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03.01.21

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,

, 2012

104 15 , 63 , 161 8 10 . 94 .

” “ , 14
“1, . . .” .
- , .” .

| | | |
|----|-------|----|
| | | 4 |
| 1. | | 5 |
| 2. | | 6 |
| 3. | | 6 |
| 4. | | 16 |
| 5. | | 53 |
| 6. | | 64 |
| 7. | | 64 |
| | | 66 |

:

=

=

IgA = immunoglobulin A

sIgA = secretory immunoglobulin A

IgE = immunoglobulin E

FLG = filлагrin

IL-4 = inteleukin 4

IL-5 = interleukin 5

IFN- = interferon gamma

TLRs = toll-like receptors

LGG = Lactobacillus GG

SCORAD = SCORing Atopic Dermatitis

SASSAD = Six Area, Six Sign Atopic Dermatitis

TIS score = Three-Item Severity score

1.

()

(IgA)

(s - IgA)

2.

— 2 ,
.

_____ :

1. — — 2000 – 2010 .
2. , ,

3. 2000
– 2010 .

4. .

5. , ,
.

6. SCORAD

7. .

3. :
.

2010 .“ — — — — “ 2000 –

„
 – 2000 – 2010 „.
 (s – IgA)
 „
 – , 3
 2009 .
 – .
 „
 Imunobor Biotic „.
 „
 „

3.1

3.1.1. „

– „ 2000 – 2010 „.
 (, 2000 , 2010 .
) 11 4970
 , 206 40 2000
 10 .
 , – 0 9
 „ – 10 19 „ – 20 39 „ – 40 – 59 „ –
 60 – 79 . – 80 .
 , .

3.1.2. „

2000 – 2010 .“.

(11 (, 2000 . , 2010 .)

3296 , 212

6 ,

– 0 9 ., – 10 19 ., – 20 39 .,

– 40 – 59 ., – 60 – 79 . – 80 .

3.1.3. „

(s – IgA)

“.

2010 ., 6 45 . 2009

) :

/ , - 16 .(1,2,3)
) :

2009 . 2010 . , - 39
0 18 ,21 18 .
2 - , 13 , , 26

sIgA - ,
IgA .

3.1.4.,, *Imunobor Biotic* “.

- - “ , - 6 - -
Imunobor Biotic
SCORAD .

, - 25
:

- (CS) + : 10
- + Imunobor Biotic: 15

) :

/ , - 16 .
) :

— , ,
Imunobor Biotic .

3.1.5. „

“
“ ” -
- . per os
417
0 18 , - 70 .

) :

18

/ , - 16 .
) :

35 70, 417 70 18
/ .

3.2.

3.2.1.

(4), :

) , , , , ,

) , , , -

- / , .

) :

, .

)

Rajka (2) ” “, Hanifin .

3.2.2.

- 1 .

, , , .

pH .

, 10 .

(30 .

, 4- -20°C,
).

1500 x g (@3000 rpm) 15 .

3.2.3.

Salimetrics™ - IgA
Enzyme Immunoassay Kit Catalog #1-1602, 96-Well Kit/LOT 022801, IgA(Salivary Secretory IgA Indirect
) (. 9, 10).

s-IgA

- s-IgA, horseradish peroxidase (HRP),

s-IgA

s-IgA,

IgA.

s-IgA

(TMB).

450 nm.

s-IgA,

1. : , 96 ,
SIgA.

2. SIgA - : 50 µL - - SIgA
horseradish peroxidase (HRP).
SIgA .

3. SIgA : 100 µL SIgA
600 µg/mL

4. SIgA : SIgA
50 µL.

5. : 100 μ L 10X
 (100 mL 10X 900 mL H2O). NB!

60 °C 15

6. SIgA : 50 mL 5X
 H2O (50 mL 5X SIgA 1 5X SIgA 200 mL 4 H2O).

7. (TMB): 10 mL

8. : 10 mL
 10 mL 10

3.2.4.

() IgA
 () (IgA
 IgA , 8 ; 0.1 % NaN3 ,
 017448. (Mancini).

- 1
 -18 -20°C,
 8
 0.1% NaN3 IgA

3.2.5. SCORAD

SCORAD
 (SCORing Atopic Dermatitis).
 ()

• — , , ,
 ()
 - 9 %
 - 9 %
 - 18 %
 - 18 %
 - 18 %
 1 % , 1 %
 „ “,
 100 %.

• — , (0),
 (1), (2) (3).

/

(,)
 „B” 18.

• — /
 , 0 (), 10
 ()
 „ “ 20.

$$A/5 + 7B/2 + C$$

3.2.6.

:

) , 95% - ,

) -

)

) - (

)

p<0.05, p<0.01 p<0.001.

- Student t- -
- ANOVA -
- ():
- Kolmogorov-Smirnov -
- Mann-Whitney -
- Kruskal-Wallis - ANOVA,
- Chi-square/ (Fisher's exact test)
-) - :
- Pearson: r -

Spearman: rho –

3.2.7.

3.2.8.

Olympus SP-590UZ,

2560 1920

2.23

2.32 MB.

4.

4.1. „

2000 – 2010

“.

4970

206

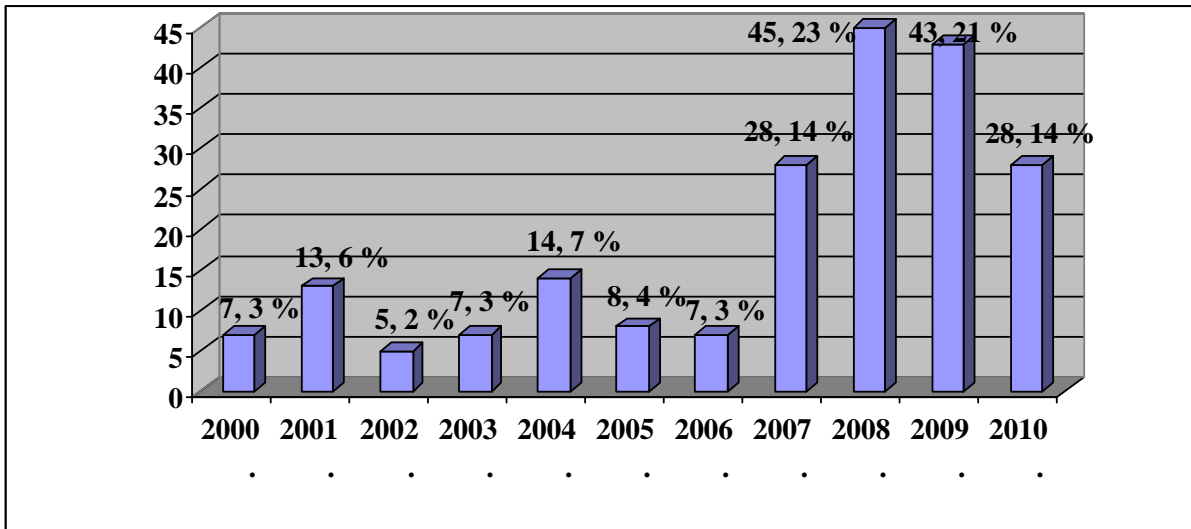
2000 – 2010 ..

: 2000

2002 . – 6 ; 2003 . – 7 ; 2004 . – 14 a; 2005 . – 8

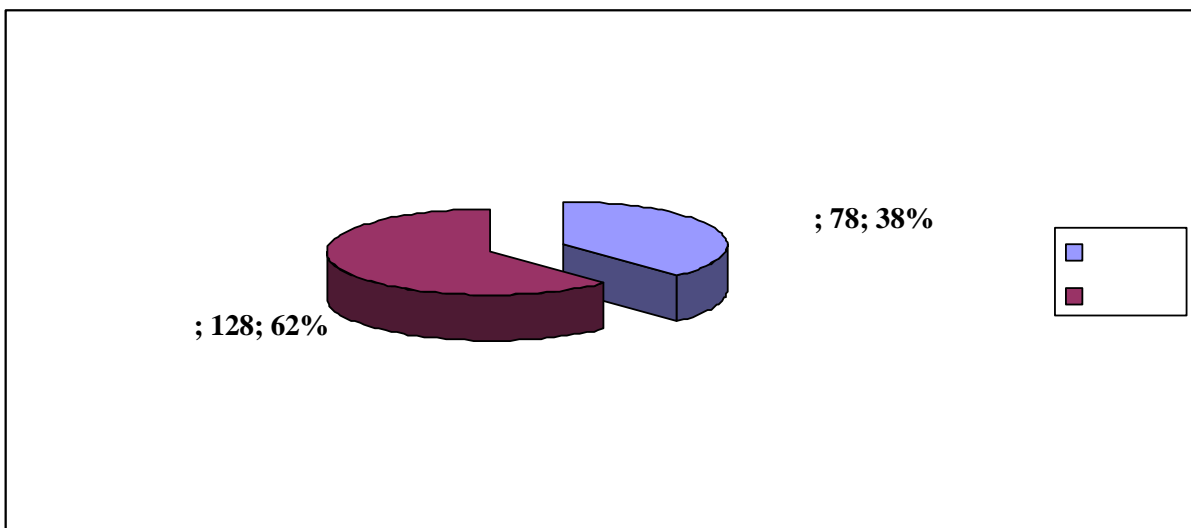
; 2006 . – 7 ; 2007 . – 28 ; 2008 . – 45 ; 2009 . – 43 2010 . – 28 . (.1).

.1.



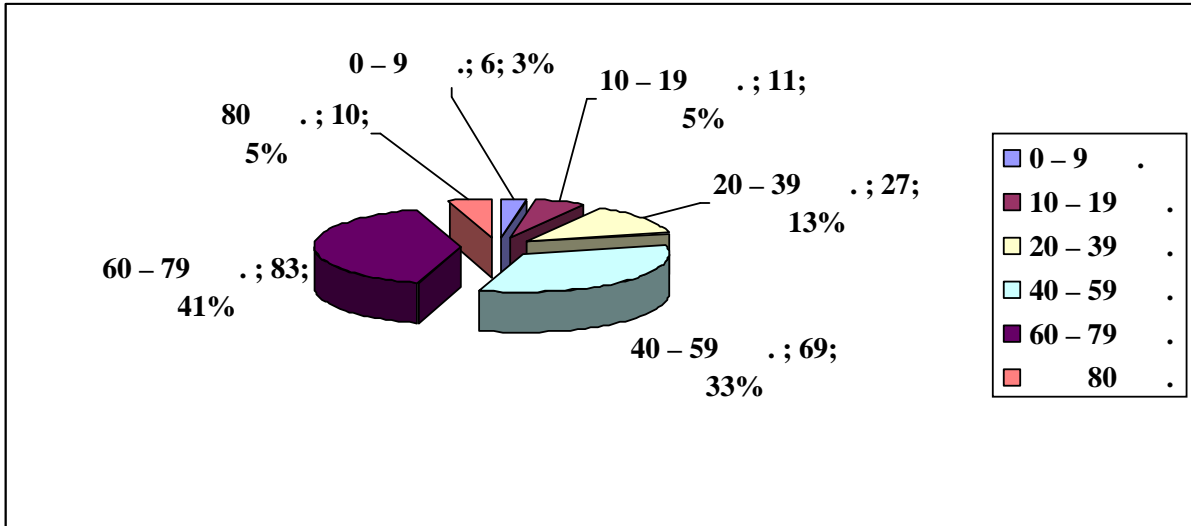
62% 78 38% (.2). – , – 128

.2.



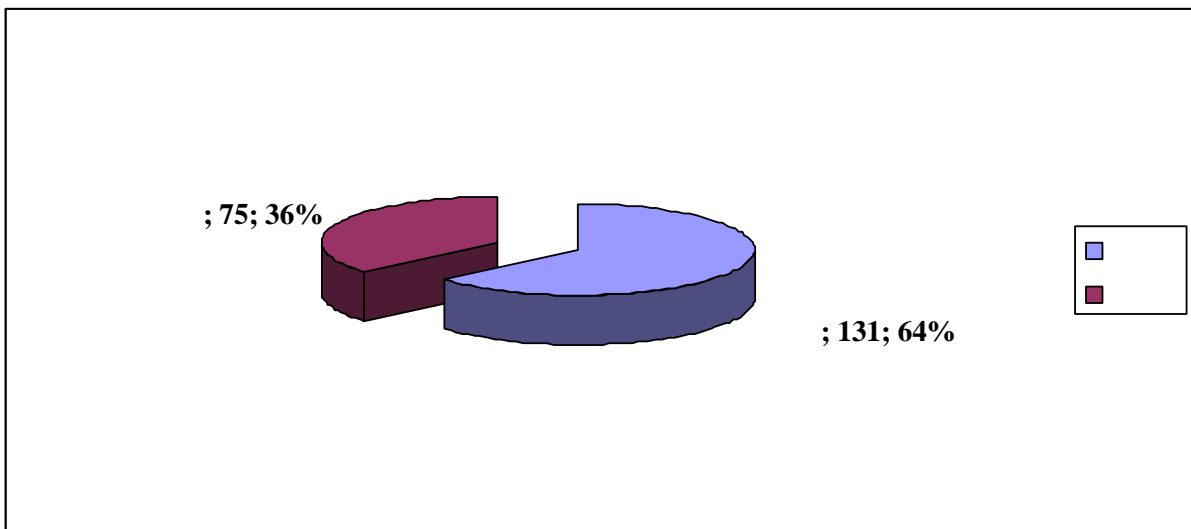
60 - 79 ., 83 33 % 41 % (.3).

