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14.01.01 –

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1.	( ).....	8
1.1.	.	8
1.2.	,	10
1.3.	-	19
1.4	.....	25
2.	.....	31
2.1.	-	31
2.2.	.....	31
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,	.....	34
2.3.	-	
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2.4.	-	40
	,	42
3.	-	
	-	
	.....	44
4.		
2	.....	47

5.		-
	.....	64
6.		-
	8	75
	.....	98
	.....	112
	.....	114
	.....	115
	.....	117

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 26 63,1%,  
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 [35, 55].

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 ( ) [46, 136].

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65, 88, 123].

[3,

[10, 123].

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( 2686437 18.07.18 ).

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( 4 25.12.2017).

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132

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**1.1.**

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[11, 21, 57, 98, 127].

[8, 33, 39, 47, 56, 141].

26 63,1% [35, 55, 79].

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. 18%

[48, 63].

,

104, 105].

[18, 20, 42, 62, 71, 93,

« »

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[137].

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[64, 68, 112].

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[71].

, , -  
 , -  
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 ( ), 2- , -  
 [13, 40, 46, 76, 77, 81, 128]. -

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 , , -  
 - , -  
 [6, 18, 98, 119]. -  
 , -  
 [14, 43, 52, 90, 92]. -

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 28 , -  
 1-, 3- 5- ( -  
 , , ) -  
 , . -

[22, 34, 36, 61, 67, 100, 140].

## 1.2.

: , -  
 , -  
 , ,  
 [28, 57, 59, 130].  
 - ,  
 [27, 122].  
 , -  
 , 5236 -  
 M. Gyhagen et al. – 20 -  
 14,6% -  
 6,3% ,  
 , -  
 , -  
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 , -  
 , -  
 4000 [116].  
 Kepenecki, 4000  
 ,  
 50,7%. -  
 – 15 86 , 41 .  
 , -  
 [118]. Quiboef  
 et al. 4 24 -

1643

50%

[137].

Brubaker et al.,

1011

5 10

[108].

[Liebergall-Wischnitzer](#) et al.

323

20

50

35,3

ICIQ

[124].

MacArthur C. et al.

7879

3

12

. 37,9%

12

, 76,4%

3

12

[139].

Troko J et al.

18

1976

2016

[103, 121, 138].

[1, 14, 17, 31, 44].

45 [23].

2-3%,  
17-20%.

[7, 35, 50].

Brown S. et al.

1507

4-12

m. sphincter ani. 17%

[87].

Makhoul J. et al.

3006

18 35

6

3

(0,4 0,9%).

[135].



[2, 28, 107].

( ), -

[144].

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15%

20%

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1 5

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[40, 46, 108, 131].

2015

Khajehei M.

t al.

325

12

. 64,3%

70,5%.

(81,2%),

(53,5%)

(52,5%).

(9

).

5

[117].

81 , 150 69 , -

Female Sexual Function Index (FFSI)

19 3 6 .  
 0 6 . 30%  
 38% , 68 59% 2 . 3%  
 2%  
 6 ,

[131].

A.O. Yeniél, E. Petri. 20 2014  
 1960 2012  
 100

2-6

6



WHOQOL bref questionnaire, -

EPDS. 420 16

35 . 8

[74].

66 , ,

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- , , 2- -

[142].

, 4245 ,, , 37%

, : , ,

, 53% -

. 29% , -

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[102].

Mac rthur et al.,

7879 , 6%

12 , 43%

3 , ,

12 . , -

SF 12. , -

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[86].

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, , -

[97].

Wen Yung Li et al.

1456

10

11,2%

6,9%

HRQol utility score,

[133].

2014

Ahangari A.

140

7

Ahangari A.

5,7–26,6%.

[58].

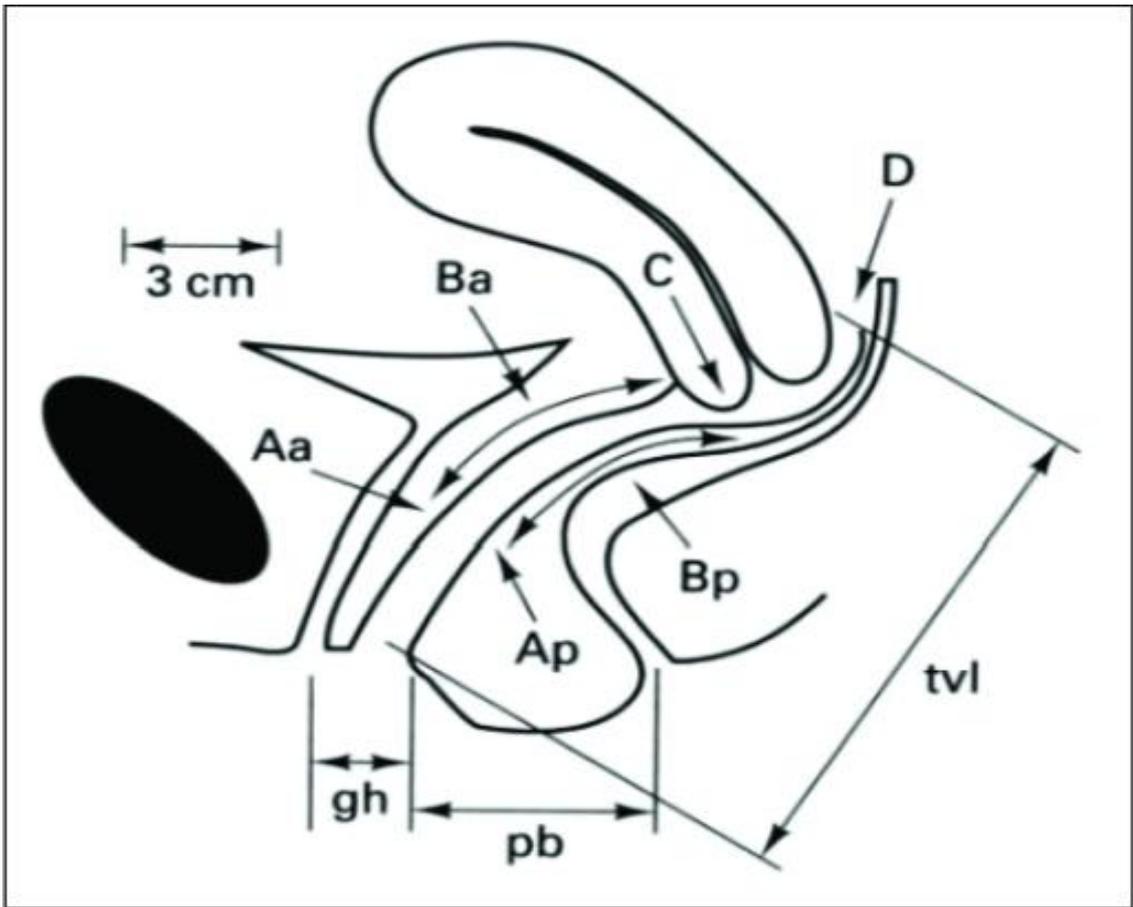
[12, 24, 34, 41, 54].

1.3.

,  
 (Pelvic Organ Prolapse Quantification – POP-  
 Q).

International Continence Society (ICS), American Urogynecologic Society  
 (AUS), Society of Gynecologic Surgeons (SGS).

9 .  
 , -  
 ( ).  
 - ,  
 . 6 ( , , , , D)  
 . 3 (TVL, GH, PB)  
 ( ) , « », ( -  
 ) – « ».  
 , ( 1) [19].



1 -

POP-Q

1 -

POP-Q

0	
1	1
2	1
3	1 , 2 -
4	1 , 2

[30].

[16, 44].

[29, 44, 94].

( ).



[69].

PFDI-20 (Pelvic Floor Distress Inventory) PFIQ-7 (Pelvic Floor Impact Questionnaire).

ISIQ-SF (International Conference on Incontinence Questionnaire Short Form) –

, UDI-6.

PISQ-12 (Pelvic Organ Prolapse/Urinary Incontinence Sexual Questionnaire), FFSI (Female Sexual Function Index) [53].

Mc Gill Pain Questionnaire,

(numeric rating scale) ( ),

(visual analog scale)

( ),

( ) ( )

(verbal log scale).

