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14.01.01 –

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– 2017

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1.	
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1.1.	10
1.2.	
.....	16
1.3.	-
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).....	19
1.4	-
.....	22
3. 2.	
.....	27
2.1.	27
2.2.	34
2.2.1. - ...	35
2.2.2.	38
2.2.3.	38
3.	-
.....	40
4.	-
.....	39
4.1.	-
.....	69
4.2.	76

4.3.	-
 77
4.4.	-
 79
5.	-
	-
 84
5.1.	-
	, 84
5.2.	, -
 87
 96
 102
 103
 104
 105

50%

[5; 20].

11

[93, 73].

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SF-36

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18

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21 . .

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» (, 2013)

« » (, 2014);

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(, 2014);

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(, 2013);

XVII, XIX

(, 2014);

2016)

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» (, 2016); «

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128

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206

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[23].

[95].

15%

[71, 74].

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30 / ²,

8,8 52,3%

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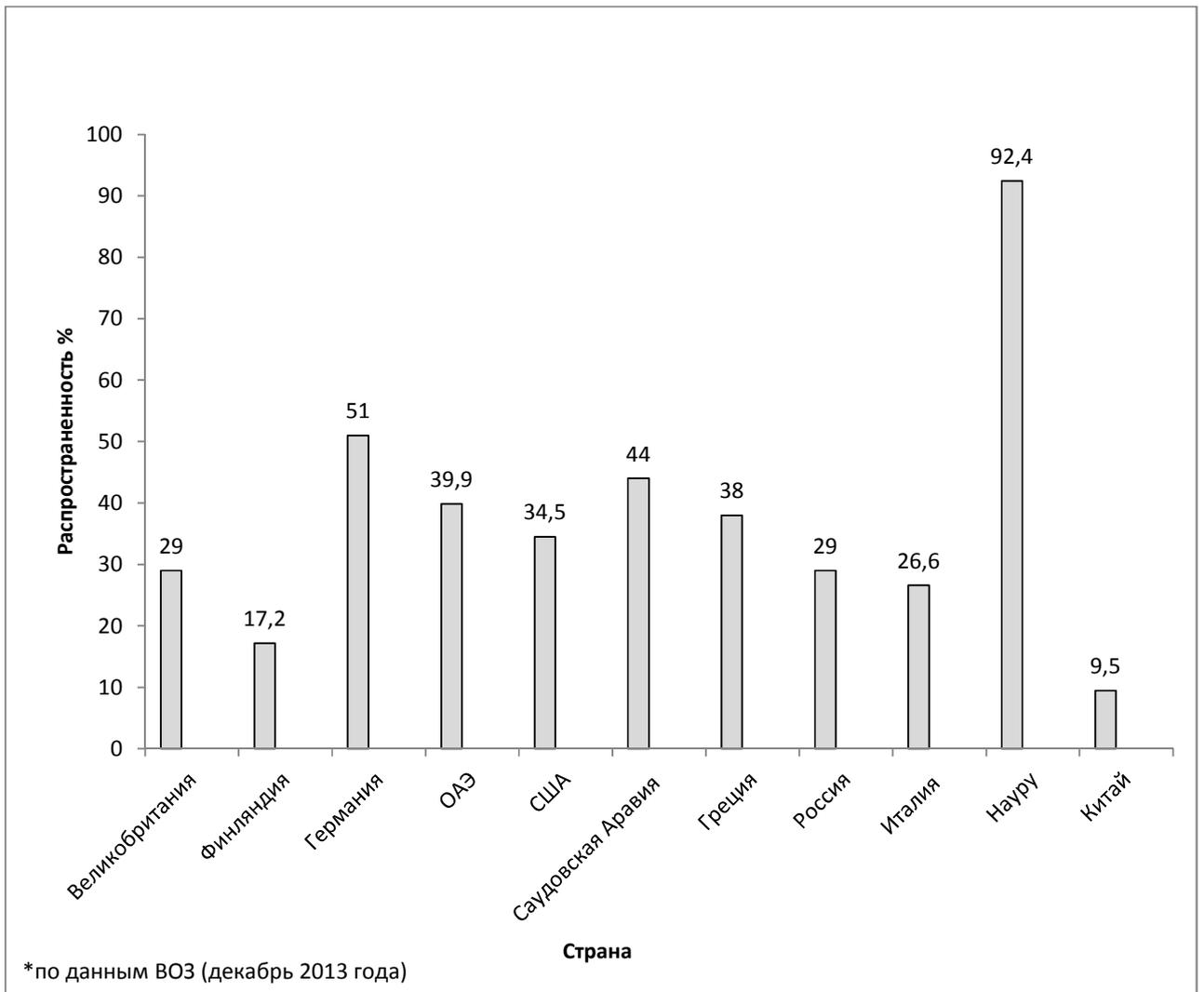
2017 .

8%,

2025 .

300 .

« » [92].



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[57].

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[86, 82].

III-IV

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[73; 70; 58; 91].

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[1; 22; 74; 48].

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. . . . (2012) ,
 , [60].
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 . ,
 ,
 12%, - 50%. ,
 [57, 2]
 (1).
 1 - -

. . . , . . . , . . .	2015	65
Mohos E., J n Z., Richter D. et al.	2014	44
Bardens D. et al.	2014	99
. . .	2011	159
. . . , . . . , . . .	2011	100
. . . , . . . -	2007	38
. . .	2004	1417
A. Vahratian, J. Zhang, J.F. Troendle et al.	2004	3913

. . . (2012), ,
 . . .
 2,3 ,
 - 1,5 , - 6,4 ,
 5,8 [7;42].
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 . . .
 3,7-10% [41].
 (10-17%), [10].
 , « » ,
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 . ,
 , 70- [42, 10].
 287 213 , N.J. Sebire et al. (2001)
 ,
 ,
 [186, 205].

10–28%

[49, 36].

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[7].

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[49, 54, 121].

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) [93, 59].

1.2

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[3; 87; 154].

18

[17, 204].

[89, 117].

[6, 149, 113, 120].

[37, 51].

1.3

(,)

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- [28, 193].

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. , T.J. White ,

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[179].

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[25].

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[45].

[31, 47].

40 —

[47].

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1.4

« , » [103]. « -
 » 1920 . A.S. Pigou
 - , [120].
 1987 . , (Health Related
 Quality of Life, HRQoL).
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 « , -
 , » [125].
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 () [90; 151].
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 , -
 [164].

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 . , -
 , , -
 , -
 [166; 168]. -

. [«The MOS-36-Item
 Short From Health Survey” (SF-36), « Sickness Impact Profile”(SIP), “European Quality of
 Life” (EuroQol), “WHO Quality of Life” (WHOQOL), “Nottinham Health Profile” . .]
 [Gastrointestinal Simptom Rating Scale (GSRs),
 (GIQLI Gastrointestinal Quality of Life index) . .]. -

, , -
 , -
 [167, 169]. -

«The
 MOS-36-Item Short From Health Survey” (SF-36), Ware
 (1993).

. 36 -
 , 9 : « », « -
 », « », « -
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 ». 0 -
 100 (,). -
 15 . ,
 , SF-36, -

1999 . (. -)
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SF-36

SF-36,

[19].

(), [83, 168].

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J-

, Sach . et al., (2007)

45 -

18 30 [196, 167].

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[49, 91]. -

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[82, 72, 66].

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II.

2.1

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, 102 2011 2015 .
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2011 . 20,5%, 2012 . 22,5%, 2013 . 24,5%,
2014 . 26,65%, 2015 ., , 31,5% (2).
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29 / ²,
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18 57 .

36,4±0,81 .

110 220 , , , 163,41±3,61 .

49 92%.

, 2 . , , 133 171
(152,1±0,53) . -

32 61 / ², 48,6 ± 0,32 / ².

5 17 , 10,4±0,6 .



2 –

«

» 2011–2015 .

, 85 (83,3%),

– 12 . 16,7%

15 (14,7%)

39 (38,2%)

100%

20

30

() . ()

44 (43,14%) , « » -

· , 3, -

3 - -

	- - ()	- - ()	()
:	34	16	32
-	25	12	24
-	9	4	8
:	6	2	12
-	4	2	8
-	2	-	2
-	-	-	2
...	40	18	44

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 . -
 2 : 1- - 37 (,
 29 / ²),
 3 , 2
 . 2- 45 , , -
 29 / ² . -
 - . -
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 , -
 . , -
 45 , 18 57 . -
 37,1±0,54 .

, 4, -
1- 2- ,

4 - ,

	1-	2-
:	27	33
-	20	25
-	7	8
:	10	12
-	8	8
-	2	2
-	-	2
...	37	45

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(1):

$$= () / ()^2, \quad (1)$$

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5.

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	1- (n=37)	2- (n=45)
	(29 / 2)	(<29 / 2)
()	36,4±0,81	37,1±0,54
	30 (81,1%)	12 (26,7)
	10 (27,01%)	3 (6,7%)
(.)	163±10,31	141±9,24
(.)	95±7,82	77±9,42
(/)	72±15,11	68±11,93
	10 (27,01%)	1 (2,2%)

(R = 0,39, <0,0001),

(R = 0,21, <0,0001)

(R = 0,43, < 0,0001).