3.



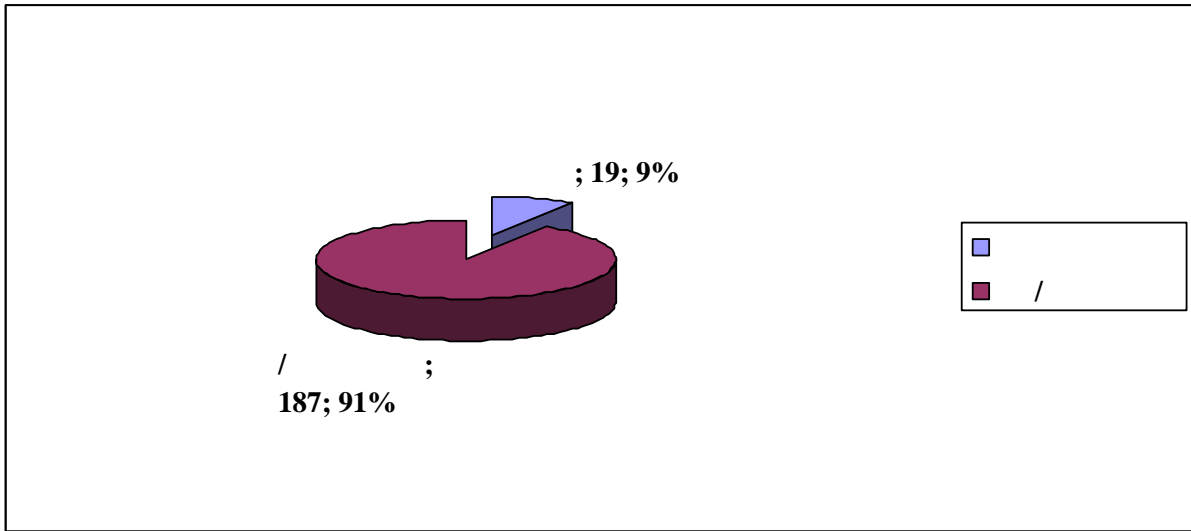
- 131 64 %, - ,
- 75 36 % (.4).

.4.



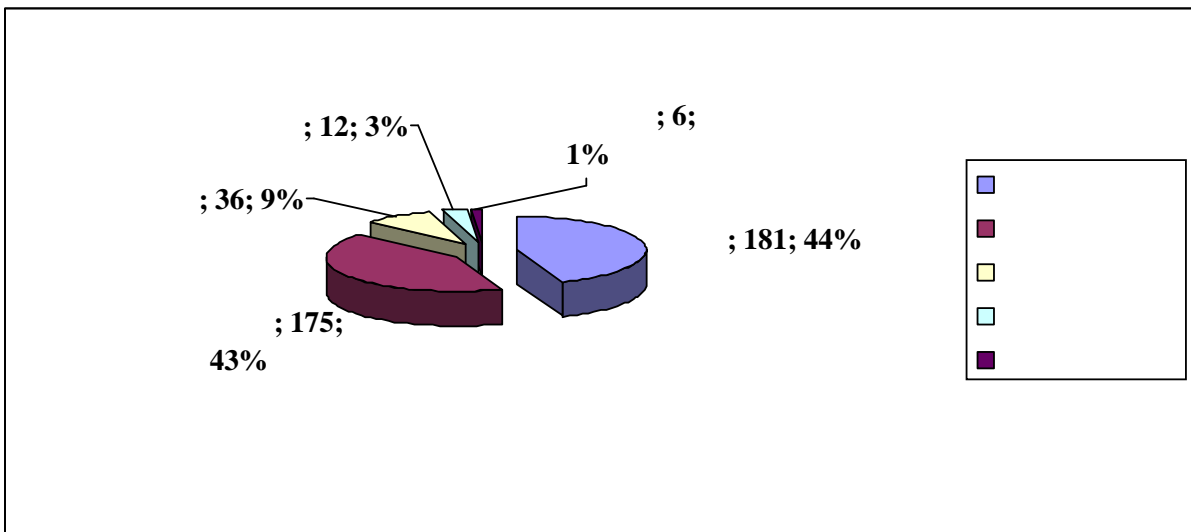
19 9 %, 187 (91 %) (.5).

.5.



: - 6 (1%), - 181 (44%), - 175 (43%),
 - 36 (9%), - 12 (3%). 206,
 (.6).

.6.



2000 . 2010 .

. 1.

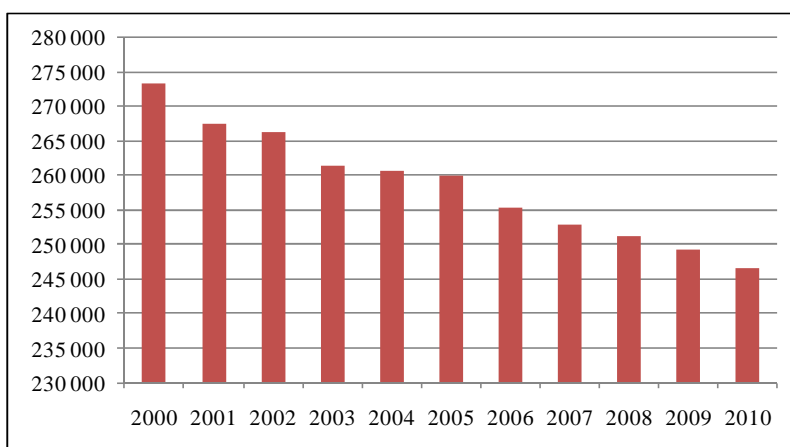
2001 – 2010

| | | | | | | | |
|------|---------|------|-----|----|----------|-------|-------|
| 2000 | 273 251 | 40 | 330 | 7 | 0,00256% | 2,12% | 1,225 |
| 2001 | 267 621 | 20 | 395 | 13 | 0,00486% | 3,29% | 4,55 |
| 2002 | 266 272 | 20 | 324 | 6 | 0,00225% | 1,85% | 2,1 |
| 2003 | 261 350 | 20 | 427 | 7 | 0,00268% | 1,64% | 2,45 |
| 2004 | 260 792 | 20 | 434 | 14 | 0,00537% | 3,23% | 4,9 |
| 2005 | 260 018 | 20 | 590 | 8 | 0,00308% | 1,36% | 2,8 |
| 2006 | 255 315 | 20 | 575 | 7 | 0,00274% | 1,22% | 2,45 |
| 2007 | 253 008 | 20 | 459 | 28 | 0,01107% | 6,10% | 9,8 |
| 2008 | 251 236 | 20 | 485 | 45 | 0,01791% | 9,28% | 15,75 |
| 2009 | 249 144 | 20 | 496 | 43 | 0,01726% | 8,67% | 15,05 |
| 2010 | 246 670 | 17,5 | 388 | 28 | 0,01135% | 7,22% | 11,2 |

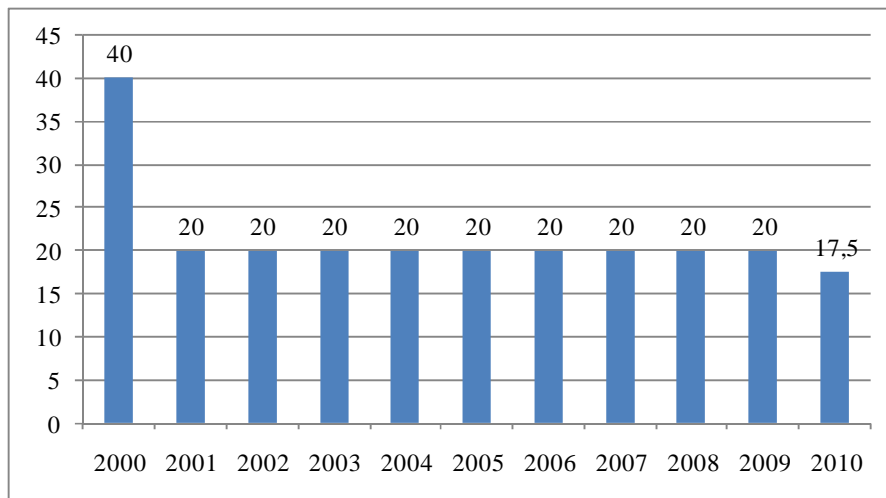
11 2000 2010
 2000 273 251, 2010
 246 670, 20 000
 : 40
 2000 ,, 2001 2009 . . 20 , 2010 . 17,5

2010 .

. 7.



. 8.

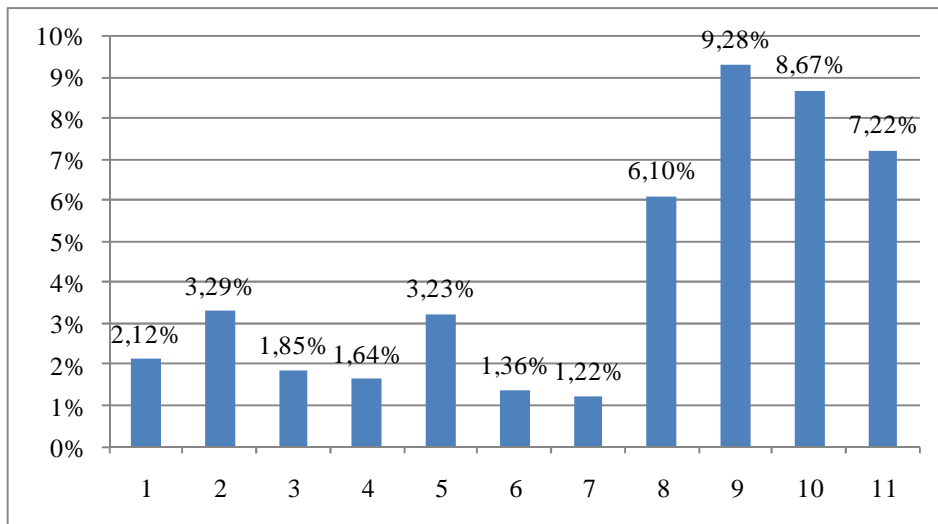


. 9.

(%)

2000 . 2,12%, 2001 . - 3,29%. 2002 .
 - 1,85%, 2003 . - 1,64%.
 2004 . - 3,23%.
 1,36%, 1,22%, 6,10%, 9,28%, 8,67% 7,22%
 - 2010.

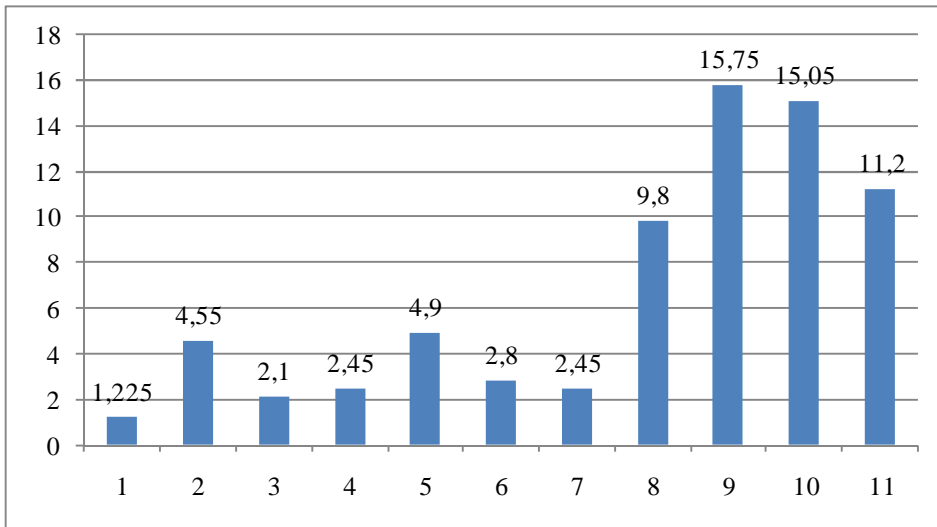
. 9.