0 10, 0

« », 10 – «

».

0 10 ( )

100 ,

( )

: « », « », « », « »

», « », « ».

1.4.

. 30% , ,  
 . 85,5% -  
 : - 70,1% , -  
 - 36,5%, - 53,3% [28, 51, 101].  
 , ,  
 « » ,  
 , -  
 , , -  
 , [46].  
 -  
 .  
 , , -  
 , -  
 .  
 , .  
 , [49, 82].

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 .  
 [9].  
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 45 ,  
 [10, 37, 82].  
 Kari Bo  
 ∴  
 , , [84]. 2012  
 Bø K. 22 .  
 ,  
 8 ,  
 Bø K. ,  
 ,  
 [66]. 2013  
 175 .  
 29,8 . m. levator ani 3D  
 6–8 ,  
 4 .  
 3 8–12  
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, Bø K.

[114].

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52

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[78, 95, 109].

- Harvey M.

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, 38–61%

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, 34% de novo

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10–16%.

, 22%

, 88%

1. , :

2. 3 .

3. , .

4. , -

[15, 70, 85].

2015

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[113].

2014 -

PREVPROL.

447 , . -

POP-SS. 12 1-3 ,

46,6 ,

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16 -

12 1 -

2 POP-SS

1 , -

1,5 - -

POP-SS

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QALY -

[111].

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2011 . 4

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[91, 143].

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01.11.2012 572- «

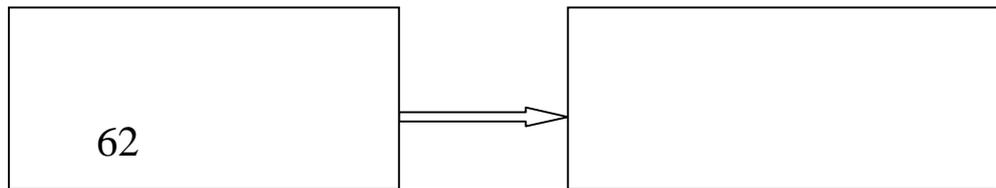
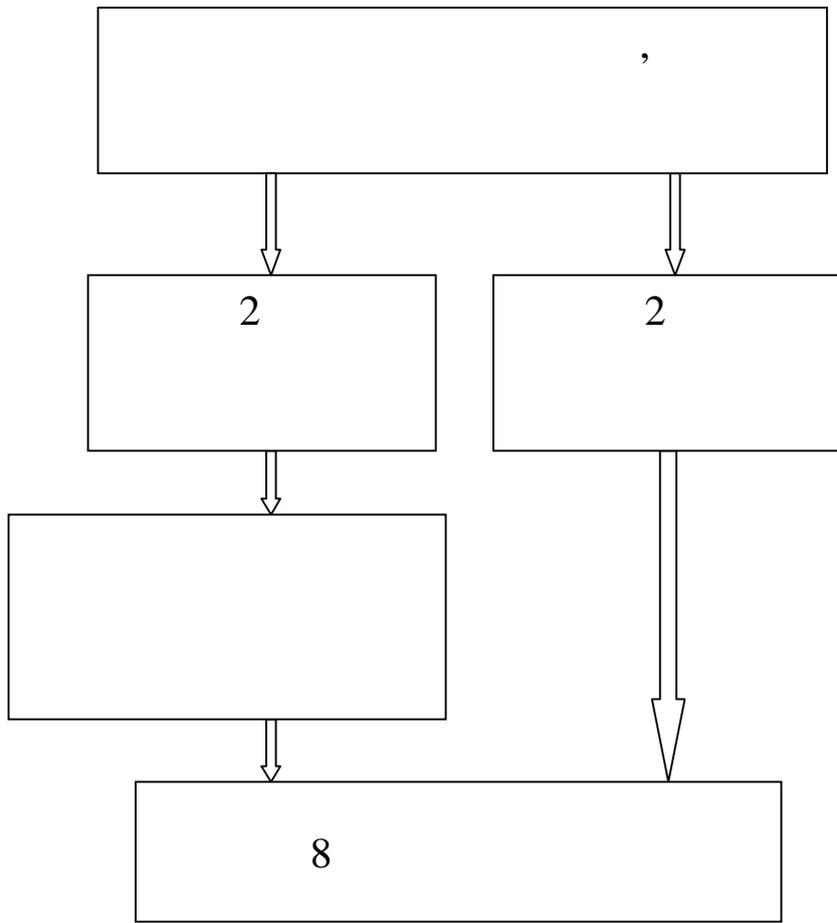
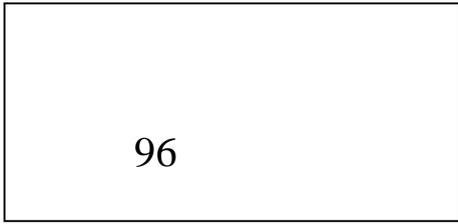
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POP-Q.

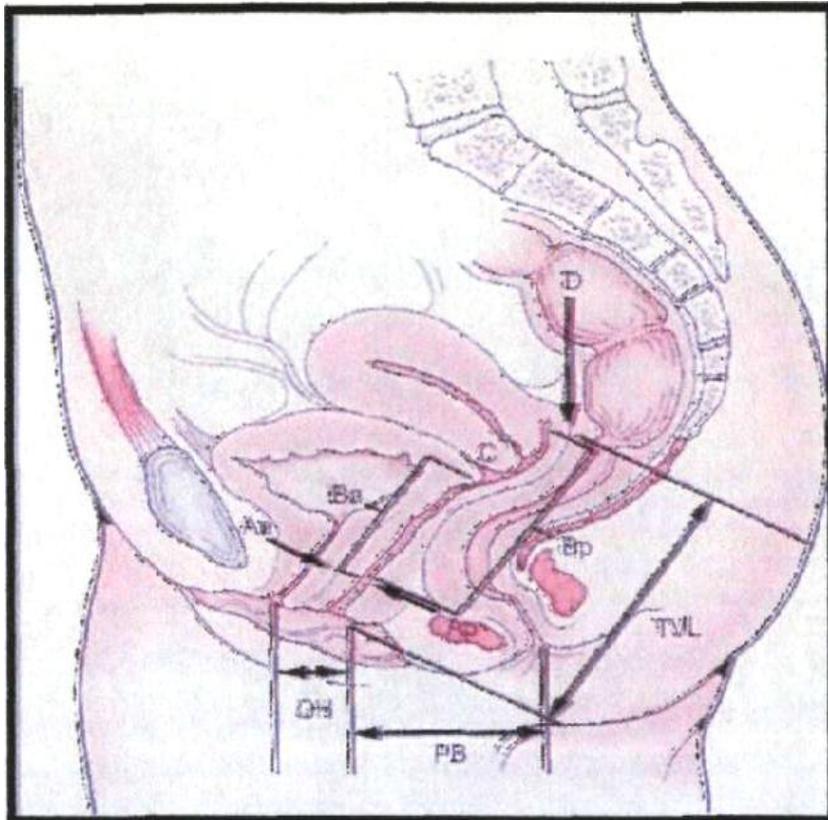
2

( ) , Bp,

D)

( ) .

( 3).



3 -

POP-Q

(Pelvic Organ Prolapse Quantification)

TVL, GH PB

. TVL – , GH – , PB –

. : ( ),

( ) ( Bp).

POP-Q : – ;

, , , Bp – 3 ; D .

I –

1 ( >1 ). II –

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III –

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, (TVL) 2 . IV –

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2.2.

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1,5<sup>3</sup> ( 4).



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, . uterina, a. vesicalis inferior a. pudenda interna.  
a.rectalis media,

1- , -

2- , -

LAKK 2-20.

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- ( ).