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 30),
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 (-01).
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 (1/). : -
 (1),
 (%), (),
 25%, 50%, 75% (),
 25-75% (), -
 (); (),
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 «Criticare»,
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 2, ; (), -
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2.2.2

2

Medical Outcomes Study (MOS) short form SF-36.

SF-36

PCS MCS

URL: <http://www.sf36.org>.

2.2.3

, Mann-Whitney U.

t-

39

95% -

2.

-

<0,05.

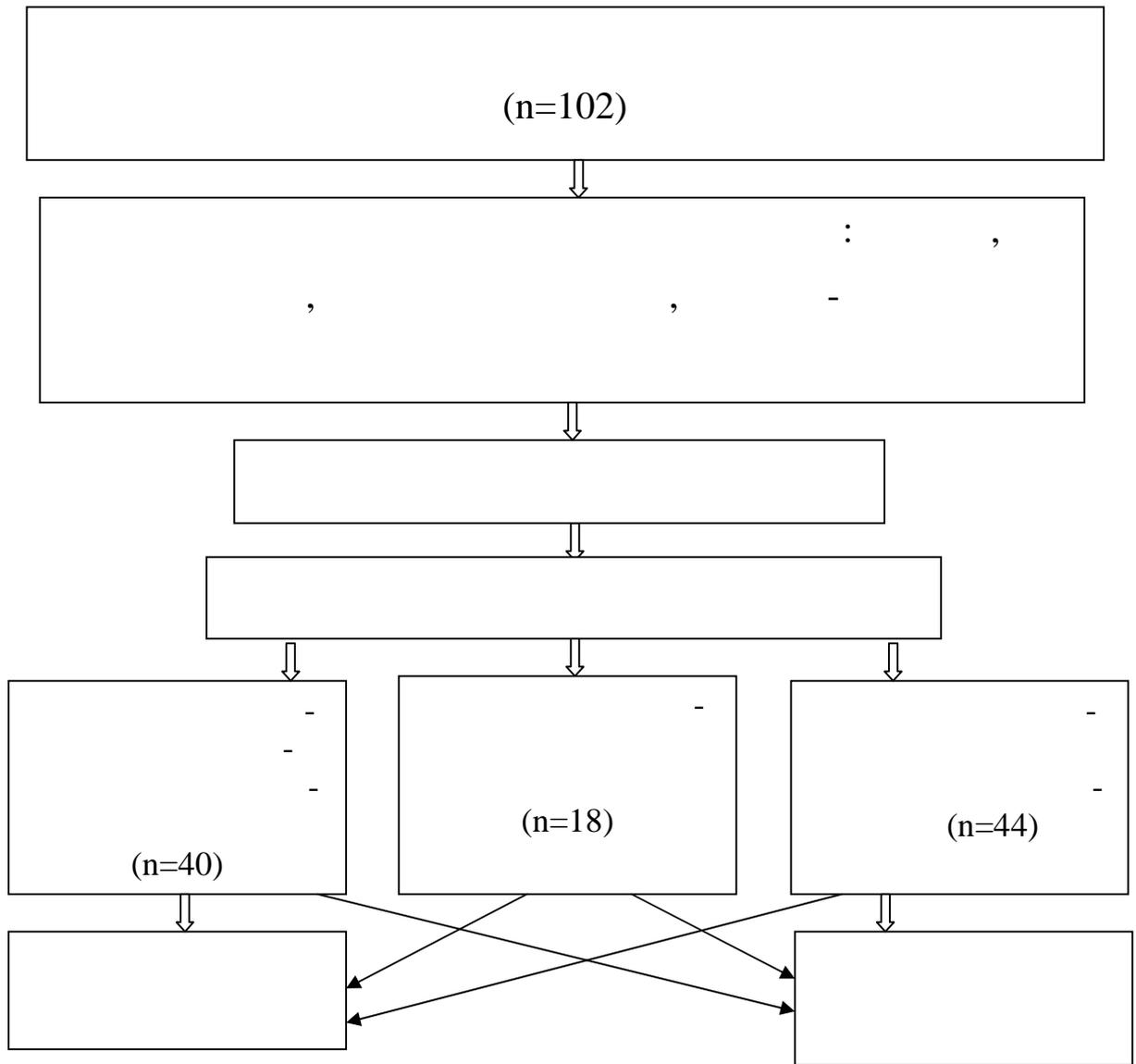
DBASE,

STATGRAF STAT4,

SPSS

7.5.

«Microsoft Excel».



3 -

($1 > 0,05$, $2 > 0,05$, $3 > 0,05$).

6.

6 –

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.(. .)

		(n=102)		
		(n=58)		(n=44)
		(n=40)	(n=18)	(n=44)
	1 >0,05 2 >0,05 3 >0,05	7,4±2,5	7,4±2,4	6,9±1,6
	1 >0,05 2 <0,05 3 <0,05	13,8±0,5	13,5±0,8	2±0,6
24	1 >0,05 2 <0,05 3 <0,05	4,1±1,4	3,5±1,4	9,2±0,9
48	1 >0,05 2 <0,05 3 <0,05	3,1±0,8	2,8±0,8	9,3±0,8
72	1 >0,05 2 <0,05 3 <0,05	3±0,7	2,9±0,8	8,7±1
1 –	. .			
2 –	. .			
3 –	. .			

(2) 13,5 ±0,8 . . . (), 13,8±0,5 . . . (

24 ±1,42 . . . , 3,5±1,4 . . . , 4,1

3,1±0,8 . . . , 2,8±0,8 . . . ,
3,0±0,7 . . . , 2,9±0,8 . . . ,

(1>0,05).

2,0±0,6 . . . ,

9,3±0,8

8,7±1,0

(2<0,05; 3<0,05).

(= - 0,94; = - 0,95)

(= +0,89).

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14,3 . .

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, (1>0,05; 2>0,05; 3>0,05), -

95,1±0,9 . ., 94 ± 0,8 . ., 96,8 ± 0,8 . . . -

92,0±0,9 . ., 93,0±0,8 . ., -

95,1±0,7 . .,

(1<0,05; 2<0,05; 3<0,05).

(1<0,05; 2<0,05;

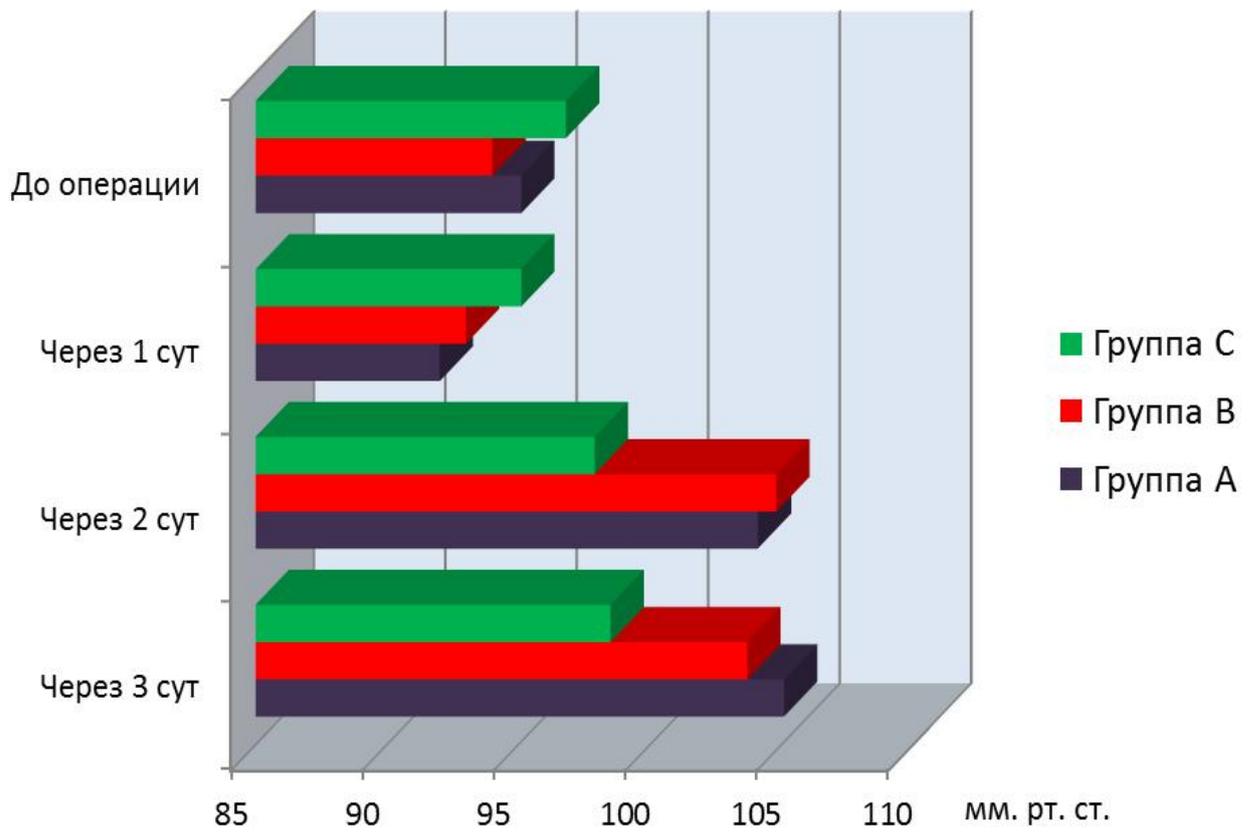
3<0,05),
 (104,1±0,9 . . .) (104,8±0,8 . . .)
 (97,9±0,9 . . .).