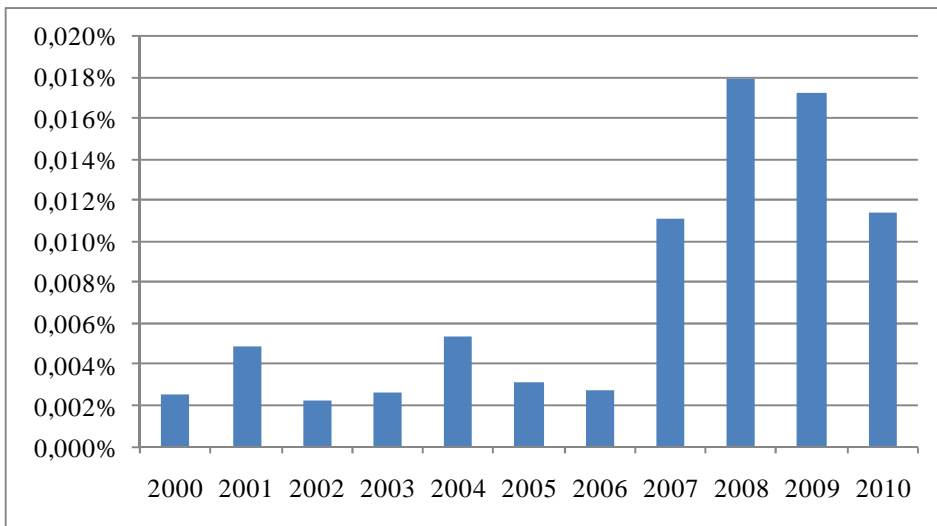
. 10.

2000 . 1,225 ; 2001 - 4,55 ; 2002 -
 2,1 ; 2003 . - 2,45 ; 2004 . - 4,9 ; 2005 . - 2,8 ; 2006 . -
 2,45 ; 2007 . - 9,8 ; 2008 . - 15,75 ; 2009 . - 15,05 2010 . -
 11,2 .

. 10.



. 11.



. 11.

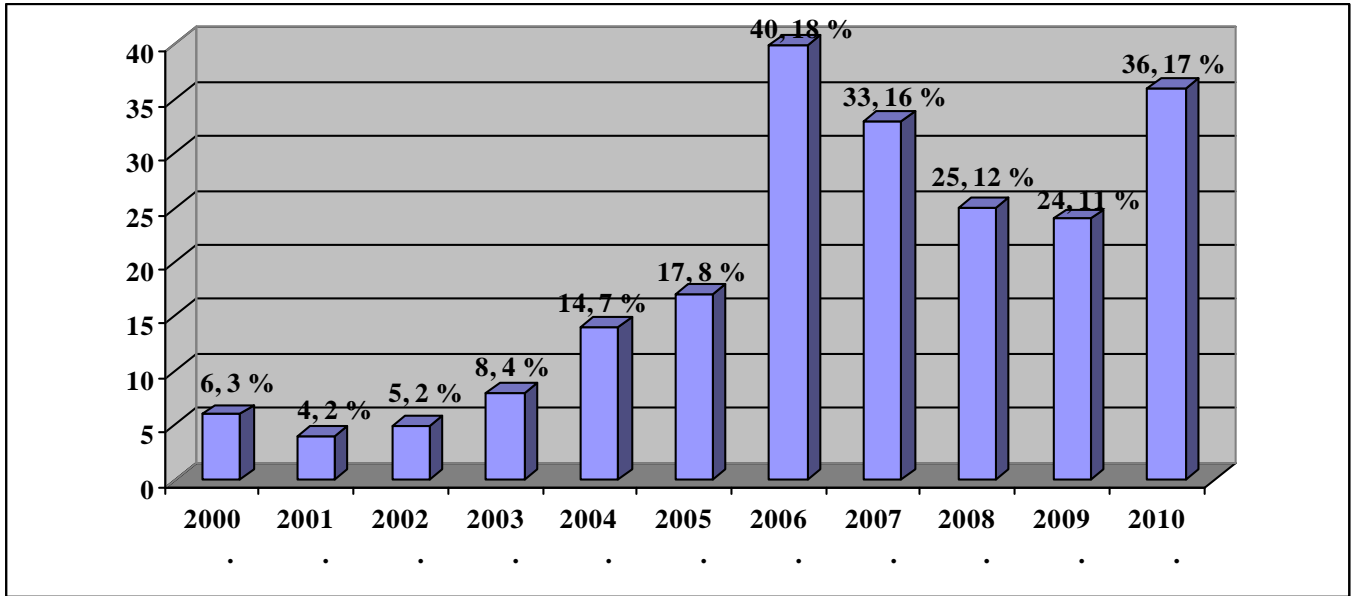
0,003% 2000 0,011% 2007
 0,018% 2008 0,017% - 2009 0,011% 2010

4.2. „

– **2000 – 2010** „“
 – 2000 – 2010 „,
 3296 , 212

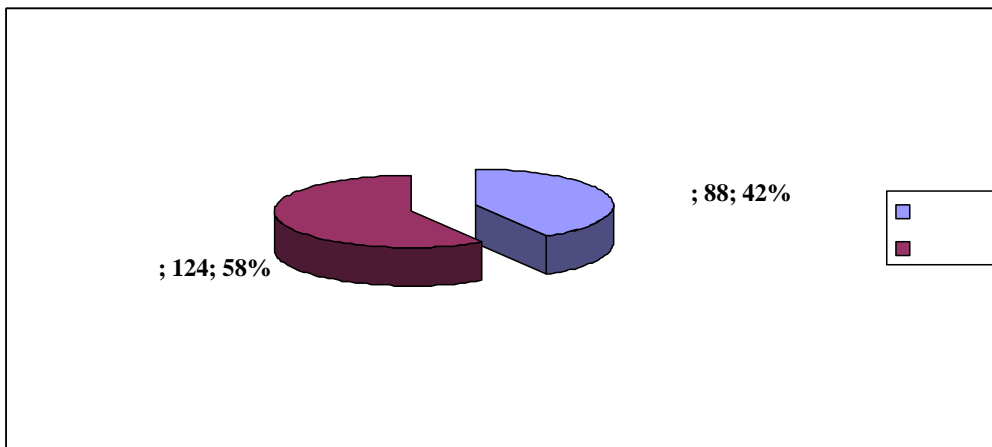
: 2000
 6 5 %; 2001 . - 4
 3 %; 2002 . - 5 4%; 2003 . - 8 6 %; 2004 .
 - 14 11 %; 2005 . - 17 13 %; 2006 . - 40
 32 % 2007 . - 33 26 %; 2008 . - 25 ; 2009 .
 - 24 2010 . - 36. (. 12).

. 12.



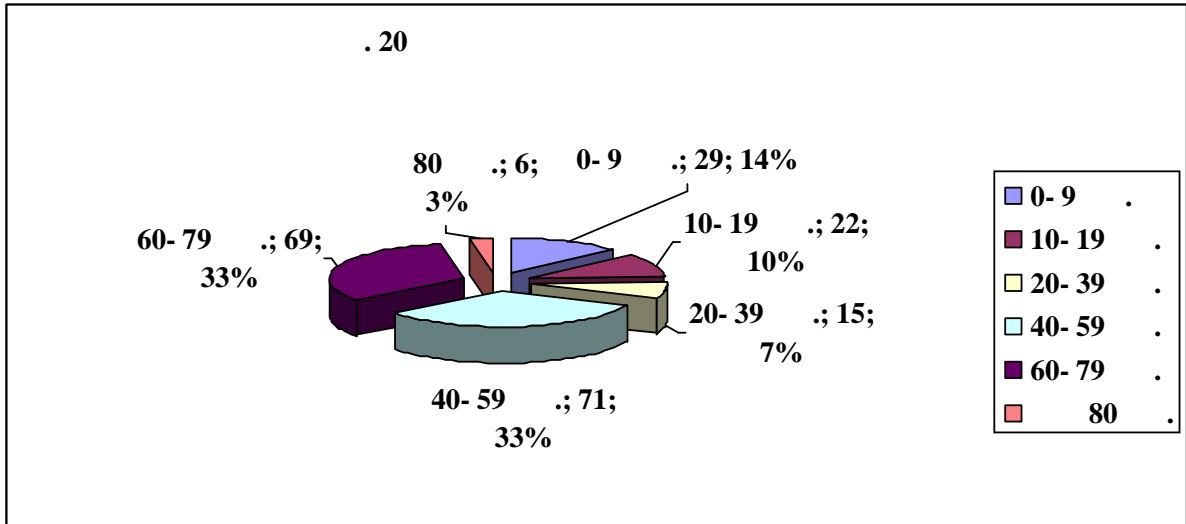
- , - 124
 58 % 88 42 % (. 13).

. 13.



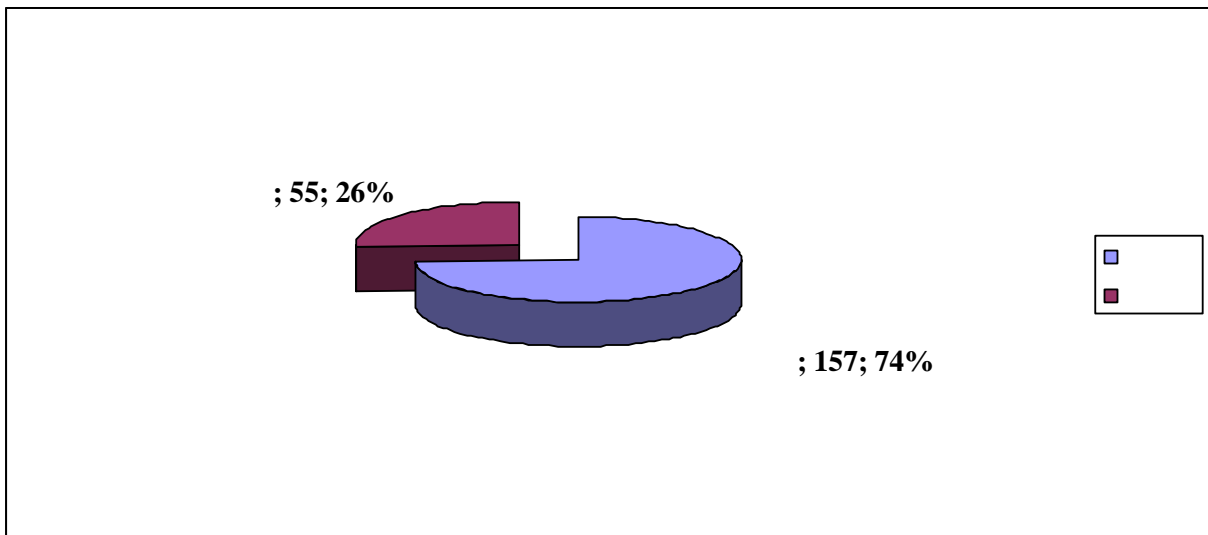
60 - 79 ., 71 69 40 - 59 33
 % (.14).

.14.



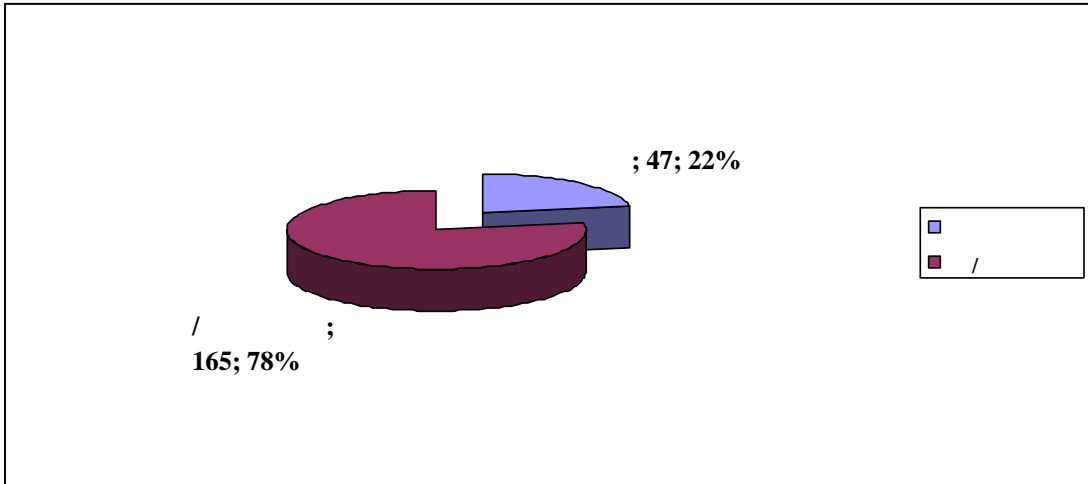
- 157 74 %, - ,
 -55 26 % (.15).

.15.