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Kv -

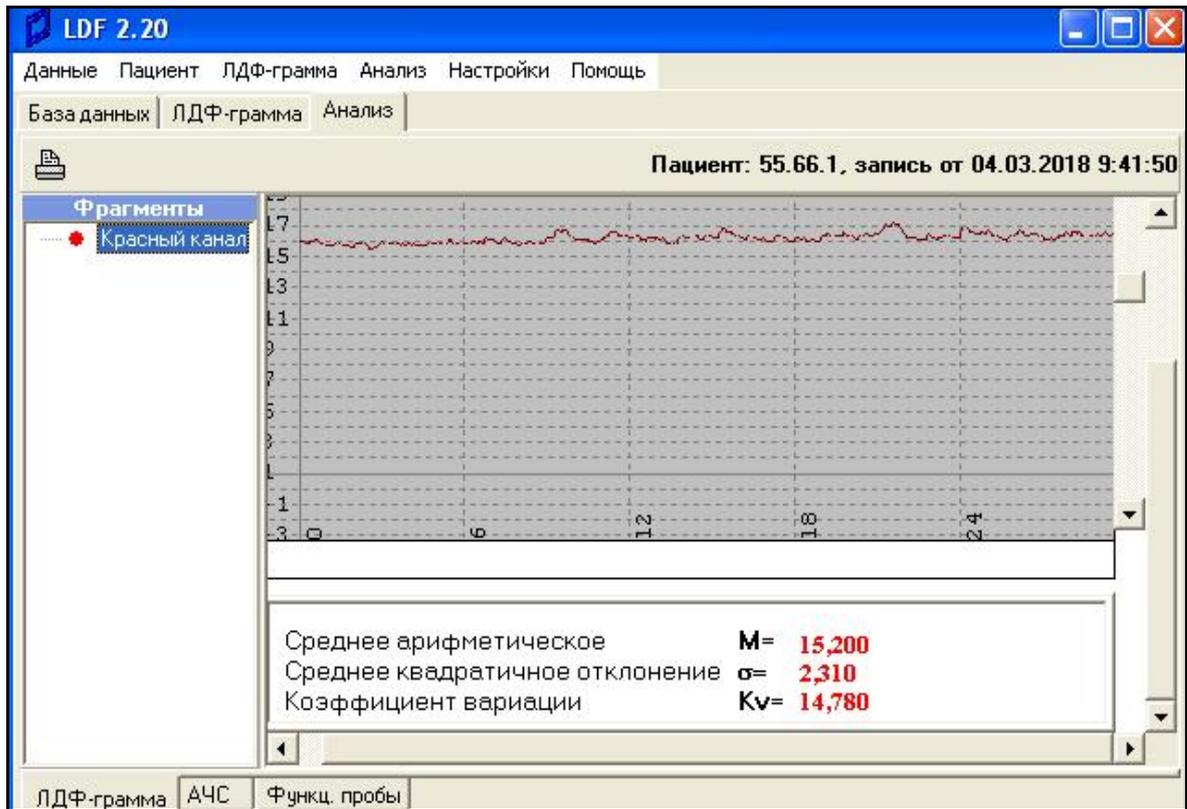
(1).

$$v = / \times 100\%.$$

(1)

v,

% ( 5).



5 –

$Kv - \frac{\sigma}{M} \times 100\%$

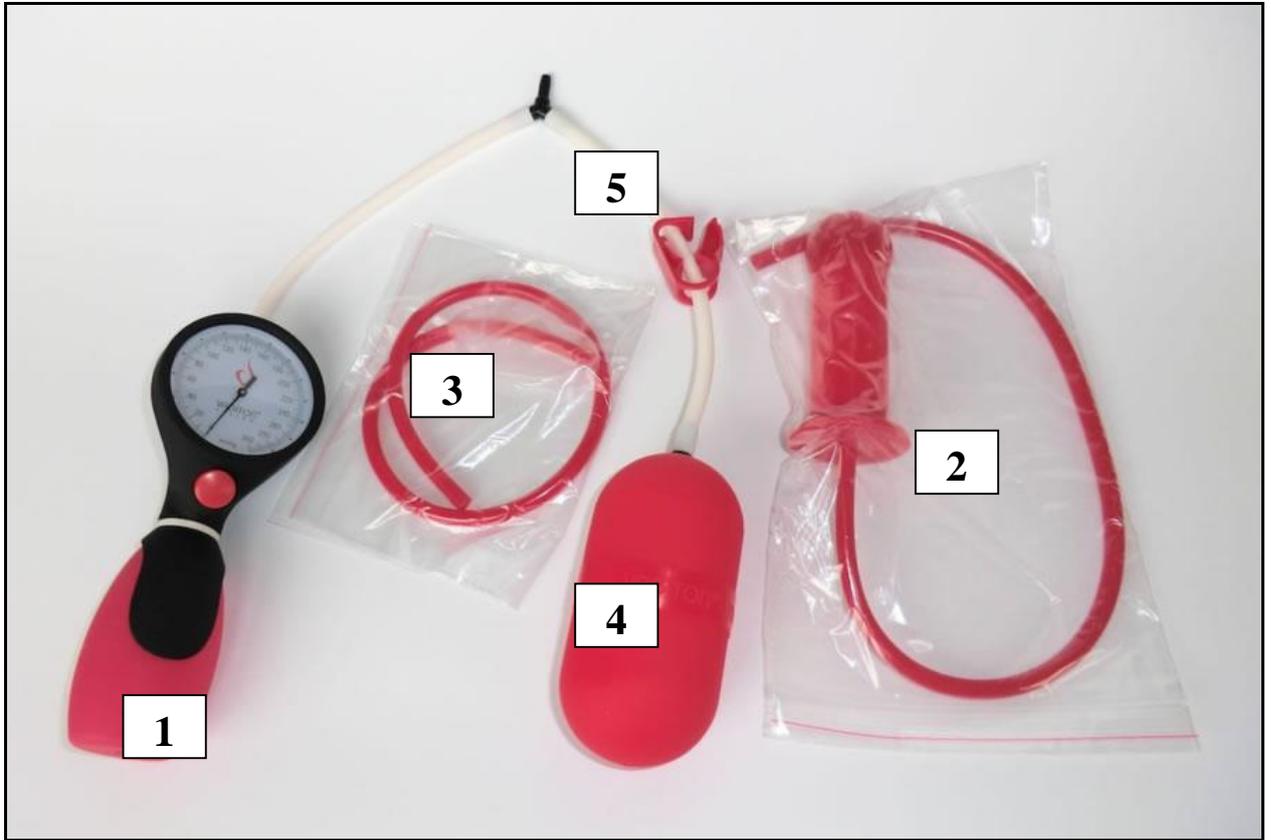
LAKK 2-20, 0,001,

Excel (MS Office windows 7),

Excel.

Vagiton pneumo.

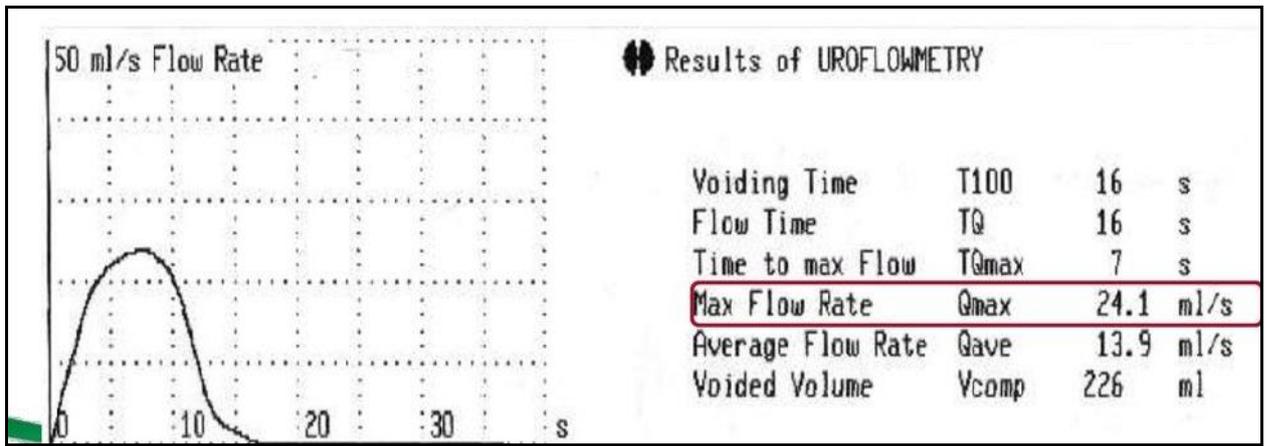
35/30 ), ( - 35 ), -  
 , (0-300 mmHg), ,  
 ( 6).