7 –

		(n=)	(n=)	(n=)
(. . .)	1 >0,05 2 >0,05 3 >0,05	95,1±0,9	94,0±0,8	96,8±0,8
24	1 <0,05 2 <0,05 3 <0,05	92,0±0,9	93,0±0,8	95,1±0,7
48 (2-)	1 <0,05 2 <0,05 3 <0,05	104,1±0,9	104,8±0,8	97,9±0,9
72 (3-)	1 >0,05 2 <0,05 3 <0,05	105,1±0,9	103,7±0,8	98,5±0,6
1 – . . .				
2 – . . .				
3 – . . .				

(98,5± 0,6 . . .) (2<0,05; 3<0,05)
 (104,1± 0,6 . . .) (103,7 ± 0,7 . . .),
 (1>0,05).

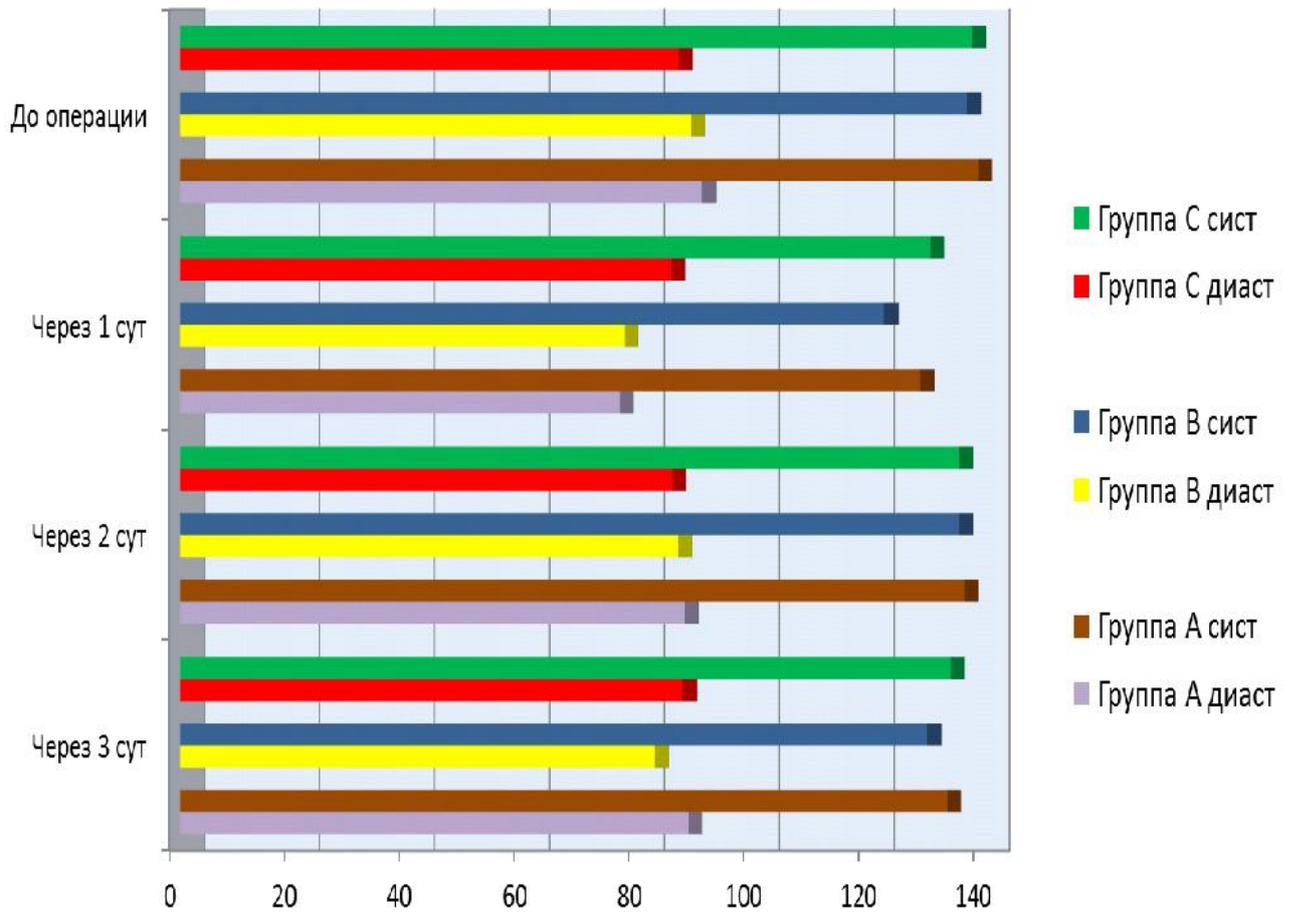
4.



4 –

8 –

		(n=40)	(n=18)	(n=44)	
(. . .)	1 >0,05 2 >0,05 3 >0,05	138,8±10,8 /90,8±5,6	136,9±10,1 /88,9±4,6	137,8±8,6 /86,8±6,6	1 >0,05 2 >0,05 3 >0,05
24	1 >0,05 2 <0,05 3 <0,05	128,8±9,8/ 76,5±4,4	122,5±7,6/ 77,3±4,6	130,5±9,5 /85,5±5,9	1 >0,05 2 <0,05 3 <0,05
48 (2-)	1 >0,05 2 >0,05 3 >0,05	136,5±6,5/ 87,8±4,2	135,5±5,5/ 86,7±3,5	135,5±6,4 /85,6±4,4	1 >0,05 2 >0,05 3 >0,05
72 (3-)	1 >0,05 2 >0,05 3 >0,05	133,4±5,2/ 88,4±3,4	130±8,4/ 82,6±5,4	134±7,5/8 7,4±4,3	1 >0,05 2 >0,05 3 >0,05
	1 –	.	.		
	2 –	.	.		
	3 –	.	.		



5 –

77,5±0,5 / (1 <0,05), 69,8±0,5 / , 79,5±0,9 / , (2 <0,05, 3 <0,05).

88±0,5 / , 90,6±0,9 / , 89,1±0,5 / , (1<0,05; 2<0,05; 3<0,05).

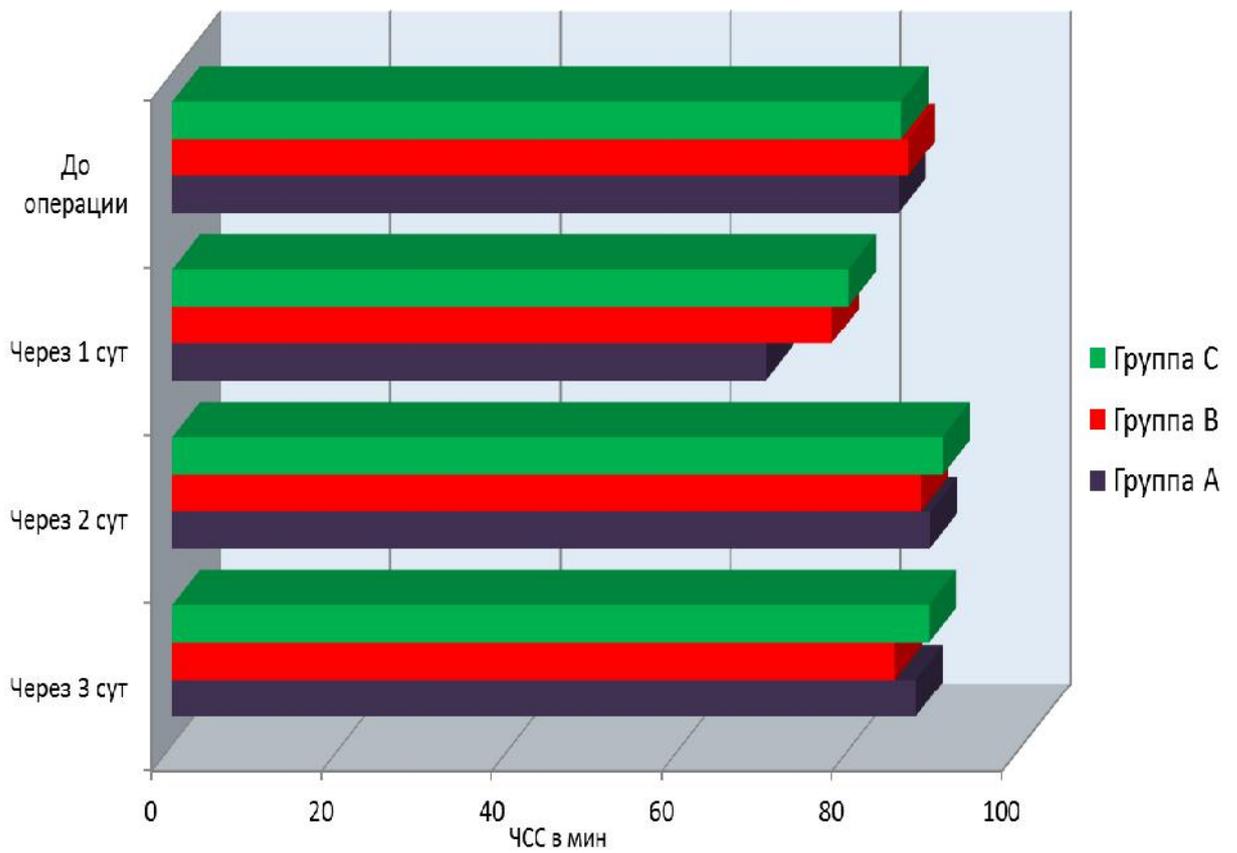
9.

