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UNIVERSITY OF BELGRADE

FACULTY OF SPECIAL EDUCATION AND
REHABILITATION

Marija M. Anđelković

ADAPTIVE BEHAVIOR OF PERSONS WITH
VISUAL IMPAIRMENT

Doctoral Dissertation

Belgrade, 2016

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(Adaptive Behavior Assessment System II, ABAS, Harrison & Oakland, 2003).

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Adaptive behavior of persons with visual impairment

ABSTRACT

Researches about adaptive behavior of adult persons with visual impairment have mainly included only some segments of this concept. Having that in mind the aim of this study is to determine the acquisition level of adaptive skills (conceptual, social and practical), as well as relation between adaptive behavior and visual impairments parameters, family status, education and employment status of persons with visual impairment.

The sample included 131 respondents with visual impairments, aged between 19 to 60 years, of both genders. General data about respondents and about independent variables were gathered through a specially designed questionnaire. The data about adaptive behavior was obtained by using Adaptive Behavior Assessment System for adults (*Adaptive Behavior Assessment System II*, ABAS, Harrison & Oakland, 2003).

The obtained results show that the adaptive skills of persons with visual impairment, compared to the norm sample, are at the borderline level. Observed by domains, respondents with visual impairment achieved the best scores in Social Domain, then in Conceptual Domain, and the lowest in Practical Domain. The level of visual impairment, age, family status, awareness level of visual impairment and social acceptance were the most significant factors of achievement of adaptive skills in general, as well as of social, conceptual and practical skills for respondents with visual impairments.

Based on the research results it is possible to give recommendations for creating the intervention plan for acquisition of adaptive skills with the purpose of accomplishing the independent functioning and social integration of persons with visual impairment.

Keywords: adaptive behavior, conceptual skills, social skills, practical skills, with visual impairment

Scientific field: Special education and rehabilitation

Scientific subfield: Special education and rehabilitation of persons with visual impairment

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90- (Sparrow, Cicchetti, & Balla, 2005, Tasse' et al., 2012),

(Matson, Rivet, Fodstad, Dempsey, T. & Boisjoli, 2009).

(Diagnostic Adaptive Behavior Scale, DABS).

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(Scales of Independent Behavior -Revised (SIB-R); Bruininks et al., 1996, Tasse' et al., 2012)

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Kouwenberg, 2000).
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15%

(Jackson, 2005).

(Bonney, 1992; Uysal & Aki, 2012; Yalo, Indoshi & Agak, 2012, Harris-Brown, Richmond, Della Maddalena & Jaworski, 2015). 50%

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(Jackson, 2005; Klingenberg, Fosse & Augestad, 2012).

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2003; Tabrett & Latham, 2012; Walter, Althouse, Humble, Smith & Odom, 2007).

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, 56% (Lindo & Nordholm, 1999).

, (Dinsmore & Kirchner, 2004, McMahon & Curtis, 2009; Latham & Usherwood, 2010).

(Kirchner, Johnson & Harkins, 1997).

92% (Lindo & Nordholm, 1999), 53%

(Crudden et al., 1998, Nagle, 2001). (Ryles, 1996)

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(Bell et al., 2002; Corn, Wall & Bell, 2000).

, (Reid, 1998).

90%

(Hesketh, 1999).

) (Bardin & Lewis, 2008).

(Adetoro, 2010).

70%

(Bayir, Keser & Numanoglu, 2010).

(Goudiras et al., 2009).

(Douglas et al., 2007; Gerber, 2003, Pfeiffer & Pinquart, 2012).

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80%

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(Kozub & Oh, 2004, Kozub, 2006).

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2009).
(: Hayeems, Geller, Finkelstein & Faden, 2005; Newbold, 1987, Ryan, 2002; Sugawara et al., 2010; Bellmann & Holz, 2001, Wahl et al., 2003).

(Gold & Simson, 2005) 75%
(Grow, Alpass & Stephens, 2009; Lamoureux, Hassell & Keeffe, 2004; Lamoureux et al., 2008; Langelaan et al., 2007; Sloan et al., 2005).

(Popivker et al., 2010).
40 64
(Boerner & Cimarolli, 2005; Popivker et al., 2010).

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(Center on an Aging Society, 2002, O'Day et al., 2004).

(Gold & Simson, 2005)

8%

12%

(Campbell et al., 1999; Gold & Simson, 2005).

(O'Day et al., 2004; van Nispen et al., 2009; Wang, Mitchell & Smith, 2000).

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Stuck et al., 1999).

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(Iezzoni, Davis & Soukup, 2002; 2003; Iezzoni & O'Day, 2003, O'Day et al., 2004).

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, (Grills & MacDonald 1997, Beverley et al., 2004).

(Brown et al., 2010, Loebel & Whitehead, 2011).

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(Montarzino et al., 2007)

(Pavey, Dodgson, Douglas & Clements, 2009).

(FEMA, 1999).

(FEMA, 1999).
(Gül & Hazer, 2003, ahingöz & ahin, 2012)

75% (Shackelford, 2004).

3.1.3.3.

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(Brotherson et al., 2008; Wagner, 2004). (Wolffe & Sacks, 1997)

(Iselin & Lewis, 2002; Wolffe & Sacks, 1997). (Iselin & Lewis, 2002)

(Iselin & Lewis, 2002). (Hesling, 1979)

(Alma et al., 2012) 23%

(Alma et al., 2012; Desrosiers et al., 2009).

(Schmier, Halpern & Covert, 2006)

(Charles & Manthorpe, 2009)

(Cook, Yohannes, Le Scoullier, Booy &

O'Neill, 2005)

(Demiris et al., 2004; Long, 1995).
2005)

(Hanson & Percival,

Ivanoff & Sonn, 2005).

3.1.3.4.

(Ambrose & Corn, 1997; Pollard et al., 2003).

(Horowitz, 2004, Berger, 2012; Desrosiers
et al., 2009; Jones & Jain, 2006; Primeau, 1996, Roentgen, Gelderblom, Soede & de
Witte, 2009).

(Douglas et al., 2007; Wahl et al., 2003).

, retinitis pigmentos
(
: Burmedi et al., 2002a; Noe et
al., 2003; Tabrett & Latham, 2012; Wahl et al., 2003). (Herse, 2005)

retinitis pigmentos

87%

e (Turano et al., 1999, Herse, 2005).

(Ambrose & Corn, 1997;

Ryan, 2002; Montarzino et al., 2007).

(Hayeems et al., 2005; Popivker et al., 2010).

(Hayeems et al., 2005)

(Long, Boyette & Griffin-Shirley, 1996; Zou, Zhang, Xu, Bai & Wolffsohn, 2005).

(Binns et al., 2012; Gold & Simson, 2005; Lindo & Nordholm, 1999; Montarzino et al., 2007; Shimizu, 2009).

(Pavey et al., 2009).

, 30–40%

(30–45%)

(Douglas, Pavey, Corcoran & Clements, 2012; Montarzino et al., 2007; Shimizu, 2009).

(Douglas et al., 2012)

40%

(Golledge & Marston, 1999; Marston, 2002; Marston & Golledge, 2000, Marston & Golledge, 2003).

(Shackelford, 2004)

(Shackelford, 2004).

(: Ball & Nicolle, 2015; Long, et al., 1996).

(Lindo & Nordholm, 1999).

3.1.3.5.

(Baril, 2013; Leonard, D'Allura & Horowitz, 1999).

(Alma et al., 2012)

(La Grow, 2004a,

: Lee & Park, 2008).

(Shaw et al., 2007, Baril, 2013)

36%

19%

(Baril, 2013)

26%

35% 64%

(Bell & Mino, 2013; Crudden & McBroom, 1999).

(Leonard et al., 1999)

(54%)

(49%).

, ,
al., 1999).

(Leonard et

(Popivker et al., 2010).

(Popivker et al., 2010). (Bruce
& Baker, 2005)

(Giesen & Ford, 1986a, Giesen et al., 1985, Knowles, 1969,
Crudden & Hanye, 1999). (Hewett, Douglas,
& Keil, 2014). (Leonard et al., 1999)

(Bell & Mino, 2013;
Crudden & McBroom, 1999; Hewett et al., 2014; Gold & Simson, 2005; McDonnall, 2011;
Crudden et al., 1998, Nagle, 2001).

(Bell & Mino, 2013). 25%
, 22%
, 13% (Nagle, 2001).
(Crudden et al., 1998, Nagle, 2001)

(Bell & Mino, 2013; Leonard
et al., 1999).

(Bell & Mino, 2013; Ryles, 1996).

(Baril, 2013; Bell & Mino, 2013; Leonard et al., 1999; Zhou
et al., 2013).

(Bell & Mino, 2013; O'Day, 1999). 70%

(Gold & Simson, 2005).

23%

(Gold & Simson, 2005).

Kosciulek, 2010;

: Baril, 2013).

Hewett, Douglas & Keil, 2016).