6 – Vagiton pneumo,  
 1 – , 2 – ,  
 3 – , 4 – , 5 – ,

Vagiton pneumo.

,  
 «Logiq 3 PRO» GE ( )  
 5,0–8,0  
 -  
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 ( . . . , 2003). ,  
 2,7 , -  
 0,98 ,  
 54–110°. -  
 Excel (MS  
 Office Windows 7).  
 ( ) -  
 . -  
 «Wiest Jupiter-8000 video» ( ).  
 150,0 300,0  
 . -  
 . -  
 .  
 3 : Q -  
 , Qmax, -  
 , Vcomp - , -  
 ( 7).



7 –

Q – , Qmax, –

, Vcomp –

Excel

(MS Office windows 7).

### 2.3

ICIQ – SF (International Conference on Incontinence Questionnaire-Short Form).

## Female Sexual Function Index (FSFI).

( 8).

	0	1	2	3	4	5	6	7	8	9	10
Описание степени боли с помощью слов	Боль отсутствует		Легкая боль		Умеренная боль		Умеренная боль		Сильная боль		Непереносимая боль
Шкала лиц Вонга—Бэкера											
Шкала переносимости боли	Боль отсутствует		Боль можно игнорировать		Боль мешает деятельности		Боль мешает концентрироваться		Боль мешает основным потребностям		Необходим постельный режим

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0 10

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Windows 7

“Statistica 6.0” “IBM

SPSS Statistics 20”.

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8 , -  
6 , .  
, 1 ,  
96 .

33 - , 1- -  
., 2- -  
- 32 ., 3- - ,  
- 31 .  
93 .

3 : 1- -  
- 31 ., 2- -  
31 ., 3- - ,

– 31 .

62

,

19 37 .

-

– 27,33±4,37 ,

– 26,33±4,05 ,

– 27,00±4,72 ( <0,05).

-

58 82 .

-

– 64,0±5,70 ,

– 63,33±5,65 ,

– 64,00±6,02 ( <0,05).

-

2500 4100 .

-

– 3341,67±343,01 ,

– 3266,67±40,60

( <0,05).

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38–

40 . 3-

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POP-Q,

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POP-Q 0–2 ,

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Vagiton pneumo.

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Vagiton pneumo

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10 , 20 -

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3. 7-, 8-, 9- -

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70-80 . ., -

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7 10 , -

5, 20 9- .

4. 10- -

, , 20 -

, 9- , -

, - -



4

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62  
POP-Q 0-2

2

( ) - 19,644±0,643 . . , ( ) -  
 21,068±0,960 . . ( )  
 - 3,280±0,349 . . ( ) -  
 3,697±0,324 . . Kv (Kv ) -  
 16,735±0,020%, Kv (Kv ) - 17,967±0,010% (p<0,001).

189

2 :

96

3 : 1-

( 33 ), 2-

32 ), 3-

( 31 ).

93

3

: 1-

( 31 ), 2- - ( - 31 ), 3- -  
 - , -  
 ( 31 ).

1- ( ) -

: ( ) - 12,442±0,528 . ., ( ) -  
 13,812±0,731 . . ( )  
 - 1,525±0,237 . . ( ) -  
 1,795±0,155 . . Kv (Kv ) -  
 12,283±0,019%, Kv (Kv ) - 13,041±0,013%.

2- ( ) -

: ( ) - 14,456±0,659 . ., ( ) -  
 15,728±0,612 . . ( )  
 - 1,948±0,155 . . ( ) -  
 2,187±0,128 . . Kv (Kv ) -  
 13,483±0,011%, Kv (Kv ) - 13,924±0,009%.

3- ( , ) :

( ) - 16,971±0,503 . ., ( ) -  
 17,794±0,543 . . ( )  
 - 2,49±0,294 . . ( ) -  
 2,735±0,162 . . Kv (Kv ) -  
 14,694±0,018%, Kv (Kv ) - 15,374±0,008% ( 2).

2 –

(p<0,001)

	1-	2-	3-	(n=62)
	(n= 33)	(n=32)	(n=31)	
, . .	12,442±0,528	14,456±0,659	16,971±0,503	19,644±0,643
, . .	1,525±0,237	1,948±0,155	2,490±0,294	3,208±0,349
Kv , %	12,283±0,019	13,483±0,011	14,694±0,018	16,735±0,020
, . .	13,812±0,731	15,728±0,612	17,794±0,543	21,068±0,960
, . .	1,795±0,155	2,187±0,128	2,735±0,162	3,697±0,324
Kv , %	13,041±0,013	13,924±0,009	15,374±0,008	17,967±0,010

: – , – .

1- ( ) :  
 ( ) – 12,445±0,534 . ., ( ) –  
 13,584±0,620 . . ( )  
 – 1,6±0,131 . . ( ) –  
 1,811±0,126 . . Kv (Kv ) –  
 12,873±0,011%, Kv (Kv ) – 13,364±0,011%.

2- ( ) :  
 ( ) – 14,287±0,835 . ., ( ) –  
 15,606±0,855 . . ( )  
 – 1,952±0,167 . . ( ) –  
 2,173±0,118 . . Kv (Kv ) –  
 13,731±0,016%, Kv (Kv ) – 13,954±0,010%.

3- ( , ) : -

( ) - 16,894±0,548 . . , ( ) -  
 17,739±0,426 . . ( )  
 - 2,429±0,247 . . ( ) -  
 2,78±0,156 . . Kv (Kv ) -  
 14,411±0,016%, Kv (Kv ) - 15,671±0,009% ( 3).

3 -

(p<0,001)

	1- (n=31)	2- (n=31)	3- (n=31)	(n=62)
, . .	12,445±0,534	14,287±0,835	16,894±0,548	19,644±0,643
, . .	1,600±0,131	1,952±0,167	2,429±0,247	3,280±0,349
Kv , %	12,873±0,011	13,731±0,016	14,411±0,016	16,735±0,020
, . .	13,584±0,620	15,606±0,855	17,739±0,426	21,068±0,960
, . .	1,811±0,126	2,173±0,118	2,78±0,156	3,697±0,324
Kv , %	13,364±0,011	13,954±0,010	15,671±0,009	17,967±0,010

: - ; - .

(p<0,001).

1-

(p<0,001).

1-

(p<0,001).

2-

(p<0,001).

1-

2-

2-

(p<0,001).

3-

(p<0,001).

3-

62 , POP-Q 0-2 , . : F= 63,24±1,30 . . , POP-Q = 0,05±0,22 . 1- ( ) : F= 42,67±2,10 . . , POP-Q = 1,27±0,63 . 2- ( ) : F= 46,84±2,08 . . , POP-Q = 1,06±0,54 . 3- ( , ) : F= 60,16±1,79 . . , POP-Q = 0,90±0,75 - ( 4).

4 – c POP-Q (p<0,001)

				, (n=62)
	1- (n=33)	2- (n=32)	3- (n=31)	
POP-Q,	1,27±0,63	1,06±0,54	0,9±0,75	0,05±0,22
F	42,67±2,10	46,84±2,08	60,16±1,79	63,24±1,30

1- ( ) : -  
 ) : F= 41,00±2,10 . , POP-Q =  
 1,23±0,60 .  
 2- ( ) :  
 ) : F= 48,19±2,34 . , POP-Q=0,98 ±0,65 .  
 3- ( , ) :  
 ) : F=60,16±1,79 . , POP-Q = 0,90±0,75 -  
 ( 5).

5 – c POP-Q  
 (p<0,001)

				, (n=62)
	1- (n=31)	2- (n=31)	3- , (n=31)	
POP-Q,	1,23±0,60	0,98±0,65	0,90±0,75	0,05±0,22
F	41,00±2,10	48,19±2,34	60,16±1,79	63,24±1,30

. 1- POP-Q -  
 , , -  
 , (p<0,001). -

.  
 F, POP-Q  
 , (p<0,001).  
 ,  
 ,  
 2-  
 , ,  
 (p<0,001).  
 , POP-Q  
 ,  
 (p<0,001).  
 2-  
 2-  
 ,  
 (p<0,001).  
 ,  
 3-  
 ,  
 POP-Q  
 POP-Q  
 ,  
 (p<0,001).