9 –

		(n=40)	(n=18)	(n=44)
	$1 > 0,05$ $2 > 0,05$ $3 > 0,05$	85,4±0,5	86,5±1,0	85,7±1,1
24	$1 < 0,05$ $2 < 0,05$ $3 < 0,05$	69,8±0,5	77,5±0,5	79,5±0,9
48 (2-)	$1 < 0,05$ $2 < 0,05$ $3 < 0,05$	89,1±0,5	88±0,5	90,6±0,9
72 (3-)	$1 < 0,05$ $2 < 0,05$ $3 < 0,05$	87,4±0,7	85±0,9	89±0,9
1 –	. .			
2 –	. .			
3 –	. .			

6.

1 – , 2 – , 3 – , 4 – , 5 –
) . 9
 , ,
 , 2,5±0,5 , 2,5±0,5 , 2,4±0,5 (1>0,05;
 2>0,05; 3>0,05).



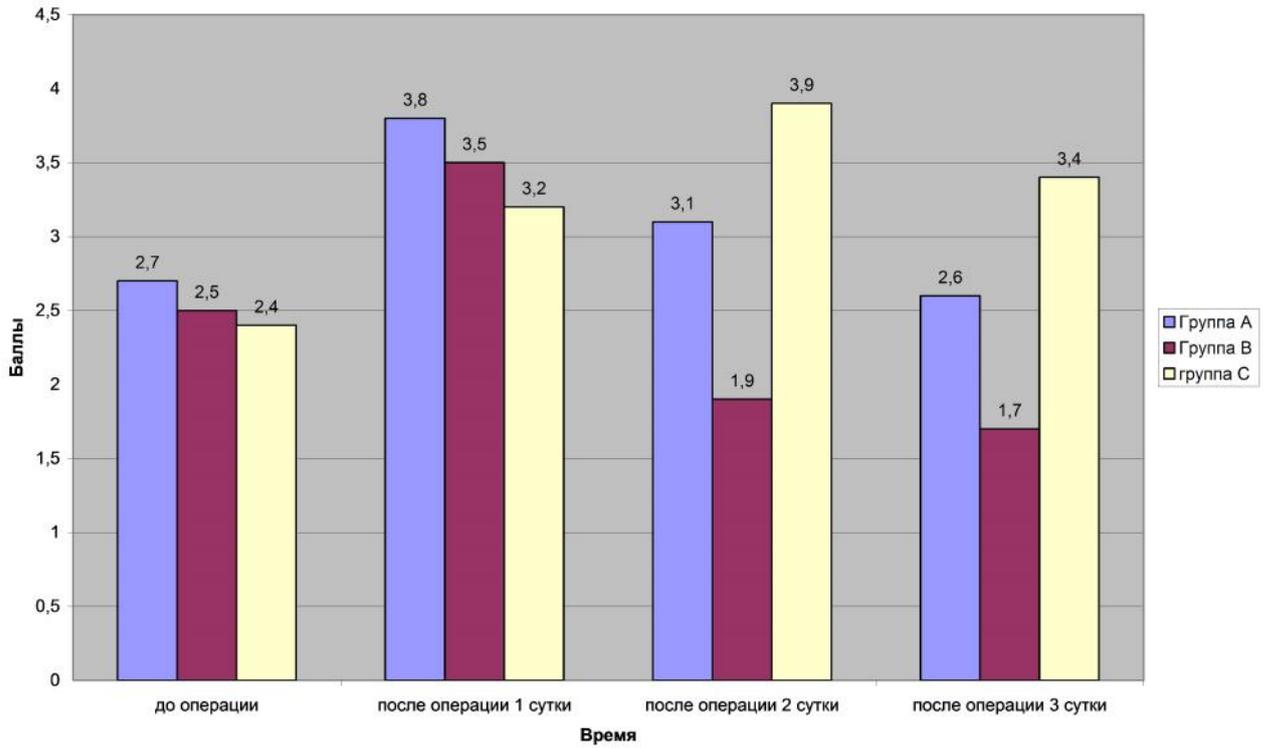
6 –

$3,8 \pm 1,0$ -
 $3,2 \pm 0,5$, ($3 < 0,05$). -
 , ($1 < 0,05$;
 $2 < 0,05$; $3 < 0,05$),
 $(1,9 \pm 1,0)$),
 $(3,7 \pm 0,9)$).
 . -
 $(1,7 \pm 0,9)$),
 $3,4 \pm 0,8$, ($1 < 0,05$; $2 < 0,05$; $3 < 0,05$). -
 , -
 10. -
 6. -
 , -
 , -
 ($1 > 0,05$; $2 > 0,05$; $3 > 0,05$).
 , ($1 < 0,05$; $2 < 0,05$; $3 < 0,05$),
 $3,1 \pm 0,7$ $3,2 \pm 0,9$ -
 , -
 $2,2 \pm 0,5$, -
 $2,6 \pm 0,7$.

10 –

,

		(n=40)	(n=18)	(n=44)
	$1 > 0,05$ $2 > 0,05$ $3 > 0,05$	$2,5 \pm 0,5$	$2,5 \pm 0,5$	$2,4 \pm 0,5$
24	$1 > 0,05$ $2 > 0,05$ $3 < 0,05$	$3,2 \pm 0,5$	$3,2 \pm 0,5$	$3,8 \pm 1,0$
48 (2-)	$1 < 0,05$ $2 < 0,05$ $3 < 0,05$	$2,9 \pm 0,4$	$1,9 \pm 1,0$	$3,7 \pm 0,9$
72 (3-)	$1 < 0,05$ $2 < 0,05$ $3 < 0,05$	$2,6 \pm 0,5$	$1,7 \pm 0,9$	$3,4 \pm 0,8$
	1 –	.	.	
	2 –	.	.	
	3 –	.	.	



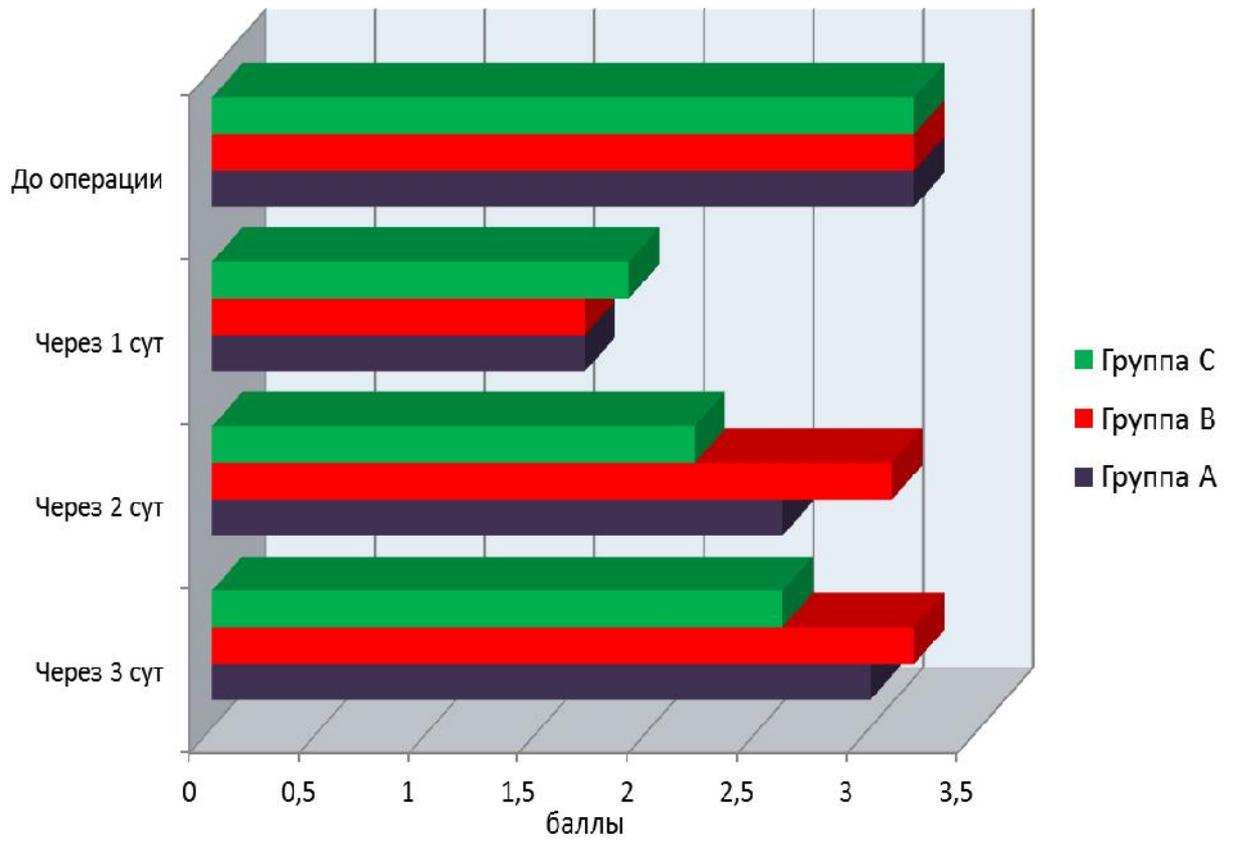
6 –

,
 ,
 11.
 ,
 ($1 > 0,05$;
 $2 > 0,05$; $3 > 0,05$),
 $18,8 \pm 0,9$. / ., $18,5 \pm 0,5$. / .,
 $16,8 \pm 0,7$. / . $17,4 \pm 1,0$. / . ($1 < 0,05$),
 –
 $22,4 \pm 0,9$. / . ($1 < 0,05$; $2 < 0,05$; $3 < 0,05$)

(19,0±0,5 . / .) (20,0±1,0 . / .).
 (21,0±0,9 . / .)
 (18,5±0,8 . / .) (17,3±0,4 . / .), (1<0,05; 2<0,05; 3<0,05).