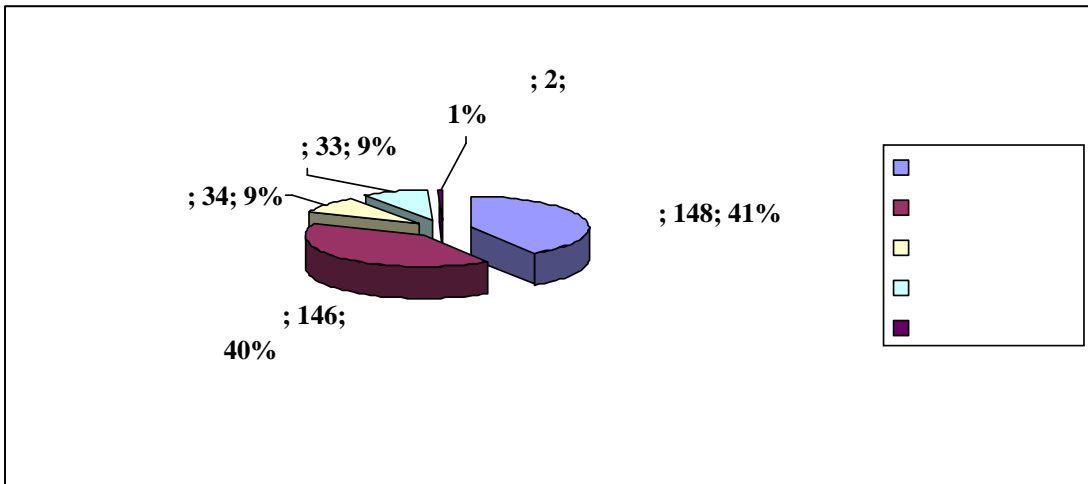
47 22 %, 165 (78 %)
 (.16).

. 16.



: - 2 (1 %), - 148 (41 %), - 146 (40 %),
 - 34 (9 %), - 33 (9 %). 212,
 . (.17)

. 17.



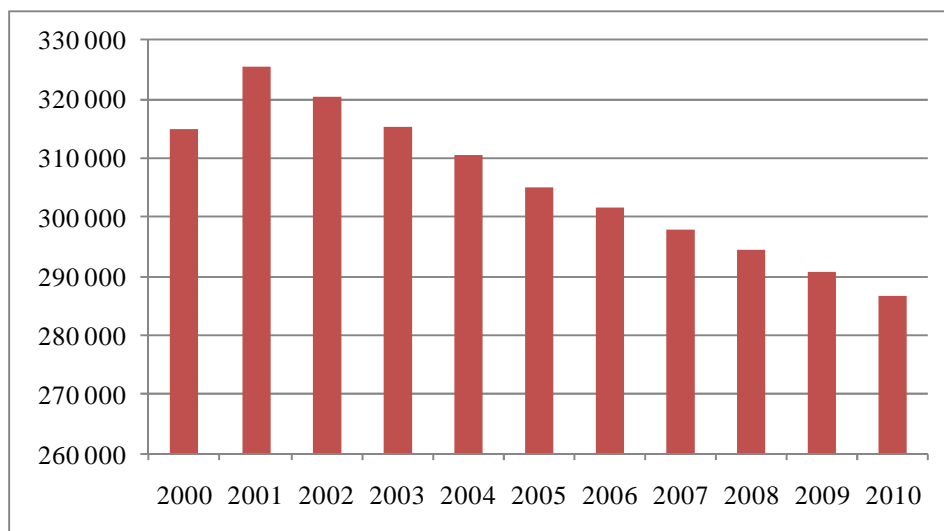
2000 . 2010 .

. 2.

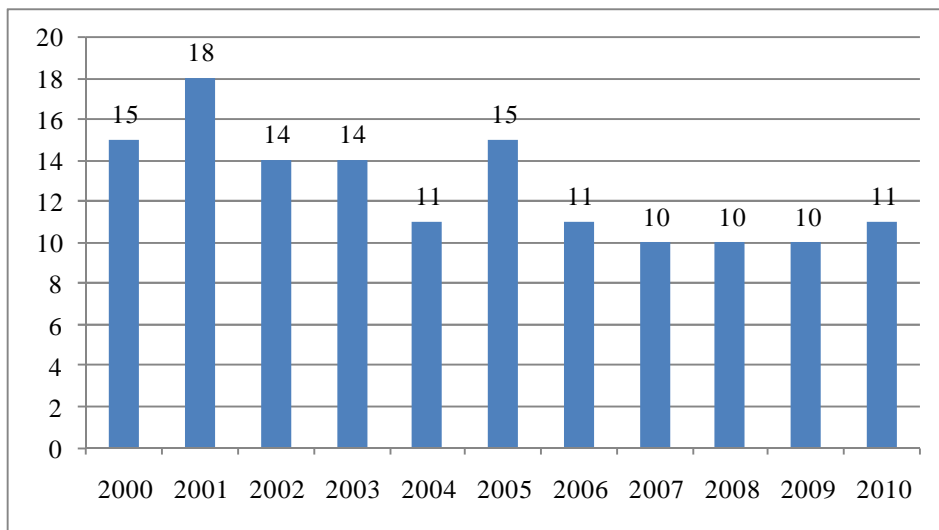
2001 – 2010

| | | | | | | | |
|------|---------|----|-----|----|----------|--------|-------|
| 2000 | 314 965 | 15 | 323 | 6 | 0,00190% | 1,86% | 2,80 |
| 2001 | 325 531 | 18 | 269 | 4 | 0,00123% | 1,49% | 1,56 |
| 2002 | 320 327 | 14 | 342 | 5 | 0,00156% | 1,46% | 2,50 |
| 2003 | 315 230 | 14 | 392 | 8 | 0,00254% | 2,04% | 4,00 |
| 2004 | 310 449 | 11 | 319 | 14 | 0,00451% | 4,39% | 8,91 |
| 2005 | 305 025 | 15 | 302 | 17 | 0,00557% | 5,63% | 7,93 |
| 2006 | 301 634 | 11 | 320 | 40 | 0,01326% | 12,50% | 25,45 |
| 2007 | 297 928 | 10 | 296 | 33 | 0,01108% | 11,15% | 23,10 |
| 2008 | 294 277 | 10 | 312 | 25 | 0,00850% | 8,01% | 17,50 |
| 2009 | 290 589 | 10 | 306 | 24 | 0,00826% | 7,84% | 16,80 |
| 2010 | 286 496 | 11 | 265 | 36 | 0,01257% | 13,58% | 22,91 |

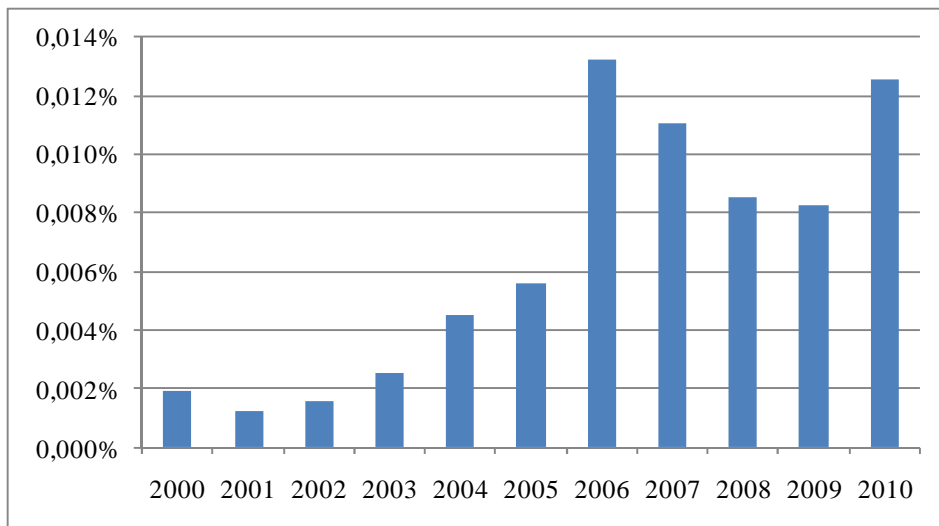
11 2000 2010
 (. 18). 2000 314 965,
 2010 286 496,
 30 000
 2000 2010 2000
 – 15, 2001 – 18, 2002 – 14, 2003 – 14, 2004
 – 11, 2005 – 15, 2006 – 11, 2007 – 10, 2008 – 10, 2009 – 10
 2010 – 11 (. 19).
 . 18.



. 19.



. 20.

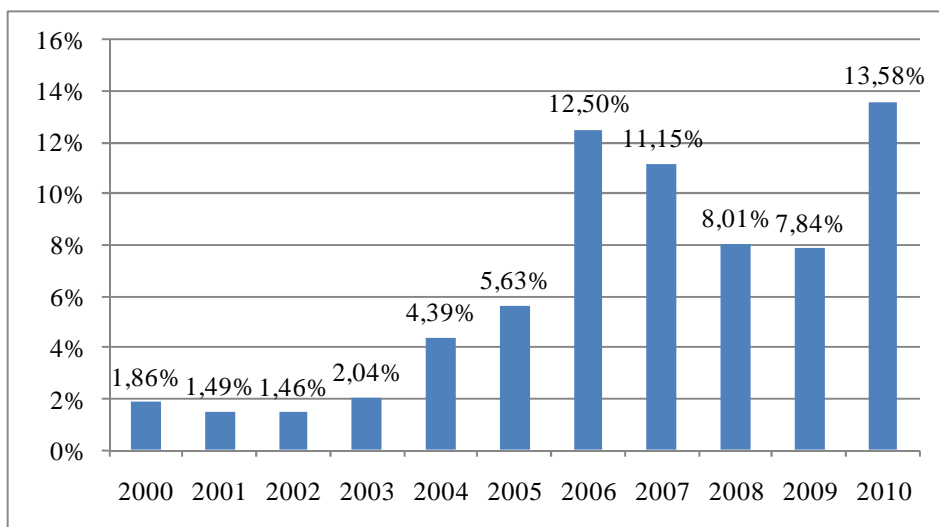


. 20.

(%)

2000 . 0,002%, 2001 . - 0,001%.
2002 . - 0,005%.
2003 . - 0,03%. 2004 . - 0,005,
0,013%, 0,011%, 0,009%, 0,008%, - 0,013%.

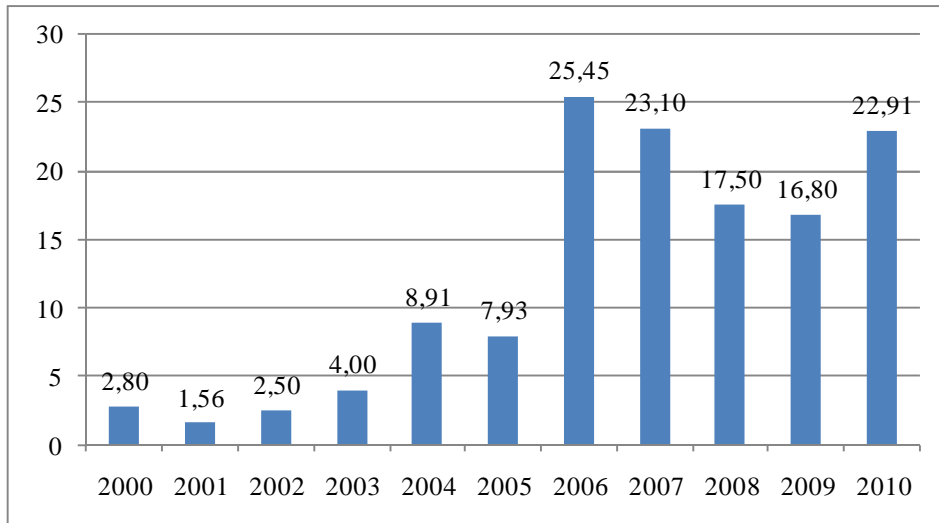
. 21.



. 21.

2000 . 1,86%, 2001 . – 1,49%, 2002 . – 1,46%, 2003 . – 2,04%, 2004 . – 4,39%, 2005 . – 5,63%, 2006 . – 12,50%, 2007 . – 11,15%, 2008 . – 8,01%, 2009 . – 7,84% 2010 . – 13,58%.

. 22.



. 22. 2000 . 2,80 ; 2001 – 1,56 ; 2002 – 2,5 ; 2003 . – 4,00 ; 2004 . – 8,91 ; 2005 . – 7,93 ; 2006 . –

25,45 ; 2007 . – 23,10 ; 2008 . – 17,50 ; 2009 . – 16,80 2010 .
– 22,91 .