(: Baril, 2013;

(Golub, 2006),

(McDonnall, 2011; Moore, 1999; O'Mally & Antonelli, 2016).

(Joseph & Robinson, 2012, Baril, 2013).

(Keller, Schretzmann & Stegie, 1999), 57%

(McDonnall, 2011).

(Butler, Crudden & Sansing, 2005; Olson, 2012).

(O'Day, 1999; Slade & Simkiss, 2008; Schur, Kruse, & Blanck, 2005). , (Joseph & Robinson, 2012, La Grow & Daye, 2005, Baril, 2013). (Gold & Simson, 2005) 16%

(Gold & Simson, 2005).

(48%) (28%) (25%) (Crudden & Mc Broom, 1999).

23,4%

/ ,

(McDonnall, O'Mally & Crudden, 2014).

, (Bengisu, Izbirak & Mackieh, 2008; Bruce & Baker, 2005; Jang et al., 2013; Cosandrey, 2007, Tonkovi , 2003, Kafka, 2013).

(Deshen, 1992; Hanley-Maxwell et al., 1990, Rimmerman & Morgenstern, 2003).

(81%) , 15% (Keller et al., 1999).

(Keller et al., 1999) 87%

(Bell & Mino, 2013; McConnell, 1999).

(Bernick, 1978, Beach et al., 1995)

’ ,
(Beach et al., 1995).

’ ,
: Cimarolli & Wang, 2006;
Morgenstern, 2003).

(
: Kafka, 2013; Rimmerman &

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65

(49,6%) 66 (50,4%).

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(25,2%)

19

24

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25 34,

69

35 45 (N=32; 24,4%) , 34
 (26%) 46 60 . ,
 (N=63; 48,1%),
 (N=42; 32,1%) (N=26; 19,8%).
 , :
 (N=4; 3,1%), (N=86; 65,6%) (N=41; 31,3%).
 ,
 (N=81; 61,8%), (N=50;
 38,2%). :
 (N=38; 29%), (N=34; 26%) (N=30;
 22,9%) (N=29; 22,1%).
 (N=83; 63,4%).
 (N=95; 72,5%), 36 (27,5%)

I –

	N	%		N	%
	65	49,6		81	61,8
	66	50,4		50	38,2
19-24	33	25,2		4	3,1
25-34	32	24,4		86	65,6
35-45	32	24,4		41	31,3
46-60	34	26			
	48	36,6		95	72,5
	83	63,4		36	27,5

	38	29,0		63	48,1
	34	26,0		26	19,8
	30	22,9		42	32,1
	29	22,1			

(N=82; 62,6%),
0,05, , 49
(37,4%) ,
0,05 0,3.
(N=80; 61,6%), 51
(38,9%).
, .
(N=89; 67,9%)
(N=40; 31%),
(N=2; 1,1%). (N=51)
, 42 (82,4%)
, 9 (17,6%)
. (N=69; 52,7%)
,
(N=62; 47,3%).
(N=59; 45%) , 52 (39,7%)
19 (14,5%) .

2 –

	N	%		N	%
	82	62,6		80	61,1
	49	37,4		51	38,9
	89	67,9		20	15,3
	40	31		108	82,4
	2	1,1			
, ?					
	8	6,1		19	14,5
	3	2,3		52	39,7
	2	1,5		59	45
			, ?		
	16	12,2		12	9,2
	25	19,1		3	2,3
				2	1,5
			? ,		
	34	26,0	/	20	15,6
	56	42,7		12	9,2
	2	1,5		2	1,5
	39	29,8			
	42	82,4		62	47,3
	9	17,6		69	52,7

(p=0,930) (p=0,994). (p=0,671),
 (p=0,541). ,
 (p=0,160).
 .
 3
 : , ,
 , , .
 : (r=0,235; p<0,007), (r=-
 0,229; p<0,009) (r=0,275; p<0,001). ,
 : (r=0,235; p<0,004) (r=-0,245; p<0,005).
 (r=-0,229; p<0,009). ,
 (r=-0,271; p< 0,086) (r=-0,296; p<0,060).
 (r=0,245; p<0,080),
 (r=-0,23; p<0,008).
 : (r=-0,362; p 0,000)
 (r=0,346; p 0,000).
 (r=0,463; p 0,000),
 (r=-0,476; p 0,000),
 (r=0,435; p 0,000).
 (r=0,611; p 0,000).

(p)

(r)

(MANCOVA).

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	r	1	0,004	0,105	-0,116	-0,005	-0,036	0,145	0,089	0,058	-0,017	0,046	-0,073	-0,026	-0,028	0,033	-0,006	0,052
	p		0,968	0,235	0,188	0,953	0,684	0,101	0,582	0,514	0,904	0,605	0,407	0,769	0,755	0,707	0,946	0,555
2	r	0,004	1	-0,085	0,235	0,025	-0,235	-0,162	0,100	0,143	-0,086	-0,191	0,006	0,611	-0,245	0,105	0,118	0,463
	p	0,968		0,335	0,007	0,778	0,004	0,065	0,535	0,104	0,542	0,029	0,949	0,000	0,005	0,234	0,180	0,000
3	r	0,105	-0,085	1	-0,002	0,097	-0,081	0,123	0,049	0,132	0,081	-0,003	-0,476	0,031	-0,048	0,065	0,107	0,117
	p	0,235	0,335		0,978	0,275	0,362	0,165	0,762	0,132	0,569	0,977	0,000	0,723	0,590	0,463	0,223	0,184
4	r	-0,116	0,235	-0,002	1	-0,096	-0,229	0,087	0,159	0,128	-0,043	0,147	-0,071	0,120	0,087	-0,094	0,275	0,147
	p	0,188	0,007	0,978		0,277	0,009	0,325	0,320	0,146	0,765	0,094	0,422	0,173	0,324	0,286	0,001	0,093
5	r	-0,005	0,025	0,097	-0,096	1	-0,093	0,038	0,075	0,031	0,127	-0,141	0,017	-0,061	-0,020	-0,075	0,143	0,028
	p	0,953	0,778	0,275	0,277		0,300	0,668	0,641	0,723	0,369	0,111	0,845	0,494	0,823	0,395	0,107	0,755
6	r	-0,036	-0,253	-0,081	-0,229	-0,093	1	0,105	-0,312	0,169	0,017	0,216	0,078	-0,149	-0,090	-0,016	-0,192	-0,106
	p	0,684	0,004	0,362	0,009	0,300		0,238	0,050	0,056	0,908	0,014	0,383	0,093	0,310	0,862	0,030	0,235
7	r	0,145	-0,162	0,123	0,087	0,038	0,105	1	0,035	-0,044	0,034	0,122	-0,113	-0,015	-0,110	0,075	0,064	-0,032
	p	0,101	0,065	0,165	0,325	0,668	0,238		0,828	0,620	0,812	0,166	0,199	0,864	0,212	0,398	0,470	0,714
8	r	0,089	0,100	0,049	0,159	0,075	-0,312	0,035	1	0,038	-0,174	-0,007	-0,128	0,193	0,041	-0,271	-0,296	0,107
	p	0,582	0,535	0,762	0,320	0,641	0,050	0,828		0,812	0,275	0,967	0,426	0,227	0,797	0,086	0,060	0,505
9	r	0,058	-0,143	-0,132	-0,128	0,031	0,169	0,044	0,038	1	0,245	0,011	0,145	-0,153	0,022	-0,067	-0,231	-0,042
	p	0,514	0,104	0,132	0,146	0,723	0,056	0,620	0,812		0,080	0,903	0,097	0,081	0,803	0,448	0,008	0,631
10	r	-0,017	-0,086	0,081	-0,043	0,127	0,017	0,034	-0,174	0,245	1	0,177	0,015	-0,166	-0,133	-0,159	-0,199	-0,026
	p	0,131	0,542	0,569	0,765	0,369	0,908	0,812	0,275	0,080		0,208	0,914	0,240	0,346	0,260	0,158	0,853
11	r	0,046	-0,191	-0,003	-0,147	-0,141	0,216	0,122	-0,007	0,011	0,177	1	0,064	-0,066	-0,006	0,003	-0,119	-0,071
	p	0,506	0,029	0,977	0,094	0,111	0,014	0,166	0,967	0,903	0,208		0,466	0,452	0,947	0,975	0,177	0,422
12	r	-0,073	-0,006	-0,476	-0,071	-0,017	-0,078	-0,113	-0,128	0,145	0,015	0,064	1	-0,029	-0,113	-0,126	-0,026	-0,162
	p	0,407	0,949	0,000	0,422	0,845	0,383	0,199	0,426	0,097	0,914	0,466		0,745	0,201	0,153	0,768	0,065
13	r	-0,026	0,611	0,031	0,120	-0,061	-0,149	-0,015	0,193	-0,153	-0,166	-0,066	-0,029	1	-0,362	0,215	0,141	0,346
	p	0,605	0,000	0,723	0,173	0,494	0,093	0,864	0,227	0,081	0,240	0,452	0,745		0,000	0,014	0,108	0,000
14	r	0,028	-0,245	-0,048	0,087	-0,020	-0,090	-0,110	0,041	0,022	-0,133	-0,006	0,113	-0,362	1	-0,435	0,065	-0,096
	p	0,755	0,005	0,590	0,324	0,823	0,310	0,212	0,797	0,803	0,346	0,947	0,201	0,000		0,000	0,458	0,274
15	r	0,033	0,105	0,064	0,094	-0,075	-0,016	-0,075	-0,271	-0,067	-0,159	0,003	-0,126	0,215	-0,435	1	0,023	0,093
	p	0,707	0,234	0,463	0,286	0,395	0,862	0,398	0,086	0,448	0,260	0,975	0,153	0,014	0,000		0,791	0,289
16	r	-0,006	0,118	0,107	0,275	0,143	-0,192	0,064	-0,296	-0,231	-0,199	-0,119	-0,026	0,141	0,065	0,023	1	0,014
	p	0,946	0,180	0,223	0,001	0,107	0,030	0,470	0,060	0,008	0,158	0,177	0,768	0,108	0,458	0,791		0,873
17	r	0,052	0,463	0,117	0,147	0,028	-0,106	-0,032	0,107	-0,042	-0,026	-0,071	-0,162	0,346	-0,096	0,093	0,014	1
	p	0,555	0,000	0,184	0,093	0,755	0,235	0,714	0,505	0,631	0,853	0,422	0,065	0,000	0,274	0,289	0,873	