11 –

		(n=40)	(n=18)	(n=44)
	1>0,05 2>0,05 3>0,05	3,2±0,5	3,2±0,9	3,2±0,5
24	1 >0,05 2 >0,05 3 >0,05	1,7±0,7	1,7±0,9	1,9±0,8
48 (2-)	1 <0,05 2 <0,05 3 <0,05	2,6±0,6	3,1±0,7	2,2±0,5
72 (3-)	1 <0,05 2 <0,05 3 <0,05	3±0,9	3,2±0,9	2,6±0,7
1 –	. .			
2 –	. .			
3 –	. .			



7 –

12

8.

36,6° ±0,5, (1>0,05; 2>0,05; 3>0,05),

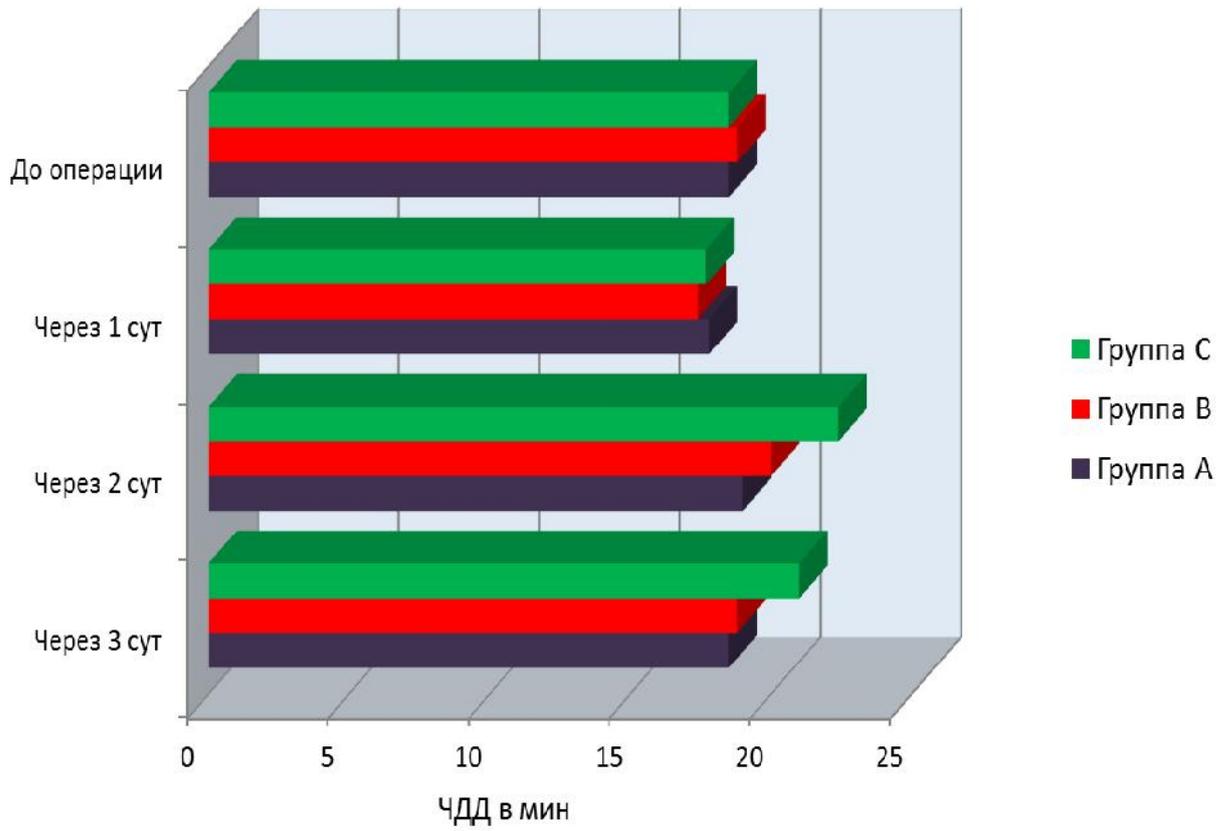
(37,4° ±0,7),

(37,0° ±0,5) (37,1° ±0,9).

13.

12 –

		(n=40)	(n=18)	(n=44)
	$1 >0,05$ $2 >0,05$ $3 >0,05$	18,5±0,5	18,8±0,9	18,5±0,5
24	$1 <0,05$ $2 >0,05$ $3 <0,05$	17,8±0,9	17,4±1	17,7±0,7
48 (2-)	$1 <0,05$ $2 <0,05$ $3 <0,05$	19,0±0,5	20,0±1,0	22,4±0,9
72 (3-)	$1 <0,05$ $2 <0,05$ $3 <0,05$	18,5±0,8	18,8±0,9	21,0±0,9
	1 –	.	.	
	2 –	.	.	
	3 –	.	.	



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(1 –

, 2 –

, 3 –

, 4 –

, 5 –

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13

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-

,

(1>0,05; 2>0,05; 3>0,05),

3,0±0,9

,

3,2±0,8

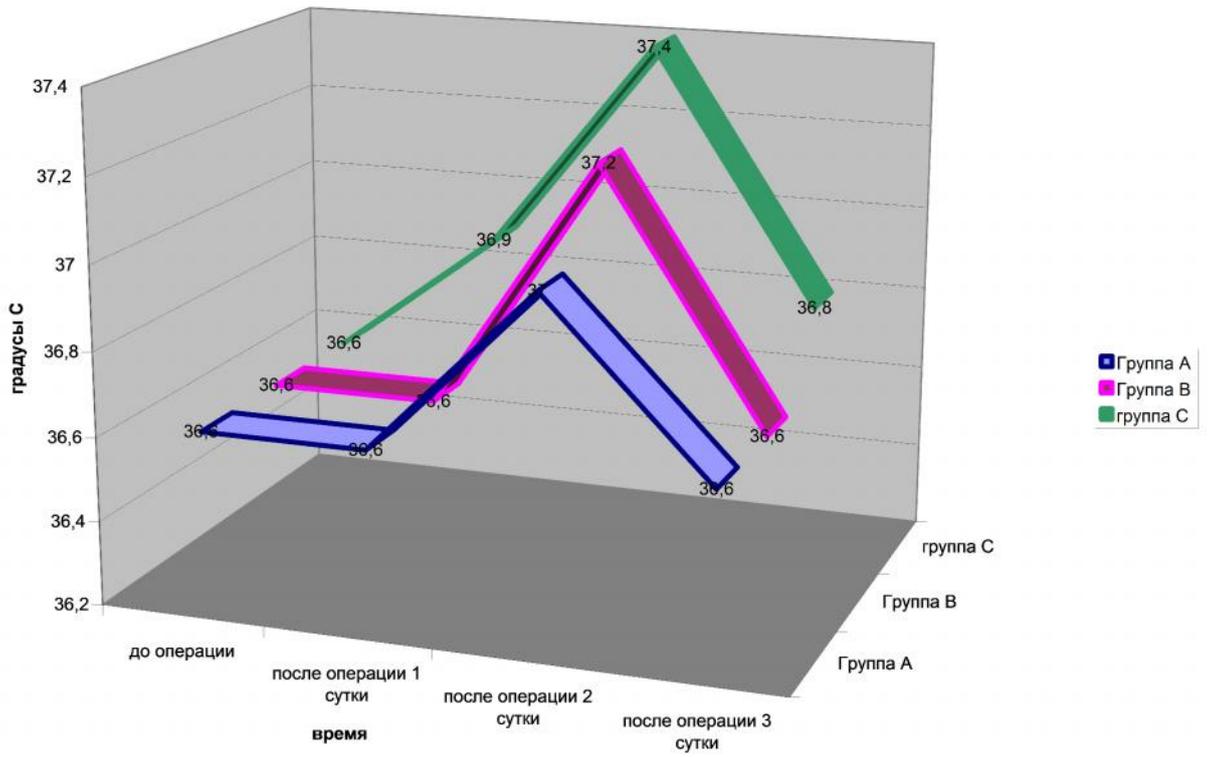
,

3,3±0,9

.

13 –

		(n=40)	(n=18)	(n=44)
	1 >0,05 2 >0,05 3 >0,05	36,6±0,5	36,6±0,6	36,6±0,5
24	1 >0,05 2 <0,05 3 <0,05	36,6±0,9	36,6±0,7	36,9±0,6
48 (2-)	1 <0,05 2 <0,05 3 <0,05	37,0±0,5	37,1±0,9	37,4±0,7
72 (3-)	1 >0,05 2 <0,05 3 <0,05	36,6±0,5	36,6±0,6	36,8±0,8
	1 –	.	.	
	2 –	.	.	
	3 –	.	.	