4.3. ,,

(s – IgA)

“:

2009 . 2010 . 39 0 18
, 26 13 . 21 , 18
26 . 2 – 13 .

s-IgA
45.5793 mg/ml (. 3), – 21.9110 mg/ml (. 4).
IgA
– 1.4604 1.6684 (1.39 +/- 0.44,
).

. 3.

s-IgA

IgA

| | | | s-IgA (mg/ml) | Serum IgA |
|----|-------|-----|------------------|---------------------------------|
| 1 | 0.120 | 1.0 | 167.897 | 1.23 |
| 2 | 0.243 | 1.0 | 18.418 | 1.18 |
| 3 | 0.290 | 1.0 | 8.864 | 0.88 |
| 4 | 0.178 | 1.0 | 50.965 | 1.69 |
| 5 | 0.194 | 1.0 | 39.137 | 2.40 |
| 6 | 0.189 | 1.0 | 42.438 | 2.54 |
| 7 | 0.162 | 1.0 | 67.596 | 1.81 |
| 8 | 0.204 | 1.0 | 33.398 | 2.04 |
| 9 | 0.264 | 1.0 | 13.381 | 1.08 |
| 10 | 0.189 | 1.0 | 42.438 | 1.03 |
| 11 | 0.289 | 1.0 | 9.011 | 1.08 |
| 12 | 0.166 | 1.0 | 62.853 | 2.54 |
| 13 | 0.199 | 1.0 | 36.136 | 2.19 |
| | | | 45.5793 | 1.6684 (1.39+/-0.44) |

.4.

s-IgA

IgA

| | | | s-IgA (mg/ml) | Serum IgA |
|----|-------|-----|----------------|---------------------------------|
| 1 | 0.206 | 1.0 | 32.370 | 2.00 |
| 2 | 0.204 | 1.0 | 33.398 | 2.00 |
| 3 | 0.224 | 1.0 | 24.547 | 1.51 |
| 4 | 0.281 | 1.0 | 10.254 | 1.69 |
| 5 | 0.282 | 1.0 | 10.092 | 0.98 |
| 6 | 0.245 | 1.0 | 17.870 | 0 |
| 7 | 0.294 | 1.0 | 8.297 | 0 |
| 8 | 0.266 | 1.0 | 12.975 | 0 |
| 9 | 0.261 | 1.0 | 14.012 | 0.75 |
| 10 | 0.196 | 1.0 | 37.903 | 1.08 |
| 11 | 0.279 | 1.0 | 10.586 | 0.70 |
| 12 | 0.199 | 1.0 | 36.136 | 0.75 |
| 13 | 0.244 | 1.0 | 18.142 | 2.26 |
| 14 | 0.234 | 1.0 | 21.098 | 1.63 |
| 15 | 0.221 | 1.0 | 25.693 | 1.81 |
| 16 | 0.307 | 1.0 | 6.643 | 0.93 |
| 17 | 0.235 | 1.0 | 20.782 | 0.98 |
| 18 | 0.263 | 1.0 | 13.589 | 1.51 |
| 19 | 0.198 | 1.0 | 36.714 | 1.18 |
| 20 | 0.226 | 1.0 | 23.813 | 0.46 |
| 21 | 0.204 | 1.0 | 33.398 | 3.22 |
| 22 | 0.213 | 1.0 | 29.042 | 1.75 |
| 23 | 0.262 | 1.0 | 13.799 | 0.75 |
| 24 | 0.195 | 1.0 | 38.514 | 2.06 |
| 25 | 0.238 | 1.0 | 19.862 | 3.63 |
| 26 | 0.237 | 1.0 | 20.164 | 1.13 |
| | | | 21.9110 | 1.4604 (1.39+/-0.44) |

Windows®. s-IgA SPSS IgA

(Median) - ,

: 40.7875 mg/ml 20.7820 mg/ml, ,

- (. 5). -

(Std. Error of Mean) 10.56471, -

1.90262. -

(. 6). (Mean)

(Standart deviation, SD). -

45.5794, 21.9113. -

s-IgA 39.74172,

. - 9.88629.

. 7. , Paired

Samples Test. , +/-

(SD) (95% Confidence Interval of the

Difference) . , Paired Samples Test

(p=0.054).

s-IgA (. 23 . 24). . 23 -

, . 31 (26),

s-IgA (.

24).

.5.

s-IgA

Case Summaries^a a. Limited to first 100 cases

| | s-IgA() mg/ml | s-IgA () mg/ml |
|--------------------|-------------------|--------------------|
| 1 | 167.00 | . |
| 2 | 18.42 | 32.37 |
| 3 | 8.86 | 33.40 |
| 4 | 50.96 | 24.55 |
| 5 | 39.14 | 10.25 |
| 6 | 42.44 | 10.09 |
| 7 | 67.60 | 17.87 |
| 8 | 33.40 | 8.30 |
| 9 | 13.38 | 12.98 |
| 10 | 42.44 | 14.01 |
| 11 | 9.01 | 37.90 |
| 12 | 62.85 | 10.59 |
| 13 | 36.14 | 36.14 |
| 14 | 45.58 | 18.14 |
| 15 | . | 21.10 |
| 16 | . | 25.69 |
| 17 | . | 6.64 |
| 18 | . | 20.78 |
| 19 | . | 13.59 |
| 20 | . | 36.71 |
| 21 | . | 23.81 |
| 22 | . | 33.40 |
| 23 | . | 29.04 |
| 24 | . | 13.80 |
| 25 | . | 38.51 |
| 26 | . | 19.86 |
| 27 | . | 20.16 |
| 28 | . | 21.91 |
| Total N | 14 | 27 |
| Median | 40.7875 | 20.7820 |
| Std. Error of Mean | 10.56471 | 1.90262 |
| Minimum | 8.86 | 6.64 |

. 6.

Descriptive Statistics

| | N | Minimum | Maximum | Mean | Std. Deviation |
|--------------------|----|---------|---------|---------|----------------|
| s-IgA(k) | 14 | 8.86 | 167.90 | 45.5794 | 39.74172 |
| S-IgA(AD) | 27 | 6.64 | 38.51 | 21.9113 | 9.88629 |
| Valid N (listwise) | 13 | | | | |

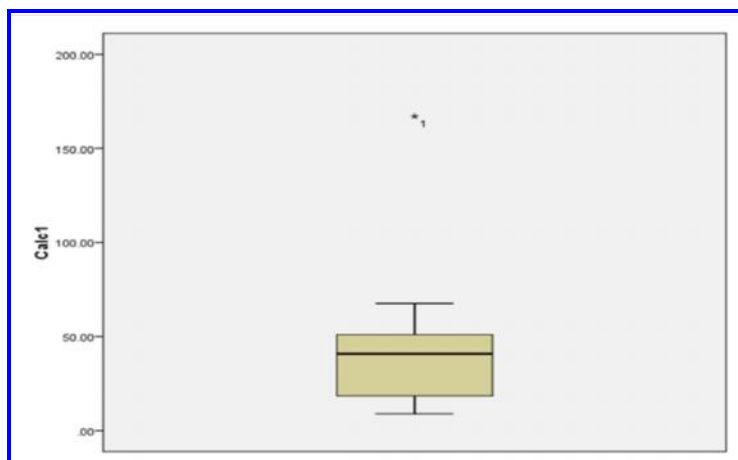
. 7. , +/- (SD) (95% Confidence Interval of the Difference)

Paired Samples Test

| | Paired Differences | | | | | | | Sig. (2-tailed) |
|----------------------------|--------------------|----------------|-----------------|---|----------|-------|----|-----------------|
| | Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | | t | df | |
| | | | | Lower | Upper | | | |
| Pair 1 s-IgA(k) – s-IgA() | 15.66402 | 26.48208 | 7.34481 | -.33894 | 31.66698 | 2,133 | 12 | ,054 |

. 23.

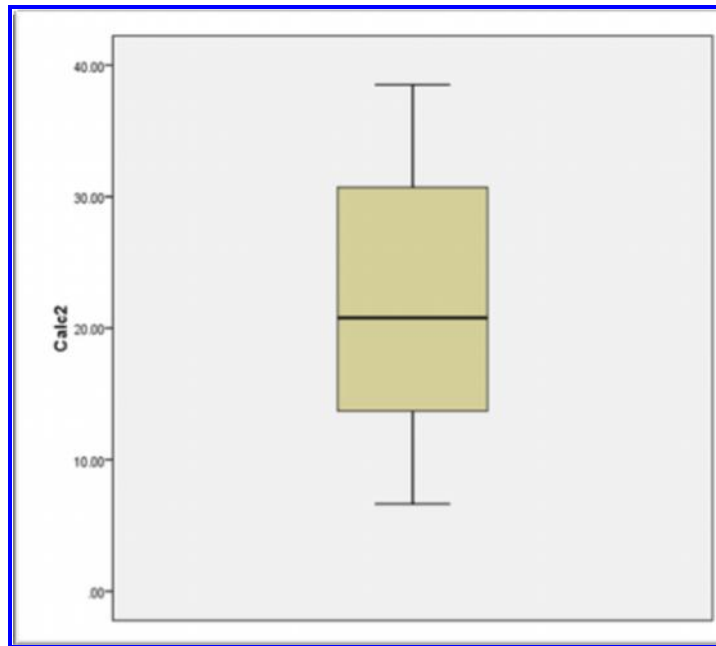
(Calc1* s-IgA)



. 24.

(Calc2*
)

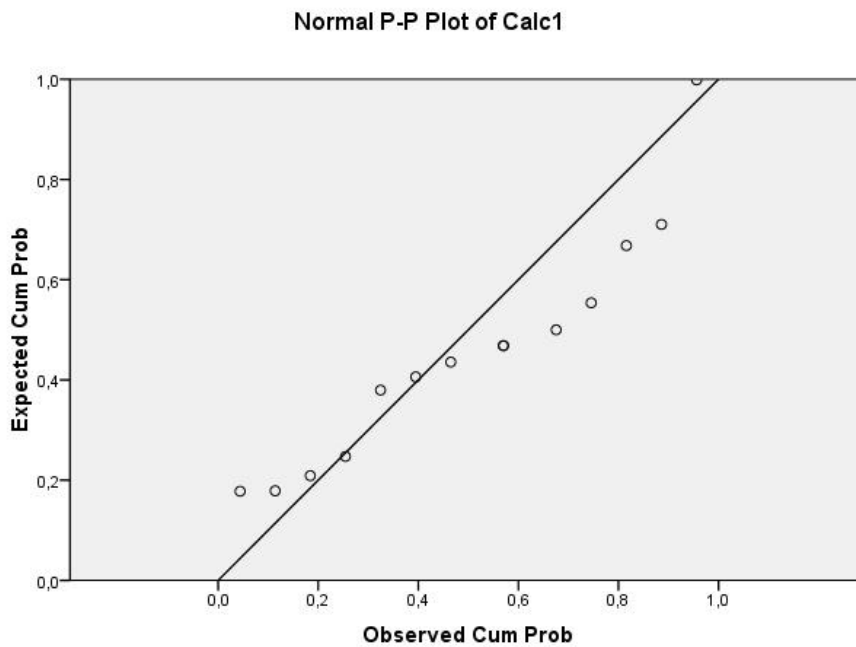
s-IgA



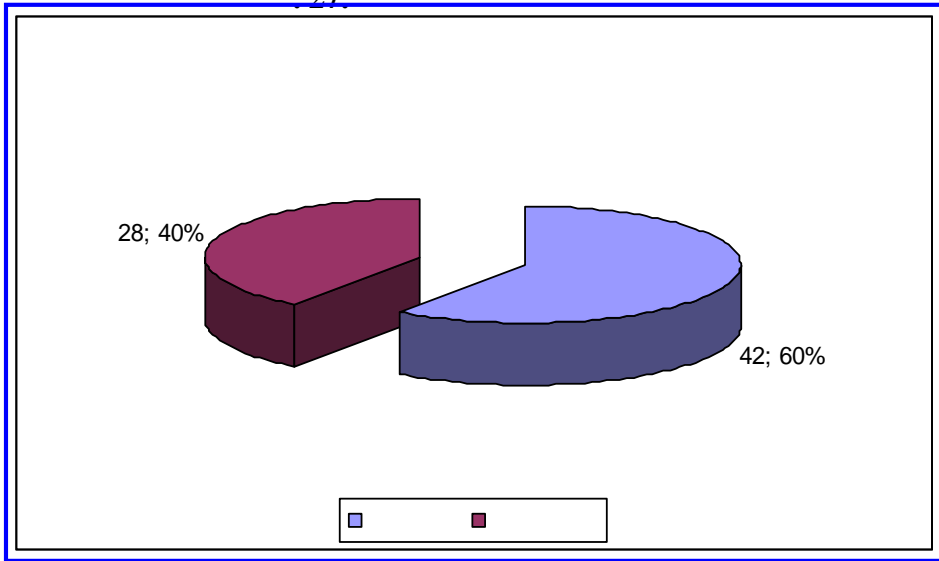
. 25.

s-IgA

IgA (Calc1*
)

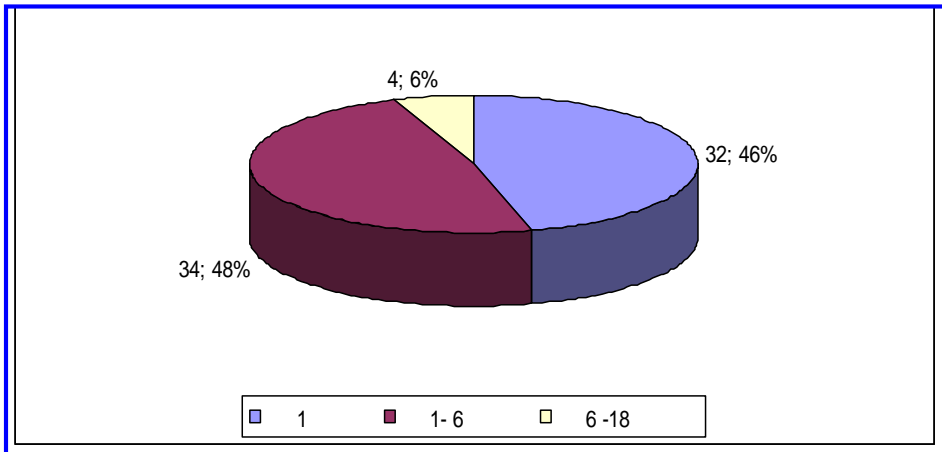


.27.