1= ; 2= ; 3= ; 4= ; 5= ; 6=
 ; 7= ; 8= ; 9= ; 10=
 ; 11= ; 12= ; 13= ; 14= ; 15= ; 16= ; 17=

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3.2.

(Adaptive Behavior Assessment System II,

ABAS, Harrison & Oakland, 2003).

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(General Adaptive Composite score, GAC).

ABAS ,

: (130) , (120–129),
(110–119), (90–109), (80–89), (71–

79) (70).
e :
(15), (13-14), (8-12), (6-7),
(4-5) (3).

ABAS

4.

: , , ,
(ANOVA),
(MANOVA)
(MANCOVA).

IV

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4

4 –		BAS		
BAS -	Min	Max	AS	SD
	28	98	66,90	14,157
	57	102	79,43	9,499

(Min=28; Max=98).

(70 ;

Min=57),

(90–109; x=102).

(71–79; AS=79,43).

/

(5).

5 –		BAS			
BAS –		Min	Max	AS	SD
		52	75	67,64	3,961
		4	13	8,92	1,953
		26	70	56,52	9,228
		1	13	6,92	2,833

		29	77	52,72	9,791
		1	10	3,37	2,167
		31	69	56,10	9,283
		1	13	7,30	2,921
		30	60	53,28	5,149
		1	13	7,60	2,759
		40	69	58,53	6,412
		3	13	9,15	2,220
		60	75	72,15	3,817
		2	12	9,51	2,944
		40	75	66,08	5,915
		2	13	8,99	2,099
		43	69	62,97	4,462
		3	13	8,69	2,126
		0	72	24,91	31,928
		0	13	2,94	4,032

(AS=2,94)

(AS=3,37),

(AS=9,51)

(AS=9,15).

1,953 4,032,

(3 ; 4-5).

10 13,

(8-12; 13-14).

(AS=2,94),

(AS=3,37)

BAS

, =0,77,

BAS

6.

6-

ABAS

	r	1	0,306	0,158	0,123	0,148	0,193	0,008	0,221	0,366	0,430
	p		0,000	0,071	0,161	0,092	0,027	0,932	0,011	0,000	0,001
	r	0,306	1	0,599	0,489	0,583	0,392	0,381	0,312	0,352	0,111
	p	0,000		0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,413
	r	0,158	0,599	1	0,297	0,582	0,415	0,288	0,124	0,298	0,365
	p	0,071	0,000		0,001	0,000	0,000	0,001	0,158	0,001	0,005
	r	0,123	0,489	0,297	1	0,339	0,243	0,458	0,438	0,347	0,048
	p	0,161	0,000	0,001		0,000	0,005	0,000	0,000	0,000	0,721
	r	0,148	0,583	0,582	0,339	1	0,422	0,340	0,203	0,276	-0,003
	p	0,092	0,000	0,000	0,000		0,000	0,000	0,020	0,001	0,981
	r	0,193	0,392	0,415	0,243	0,422	1	0,274	0,317	0,378	0,208
	p	0,027	0,000	0,000	0,005	0,000		0,002	0,000	0,000	0,120
	r	0,008	0,381	0,288	0,458	0,340	0,274	1	0,306	0,186	0,021
	p	0,932	0,000	0,001	0,000	0,000	0,002		0,000	0,033	0,874
	r	0,221	0,312	0,124	0,438	0,203	0,317	0,306	1	0,344	0,208
	p	0,011	0,000	0,158	0,000	0,020	0,000	0,000		0,000	0,121
	r	0,366	0,352	0,298	0,347	0,276	0,378	0,186	0,344	1	0,119
	p	0,000	0,000	0,001	0,000	0,001	0,000	0,033	0,000		0,379
	r	0,430	0,111	0,365	0,048	-0,003	0,208	0,021	0,208	0,119	1
	p	0,001	0,413	0,005	0,721	0,981	0,120	0,874	0,121	0,379	

6

ABAS

(r=0,000–0,200).

ABAS .

:	(r=0,366; p 0,000),	(r=0,352; p 0,000),
	(r=0,298; p<0,001),	(r=0,347; p 0,000),
	(r=0,276; p<0,001),	(r=0,378; p 0,000)
	(r=0,344; p 0,000).	,

(r=0,221; p<0,011),	(r=0,312; p 0,000),	
(r=0,203; p<0,011),	(r= 0,317; p 0,000)	(r=0,306;
p 0,000).		

	(r=0,381; p 0,000),	(r=0,288;
p<0,001),	(r=0,276; p<0,011).	

(
),	(r=0,392; p 0,000)	(r=0,243;
p<0,011).		

	(r=0,297; p<0,001),	(r=0,365;
p<0,005),	(r= 0,339; p 0,000),	
	(r=0,306; p 0,000).	

(r=0,599; p 0,000),	(r=0,489; p 0,000)
(r=0,583; p 0,000).	,

(r=0,422; p 0,000)	(r=0,582; p 0,000).
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(r=0,415; p 0,000).	6
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(r=0,438; p 0,000),	(r=0,430; p<0,001).
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ABAS

ABAS

ABAS

7 –

BAS

ABAS–		Min	Max	AS	SD
Ko		10	35	21,27	4,147
		63	106	84,11	6,657
		6	29	17,86	3,873
		64	112	90,88	8,934
		7	45	27,69	8,576
		49	100	79,08	10,851

(AS=27,69).

7, 45,

(SD=8,576)

(Min=6; Max=29; AS=17,86).

(AS=21,27),
(Min=10).

(Min=63; Min=64; Min=49),
(Max=106; Max=112; Max=100).

(AS=90,88).
(AS=79,08)

(AS=84,11).

8 -

ABAS

	r		0,586	0,598
	p		0,000	0,000
	r	0,586		0,460
	p	0,000		0,000
	r	0,598	0,460	
		0,000	0,000	

8

ABAS

(r=0,460; p 0,000),

(r=0,586;

p 0,000)

(r=0,598; p 0,000).

2.

ABAS

ABAS (9).