9 –

(1<0,05; 2<0,05; 3<0,05),

2,2±0,8

1,9±0,8

3,8±0,9

3,3±0,9

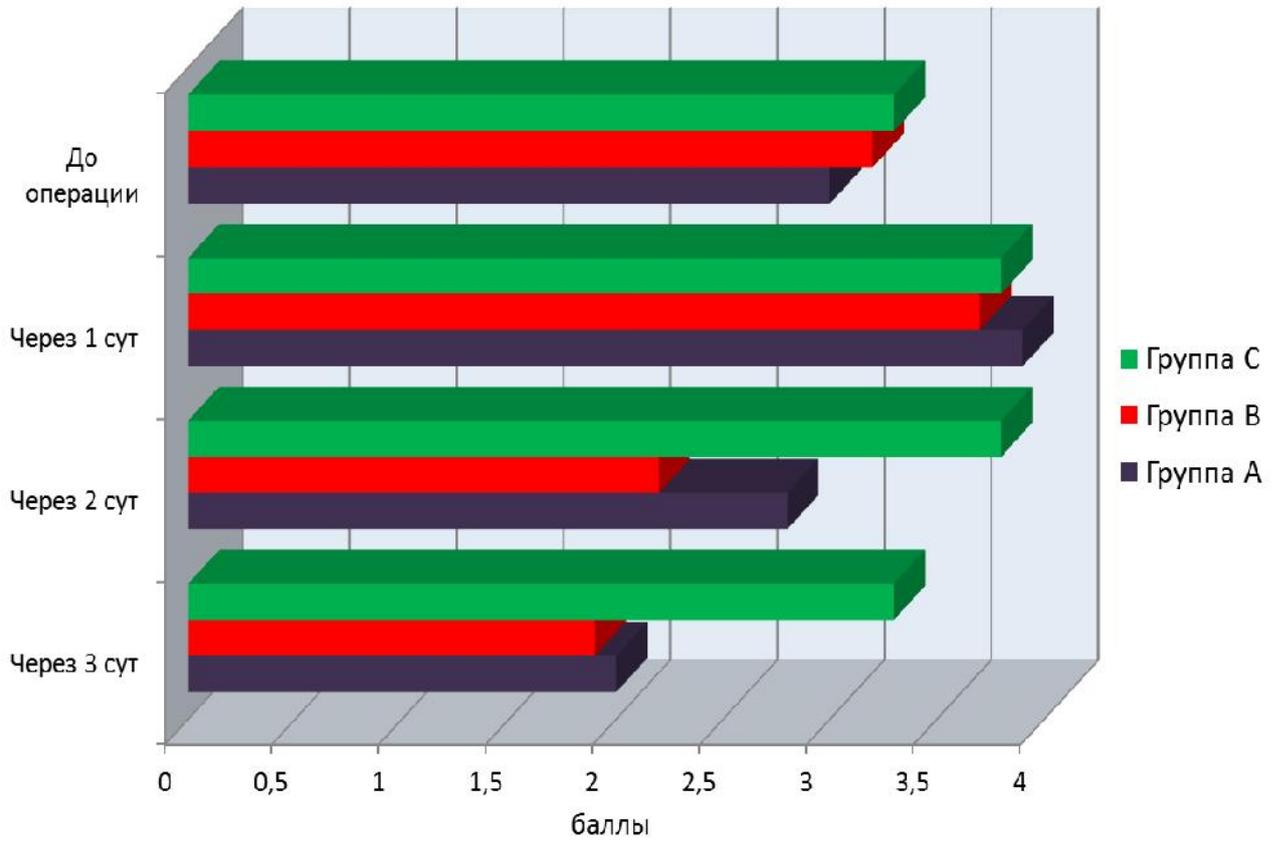
(1<0,05; 2<0,05;

3<0,05).

14.

14 –

		(n=40)	(n=18)	(n=44)
	$1 > 0,05$ $2 > 0,05$ $3 > 0,05$	$3,0 \pm 0,9$	$3,2 \pm 0,8$	$3,3 \pm 0,9$
24	$1 > 0,05$ $2 > 0,05$ $3 > 0,05$	$3,9 \pm 0,6$	$3,7 \pm 0,9$	$3,8 \pm 0,9$
48 (2-)	$1 < 0,05$ $2 < 0,05$ $3 < 0,05$	$2,8 \pm 0,8$	$2,2 \pm 0,8$	$3,8 \pm 0,9$
72 (3-)	$1 < 0,05$ $2 < 0,05$ $3 < 0,05$	$2,0 \pm 0,5$	$1,9 \pm 0,8$	$3,3 \pm 0,9$
1 –	. .			
2 –	. .			
3 –	.			



10 –

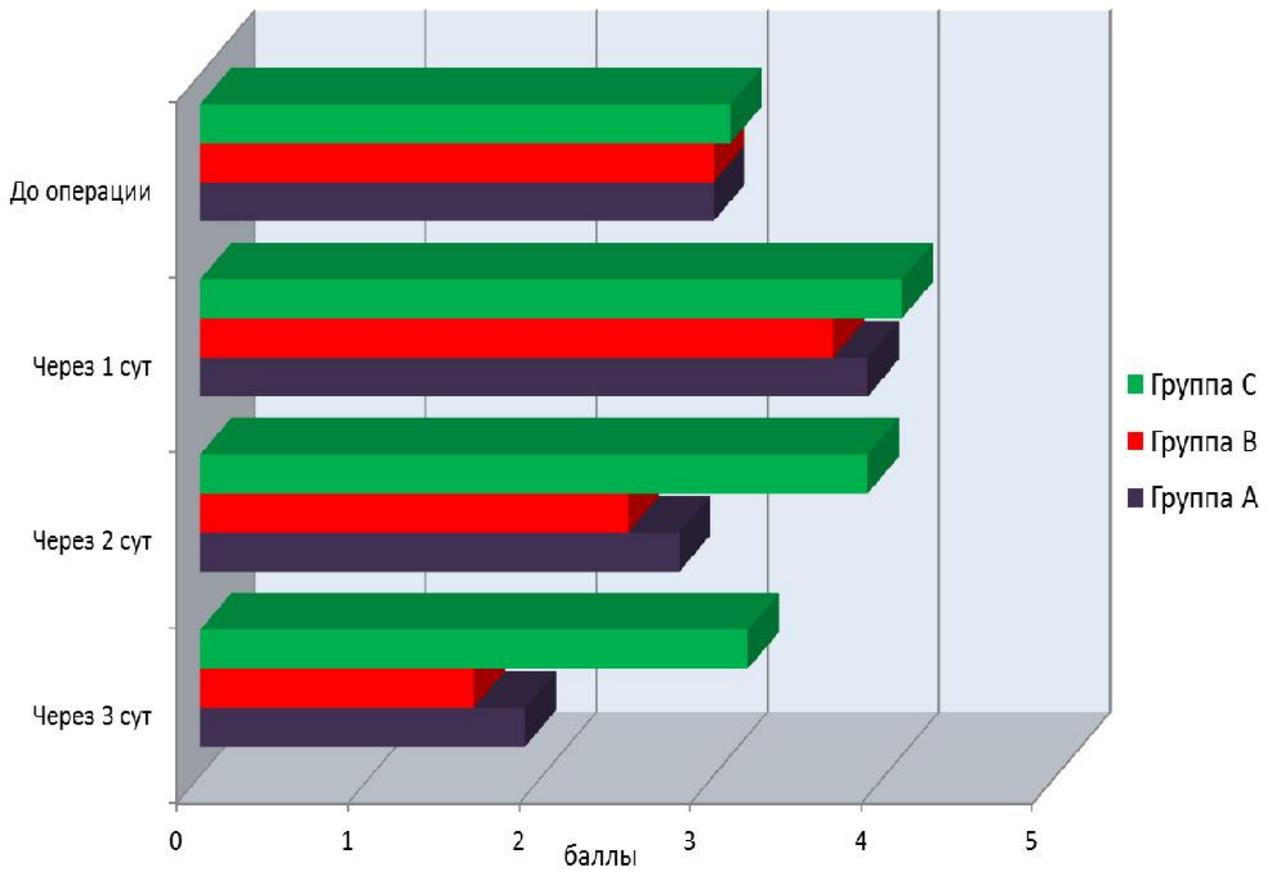
,
 ,
 (, -
 ,)
 ,
 ,
 (1>0,05; 2>0,05; 3>0,05),
 3,0±0,9 , 3,9±0,9 ,
 3,0±0,9 , 3,7±0,9
 , 3,1±0,9 -
 , 4,1±0,9 , -

, $1,9 \pm 0,9$) ($2,5 \pm 0,9$, $1,5 \pm 0,6$) ($1 < 0,05$; $2 < 0,05$; $3 < 0,05$).

15.