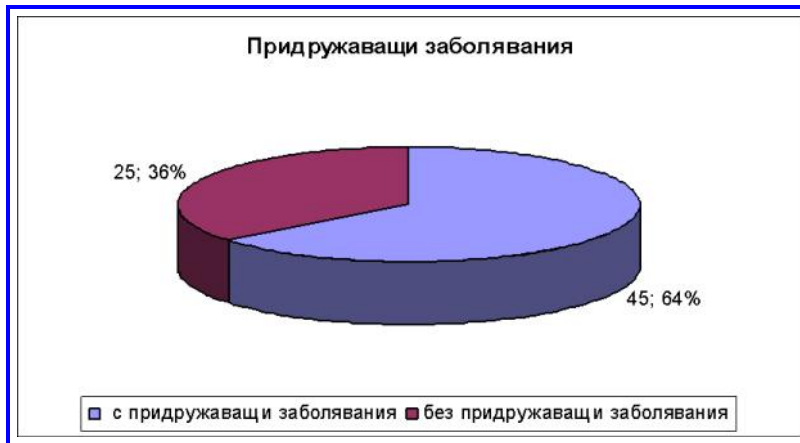
3 0 18 , 1
 - 32 (46%), 1 6 - 34 (48%) 6 18 - 4
 (6%) (.28).

.28.

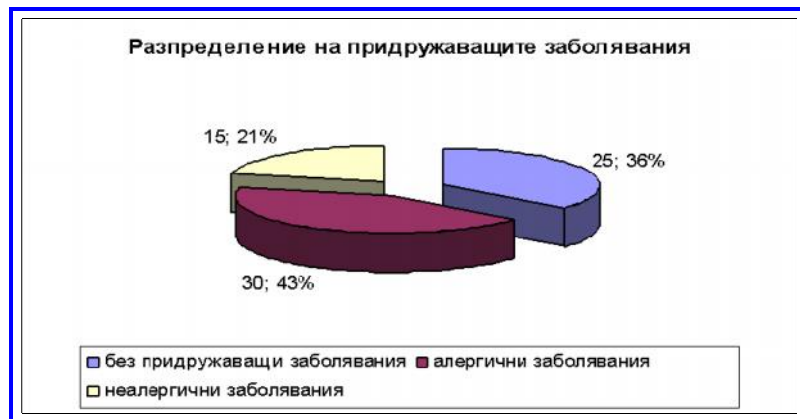


. 25 (36%)
 , 45 (64%) (.29).
 - 30 (43%)
 - 15 (21%). 25 (35%) (.30).

. 29.



. 30.



20 (29%)
, 45 (64%)

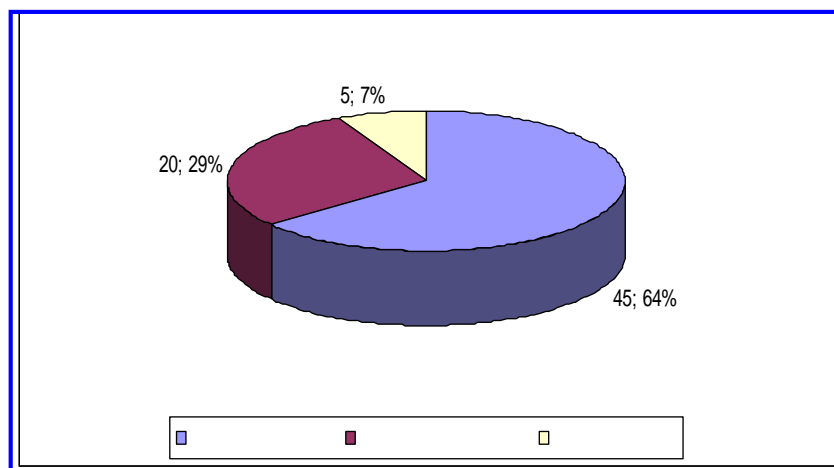
, 5 (7%) (. 31).

4 - ,

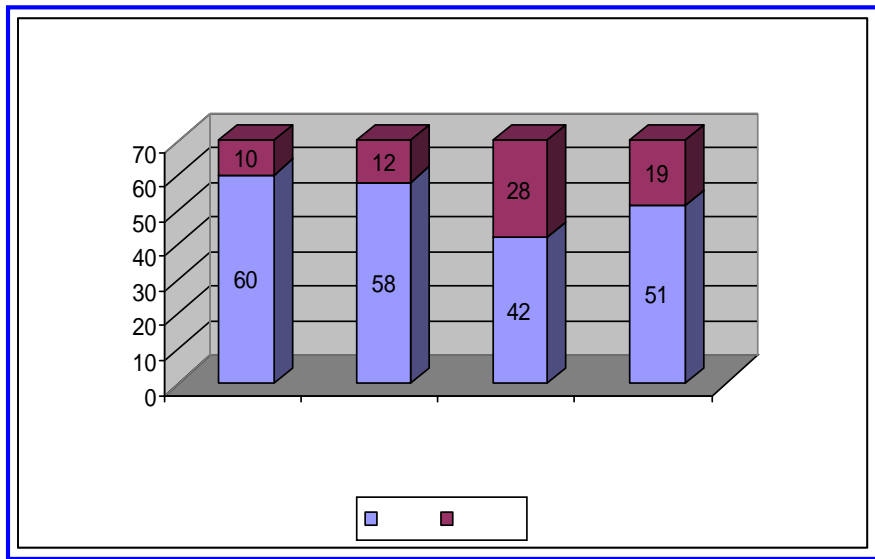
, (. 32). 60 , 58 ,

42 51 .

. 31.

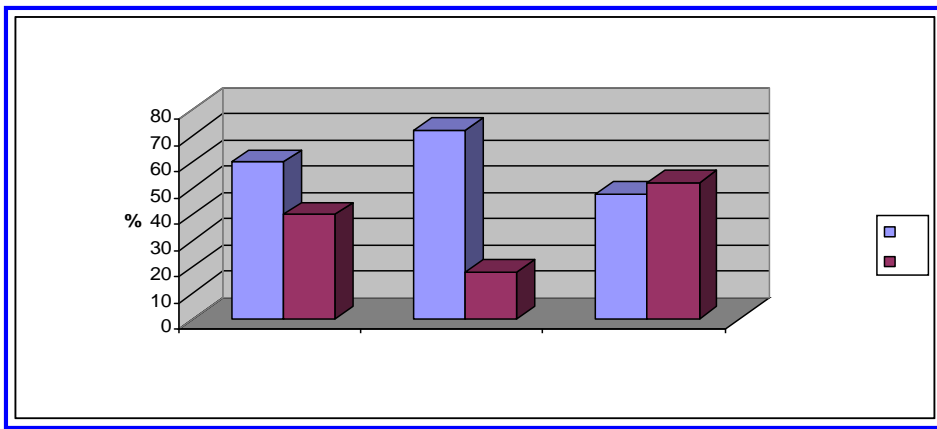


. 32.



(. 33).

. 33.



60
(. 34).

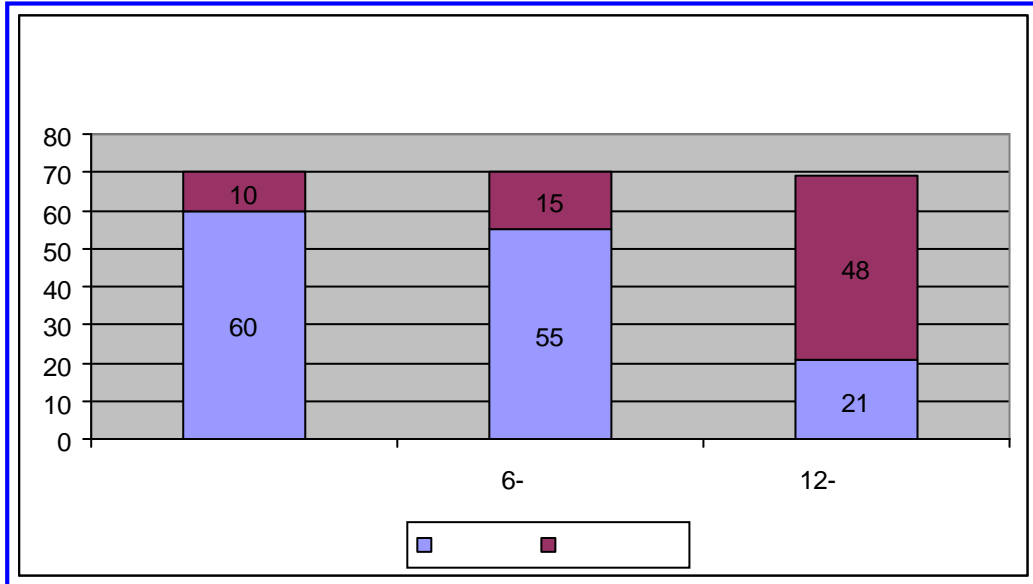
6-

55,

12-

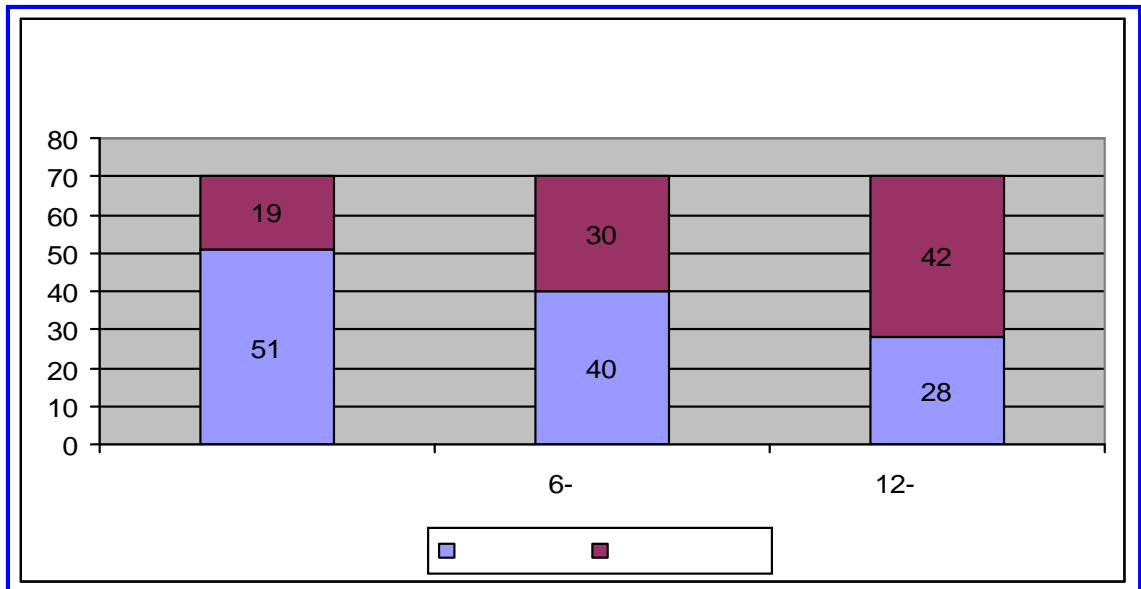
21

.34.