9 -

ABAS

			ABAS						
			AS	SD	Min	Max	F(1)	p	
			65,72	14,822	28	98	0,892	0,347	
			68,06	13,483	42	98			
			AS	SD	Min	Max	F(3)	p	
	19	24	70,39	17,221	42	98	2,428	0,068	
	25	34	70,00	11,317	50	96			
	35	44	63,97	12,858	28	86			
	45	60	63,35	13,549	32	88			
			AS	SD	Min	Max	F(1)	p	
			60,89	12,454	28	87	56,333	0,000	
			76,96	10,774	56	98			
			AS	SD	Min	Max	F(1)	p	
			73,84	14,796	30	113	0,168	0,683	
			72,71	16,325	34	103			
			AS	SD	Min	Max	F(1)	p	
			67,38	13,888	28	98	0,229	0,633	
			66,16	14,678	32	91			
			AS	SD	Min	Max	F(1)	p	
			66,05	10,154	47	86	0,019	0,891	
			66,52	14,582	28	98			
			AS	SD	Min	Max	F(2)	p	
			60,05	18,766	28	88	5,362	0,006	
			65,15	13,426	33	98			
			70,93	11,912	41	98			

		AS	SD	Min	Max	F(1)	p
		68,94	14,205	43	91	1,317	0,258
		63,52	15,072	32	88		
		AS	SD	Min	Max	F(3)	p
		69,21	13,544	33	96	0,817	0,487
		67,46	13,661	28	98		
		64,50	20,506	50	79		
		64,21	15,239	32	97		
		AS	SD	Min	Max	F(1)	p
		67,19	13,278	33	88	0,049	0,825
		68,30	17,852	32	91		
		AS	SD	Min	Max	F(1)	p
		64,18	13,366	28	91	4,472	0,036
		69,35	14,494	32	98		
		AS	SD	Min	Max	F(1)	p
		68,78	13,942	28	98	6,334	0,013
		61,94	13,697	32	87		
		AS	SD	Min	Max	F(1)	p
		65,27	16,985	28	98	1,004	0,318
		67,84	12,245	41	98		
		AS	SD	Min	Max	F(3)	p
		68,53	12,623	44	96	0,446	0,721
		67,12	16,658	28	98		
		66,93	14,976	42	98		
		64,48	12,287	33	88		
		AS	SD	Min	Max	F(1)	p
		65,53	13,477	32	97	3,627	0,059
		70,44	13,759	28	98		
		AS	SD	Min	Max	F(1)	p
		64,93	14,250	28	98	4,232	0,042
		70,10	13,539	42	98		

		AS	SD	Min	Max	F(2)	p
		62,60	14,732	28	98	6,857	0,001
		73,46	10,219	57	93		
		69,29	13,497	32	98		

()

() 9).

ABAS (p 0,000).
(F₍₁₎=56,333)

() 9).

(p=0,068) () 9).

() 9).

(p=0,006) () 9).

() 9).

(p=0,036) () 9).

(AS=68,78)

(AS=61,94; p=0,013).

(p=0,042).

(p=0,001),

3.

ABAS

(MANOVA)

(MANCOVA)

ABAS

10 -

		AS	SD	F(1)	p	²
		8,78	1,900	0,582	0,447	0,004
		9,05	2,011			
		AS	SD	F(3)	p	²
	19 24	10,33	2,056	7,506	0,000	0,156
	25 34	8,78	2,151			
	35 45	8,34	1,537			
	46 60	8,21	1,225			
		AS	SD	F(1)	p	²
		8,82	1,820	0,561	0,455	0,004
		9,08	2,168			
		AS	SD	F(1)	p	²
		8,89	2,135	0,530	0,468	0,004
		8,96	1,649			

		AS	SD	F(1)	p	²
		9,17	1,896	5,687	0,019	0,043
		8,30	1,951			
		AS	SD	F(1)	p	²
		8,05	1,761	0,555	0,458	0,004
		9,06	1,973			
		AS	SD	F(2)	p	²
		8,68	1,974	2,202	0,115	0,034
		8,56	2,146			
		9,31	1,735			
		AS	SD	F(1)	p	²
		9,31	1,957	1,733	0,196	0,043
		8,60	1,500			
		AS	SD	F(3)	p	²
		8,82	1,566	0,405	0,749	0,009
		8,80	2,227			
		10,00	2,828			
		9,10	1,847			
		AS	SD	F(1)	p	²
		8,98	1,718	0,142	0,708	0,003
		9,20	1,549			
		AS	SD	F(1)	p	²
		8,44	1,816	4,898	0,029	0,038
		9,35	1,984			
		AS	SD	F(1)	p	²
		8,95	1,926	0,088	0,767	0,001
		8,83	2,049			
		AS	SD	F(1)	p	²
		9,31	2,317	2,197	0,141	0,017
		8,69	1,682			

		AS	SD	F(3)	p	²
		8,42	1,536	0,296	0,828	0,007
		9,29	2,182			
		9,67	2,324			
		8,34	1,396			
		AS	SD	F(1)	p	²
		8,87	1,975	0,724	0,397	0,006
		9,00	1,962			
		AS	SD	F(1)	p	²
		8,60	2,060	5,571	0,020	0,041
		9,42	1,667			
		AS	SD	F(2)	p	²
		9,25	1,769	0,000	1,000	0,000
		8,77	2,197			
		8,50	2,015			

()

(p 0,000).

(AS=8,21)

(AS=10,33) (

10).

(

(p=0,793)

(p=0,346)

(²part=0,156).

(AS=9,17)

(AS=8,30; p=0,019).

(p=0,029).

(AS =8,44)

(AS=9,35),

(

(p=0,458)

(p 0,000)

).

(AS=9,00)

(AS=8,87),

(p=0,397).

,

(AS=8,34; AS=8,42)

(AS=9,67; AS=9,29)

(10).

(AS=8,60) (AS=9,42;

p=0,020) ((p 0,000),

(p=0,067)) (10).

11 -

		AS	SD	F(1)	p	²
		7,20	2,705	1,230	0,270	0,009
		6,65	2,948			
		AS	SD	F(3)	p	²
	19 24	7,70	3,137	4,356	0,006	0,093
	25 34	7,75	2,771			
	35 45	6,63	2,744			
	46 60	5,68	2,198			
		AS	SD	F(1)	p	²
		5,55	2,500	70,375	0,000	0,355
		9,22	1,598			
		AS	SD	F(1)	p	²
		7,03	2,955	0,075	0,785	0,001
		6,76	2,650			

		AS	SD	F(1)	p	²
		6,55	2,820	4,762	0,031	0,036
		7,70	2,643			
		AS	SD	F(1)	p	²
		6,70	2,408	0,356	0,552	0,003
		6,84	2,852			
		AS	SD	F(2)	p	²
		5,84	3,149	2,412	0,094	0,037
		6,87	2,849			
		7,42	2,554			
		AS	SD	F(1)	p	²
		7,13	2,680	1,066	0,308	0,027
		6,28	2,475			
		AS	SD	F(3)	p	²
		7,24	2,731	0,491	0,689	0,011
		6,93	2,769			
		5,00	5,657			
		6,74	2,953			
		AS	SD	F(1)	p	²
		6,90	2,507	1,210	0,277	0,024
		7,90	2,846			
		AS	SD	F(3)	p	²
		6,40	2,871	4,067	0,046	0,031
		7,39	2,734			
		AS	SD	F(1)	p	²
		7,38	2,844	0,394	0,531	0,003
		5,72	2,457			
		AS	SD	F(1)	p	²
		7,08	3,306	4,054	0,046	0,031
		6,83	2,537			

		AS	SD	F(3)	p	²
		7,05	2,449	1,229	0,302	0,028
		7,21	3,170			
		7,17	3,086			
		6,17	2,620			
		AS	SD	F(1)	p	²
		6,76	2,930	1,101	0,296	0,009
		7,32	2,564			
		AS	SD	F(1)	p	²
		6,65	2,838	1,932	0,167	0,015
		7,36	2,798			
		AS	SD	F(2)	p	²
		6,63	3,264	4,376	0,015	0,064
		7,50	2,064			
		7,00	2,528			

()

(p=0,006),

(11).

(p 0,000).

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(²_{part}=0,355).

,

(p=0,031).

(AS=7,70)

(AS=6,55).

((p 0,000)).

(AS=7,38)
(AS=5,72).

(AS=7,39)
(AS=6,40), (p=0,046).
MANCOVA
(p=0,046),
((p 0,000))
(11).

(AS=6,63), (AS=7,00),
(AS=7,70).
(p=0,015).

(p 0,000).

		AS	SD	F(1)	p	²
		3,22	2,073	0,625	0,431	0,005
		3,52	2,262			
		AS	SD	F(3)	p	²
	19 24	4,09	2,708	3,480	0,018	0,077
	25 34	3,81	1,991			
	35 45	3,25	2,016			
	46 60	2,35	1,433			
		AS	SD	F(1)	p	²
		2,65	1,582	22,016	0,000	0,147
		4,57	2,475			
		AS	SD	F(1)	p	²
		3,70	2,286	2,278	0,134	0,017
		2,84	1,869			
		AS	SD	F(1)	p	²
		3,15	2,224	2,622	0,108	0,020
		3,80	1,870			
		AS	SD	F(1)	p	²
		2,95	1,905	0,139	0,710	0,001
		3,34	2,141			
		AS	SD	F(2)	p	²
		2,68	2,451	2,095	0,127	0,032
		3,21	2,190			
		3,76	2,003			
		AS	SD	F(1)	p	²
		3,06	1,692	0,286	0,596	0,007
		2,72	2,170			
		AS	SD	F(3)	p	²
		3,41	2,162	0,578	0,630	0,013
		3,59	2,222			
		2,50	2,121			
		3,05	2,127			

		AS	SD	F(1)	p	²
		2,98	1,944	0,597	0,443	0,012
		3,50	1,841			
		AS	SD	F(1)	p	²
		3,02	1,769	1,816	0,180	0,014
		3,68	2,440			
		AS	SD	F(1)	p	²
		3,65	2,254	0,021	0,886	0,000
		2,61	1,728			
		AS	SD	F(1)	p	²
		3,52	2,449	3,963	0,049	0,030
		3,28	1,996			
		AS	SD	F(3)	p	²
		3,74	2,202	4,154	0,008	0,090
		3,65	2,485			
		3,23	2,208			
		2,69	1,514			
		AS	SD	F(1)	p	²
		3,13	2,146	3,321	0,071	0,026
		3,88	2,216			
		AS	SD	F(1)	p	²
		3,23	2,087	2,516	0,115	0,019
		3,58	2,295			
		AS	SD	F(2)	p	²
		2,97	2,079	9,204	0,000	0,127
		3,81	1,600			
		3,69	2,513			

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(AS=4,09; AS=3,81)

(AS=2,35; AS=3,25; p=0,018).