3-

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 :  
 0,08±0,27 , 2,90±0,12 .,  
 0,84±0,09 ,  
 87,10±16,46° .  
 .  
 1 ( )  
 )  
 : 2,33±2,75 -  
 , 2,53±0,57 .,  
 0,97±0,17 , 95,91±20,71°.  
 2- ( )  
 )  
 1,00±1,08 -  
 , 2,84±0,18 ,  
 0,91±0,10 , 91,88±17,72°.  
 3- ( , ) :  
 )  
 0,42±0,76 ,  
 2,83±0,22 .,  
 0,87±0,11 , 89,68±16,83°( 6).  
 1- ( ) :  
 )  
 2,56±2,54 ,  
 2,56±0,42 ,  
 1,00±0,19 , 99,03±19,30°.

6 -

,

(p&lt;0,05)

				-
	1- (n=33)	2- (n=32)	3- (n=31)	
-	2,33±2,75	1,00±1,08	0,42±0,76	0,08±0,27
,	2,53±0,57	2,84±0,18	2,83±0,22	2,90±0,12
-	0,97±0,17	0,91±0,10	0,87±0,11	0,84±0,09
,	95,91±20,71	91,88±17,72	89,68±16,83	87,1±16,46

2-

(

)

:

1,03±1,28

,

2,70±0,36 ,

93,00±0,11 ,

93,39±17,10°.

3-

(

,

)

:

-

0,45±0,72

,

-

2,81±0,12 .,

0,88±0,17 ,

92,42±16,73°( 7).

7 –

(p&lt;0,05)

	1- (n=31)	2- (n=31)	3- (n=31)	(n=62)
- - ,	2,56±2,54	1,03±1,28	0,45±0,72	0,08±0,27
- ,	2,56±0,42	2,70±0,36	2,81±0,12	2,90±0,12
- ,	0,97±0,19	0,93±0,11	0,88±0,17	0,84±0,09
° ,	99,03±19,30	93,39±17,10	92,42±16,73	87,10±16,46

(p&lt;0,05).

Q –

, Qmax –

20 / , Vcomp –

200–600 .

: TQ –

16,24±0,86 ; Qmax – 26,52±2,36 / ; Vcomp – 257,82±23,15 .

: – 94,6%,

1% , – 2,3% ,

– 2,1% .

1- (

)

: TQ – 13,38±2,43 ; Qmax – 35,82±7,99 / ; Vcomp – 294,21±48,08 .

: – 21,6%,

11,3% , – 10,9% ,

5,4% , – 50,8% .

2- (

)

: TQ – 14,87±1,40 ; Qmax – 32,19±5,78 / ; Vcomp – 273,75±23,66 .

: – 42,6%,

5,3% , – 5,9% ,

1,4% , – 44,8% .

3- ( , ) :  
 TQ –  $15,47 \pm 1,11$  , Qmax –  $28,39 \pm 3,89$  / , Vcomp –  $270,48 \pm 31,05$  .

: – 67,3%,  
 1,3% , – 1,9% , –  
 2,4% , – 24,7% .

8 – -  
 (  $<0,05$  )

	1- , (n=33)	2- , (n=32)	3- , (n=31)	(n=62)
	TQ,	$13,38 \pm 2,43$	$14,87 \pm 1,40$	$15,47 \pm 1,11$
Qmax, /	$35,82 \pm 7,99$	$32,19 \pm 5,78$	$28,39 \pm 3,89$	$26,52 \pm 2,36$
Vcomp,	$294,21 \pm 48,08$	$273,75 \pm 23,66$	$270,48 \pm 31,05$	$257,82 \pm 23,15$

1- ( ) :  
 TQ –  $13,24 \pm 2,16$  ; Qmax –  $35,74 \pm 7,48$  / ; Vcomp –  $292,90 \pm 49,49$  .

: – 23,6%,  
 10,8% , – 9,5% , –  
 6,4% , – 49,7% .

2- ( ) :  
 TQ –  $14,80 \pm 1,17$  , Qmax –  $32,16 \pm 5,09$  / , Vcomp –  $271,29 \pm 19,58$  .

: – 42,1%,  
 4,3% , – 6,9% ,  
 1% , – 45,7% .  
 3- ( ,  
 ) :  
 TQ – 15,34±1,15 , Qmax – 28,61±3,83 / , Vcomp – 275,8±30,74 .

: – 67,4%,  
 2,3% , – 1,6% ,  
 1,8% , – 26,9% .

9 –  
 ( <0,05)

	1- ,	2- ,	3- ,	, (n=62)
	(n=31)	(n=31)	(n=31)	
TQ,	13,24±2,16	14,80±1,17	15,34±1,15	16,24±0,86
Qmax, /	35,74±7,48	32,16±5,09	28,61±3,83	26,52±2,36
Vcomp,	292,90±49,49	271,29±19,58	275,80±30,74	257,82±23,15

3-  
 (TQ),  
 (Qmax), (p<0,05).



2- ( ) :  
 $-0,16 \pm 0,37$  ,  
 $-24,28 \pm 1,58$  .

10 – ,  
 , (p<0,001)

	1- (n=33)	2- (n=32)	3- (n=31)	(n=62)
, ,	19,60±2,01	24,38±1,48	24,90±1,81	33,45±2,05
, ,	0,85±1,33	0,19±0,47	1,7±1,7	0,66±0,25

3- ( , - ) :  
 $-1,70 \pm 1,57$  ,  
 $24,70 \pm 2,19$  ( 11).

11 – ,  
 (p<0,001)

	1- (n=31)	2- (n=31)	3- (n=31)	(n=62)
- ,	19,65±1,99	24,28±1,58	24,70±2,19	33,45±2,05
, ,	0,77±1,09	0,16±0,37	1,70±1,57	0,66±0,25

1-

2-

3-

(p<0,001).

3-

-  
-  
-  
-  
-  
-  
-

5

1- ( ) -  
 ) -  
 : -  
 ( ) - 15,106±0,574 . ., ( ) -  
 16,870±0,393 . . ( )  
 - 2,123±0,079 . . ( ) -  
 2,384±0,096 . . Kv (Kv ) -  
 14,182±0,007%, Kv (Kv ) - 14,154±0,007%.  
 2- ( ) -  
 ) -  
 : ( ) - 16,444±0,463 . ., ( ) -  
 17,806±0,424 . . ( )  
 - 2,692±0,138 . . ( ) -  
 2,630±0,106 . . Kv (Kv ) -  
 16,448±0,009%, Kv (Kv ) - 14,839±0,006%.  
 3- ( , ) -  
 ) -  
 : ( ) - 19,319±0,314 . ., ( ) -  
 20,732±0,899 . . ( )  
 - 3,257±0,217 . . ( ) -  
 3,723±0,313 . . Kv (Kv ) -  
 16,932±0,011%, Kv (Kv ) - 18,021±0,015% ( 12).

(p&lt;0,001)

	2		
	1-		
, . .	12,442±0,528	15,106±0,574	19,644±0,643
, . .	1,525±0,237	2,123±0,079	3,280±0,349
Kv , %	12,283±0,019	14,182±0,007	16,735±0,020
, . .	13,812±0,731	16,870±0,393	21,068±0,960
, . .	1,795±0,155	2,384±0,096	3,697±0,324
Kv , %	13,041±0,013	14,154±0,007	17,967±0,010
	2-		
, . .	14,456±0,659	16,444±0,463	19,644±0,643
, . .	1,948±0,155	2,692±0,138	3,280±0,349
Kv , %	13,483±0,011	16,448±0,009	16,735±0,020
, . .	15,728±0,612	17,806±0,424	21,068±0,960
, . .	2,187±0,128	2,630±0,106	3,697±0,324
Kv , %	13,924±0,009	14,839±0,006	17,967±0,010
	3-		
, . .	16,971±0,503	19,319±0,314	19,644±0,643
, . .	2,490±0,294	3,257±0,217	3,280±0,349
Kv , %	14,694±0,018	16,932±0,011	16,735±0,020
, . .	17,794±0,543	20,732±0,899	21,068±0,960
, . .	2,735±0,162	3,723±0,313	3,697±0,324
Kv , %	15,374±0,008	18,021±0,015	17,967±0,010

:

-

,

-

3-

(p&lt;0,001).