15 –

		(n=40)	(n=18)	(n=44)
	$1 > 0,05$ $2 > 0,05$ $3 > 0,05$	$3,0 \pm 0,9$	$3,0 \pm 0,9$	$3,1 \pm 0,9$
24	$1 > 0,05$ $2 > 0,05$ $3 > 0,05$	$3,9 \pm 0,9$	$3,7 \pm 0,9$	$4,1 \pm 0,9$
48 (2-)	$1 < 0,05$ $2 < 0,05$ $3 < 0,05$	$2,8 \pm 0,9$	$2,5 \pm 0,9$	$3,9 \pm 0,9$
72 (3-)	$1 < 0,05$ $2 < 0,05$ $3 < 0,05$	$1,9 \pm 0,9$	$1,6 \pm 0,9$	$3,2 \pm 1$
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(1<0,05; 2<0,05; 3<0,05)

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55,1±11,5 . (1 <0,05 2 <0,05, 3 <0,05).

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	(.)	
(n=40)	34,2±10,2	1 <0,05
(n=18)	48,6±12,6	2 <0,05
(n=44)	55,1±11,5	3 <0,05
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	(Po±m)	(P1±m)	(2±m)			- D	
1	2	3	4	5	6	7	8
	57,1 ±4,68	75,0 ±4,84	12,5 ±5,85	2,141765	<0,05	7	2,43
-	33,89 ±4,47	7,75 ±2,94	100,0	-2,0	<0,05	-11	5,21
« »	76,11 ±4,14	93,25 ±2,12	18,75 ±6,90	4,199173	<0,01	7	2,75
,	93,75 ±2,29	100,0	78,125 ±7,31	2,645751	<0,05	1	1,36

17							
1	2	3	4	5	6	7	8
, -	37,89 ±4,55	80,0±4,47	21,88 ±7,31	2,186571	<0,05	6	1,68
- 180 .	59,82 ±4,63	78,75 ±4,57	12,5 ±5,85	2,395518	<0,05	8	2,65
- 120 .	74,11 ±4,14	96,25 ±2,12	18,75 ±6,90	4,199173	<0,01	7	2,75
50	81,25 ±3,69	97,50 ±1,75	40,63 ±8,68	3,645838	<0,01	4	1,08
- -	37,89 ±4,55	80,0 ±4,47	21,88 ±7,31	2,186571	<0,05	6	1,68
I-II	72,11 ±4,09	87,56 ±3,70	43,75 ±8,77	2,029199	<0,05	3	0,66
II-	37,89 ±4,55	80,0 ±4,47	21,88 ±7,31	2,186571	<0,05	6	1,68
-	57,14 ±4,68	75,0 ±4,84	12,5 ±4,84	2,141765	<0,05	7	0,68

17							
1	2	3	4	5	6	7	8
	84,62±3,39	97,50±1,75	53,13±8,82	3,104613	<0,01	2	0,58
	55,36 ±4,70	73,75 ±4,92	9,38 ±5,15	2,157571	<0,05	9	5,20
-	51,79 ±6,43	28,75 ±9,24	78,13 ±8,11	2,004159	<0,05	-5	0,66
- -	71,43 ±4,27	85,0 ±3,99	37,5 ±8,56	2,039947	<0,05	4	2,43

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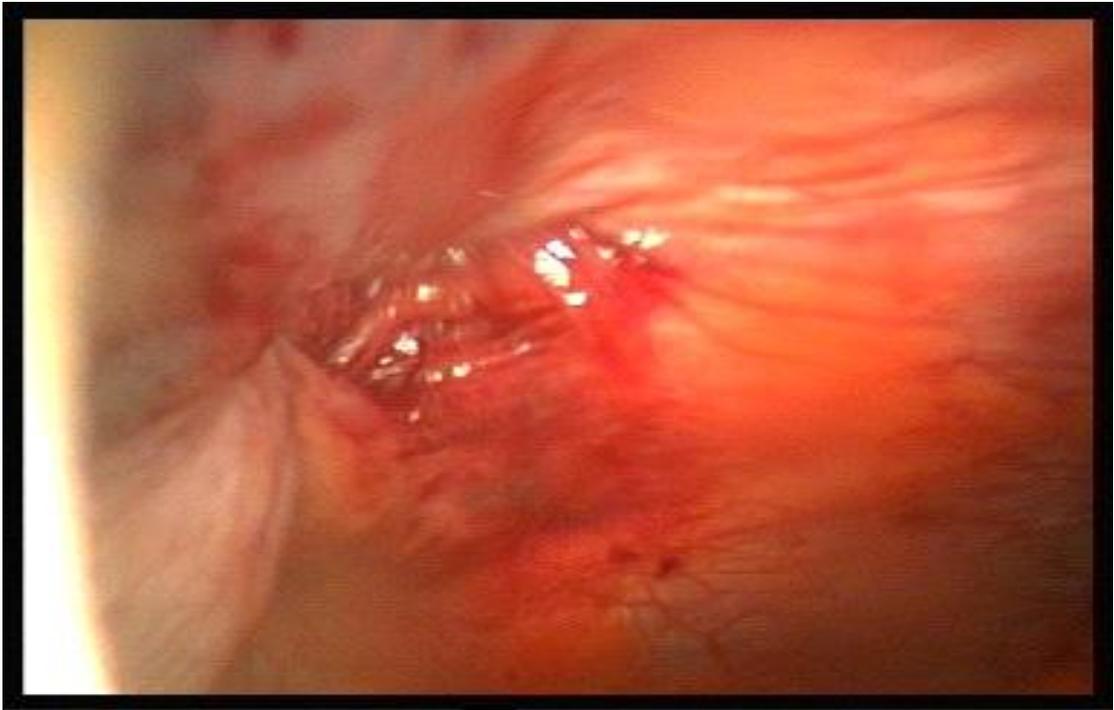
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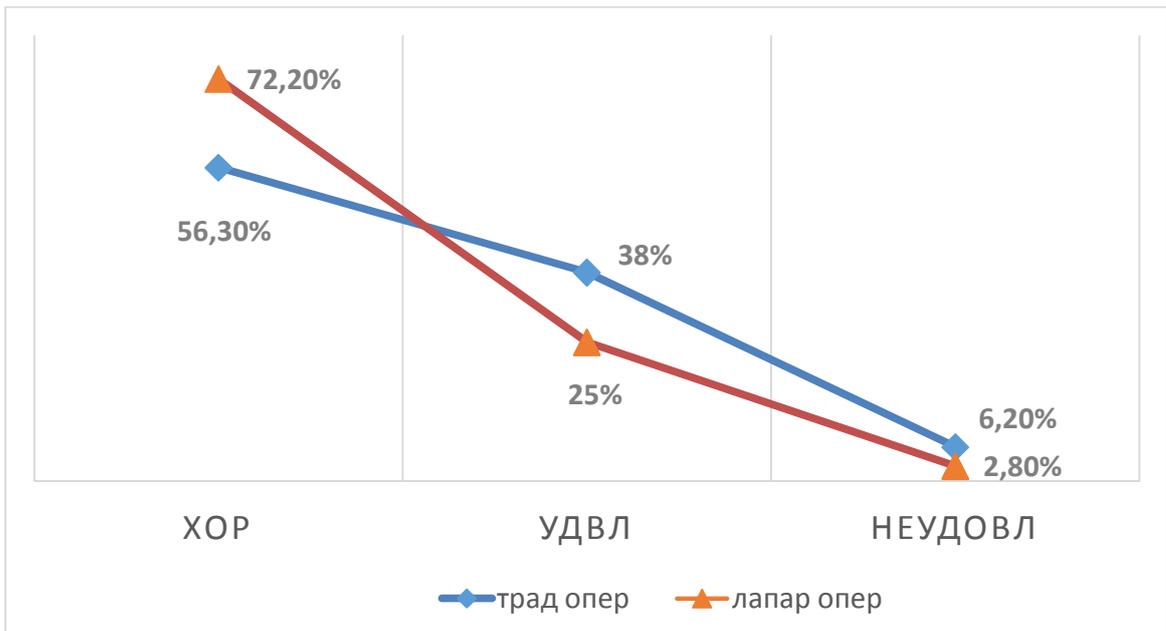
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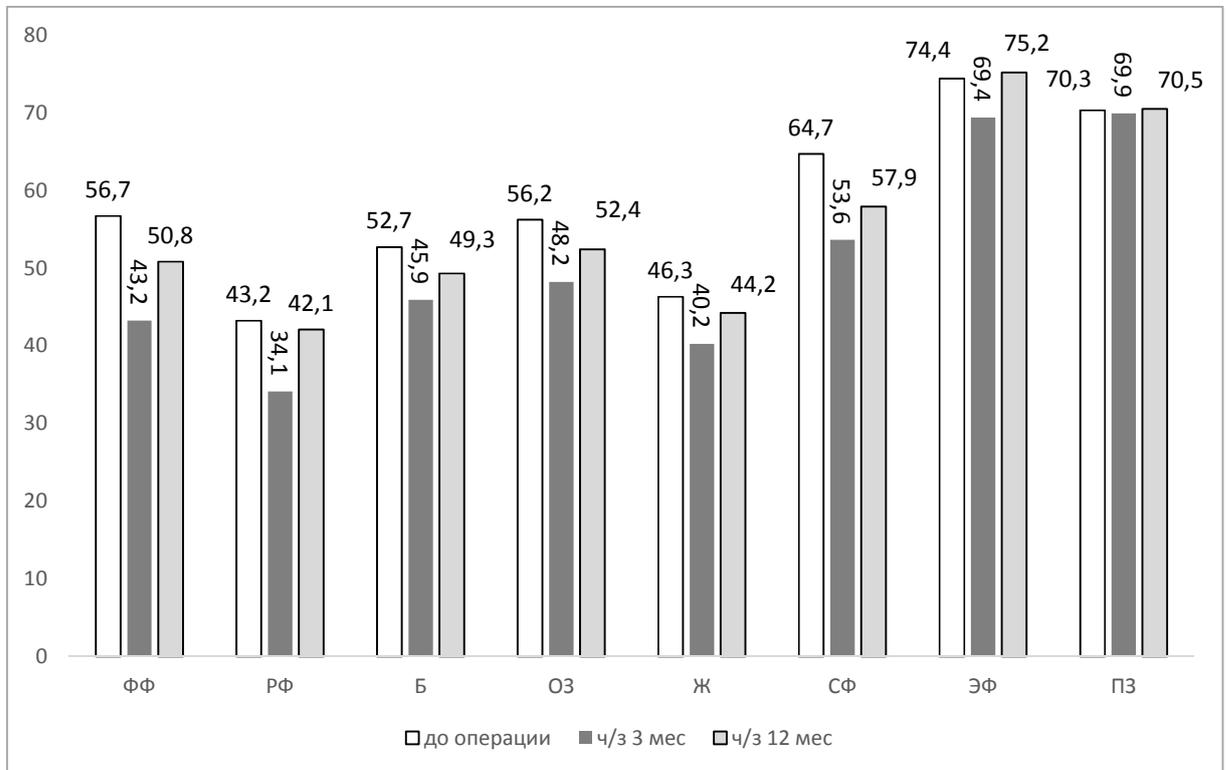
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(PF)	56,7± 8,15	43,2± 4,45	50,8± 6,1	57,3± 7,01	35,4± 5,32	44,7± 5,41
(RP)	43,2± 5,07	34,1± 3,8	42,1± 5,6	41,1± 6,9	25,7± 6,39	33,4± 5,6
()	52,7± 5,20	45,9± 6,02	49,3± 4,78	50,9± 8,04	32,4± 7,2	48,1± 5,03
(GH)	56,2± 4,06	48,2± 3,83	52,4± 5,5	58,2± 5,3	45,6± 5,31	54,1± 4,89
(VT)	46,3± 7,7	40,2± 5,09	44,2± 6,2	48,8± 7,1	40,1± 5,91	46,4± 4,7
(SF)	64,7± 6,45	53,6± 6,01	57,9± 4,2	61,7± 5,40	49,8± 5,91	57,3± 3,21
(RE)	74,4± 8,07	69,4± 5,12	75,2± 6,3	72,9± 7,02	65,2± 6,04	73,1± 7,1
()	70,3± 5,70	69,9± 4,70	70,5± 6,1	72,5± 7,17	66,8± 4,34	69,2± 6,8