4,57,

2,65

(, (p 0,000).

,

(^{2part}=0,147).

(12).

(p=0,049),

((p 0,000))

(12).

(p=0,008)

((p 0,000))

).

(AS=3,74),

(AS=3,65),

(AS=3,23),

(AS=2,69).

(p=0,071),

(/) (p=0,115).

(p 0,000),

((p 0,000))

		AS	SD	F(1)	p	²
		6,29	2,626	17,185	0,000	0,118
		8,29	2,876			
		AS	SD	F(3)	p	²
	19 24	6,79	2,583	3,262	0,024	0,073
	25 34	8,19	2,520			
	35 45	7,06	3,202			
	46 60	7,18	3,233			
		AS	SD	F(1)	p	²
		6,39	2,819	25,072	0,000	0,163
		8,82	2,438			
		AS	SD	F(1)	p	²
		3,70	2,286	0,038	0,846	0,000
		2,84	1,869			
		AS	SD	F(1)	p	²
		7,21	2,933	0,486	0,487	0,004
		7,60	2,863			
		AS	SD	F(1)	p	²
		8,30	3,373	3,224	0,075	0,025
		7,04	2,795			
		AS	SD	F(2)	p	²
		6,11	2,961	4,955	0,008	0,072
		6,83	3,142			
		8,14	2,501			
		AS	SD	F(1)	p	²
		6,81	2,903	0,003	0,959	0,000
		6,76	3,282			
		AS	SD	F(1)	p	²
		7,59	3,086	1,562	0,202	0,036
		7,71	2,915			
		6,50	0,707			
		6,49	2,752			

		AS	SD	F(1)	p	²
		7,24	3,237	0,021	0,885	0,000
		7,40	2,757			
		AS	SD	F(1)	p	²
		6,90	2,708	2,166	0,144	0,017
		7,65	3,077			
		AS	SD	F(1)	p	²
		7,57	2,876	0,331	0,566	0,003
		6,58	2,960			
		AS	SD	F(1)	p	²
		6,63	2,623	1,660	0,200	0,013
		7,69	3,028			
		AS	SD	F(3)	p	²
		7,58	2,992	0,502	0,682	0,012
		7,56	2,936			
		6,50	2,529			
		7,45	3,180			
		AS	SD	F(1)	p	²
		3,13	2,146	1,270	0,262	0,010
		3,88	2,216			
		AS	SD	F(1)	p	²
		7,10	2,836	0,984	0,323	0,008
		7,62	3,057			
		AS	SD	F(3)	p	²
		6,41	2,745	5,519	0,005	0,080
		8,69	1,995			
		7,76	3,252			

()

(AS=8,29)

(AS=6,29).

(p 0,000) (

13).

(25 34)

(p=0,024).

(

(p=0,026)

($p=0,007$)

)(a

13).

(AS=6,39),

(AS=8,82).

(

)

($p = 0,000$).

($^2_{part}=0,163$).

(AS=3,70)

(AS=2,84).

($p=0,005$),

(AS=8,69),

(AS=7,76),

(AS=6,41).

			AS	SD	F(1)	p	²
			7,86	2,909	1,134	0,289	0,009
			7,35	2,599			
			AS	SD	F(3)	p	²
	19	24	8,00	2,990	2,020	0,114	0,046
	25	34	7,91	2,595			
	35	45	7,59	2,781			
	46	60	6,94	2,651			
			AS	SD	F(1)	p	²
			6,68	2,518	29,789	0,000	0,188
			9,14	2,458			
			AS	SD	F(1)	p	²
			7,70	2,762	0,252	0,616	0,002
			7,45	2,774			
			AS	SD	F(1)	p	²
			7,44	2,812	1,358	0,246	0,011
			8,05	2,631			
			AS	SD	F(1)	p	²
			7,60	2,927	0,018	0,892	0,000
			7,51	2,715			
			AS	SD	F(2)	p	²
			6,53	3,238	2,615	0,077	0,040
			7,44	2,920			
			8,12	2,364			
			AS	SD	F(1)	p	²
			8,13	3,304	0,569	0,455	0,014
			7,36	3,081			
			AS	SD	F(3)	p	²
			8,26	2,832	2,029	0,113	0,046
			7,68	2,704			
			4,50	3,536			
			7,08	2,640			

		AS	SD	F(1)	p	²
		7,38	2,938	3,737	0,059	0,070
		9,30	2,214			
		AS	SD	F(1)	p	²
		7,34	3,002	1,081	0,300	0,008
		7,84	2,518			
		AS	SD	F(1)	p	²
		7,84	2,811	0,861	0,355	0,007
		6,97	2,547			
		AS	SD	F(1)	p	²
		7,48	2,961	0,057	0,812	0,000
		7,67	2,651			
		AS	SD	F(3)	p	²
		7,24	2,476	0,616	0,606	0,014
		8,09	3,098			
		7,43	2,582			
		7,69	2,917			
		AS	SD	F(1)	p	²
		7,58	2,668	0,181	0,672	0,001
		7,80	2,977			
		AS	SD	F(1)	p	²
		7,40	2,649	1,208	0,274	0,009
		7,94	2,924			
		AS	SD	F(2)	p	²
		7,06	2,449	5,036	0,008	0,073
		9,04	3,256			
		7,52	2,616			

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14

(19 24 25 34) (AS=8,00; AS=7,91)
(AS=7,59;

AS=6,54),
14).

(p=0,114) (

(AS=9,14)

(AS=6,68),

(p 0,000).

,
(²part=0,188).

(p=0,059).

(AS=9,30)

(AS=7,38)

(14).

(AS=6,53),

(AS=7,44).

(AS=8,12).

(p=0,077)

.

, (14)

(AS=9,04).

(AS=7,06),

(AS=7,52).

(p=0,008),

.

		AS	SD	F(1)	p	²
		9,31	2,325	0,627	0,430	0,005
		9,00	2,120			
		AS	SD	F(3)	p	²
	19 24	9,67	2,630	3,500	0,018	0,077
	25 34	9,72	1,782			
	35 45	8,28	2,113			
	46 60	8,94	2,044			
		AS	SD	F(1)	p	²
		8,84	2,191	4,420	0,037	0,033
		9,67	2,193			
		AS	SD	F(1)	p	²
		9,20	2,252	0,035	0,853	0,000
		9,08	2,189			
		AS	SD	F(1)	p	²
		9,13	2,180	0,207	0,650	0,002
		9,32	2,235			
		AS	SD	F(1)	p	²
		8,85	2,277	0,006	0,937	0,000
		9,17	2,215			
		AS	SD	F(2)	p	²
		8,05	2,635	2,861	0,061	0,043
		9,21	2,261			
		9,42	1,967			
		AS	SD	F(1)	p	²
		10,00	2,280	0,342	0,560	0,003
		8,56	2,347			
		AS	SD	F(3)	p	²
		9,56	2,048	0,643	0,589	0,015
		9,00	2,199			
		10,00	1,414			
		8,97	2,433			

		AS	SD	F(1)	p	²
		9,19	2,039	0,129	0,721	0,003
		8,90	3,213			
		AS	SD	F(1)	p	²
		8,81	2,164	2,079	0,152	0,016
		9,46	2,240			
		AS	SD	F(1)	p	²
		9,17	2,122	0,971	0,326	0,008
		9,11	2,493			
		AS	SD	F(1)	p	²
		9,23	2,469	1,331	0,251	0,010
		9,11	2,078			
		AS	SD	F(3)	p	²
		9,37	1,965	0,997	0,396	0,023
		9,38	2,450			
		9,47	2,315			
		8,28	2,034			
		AS	SD	F(1)	p	²
		8,98	2,228	3,341	0,070	0,026
		9,71	1,820			
		AS	SD	F(1)	p	²
		8,95	2,196	1,768	0,186	0,014
		9,48	2,243			
		AS	SD	F(2)	p	²
		8,94	2,546	5,200	0,007	0,076
		10,23	1,966			
		8,81	1,596			

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15

(p=0,430) (

15).

(p=0,018)

(19 34)

(AS= 9,67; AS=9,72)

() (AS= 8,28; AS=8,94).

(p=0,037) (15).

(p=0,061) (15).