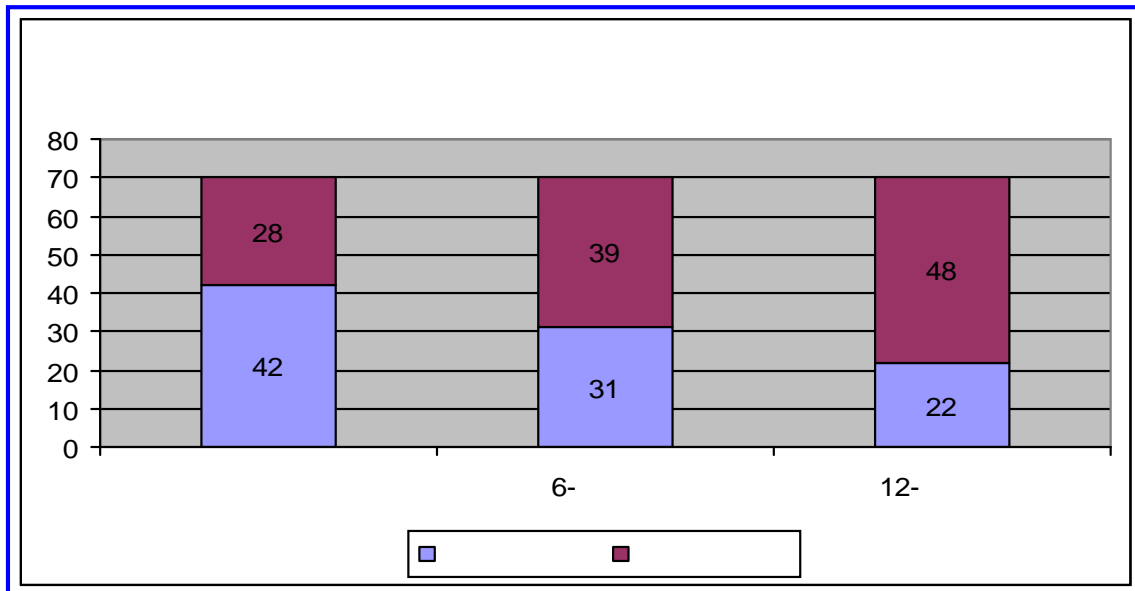


35 , 40 6- 51 28 12-

.35.



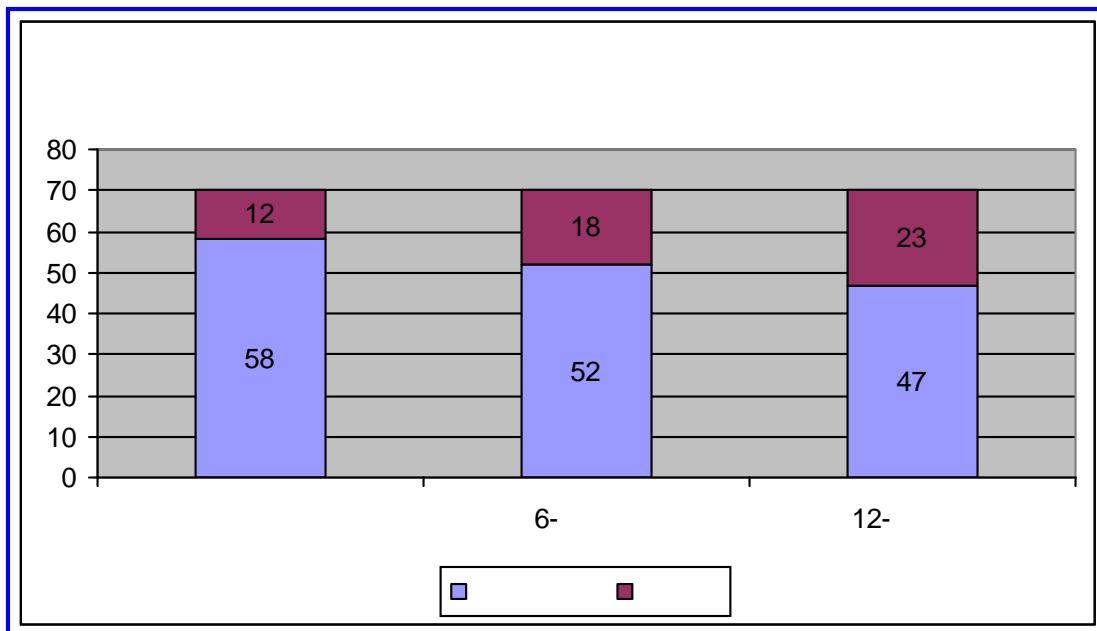
12- , . 36 42-
 , 31 6- 22
 .
 .36.



- 58

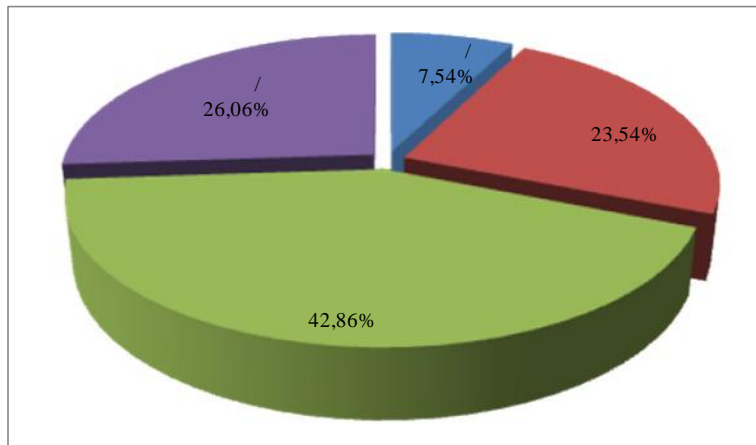
, 52 6- 47 12-
 (.37).

.37.



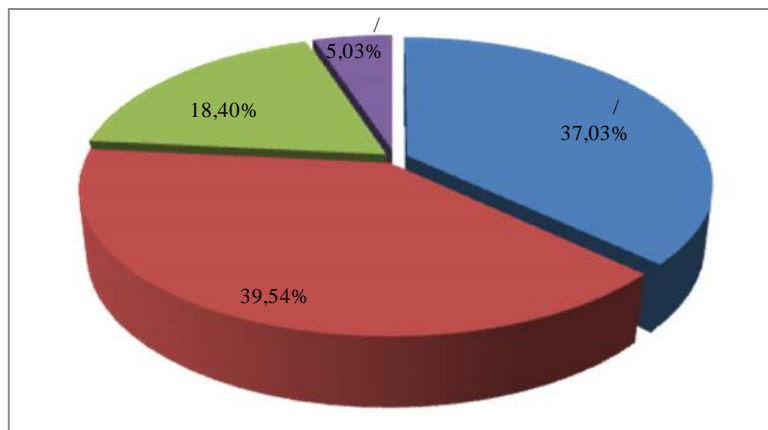
35 1 . 18 . (14,34 .)
25

35 a ,
4 - / ,
/ . 38
.38.



7,54% / ; 23,54%
; 42,86% 26,06%
/ .

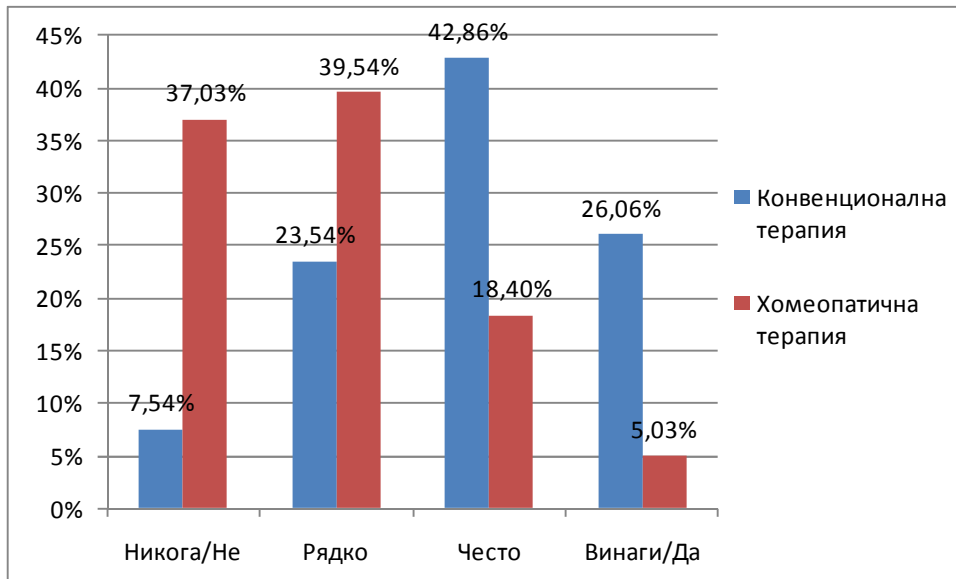
.39.



. 40.

/ ;
; 18,40 %
/ .
- 37,03 %
. 39,54 %
5,03 %

. 40.



/ 7,54%
37,03%
23,54%
39,54%
42,86%
18,40%
26,06%
5,03%

. 8.

. 9.,

.8.

| | / | | | / |
|----|----|-----|-----|-----|
| 1 | 3 | 9 | 16 | 7 |
| 2 | 3 | 8 | 16 | 8 |
| 3 | 1 | 9 | 16 | 9 |
| 4 | 0 | 6 | 16 | 13 |
| 5 | 4 | 12 | 15 | 4 |
| 6 | 2 | 12 | 15 | 6 |
| 7 | 2 | 7 | 17 | 9 |
| 8 | 2 | 9 | 14 | 10 |
| 9 | 7 | 11 | 11 | 6 |
| 10 | 3 | 9 | 18 | 5 |
| 11 | 1 | 6 | 16 | 12 |
| 12 | 0 | 9 | 16 | 10 |
| 13 | 0 | 3 | 13 | 19 |
| 14 | 4 | 8 | 16 | 7 |
| 15 | 1 | 7 | 15 | 12 |
| 16 | 5 | 10 | 15 | 5 |
| 17 | 2 | 11 | 14 | 8 |
| 18 | 4 | 6 | 14 | 11 |
| 19 | 3 | 6 | 16 | 10 |
| 20 | 3 | 6 | 15 | 11 |
| 21 | 2 | 10 | 14 | 9 |
| 22 | 2 | 7 | 12 | 14 |
| 23 | 4 | 10 | 15 | 6 |
| 24 | 6 | 8 | 14 | 7 |
| 25 | 2 | 7 | 16 | 10 |
| | 66 | 206 | 375 | 228 |

66 / ; 206 , 375 – 228
– / .
, / ,
– 324 346, / 161 44.

. 9.

| | / | | | / |
|----|-----|-----|-----|----|
| 1 | 13 | 13 | 7 | 2 |
| 2 | 11 | 12 | 10 | 2 |
| 3 | 10 | 17 | 8 | 0 |
| 4 | 10 | 16 | 8 | 1 |
| 5 | 8 | 13 | 10 | 4 |
| 6 | 7 | 13 | 10 | 5 |
| 7 | 9 | 17 | 6 | 3 |
| 8 | 11 | 15 | 6 | 3 |
| 9 | 10 | 15 | 8 | 2 |
| 10 | 12 | 16 | 6 | 1 |
| 11 | 14 | 13 | 6 | 2 |
| 12 | 22 | 11 | 2 | 0 |
| 13 | 15 | 12 | 4 | 4 |
| 14 | 12 | 14 | 7 | 2 |
| 15 | 21 | 9 | 5 | 0 |
| 16 | 9 | 17 | 9 | 0 |
| 17 | 10 | 18 | 7 | 0 |
| 18 | 17 | 12 | 5 | 1 |
| 19 | 12 | 14 | 7 | 2 |
| 20 | 15 | 14 | 5 | 1 |
| 21 | 14 | 13 | 5 | 3 |
| 22 | 19 | 13 | 3 | 0 |
| 23 | 17 | 13 | 4 | 1 |
| 24 | 15 | 13 | 5 | 2 |
| 25 | 11 | 13 | 8 | 3 |
| | 324 | 346 | 161 | 44 |

. 10.

| | / | | | / |
|--|--------|--------|--------|--------|
| | 7,54% | 23,54% | 42,86% | 26,06% |
| | 37,03% | 39,54% | 18,40% | 5,03% |

| | | | | | | |
|---|--------|--------|--------|--|--------|-------|
| | 23,54% | | 26,06% | | 42,86% | 7,54% |
| | | | | | 37,03% | |
| | | 39,54% | | | 18,40% | 5,03% |
| | 25 | 8 | | | | |
| • | 11. | | | | | |
| • | 12. | | | | | |
| • | 13. | | | | | |
| • | 15. | | | | | |
| • | 4. | | | | | |
| • | 18. | | | | | |
| • | 20. | | | | | |
| • | 22. | | | | | |