1-

(p<0,001).

1-

(p<0,001).

2-

1-

2-

(p<0,001).

2-

(p<0,001).

3-

(p<0,001).

1-

(

)

: F= 50,48±2,00

POP-Q = 0,33±0,48

2-

(

)

: F= 54,38 ±2,15 . . . ,

POP-Q = 0,16±0,37

3-

( ,

)

:

F= 63,03±1,74 . . . ,

POP-Q = 0,16±0,37 -

( 13).

13 –

c

POP-Q

(p<0,001)

	2	-	
	1-		
POP-Q,	1,27±0,63	0,33±0,48	0,05±0,22
F	42,67±2,10	50,48±2,00	63,24±1,30
	2-		
POP-Q,	1,06±0,54	0,16±0,37	0,05±0,22
F	46,84±2,08	54,38±2,15	63,24±1,30
	3-		
POP-Q,	0,90±0,75	0,16±0,37	0,05±0,22
F	60,16±1,79	63,03±1,43	63,24±1,30

,  
 POP-Q  
 3-  
 (p<0,001).  
 1-  
 , POP-Q ,  
 (p<0,001).  
 , -  
 , .  
 1-  
 , POP-Q , -  
 -  
 (p<0,001).  
 2-  
 , POP-Q ,  
 (p<0,001).  
 , -  
 , .  
 2-  
 , ,  
 (p<0,001). , -  
 . POP-Q -  
 , -  
 3- , -  
 1- ,  
 2- , -  
 -  
 (p<0,001).

3  
,  
(p<0,001).

POP-Q

1-

2,79±0,33 , 0,33±0,78 , 0,87±0,08 ,  
92,73±17,23°.

2- ( ) :

2,90±0,12 , 0,03±0,18 , 0,86±0,07 ,  
91,56±15,83°.

3- ( , ) :

0,83±0,09 , 2,89±0,13 , 0,06±0,25 ,  
89,19±16,44° ( 14).

,  
, (p<0,05).

1- ( ) -

: TQ – 15,86±1,75 ; Qmax – 31,70±5,92 / .;

Vcomp – 269,39±29,55 .

14 –

, -  
-

(p&lt;0,05)

	2		
	1		
1	2	3	4
- - ,	2,33±2,75	0,33±0,78	0,08±0,27
- ,	2,53±0,57	2,79±0,33	2,90±0,12
- ,	0,97±0,17	0,87±0,08	0,84±0,09
, <sup>o</sup>	95,91±20,71	92,73±17,23	87,10±16,46
	2		
- - ,	1,00±1,08	0,03±0,18	0,08±0,27
- ,	2,84±0,18	2,90±0,12	2,90±0,12
- ,	0,91±0,10	0,86±0,07	0,84±0,09
, <sup>o</sup>	91,88±17,72	91,56±15,83	87,10±16,46

14			
1	2	3	4
	3		
-	0,42±0,76	0,06±0,25	0,08±0,27
,			
-	2,83±0,22	2,89±0,13	2,90±0,12
,			
-	0,87±0,11	0,83±0,09	0,84±0,09
,			
,	89,68±16,83	89,19±16,44	87,10±16,46

-

: - 48,6%, -  
5,3% , - 3,2% , - 2,4%  
 , - 40,5% .  
 2- ( -  
) -  
 : TQ – 16,79±1,23 ; Qmax – 26,34±4,01 / .; Vcomp – 265,00±16,8 .

-

: - 68,3%, -  
2,3% , - 1,7% , - 1%  
 , - 26,7% .  
 3- ( -  
) -  
 : TQ –  
 16,84±1,20 ; Qmax – 26,13±2,01 / .; Vcomp – 261,61±20,83 ( 15).

15 –

(p&lt;0,05)

	2		-
	1-		
TQ,	13,38±2,43	15,86±1,75	16,24±0,86
Qmax /	35,82±7,99	31,70±5,92	26,52±2,36
Vcomp,	294,21±48,08	269,39±29,55	257,82±23,15
	2-		
TQ,	14,87±1,40	16,79±1,23	16,24±0,86
Qmax, /	32,19±5,78	26,34±4,01	26,52±2,36
Vcomp,	273,75±23,66	265,00±16,80	257,82±23,15
	3-		
TQ	15,47±1,11	16,84±1,20	16,24±0,86
Qmax /	28,39±3,89	26,13±2,01	26,52±2,36
Vcomp,	270,48±31,05	261,61±20,83	257,82±23,15

: - 87,3%,  
 1% , - 1,2% , - 2,1%  
 , - 8,4% .

(p&lt;0,05).

1-

(TQ),

(Qmax) (p&lt;0,05).

,  
 ,  
 3 -  
 -  
 (p<0,05).  
 1- ( )  
 )  
 , :  
 0,18±0,46 , 24,79±3,02 .  
 2- ( ) -  
 )  
 : 0,03±0,18 ,  
 -28,56±1,39 .  
 3- ( , ) :  
 0,55±0,77 ,  
 29,06±1,61 ( 16).

,  
 , -  
 .  
 -  
 ,  
 .

16 –

，  
(p<0,001)

	2		
	1		
-	19,6±2,01	24,79±3,02	33,45±2,05
，	0,85±1,33	0,18±0,46	0,66±0,25
	2		
-	24,38±1,48	28,56±1,39	33,45±2,05
，	0,19±0,47	0,03±0,18	0,66±0,25
	3		
-	24,90±1,81	29,06±1,61	33,45±2,05
，	1,70±1,70	0,55±0,77	0,66±0,25

1-

2-

. 3-

，  
(p<0,001).

6.

8

1- ( )

-

:

( ) - 15,279±0,518 . . , ( ) -  
 16,997±0,410 . . ( )  
 - 2,087±0,084 . . ( ) -  
 2,409±0,145 . . Kv (Kv ) -  
 16,485±0,007%, Kv (Kv ) - 14,232±0,009%.

2- ( )

-

: ( ) - 16,547±0,368 . . , ( ) -  
 17,869±0,477 . . ( )  
 - 2,715±0,0,119 . . ( )  
 - 2,625±0,100 . . Kv (Kv ) -  
 16,422±0,007%, Kv (Kv ) - 14,731±0,008%.

3- ( , )

:

( ) - 19,406±0,340 . . , ( ) -  
 21,016±0,680 . . ( )  
 - 3,326±0,183 . . ( ) -  
 3,820±0,292 . . Kv (Kv ) -  
 17,141±0,009%, Kv (Kv ) - 18,232±0,016% ( 17).

17 –

8

(p&lt;0,001)

	2		6	
	1-			
1	2	3	4	5
, .	12,442±0,528	15,106±0,574	15,279±0,518	19,644±0,643
, .	1,525±0,237	2,123±0,079	2,087±0,084	3,280±0,349
Kv , %	12,283±0,019	14,182±0,007	13,742±0,007	16,735±0,020
, .	13,812±0,731	16,870±0,393	16,997±0,410	21,068±0,960
, .	1,795±0,155	2,384±0,096	2,409±0,145	3,697±0,324
Kv , %	13,041±0,013	14,154±0,007	14,232±0,009	17,967±0,010
	2-			
, .	14,456±0,659	16,444±0,463	16,547±0,368	19,644±0,643
, .	1,948±0,155	2,692±0,138	2,715±0,119	3,280±0,349
Kv , %	13,483±0,011	16,448±0,009	16,422±0,007	16,735±0,020

17				
1	2	3	4	5
, .	15,728±0,612	17,806±0,424	17,869±0,477	21,068±0,960
, .	2,187±0,128	2,630±0,106	2,625±0,100	3,697±0,324
Kv , %	13,924±0,009	14,839±0,006	14,731±0,008	17,967±0,010
	3-			
, .	16,971±0,503	19,319±0,314	19,406±0,340	19,644±0,643
, .	2,490±0,294	3,257±0,217	3,326±0,183	3,280±0,349
Kv , %	14,694±0,018	16,932±0,011	17,141±0,009	16,735±0,020
, .	17,794±0,543	20,732±0,899	21,016±0,68	21,068±0,960
, .	2,735±0,162	3,723±0,313	3,820±0,292	3,697±0,324
Kv , %	15,374±0,008	18,021±0,015	18,232±0,016	17,967±0,010

:

-

,

-

.