(15).

(p=0,070)

(AS=9,71)

(AS=8,98) (15).

(AS=10,23)

(AS=8,94)

(AS=8,81).

(p=0,007),

(p=0,011)

(

).

		AS	SD	F(1)	p	²
		9,66	2,917	0,334	0,565	0,003
		9,36	2,985			
		AS	SD	F(3)	p	²
	19 24	9,06	3,162	3,352	0,021	0,074
	25 34	10,25	2,436			
	35 45	9,25	3,059			
	46 60	9,50	3,048			
		AS	SD	F(1)	p	²
		9,00	3,119	6,918	0,010	0,051
		10,37	2,421			
		AS	SD	F(1)	p	²
		9,23	2,855	1,960	0,164	0,015
		9,96	3,053			
		AS	SD	F(1)	p	²
		9,65	2,962	0,505	0,479	0,004
		9,25	2,985			
		AS	SD	F(1)	p	²
		10,20	2,648	1,522	0,220	0,012
		9,31	2,997			
		AS	SD	F(2)	p	²
		8,47	3,502	1,752	0,178	0,027
		9,48	2,873			
		9,92	2,781			
		AS	SD	F(1)	p	²
		10,00	2,280	3,754	0,060	0,088
		8,56	2,347			
		AS	SD	F(3)	p	²
		9,79	3,160	0,230	0,875	0,005
		9,39	2,915			
		10,50	2,121			
		9,38	2,898			

		AS	SD	F(1)	p	²
		10,19	3,014	0,441	0,510	0,009
		9,50	2,677			
		AS	SD	F(1)	p	²
		9,50	3,034	0,002	0,967	0,000
		9,52	2,883			
		AS	SD	F(1)	p	²
		9,68	2,929	0,024	0,878	0,000
		9,06	2,976			
		AS	SD	F(1)	p	²
		9,68	2,929	4,714	0,032	0,036
		9,06	2,976			
		AS	SD	F(3)	p	²
		9,66	2,704	0,193	0,901	0,005
		9,38	3,025			
		9,10	3,241			
		9,90	2,920			
		AS	SD	F(1)	p	²
		9,45	2,856	0,006	0,937	0,000
		9,76	2,981			
		AS	SD	F(1)	p	²
		9,42	2,974	0,205	0,652	0,002
		9,66	2,918			
		AS	SD	F(2)	p	²
		8,52	3,089	5,834	0,004	0,084
		10,69	2,241			
		10,26	2,651			

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(16).

25 34

(p=0,021),

(p=0,001) (AS=9,00). (AS=10,37) (p=0,010) (p=0,015) 16).
 (AS=9,23) 16 (AS=9,96), (p=0,164).
 (p=0,032), (16).
 (AS=8,52), (AS=10,26), (AS=10,69).
 (p=0,004),

17 -

		AS	SD	F(3)	p	²
		8,92	2,160	0,140	0,709	0,001
		9,06	2,052			
		AS	SD	F(3)	p	²
	19 24	9,15	2,138	4,408	0,006	0,096
	25 34	8,94	1,664			
	35 44	8,88	2,420			
	45 60	9,00	2,188			

		AS	SD	F(1)	p	²
		8,76	2,231	2,815	0,096	0,021
		9,39	1,812			
		AS	SD	F(1)	p	²
		9,00	1,968	0,003	0,959	0,000
		8,98	2,311			
		AS	SD	F(1)	p	²
		9,09	2,188	0,434	0,511	0,003
		8,83	1,933			
		AS	SD	F(1)	p	²
		8,75	1,517	0,329	0,567	0,003
		9,05	2,210			
		AS	SD	F(2)	p	²
		8,05	2,953	3,796	0,025	0,056
		8,81	1,815			
		9,47	1,924			
		AS	SD	F(1)	p	²
		9,31	2,798	1,068	0,308	0,027
		8,52	2,104			
		AS	SD	F(3)	p	²
		9,79	3,160	0,163	0,921	0,004
		9,39	2,915			
		10,50	2,121			
		9,38	2,898			
		AS	SD	F(1)	p	²
		9,17	2,273	0,469	0,496	0,009
		8,60	2,675			
		AS	SD	F(1)	p	²
		8,92	2,098	0,141	0,707	0,001
		9,06	2,114			
		AS	SD	F(1)	p	²
		9,01	2,161	0,026	0,873	0,000
		8,94	1,956			

		AS	SD	F(1)	p	²
		8,38	2,256	3,541	0,062	0,027
		9,35	1,928			
		AS	SD	F(3)	p	²
		9,18	1,887	1,001	0,395	0,023
		8,71	2,565			
		8,97	1,884			
		9,10	2,041			
		AS	SD	F(1)	p	²
		8,73	1,837	3,504	0,064	0,027
		9,46	2,461			
		AS	SD	F(1)	p	²
		8,81	2,122	1,524	0,219	0,012
		9,28	2,051			
		AS	SD	F(2)	p	²
		8,41	1,981	3,362	0,038	0,050
		9,73	1,430			
		9,40	2,400			

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(17).

(AS=9,15; AS=9,00)

(AS=8,94; AS=8,88).

(p=0,006),

(

(p=0,006)

).

(AS=8,05),

(AS=8,81).

,

(AS=9,47).

MANOVA

(p=0,025).

(p=0,038),

(17).

17).

18-

		AS	SD	F(1)	p	²
		8,14	1,983	9,397	0,003	0,068
		9,24	2,134			
		AS	SD	F(3)	p	²
	19 24	9,18	1,991	1,062	0,368	0,024
	25 34	8,78	1,979			
	35 44	8,53	2,328			
	45 60	8,29	2,182			
		AS	SD	F(1)	p	²
		8,11	2,000	18,867	0,000	0,128
		9,67	1,983			
		AS	SD	F(1)	p	²
		8,74	1,998	1,116	0,293	0,009
		8,63	2,332			
		AS	SD	F(1)	p	²
		8,74	1,986	0,224	0,636	0,002
		8,55	2,407			
		AS	SD	F(1)	p	²
		9,25	2,074	3,438	0,066	0,027
		8,55	2,129			

		AS	SD	F(2)	p	²
		7,84	2,340	2,520	0,084	0,038
		8,62	1,870			
		9,07	2,220			
		AS	SD	F(1)	p	²
	a	9,25	1,844	1,119	0,297	0,028
		8,44	2,678			
		AS	SD	F(3)	p	²
		9,29	2,125	0,472	0,702	0,011
		8,43	1,877			
		8,50	0,707			
		8,56	2,447			
		AS	SD	F(1)	p	²
		8,88	2,132	1,232	0,272	0,024
		8,00	2,749			
		AS	SD	F(1)	p	²
		8,26	2,134	5,120	0,025	0,038
		9,09	2,056			
		AS	SD	F(1)	p	²
		8,92	1,955	0,000	0,996	0,000
		8,11	2,459			
		AS	SD	F(1)	p	²
		8,87	2,312	0,543	0,463	0,004
		8,59	2,018			
		AS	SD	F(3)	p	²
		9,18	1,887	0,907	0,440	0,021
		8,71	2,565			
		8,97	1,884			
		9,10	2,041			
		AS	SD	F(1)	p	²
		8,73	2,204	0,141	0,707	0,001
		8,88	1,631			
		AS	SD	F(1)	p	²
		8,32	2,048	6,849	0,010	0,050
		9,30	2,131			

		AS	SD	F(2)	p	²
		8,41	2,353	1,537	0,219	0,023
		9,27	1,779			
		8,76	1,923			

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(AS=9,24)

(AS=8,14),

(p=0,003).

(AS=9,18;AS=8,78)

(AS=8,52;AS=8,29),

18).

(p 0,000).

(²part=0,128).

(p=0,293) (

18).

(AS=8,88)

(AS=8,00),

(p=0,025) (

18).

(18).

(AS=9,30)

(AS=8,32).

(p=0,010).