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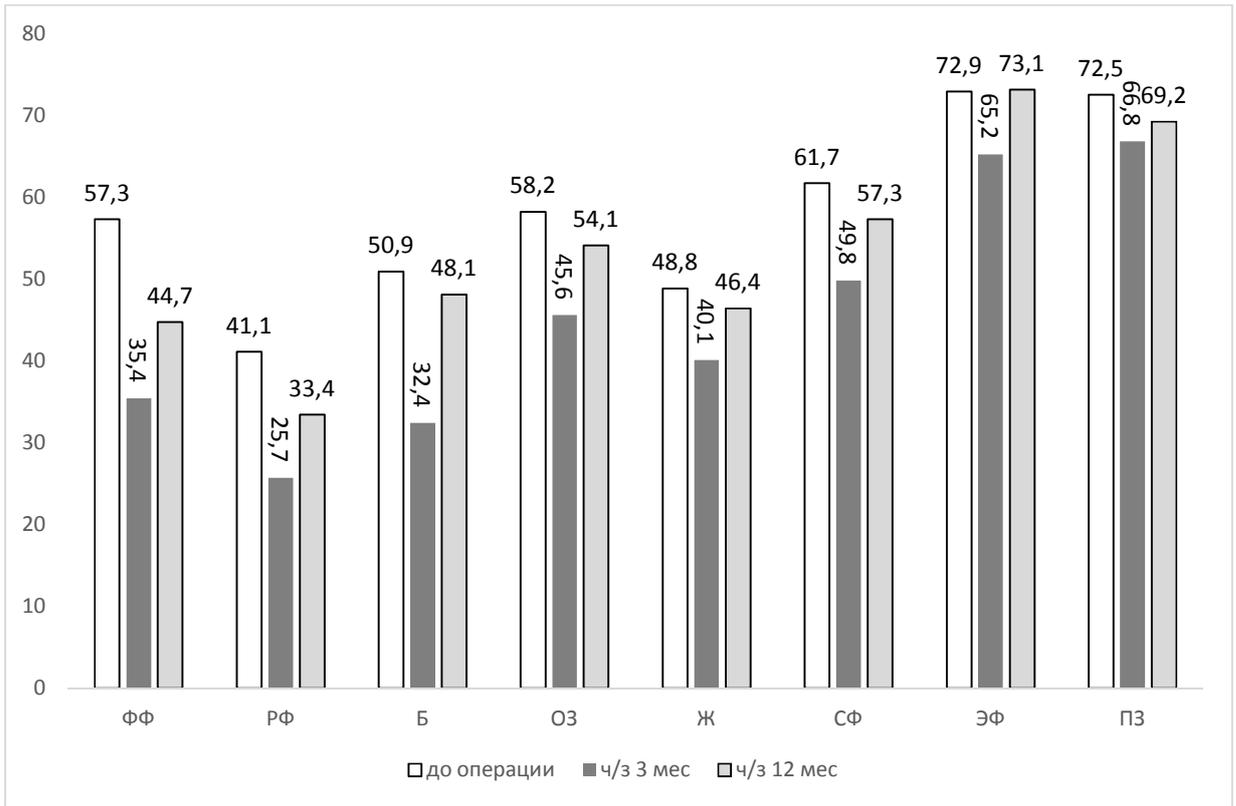
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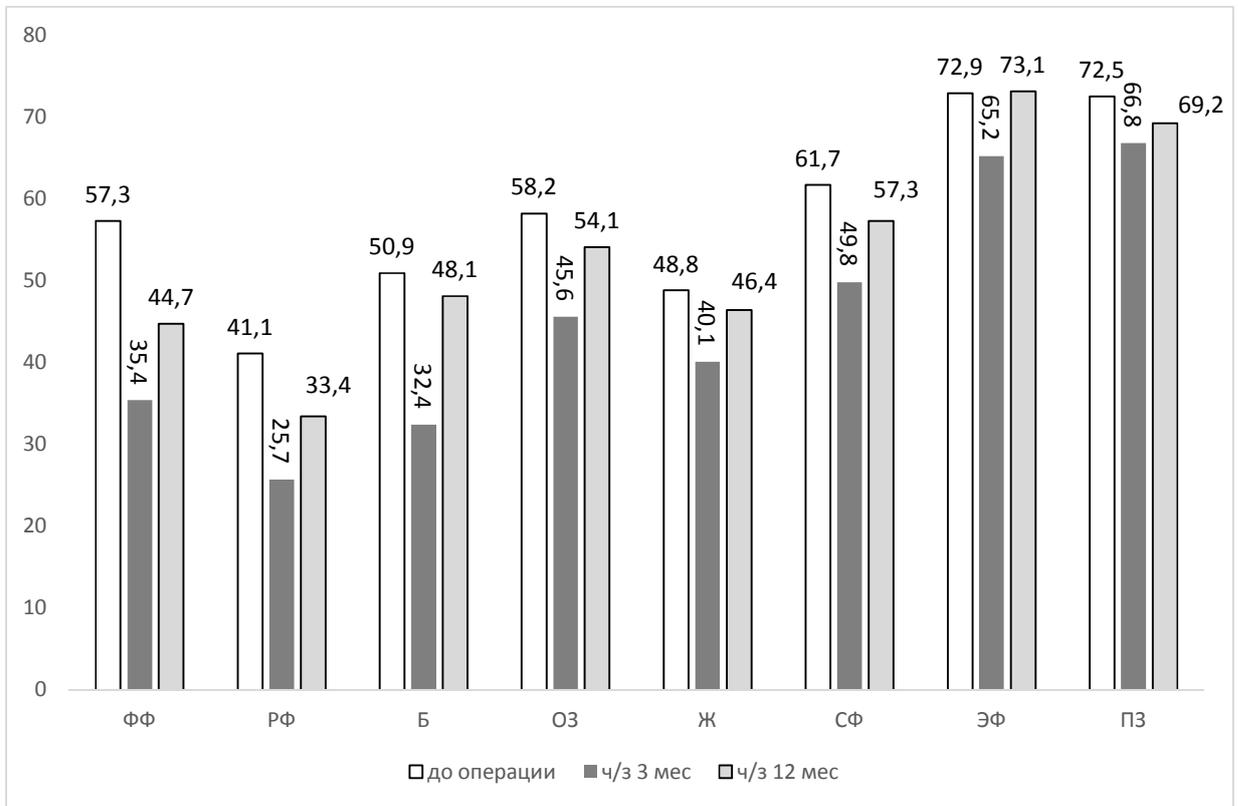
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