8

3-  
(p<0,001).

1-

(p<0,001).

2-

(p<0,001).

3-

(p<0,001).

1-

(

)

-

-

-

-

:

( ) – 13,968±0,341 . .,

( ) –

15,290±0,431 . .

( )

– 1,862±0,138 . .

( ) –

2,146±2,310 . .

Kv

(Kv ) –

13,341±0,009%, Kv

(Kv ) – 14,351±0,008%.

2-

(

)

:

( ) – 15,310±0,798 . .,

( ) –

16,948±0,371 . .

( )

– 2,488±0,147 . .

( ) –

2,431±0,107 . .

Kv

(Kv ) –

16,341±0,011%, Kv

(Kv ) – 14,922±0,006%.

3-

(

)

:

-

( ) - 19,497±0,533 . . , ( ) -  
 20,994±1,021 . . ( )  
 - 3,417±0,328 . . ( ) -  
 3,699±0,302 . . Kv (Kv ) -  
 16,343±0,018%, Kv (Kv ) - 17,794±0,017% ( 18).

,

., -

.

,

.

8 -

3- . 1- -

,

(p<0,001).

2 ( ) -

(p<0,001).

2-

(p<0,001).

3- -

,

,

(p<0,001).

18 –

8

(p&lt;0,001)

	2	6	
	1		
1	2	3	4
, .	12,445±0,534	13,968±0,341	19,644±0,643
, .	1,600±0,131	1,862±0,138	3,280±0,349
Kv ,%	12,873±0,011	13,341±0,009	16,735±0,020
, .	13,584±0,620	15,290±0,431	21,068±0,960
, .	1,811±0,126	2,1460±2,31	3,697±0,324
Kv ,%	13,364±0,011	14,351±0,008	17,967±0,010
	2		
, .	14,287±0,835	15,310±0,798	19,644±0,643
, .	1,952±0,167	2,488±0,147	3,280±0,349
Kv ,%	13,731±0,016	16,341±0,011	16,735±0,020

18			
1	2	3	4
, .	15,606±0,855	16,948±0,371	21,068±0,960
, .	2,173±0,118	2,431±0,107	3,697±0,324
Kv ,%	13,954±0,010	14,922±0,006	17,967±0,010
	3		
, .	16,894±0,548	19,497±0,533	19,644±0,643
, .	2,429±0,247	3,417±0,328	3,280±0,349
Kv ,%	14,411±0,016	16,343±0,018	16,735±0,020
, .	17,739±0,426	20,994±1,021	21,068±0,960
, .	2,780±0,156	3,699±0,302	3,697±0,324
Kv ,%	15,671±0,009	17,794±0,017	17,967±0,010

:

-

,

-

.

1- ( ) -  
-

: F= 50,48±1,82 . . , -

POP-Q = 0,21±0,42 .

2- ( ) -  
:

F= 54,53±1,65 . . , POP-Q = 0,13±0,34 .

3- ( , ) -  
:

F= 63,13±1,12 . . , POP-Q = 0,10±0,30 -

( 19).

8 . POP-Q, F 3- -  
(p<0,001).

1- F , -

POP-Q (p<0,001).

1- POP-Q , F , -

(p<0,001).

2- F , , -

POP-Q

POP-Q, F 1- . 2- F

, , POP-Q, (p<0,001).

, POP-Q, F 3- -  
(p<0,001).

8 . (p<0,001)

	2	-	8	-
	1-			
POP-Q,	1,27±0,63	0,33±0,48	0,21±0,42	0,05±0,22
F	42,67±2,10	50,48±2,00	50,48±1,82	63,24±1,30
, . .				
	2-			
POP-Q,	1,06±0,54	0,16±0,37	0,13±0,34	0,05±0,22
F	46,84±2,08	54,38±2,15	54,53±1,65	63,24±1,30
, . .				
	3-			
POP-Q,	0,90±0,75	0,16±0,37	0,10±0,30	0,05±0,22
F	60,16±1,79	63,03±1,43	63,13±1,12	63,24±1,30
, . .				

1- ( ) :

F=45,32±1,60 . . , POP-Q = 0,71±0,59 .

2- ( ) :

F= 53,61±1,26 . . , POP-Q = 0,77±0,62 .

3- ( , ) :

F= 62,94±1,39  
( 20).

POP-Q = 0,35±0,55 -

20 –

c

POP-Q

8 . (p<0,001)

	2	8	
	1-		
POP-Q,	1,23±0,60	0,71±0,59	0,05±0,22
F	41,0±2,10	45,32±1,60	63,24±1,30
	2-		
POP-Q,	0,98±0,65	0,77±0,62	0,05±0,22
F	48,19±2,34	53,61±1,26	63,24±1,30
	3-		
POP-Q,	0,90±0,75	0,35±0,55	0,05±0,22
F	60,16±1,79	62,94 ±1,39	63,24±1,30

8 .

F

POP-Q

3-

1-

F

POP-Q

F

POP-Q (p<0,001).

1-

POP-Q

, F ,

(p<0,001).

2-

POP-Q

, F -

(p<0,001).

2-

8

POP-Q

, F ,

(p<0,001).

F 3-

,

8

,

,

POP-Q 3-

,

,

,

.

8

,

POP-Q

,

(p<0,001).

1-

8

,

:

0,30±0,92

,

2,81±0,30

,

0,87±0,08

,

93,18±16,18°.

2-

(

)

:

0,06±0,25

,

2,90±0,13

,

0,85±0,06

,

93,28±16,19°.

3-

(

,

)

:

0,84±0,09 , 2,88±0,14 , 0,06±0,25 , -  
 87,90±15,59° ( 21).

21 – ICIQ-SF, -  
 8 (p<0,05)

	2 -	-	8 -	-
	1-			
1	2	3	4	5
,	2,33±2,75	0,33±0,78	0,30±0,92	0,08±0,27
- - ,	2,53±0,57	2,79±0,33	2,81±0,3	2,90±0,12
- ,	0,97±0,17	0,87±0,08	0,87±0,08	0,84±0,09
- ° ,	95,91±20,71	92,73±17,23	93,18±16,8	87,1±16,46
	2-			
,	1,00±1,08	0,03±0,18	0,06±0,25	0,08±0,27

21				
1	2	3	4	5
- - ,	2,84±0,18	2,90±0,12	2,90±0,133	2,90±0,12
- ,	0,91±0,1	0,86±0,07	0,85±0,06	0,84±0,09
- ° ,	91,88±17,72	91,56±15,83	92,28±16,19	87,10±16,46
	3-			
, ,	0,42±0,76	0,06±0,25	0,06±0,25	0,08±0,27
- - ,	2,83±0,22	2,89±0,13	2,88±0,14	2,90±0,12
- ,	0,87±0,11	0,83±0,09	0,84±0,09	0,84±0,09
- ° ,	89,68±16,83	89,19±16,44	87,90±15,59	87,10±16,46

, 8

(p<0,05).

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8

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1,74±2,30 , 2,64±0,35 , -

0,97±0,15 ,

100,00±17,42°.

2- ( ) :

1,16±1,57 , -

2,68±0,36 ,

0,95±0,14 , 96,77±17,39°.

3- ( , ) :

0,55±0,81 , -

2,80±0,22 ,

0,87±0,13 , 93,23±15,25°( 22).

8 , -

8 (p<0,05). -

8 (p<0,05). -

1- -

8 ( -

) : TQ  $16,28 \pm 1,56$  ,  
 $Q_{max} 31,24 \pm 4,43$  / ,  $V_{comp} 270,45 \pm 25,90$  .