19 –

		AS	SD	F(1)	p	²
		2,91	3,968	0,008	0,930	0,000
		2,97	4,125			
		AS	SD	F(3)	p	²
	19 24	1,67	4,059	1,388	0,250	0,033
	25 34	3,91	3,913			
	35 44	3,47	3,885			
	45 60	2,76	4,083			
		AS	SD	F(1)	p	²
		8,11	2,000	0,032	0,859	0,000
		9,67	1,983			
		AS	SD	F(1)	p	²
		8,74	1,998	0,031	0,860	0,000
		8,63	2,332			
		AS	SD	F(1)	p	²
		8,74	1,986	0,224	0,636	0,002
		8,55	2,407			
		AS	SD	F(1)	p	²
		0,90	2,360	5,967	0,016	0,045
		3,23	4,137			
		AS	SD	F(2)	p	²
		7,84	2,340	2,520	0,084	0,038
		8,62	1,870			
		9,07	2,220			

		AS	SD	F(1)	p	²
		3,19	4,593	0,404	0,529	0,010
		2,36	3,695			
		AS	SD	F(3)	p	²
		2,88	4,191	0,231	0,875	0,005
		2,68	3,634			
		4,00	5,657			
		3,31	4,485			
		AS	SD	F(1)	p	²
		8,88	2,132	1,232	0,272	0,024
		8,00	2,749			
		AS	SD	F(1)	p	²
		2,63	3,876	0,189	0,665	0,002
		3,22	4,176			
		AS	SD	F(1)	p	²
		3,11	4,155	0,595	0,442	0,005
		2,50	3,707			
		AS	SD	F(1)	p	²
		0,92	3,100	18,008	0,000	0,123
		4,11	4,061			
		AS	SD	F(3)	p	²
		6,84	2,676	26,001	0,000	0,392
		2,88	4,504			
		0,90	2,784			
		0,00	0,000			
		AS	SD	F(1)	p	²
		1,84	3,574	2,475	0,118	0,020
		5,22	3,818			
		AS	SD	F(1)	p	²
		2,91	3,893	0,008	0,927	0,000
		2,98	4,288			
		AS	SD	F(2)	p	²
		2,44	3,745	0,107	0,899	0,002
		3,38	3,991			
		3,40	4,462			

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(p=0,016)
 (p 0,000).
 (p 0,000), (p=0,313)
 (²=0,392).
 (p 0,000),
 (p 0,000)) (19).

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20 -

		AS	SD	F(1)	p	²
		20,92	4,158	0,927	0,337	0,007
		21,62	4,139			
		AS	SD	F(3)	p	²
	19 24	23,58	5,093	6,502	0,000	0,133
	25 34	21,53	3,182			
	35 44	20,47	3,628			
	45 60	19,56	3,422			
		AS	SD	F(1)	p	²
		20,22	3,755	15,811	0,000	0,109
		23,04	4,208			
		AS	SD	F(1)	p	²
		21,59	4,145	2,430	0,122	0,019
		20,78	4,144			

		AS	SD	F(1)	p	²
		21,40	4,255	0,376	0,541	0,002
		20,93	3,751			
		AS	SD	F(1)	p	²
		19,75	2,971	0,549	0,460	0,004
		21,45	4,283			
		AS	SD	F(2)	p	²
		19,42	4,811	5,769	0,004	0,083
		20,58	3,992			
		22,54	3,739			
		AS	SD	F(1)	p	²
		21,69	4,159	2,236	0,143	0,054
		19,84	3,659			
		AS	SD	F(3)	p	²
		21,29	3,129	0,388	0,762	0,009
		21,48	4,332			
		21,50	7,778			
		20,95	4,628			
		AS	SD	F(1)	p	²
		21,12	3,651	0,016	0,899	0,000
		21,30	5,519			
		AS	SD	F(1)	p	²
		20,37	3,632	5,797	0,017	0,043
		22,09	4,432			
		AS	SD	F(1)	p	²
		21,61	4,103	0,118	0,731	0,001
		20,39	4,190			
		AS	SD	F(1)	p	²
		21,21	5,053	0,090	0,764	0,001
		21,31	3,554			
		AS	SD	F(3)	p	²
		21,34	3,589	1,625	0,187	0,037
		21,65	5,393			
		21,87	4,257			
		20,14	2,812			

		AS	SD	F(1)	p	²
		20,73	3,808	4,391	0,038	0,034
		22,34	4,509			
		AS	SD	F(1)	p	²
		20,65	4,258	4,892	0,029	0,037
		22,28	3,791			
		AS	SD	F(2)	p	²
		20,63	4,159	9,150	0,000	0,126
		22,31	3,438			
		21,60	4,445			

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(p 0,000).

(²part=0,133) (

20).

(p 0,000) (19),

(20).

(AS=22,54)

(AS=20,58; AS=19,42).

(p=0,004).

(p=0,017) (20).

(p=0,038),

(AS=22,28),

(AS=20,65).

(p=0,029).

(p 0,000) (

20).

21 -

		AS	SD	F(1)	p	2
		17,62	4,145	0,524	0,471	0,004
		18,11	3,600			
		AS	SD	F(3)	p	2
	19 24	19,18	4,127	3,094	0,029	0,068
	25 34	18,50	3,037			
	35 44	16,81	3,814			
	45 60	16,97	4,026			
		AS	SD	F(1)	p	2
		16,91	3,719	14,501	0,000	0,101
		19,45	3,629			
		AS	SD	F(1)	p	2
		18,01	3,689	0,425	0,516	0,003
		17,63	4,171			

		AS	SD	F(1)	p	²
		17,94	3,578	0,053	0,819	0,000
		17,78	4,429			
		AS	SD	F(1)	p	²
		17,65	4,452	0,288	0,593	0,002
		17,81	3,764			
		AS	SD	F(2)	p	²
		19,42	4,811	3,983	0,021	0,059
		20,58	3,992			
		22,54	3,739			
		AS	SD	F(1)	p	²
		19,56	3,794	3,600	0,065	0,085
		17,00	4,463			
		AS	SD	F(3)	p	²
		18,85	3,350	0,468	0,705	0,011
		17,54	3,384			
		18,50	2,121			
		17,44	4,860			
		AS	SD	F(1)	p	²
		18,07	3,316	0,224	0,638	0,004
		17,40	6,328			
		AS	SD	F(1)	p	²
		17,00	3,975	6,068	0,015	0,045
		18,64	3,634			
		AS	SD	F(1)	p	²
		18,14	3,484	0,236	0,628	0,002
		17,14	4,728			
		AS	SD	F(1)	p	²
		18,33	4,378	0,661	0,418	0,005
		17,59	3,548			
		AS	SD	F(3)	p	²
		17,87	3,077	0,343	0,794	0,008
		17,82	3,770			
		19,07	4,068			
		16,66	4,490			

		AS	SD	F(1)	p	²
		17,73	3,960	1,503	0,222	0,012
		18,59	2,941			
		AS	SD	F(1)	p	²
		17,23	3,991	5,787	0,018	0,043
		18,88	3,474			
		AS	SD	F(2)	p	²
		17,43	4,142	5,037	0,008	0,073
		19,38	4,041			
		17,57	3,132			

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(21).

(p=0,029).

(AS=19,18)

(AS=16,81).

MANOVA

(p 0,000),

(21).

(p=0,021)

(21).

21

, (AS=18,07)

(AS=17,40),

(p=0,638).

(AS=18,64)
(AS=17,00), (p=0,015).

21

(21).

(AS=18,88)
(AS=17,23).

(p=0,018).

(AS=19,38)

(AS=17,57)

(AS=17,43).

MANCOVA

(p=0,008),

(p 0,000)

(

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22 –

		AS	SD	F(1)	p	²
		27,03	8,635	0,772	0,381	0,006
		28,35	8,533			
		AS	SD	F(3)	p	²
	19 24	27,64	9,848	3,649	0,015	0,080
	25 34	30,00	7,242			
	35 44	26,69	7,839			
	45 60	26,53	9,009			
		AS	SD	F(1)	p	²
		23,91	7,765	52,196	0,000	0,290
		34,02	5,673			

		AS	SD	F(1)	p	²
		27,79	8,450	0,024	0,877	0,000
		27,55	8,853			
		AS	SD	F(1)	p	²
		27,21	8,936	1,016	0,315	0,008
		28,85	7,533			
		AS	SD	F(1)	p	²
		28,65	6,659	0,520	0,472	0,004
		27,17	8,731			
		AS	SD	F(2)	p	²
		24,11	10,697	3,780	0,025	0,056
		26,92	8,588			
		29,76	7,221			
		AS	SD	F(1)	p	²
		27,06	9,000	0,018	0,895	0,000
		26,68	9,022			
		AS	SD	F(3)	p	²
		28,71	9,061	0,964	0,412	0,022
		28,45	8,408			
		24,50	10,607			
		25,90	8,334			
		AS	SD	F(1)	p	²
		28,00	8,818	0,040	0,843	0,001
		28,60	7,121			
		AS	SD	F(1)	p	²
		26,61	8,259	1,885	0,172	0,014
		28,67	8,798			
		AS	SD	F(1)	p	²
		28,94	8,432	0,323	0,571	0,003
		24,42	8,185			
		AS	SD	F(1)	p	²
		26,00	9,585	0,523	0,471	0,004
		28,67	7,829			

		AS	SD	F(3)	p	²
		28,74	8,304	0,589	0,623	0,014
		28,03	9,210			
		26,00	9,199			
		27,69	7,621			
		AS	SD	F(1)	p	²
		26,97	8,270	2,566	0,112	0,020
		29,51	8,606			
		AS	SD	F(1)	p	²
		26,89	8,398	1,886	0,172	0,014
		29,00	8,785			
		AS	SD	F(2)	p	²
		24,54	8,809	10,276	0,000	0,138
		32,27	5,835			
		29,60	7,927			

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22,

(AS=28,35)

(AS=27,03). ,

(22).

