithm of stratification of low and high risk of cardiovascular complications in patients with HD was developed on the basis of hsCRP, AIP and TyG indexes, taking into account the analytical stage with the study of the main pro-inflammatory cytokines and coronaroangiography.

- .//
- (53
17. « ».-. , 2013. – .11. . //
18. « : – ».- , 2013. - .534-535 . //
19. .58. « – ».- , 2014. – . 2, 3. - . //
- APOC3, ABCA, MTRR, NOS3
VIII
20. , 2014. – . 2. - .206. APOC3 ABCA1 .//
21. .70- .- , 2013. - -36. APOC3 .//
22. , 2013. - .174. .//
23. .236. « : ».- , 2016. - 1-2. - .// 5-

«Nazariy va klinik tibbiyot jurnali»

(06.12.2017)

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