4.5.,, Immunobor Biotic “.

| | | | | | | |
|------|--------|--------|------|------------------------------------|--------|----|
| 2009 | 0 | 18 | 2010 | 2 | 10 | 25 |
| | | | | 15 | | |
| | 250 mg | | | Imunobor Biotic caps.(| | |
| | | | | (2.5 10' | | |
| | | | | - Lactobacillus bulgaricus, 250 mg | | |
| | | | | 10 | 3 | 1 |
| | | 2 | | | | |
| | | SCORAD | | | | |
| | 1- | | | 6- | | |
| | 41 | | | | | |
| | | | | | 40.00 | |
| | | | | 41.67 | | |
| | | | | | SCORAD | |

20.80

21.27

SCORAD

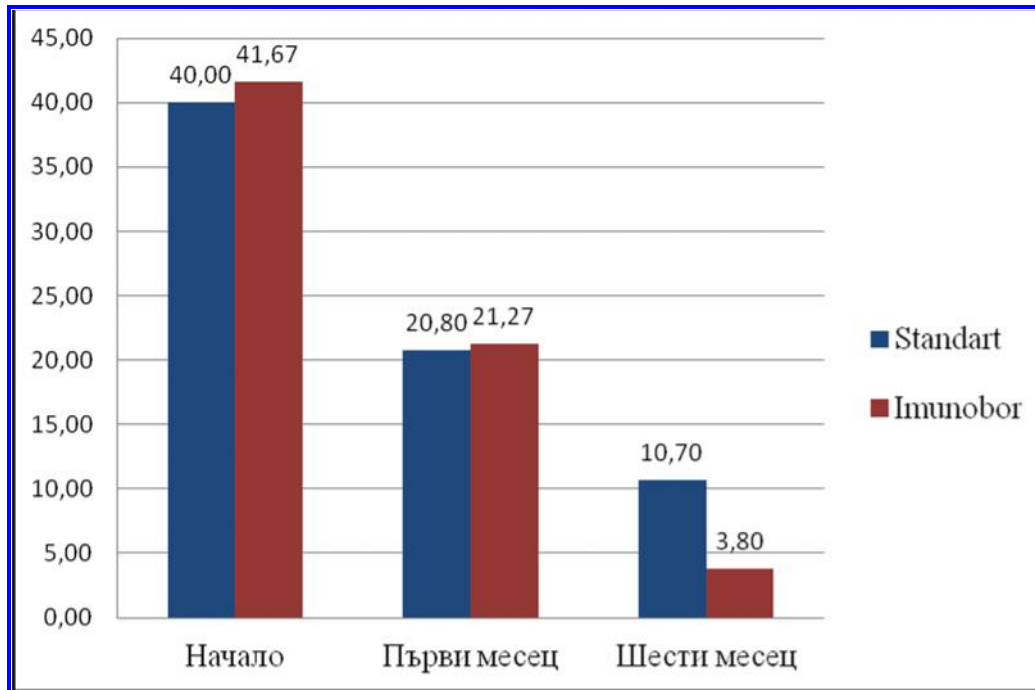
6-
- 3.80,

- 10.70,

3

.41

SCORAD



42

SCORAD

6-
%

25

20.00 %

6.67 %

+

25 - 50 %

60.00

%

66.66 %

50 %

20.00 %

o

Imunobor Biotic.

26.67 %

25-50 %

50 %

63

100 %

80 %.

100 %

46.67 %.

80 %

30 %

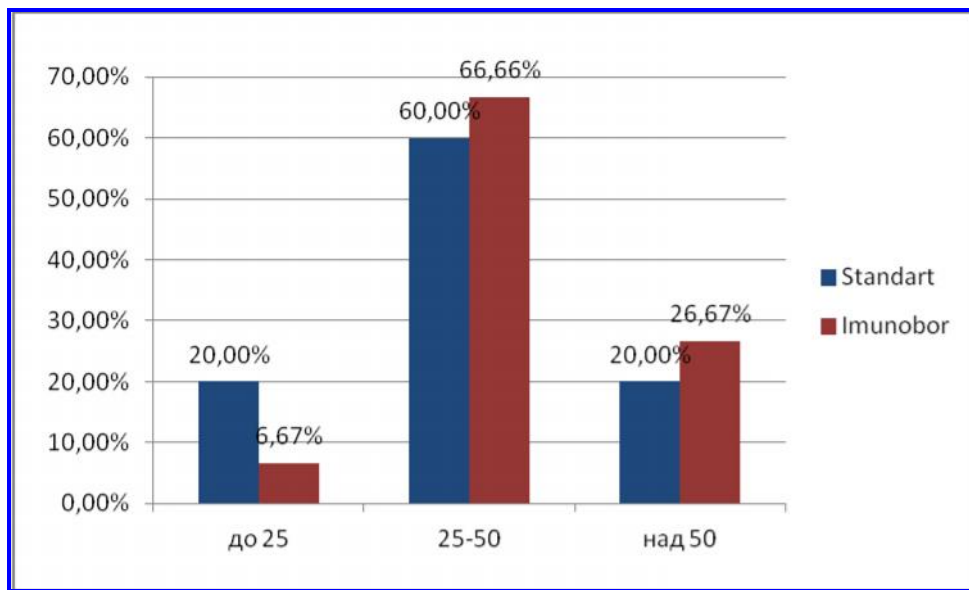
30 %

80 %.

. 42

SCORAD

6-

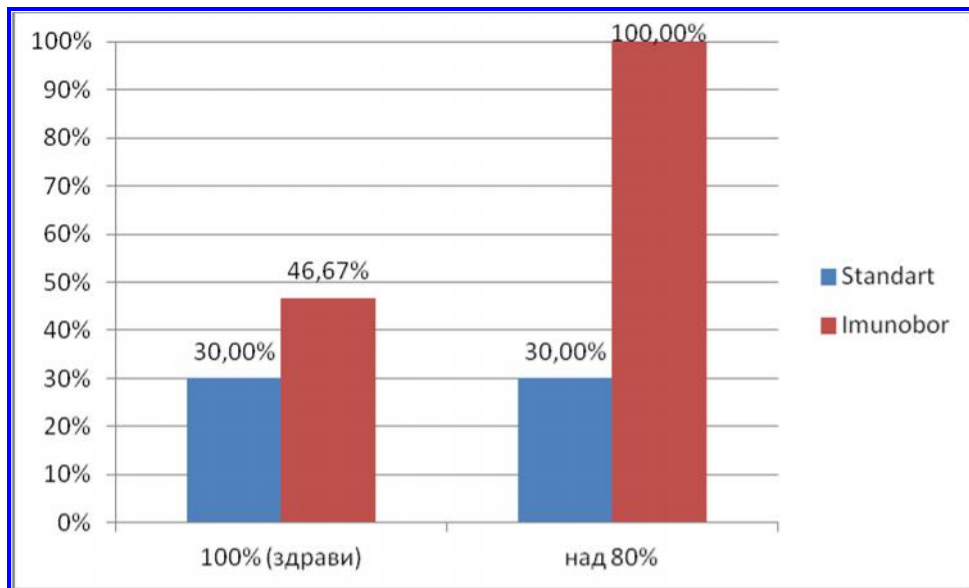


. 43.

SCORAD

100 %

80 %



11
SCORAD

Imunobor. (Min) SCORAD (Mean)
 15, (Max) 73. (Std. Deviation) –
 16.4141. (Median) 34.

. 11.

Imunobor.

| | Min | Max | Mean | Std. Deviation | Median |
|----|-----|-----|---------|----------------|--------|
| | 15 | 73 | 41.6667 | 16.4141 | 34 |
| I | 0 | 40 | 21.2667 | 13.0357 | 21 |
| VI | 0 | 14 | 3.8 | 4.2771 | 4 |

40. 1 0, 21.2667
 13.0357, 21.
 SCORAD :
 0, 1,
 40,
 1. 3.8, 7
 - 1. 4.2771,
 4.
 12 -
 SCORAD
 (Min) SCORAD
 15, (Max) 57.
 (Mean) 40, (Std.
 Deviation) – 12.7906. (Median) 42.

. 12.

| | Min | Max | Mean | Std. Deviation | Median |
|----|-----|-----|------|----------------|--------|
| | 15 | 57 | 40 | 12.7906 | 42 |
| I | 0 | 38 | 20.8 | 12.9368 | 24.5 |
| VI | 0 | 29 | 10.7 | 8.6029 | 12 |

38. 1 0, 20.8
 12.9368, 24.5.
 SCORAD :
 0, 1,
 29. 10.7, 2
 - 1.
 80.6029, 12.
 5.

()

11 2000 2010
 286 496, 2000 314 965, 2010
 30 000
 : 15
 2000 ., 2001 . - 18, 2002 . - 14, 2003 . - 9, 2004 - 11 , 2005 -
 15, 2006 . - 11 , 2007 . - 10, 2008 - 10, 2009 - 10, 2010 . - 11 .
 11 (2000 - 2010) -
 3296 , 212. 2006
 2007 .,
 , - 2008, 2009 2010
 , - 40 - 59 . (71,
 33%) 60 - 79 . (69, 33%).

18

“

2 – 3%

15 – 20%

157)

47 (22%)

60% (81%),

212,

11 (2000 – 2010)

3601 , 206. 2007, 2008, 2009

2010 .,

, 33 %) 60 – 79 . (83 , 41 %).

(64%, 131)

(36%, 75).

19 (9%)

206

– 2000 . – 2010 .

2000 . 273 251 , 246 670 2010

. 28 000.

2010 . 314 965 286 496

2000 .

IgA

16

45.5793 mg/ml,
Salimetrics™

367 µg/ml

mg/ml

s-IgA
- 21.9110 mg/ml.

(s-IgA) e

s-IgA

s-IgA
s-IgA

0 18 7

s-IgA

s-IgA

s-IgA

10.56471, s-IgA 40.7875 +/-
20.7820 +/- 1.90262.

39.74172, 45.5794,
- 9.88629, 21.9113,

(p=0.054).

- 26

s-IgA

s-IgA.

s-IgA

s-IgA

s-IgA

s-IgA

s-IgA.

s-IgA

IgA

D Malamud,

s-IgA
(single radial immunodiffusion – SRID).

- 1.6684 1.4604 (
) 1.39 +/- 0.44,

s-IgA.

IgA.

, (p=0.054).

IgA

IgA,

IgA

IgA

0

).

25

- 10

2

- 25

Lactobacillus bulgaricus

- 2,5

CFU/G.

Beta glucan () - 250 mg.

Lactobacillus bulgaricus

. Beta gluca ,

Th1 Th2

SCORAD 6-

SCORAD

. Sung Il Woo

Lactobacillus sakei

L sakei KCTC 10755BP
 SCORAD 25, 8
 12 31%
 6 40.00
 41.67
 SCORAD 20.80 21.27
 + SCORAD 6-
 - 10.70, 3 - 3.80,
 6,
 / 1 25 1
 Lactobacillus sakei Lactobacillus bulgaricus S. aureus
 Lactobacillus bulgaricus S. aureus.
 S. aureus
 Beta-glucan.
 SCORAD 6-
 - 3.80,
 SCORAD

10.70, 3 - 25 % 20.00 %
6.67 % 25 - 50 % 60.00 % +
66.66 % 20.00 % 50 %
26.67 % 25-50 % 50 % Imunobor Biotic.
Biotic Imunobor
50 % 25 % 50 %
30 %
/ / SCORAD
14 25,
7
£34.04

10% 20%

70 0

18

35

6

12 60 21,

12 51 12 28.

12 47

57

\$1700

\$2500.

2

Lapidus

\$365

Herd RM

British Journal of

Dermatology

6 10

. 71%

2/3

1/3

6.

1. - , - .
2. 4970 , - 40

3. , .
4. , - s-IgA.

4. - IgA.
, (p=0.054).

5. Lactobacillus bulgaricus
- 2,5 CFU/G (Beta glucan -
) - 250 mg SCORAD 6-

6. , .

7. , .
- .

7.

7.1. _____ :

7.1.1

7.1.1.1.

7.1.1.2

IgA IgA
SalimetricsTM

7.1.1.3.

7.1.1.4.

SCORAD

7.1.1.5.

7.1.2.

:

7.1.2.1.

7.1.2.2.

,

- s-IgA.

7.1.2.3.

SCORAD 6-

7.1.2.4.

7.2. _____ :

7.2.1.

IgA

IgA

7.2.2.

SCORAD

7.2.3.

() , 7-10 , 2011, ,

4. , , 2012 -

1. - (s - IgA) - : „ “,
- , 2009