22 –

8

(p&lt;0,05)

	2	8	
	1		
1	2	3	4
,	$2,56 \pm 2,54$	$1,74 \pm 2,30$	$0,08 \pm 0,27$
-	$2,56 \pm 0,42$	$2,64 \pm 0,35$	$2,90 \pm 0,12$
,	$0,97 \pm 0,19$	$0,97 \pm 0,15$	$0,84 \pm 0,09$
,°	$99,03 \pm 19,3$	$100,00 \pm 17,42$	$87,10 \pm 16,46$
	2		
,	$1,03 \pm 1,28$	$1,16 \pm 1,57$	$0,08 \pm 0,27$
-	$2,70 \pm 0,36$	$2,68 \pm 0,36$	$2,90 \pm 0,12$
-	$0,93 \pm 0,11$	$0,95 \pm 0,14$	$0,84 \pm 0,09$

22			
1	2	3	4
3			
, °	93,39±17,10	96,77±17,39	87,10±16,46
,	0,45±0,72	0,55±0,81	0,08±0,27
-	2,81±0,12	2,80±0,22	2,90±0,12
-	0,88±0,17	0,87±0,13	0,84±0,09
, °	92,42±16,73	93,23±15,25	87,10±16,46

: - 51,6%,  
 4,3% , - 4,2% , - 2,4%  
 , - 37,5% .  
 2- ( )

: TQ – 16,94±0,77 , Qmax – 29,44±2,99 / ., Vcomp – 233,49±20,53 .

: - 71,6%,  
 2,3% , - 1% , - 1,2%  
 , - 23,9% .  
 3- ( , )

16,84±1,13 ; Qmax – 26,06±2,05 / .; Vcomp – 260,65±21,59 ( 23).

: - 90,3%,  
 1% , - 0% , - 1,1%  
 , - 7,6% .

23 -

8 (p<0,05)

	8			
	2	-	8	
	1-			
TQ,	13,38±2,43	15,86±1,75	16,28±1,56	16,24±0,86
Qmax, /	35,82±7,99	31,70±5,92	31,24±4,43	26,52±2,36
Vcomp,	294,21±48,08	269,39±29,55	270,45±25,9	257,82±23,15
	2-			
TQ	14,87±1,40	16,79±1,23	16,94±0,77	16,24±0,86
Qmax, /	32,19±5,78	26,34±4,01	29,44±2,99	26,52±2,36
Vcomp,	273,75±23,66	265,00±16,8	233,49±20,53	257,82±23,15
	3-			
TQ,	15,47±1,11	16,84±1,20	16,84±1,13	16,24±0,86
Qmax, /	28,39±3,89	26,13±2,01	26,06±2,05	26,52±2,36
Vcomp,	270,48±31,05	261,61±20,83	260,65±21,59	257,82±23,15

8

(p<0,05).

1- 2-

(Qmax) (p<0,05). -

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1- 2- -

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(p<0,05).

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) :

TQ – 14,93±1,27 ; Qmax – 33,52±5,27 / .; Vcomp – 274,68±38,56 .

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: – 33,6%, -

9,8% , – 10,5% , -

4,2% , – 41,9% .

2- ( -

) :

TQ – 16,33±1,17 , Qmax – 31,23±4,41 / ., Vcomp – 261,70±16,31 .

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: – 44,1%, -

5,3% , – 2,9% , – 2% -

, – 45,7% .

3- ( , -

) : TQ –

16,24±0,86 , Qmax – 26,84±2,54 / ., Vcomp – 259,35±24,89 ( 24).

-

: – 77,4%, -

93

1,3%

- 2,6%

- 1%

- 17,7%

24 -

8

(p<0,05)

	2	8	
	1		
TQ,	13,24±2,16	14,93±1,27	16,24±0,86
Qmax, /	35,74±7,48	33,52±5,27	26,52±2,36
Vcomp,	292,9±49,49	274,68±38,56	257,82±23,15
	2		
TQ,	14,8±1,17	16,33±1,17	16,24±0,86
Qmax, /	32,16±5,09	31,23±4,41	26,52±2,36
Vcomp,	271,29±19,58	261,77±16,31	257,82±23,15
	3		
TQ,	15,34±1,15	16,24±0,86	16,24±0,86
Qmax, /	28,61±3,83	26,84±2,54	26,52±2,36
Vcomp,	275,80±30,74	259,35±24,89	257,82±23,15

(TQ),

(Qmax),

(p<0,05).

2-

(Qmax) (p<0,05).

3-

8

(p<0,05).

3-

(p<0,05).

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: 0,15±0,36 ,

25,12±3,20 .

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: 0,09±0,30 ,

29,19±1,40

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0,55±0,72 ,

29,52±1,31

( 25).

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25 –

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(p&lt;0,001)

	2		8	-
	1			
-	19,60±2,01	24,79±3,02	25,12±3,20	33,45±2,05
,	0,85±1,33	0,18±0,46	0,15±0,36	0,66±0,25
	2			
-	24,38±1,48	28,56±1,39	29,9±1,40	33,45±2,05
,	0,19±0,47	0,03±0,18	0,09±0,30	0,66±0,25
	3			
-	24,9±1,81	29,06±1,61	29,52±3,02	33,45±2,05
,	1,70±1,70	0,55±0,77	0,55±0,72	0,66±0,25

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(p<0,001).

8 1- ( - )

: 0,65±1,08 , -  
23,94±2,13 ( 26).

26 –

8 (p<0,001)

	2 -	8	
	1		
,	19,65±1,99	23,94±2,13	33,45±2,05
,	0,77±1,09	0,65±1,08	0,66±0,25
2			
,	24,28±1,58	25,77±1,45	33,45±2,05
,	0,16±0,37	0,19±0,40	0,66±0,25
3			
,	24,70±2,19	26,52±2,29	33,45±2,05
,	1,70±1,57	0,94±1,12	0,66±0,25

97

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0,19±0,40

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25,77±1,45

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0,94±1,12

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26,52±2,29

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(p<0,001).

26 63,1% [8, 55, 56].

[20,21,35, 104,143].

[27, 46].

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( ),  
[2, 35, 55].

[8, 46, 82, 88].



(p<0,001).

(p<0,001).

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(p<0,001).

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(p<0,001).

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(p<0,001).

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(p<0,001).

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3-

(p<0,001).

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(p<0,001).

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1,2-

(p<0,001).

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

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POP-Q.  
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(p<0,001).

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(p<0,001).

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POP-Q

(p<0,001).

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(p<0,001).

POP-Q

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(p<0,001).

POP-Q

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(p<0,001).

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POP-Q

(p<0,001).

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POP-Q, F

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(p<0,001).

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POP-Q

(p<0,001).

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POP-Q

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(p<0,001).

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POP-Q

POP-Q, F

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POP-Q,

(p<0,001).

POP-Q, F 3-

(p<0,001).

8 F , -  
 POP-Q 3- -  
 (p<0,001).

2- ( , F -  
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 (p<0,001).

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 8 POP-Q , F ,  
 (p<0,001).

F 3- 8 , -  
 8 , -

POP-Q 3- , -  
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POP-Q ,  
 (p<0,001).  
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 , (p<0,05).

(p<0,05). -





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(p<0,05).

1-

(TQ),

(Qmax),

(p<0,05).

2-

(Qmax) (p<0,05).

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(p<0,05).

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(p<0,05).

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(p<0,001).

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(p<0,001).

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(p<0,001).

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: =12,442±0,528 . ., =13,812±0,731 . .  
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, ( 0,001).  
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POP-Q ( 0,001),

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Vagiton Pneumo.

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 – (numeric rating scale)  
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 scale).

AUS – American Urogynecologic Society

EPDS – Edinburgh Postnatal Depression Scale

FSFI – Female Sexual Function Index

F –

GH –

HRQOL – Health Related Quality of Life

ICS – International Continence Society

ISIQ-SF – International Conference on Incontinence Questionnaire-Short Form

PB –

PFDI-20 – Pelvic Floor Distress Inventory

PFIQ-7 – Pelvic Floor Impact Questionnaire.

PISQ-12 – Pelvic Organ Prolapse/Urinary Incontinence Sexual Questionnaire

POP-Q – Pelvic Organ Prolapse Quantification

POP-SS – Pelvic Organ Prolapse Symptom Score

PREVPROL – Pelvic Floor Muscle Training for Secondary Prevention of Pelvic Organ Prolapse

QALY – Quality-adjusted life-year

Qmax – , /

SGS – Society of Gynecologic Surgeons

TVL –

UDI-6 – Urogenital Distress Inventory Short Form

Vcomp – , .

WHOQOL – World Health Organisation Quality of Life

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