,

.

(p=0,015). ,

(p 0,000)

(22).

(p 0,000),

(22).

(22).

(AS=28,85)

(AS=27,21).

(p=0,315).

(p=0,025) (22).

(22).

(AS=32,27)

(AS=24,54; AS=29,60).

(p 0,000) (22).

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e .

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(Papadopoulos et al., 2011),

(Eniola, 2007; Lieberman & Robinson, 2004).

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ABAS

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(Lieberman & Robinson, 2004).

(Gold et al., 2005; Wolffe & Sacks, 1997).

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30-45% (Douglas et al., 2012; Montarzino et al., 2007; Shimizu, 2009).

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and Stephens, 2009; Lamoureux et al., 2004; Lamoureux et al., 2008; Langelaan et al., 2007).

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(Hesling, 1979)

(AS=7,30; AS=9,51).

Hartshorne & Jacob, 2004; Papadopoulos et al., 2011).

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e a

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(p 0,000).

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(Langelaan et al., 2007).

(Bernick, 1978, Beach et al.,

1995).

(Lee & Park, 2008).

a (Metsiou et al., 2011).

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($p=0,042$).

(Papadopoulos et al., 2011).

(p=0,001).

(Kef, 1997),

3.

ABAS

(p 0,000).

(Papadopoulos et al., 2011).

(p=0,019).

... (... , 2003; Vu ni i Eškirovi , 2008, Vu ini , 2014; Wilson et al., 2008).

... (Bourne et al., 2013; Gunnlaugsdottir, Arnarsson & Jonasson, 2008; Patil et al., 2014).

... (Cole, 1998, Galati et al., 2003; Jindal-Snape, 2005; Kim, 2003; Mallineni et al., 2006).

... (Papadopoulos et al., 2011).

... (... , 2010).

... (p=0,029).

(Papadopoulos et al., 2011),

(Brown & Beamish, 2012; Lohmeier, et al., 2009).

(Metsiou et al., 2011)

(, 2005).

(,)

(AS=5,68),
a
(AS=7,70, AS=7,75) (p=0,006).

(Campbell et al., 1999; Crews & Campbell, 2004; O'Donnell, 2005).

(Desrosiers, et al.,
2009; Noe et al., 2003; Douglas, Corcoran & Pavey, 2006, Roentgen et al., 2009;
Wahl et al., 2003).
(p 0,000),
(Alma, 2012; Lamoureux et al., 2008).

(Gold & Simson, 2005; Lindo & Nordholm, 1999).

(
(p=0,031).
(AS=7,70)

(AS=6,55).

(Patil et al., 2014). , retinitis pigmentosa,

(Herse, 2005; Mitchell & Bradley, 2006; Noe et al., 2003; Sugawara et al., 2010; Tabrett & Latham, 2012; Wahl et al., 2003).

(Burmedi et al., 2002a).

(Hayeems et al., 2005; Popivker et al., 2010).

(27,5%),

, 36

(p=0,046).

(AS=7,39)

(AS=6,40).

(Silva-Smith et al., 2007).

(Pavey et al., 2009).

(p=0,046).

(p 0,000),

(Douglas et al., 2012)

(AS=7,21)

(AS=7,17)

(AS=7,05).

(AS=7,70)

(AS=7,00; AS=6,63) (p=0,015).

(Shackelford, 2004).

(Bell et al., 2002; Lamoureux et al., 2008; Lindo & Nordholm, 1999; Stelmack et al., 2003; Tabrett & Latham, 2012; Walter et al., 2007).

($p=0,018$).

(Adetoro, 2010; Bayir et al., 2010; Gerber & Kirchner, 2001; Pfeiffer & Pinquart, 2012),

(Goudiras et al., 2009).

(Bosman et al., 2006; Dodd & Conn, 2000; Douglas et al., 2001; Tabrett & Latham, 2011; van Bon et al., 2000).

(p 0,000)

(Bosman et al., 2006; de Verdier & Ek, 2014; Gompel et al., 2002; Gompel et al., 2004; Mohammed & Omar, 2011).

(Diki , 1997).

(Goudiras et al., 2009)

” “,
(Goudiras et al., 2009).

(Myrberg, Backman &
Lennerstrand, 1996; Scott et al., 1999).

(p=0,049),
(p 0,000).

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(,)
(p=0,008),
(p 0,000).

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.
(Butler et al., 2005; Crudden & McBroom, 1999; Lindo &
Nordholm, 1999; Klinkosz et al., 2006; Crudden et al., 1998, Nagle, 2001;
Papadopoulos et al., 2009b).

, (Leonard et al., 1999;
Leonard, 2002; Wolffe, 2005).

al., 2009),

(Goudiras et

(Metsiou et al., 2011).

Oyinlade, 2008; McMahon, 2014).

(Lohmeier et al., 2009).

(Harrell & Curry, 1987, Bardin & Lewis, 2008).

(p 0,000)

(Crews, Giesen & Weber, 2001).

(AS=8,29)

(AS=6,29) (p 0,000).

25 34)
(p=0,024).

(Alma et al., 2012),

(Gold et al., 2010),

(p 0,000).

(Desrosiers et al., 2009).

2005).

(Carignan et al., 2008; Ivanoff & Sonn,

& Sacks, 1997)

(Alma et al., 2012; Land et al., 1999).

(Wolffe

(),

(Cook et al., 2005; Charles & Manthorpe, 2009; Schmier et al., 2006).

(p=0,008).

(Binns et al., 2012).

(p=0,005).

(AS=7,76)

(AS=8,69)

(AS=6,41)

& Schwab, 1971,

Shackelford, 2004; Socha & Staten, 2005).

(Ware

(Hesling, 1979; Iselin & Lewis, 2002; Runjic et al., 2015).

(46 60)

(AS=6,54)

- 19 34

(AS=8,00; AS=7,91; AS=7,59).

(Beverley et al., 2004; Jones et al., 2010).

(Campbell et al., 1999; FEMA, 1999; Gold & Simson, 2005; Pavey et al., 2009; Gül & Hazer, 2003, ahingöz & ahin, 2012).

(AS=6,68)

(AS=9,14) (p 0,000).

(p=0,059).

(AS=9,30)

(AS=7,38).

(Beverley et al., 2004).

(Douglaset al., 2010)

(Beverley et al., 2004; O'Day et al., 2004).

(AS=6,53),

(AS=8,12).

(AS=9,04)

(AS=7,52; AS=7,06) (p=0,008).

(Carignan et al., 2008; Shackelford, 2004).

(Robinson & Lieberman, 2004).

(Ajuwon et al., 2015; Bashir et al., 2014; Gold et al., 2010; Jessup et al., 2010; Kroksmark & Nordell, 2001; Roe, 2008; Sacks et al., 1998).

(Heyl & Wahl, 2001),

(Berger, 2012; Jessup et al., 2010).

(Hyland, Sodergren & Singh, 1999, Alma et al., 2012; Ayvazoglu et al., 2006; Jessup et al., 2010).

(Kroksmark & Nordell, 2001).

(Lieberman & MacVicar, 2003).

(Augestad & Jiang, 2015; Bashir et al., 2014; Longmuir & Bar-Or, 2000). (Aslan et al., 2012, Augestad, 2015)

(Ajuwon et al., 2015).

(p=0,018).

(Ayvazoglu et al., 2006; Kozub, 2003; Lieberman, Ponchillia, & Ponchillia, 2013; Lindo & Nordholm, 1999; Perkins et al., 2013),

Holbrook, Caputo, Perry, Fuller & Morgan, 2009).
& Nordholm, 1999)

(Longmuir & Bar-Or, 2000;

(Lindo

17%

, 64%

(p=0,037)

(Ajuwon et al., 2015; Hand, Lieberman & Stuart, 2006).

et al., 2009; Lamoureux et al., 2004; Noe et al., 2003,

Alma et al., 2012).

(Bashir et al., 2014)

(Burmedi et al., 2002b).

(, ,)
(Ajuwon et al., 2015).

(Lamoureux et al., 2004; Lamoureux et al, 2008; Heyl & Wahl, 2001).

,
, , (Berger, 2012).

,
(Rees, Saw, Lamoureux & Keeffe, 2007).

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, (),
(
,) (Berger, 2012; Elliott, 1989, Burmedi et al., 2002a).

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Wahl, 2001). (Heyl &

(Kotecha, O'Leary, Melmoth, Grant & Crabb, 2009).

a
(Chodzko-Zajko, 2014; Lieberman et al., 2010, Augestad &
Jiang, 2015; Jessup et al., 2010; Lieberman & McHugh, 2001; Movahedi et al., 2011;
Zeugner, 2007).

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MacVicar, 2003, Perkins et al., 2013).

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Stuart et al., 2007, Zeugner, 2007).

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(Ajuwon et al., 2015),

(Morelli et al., 2011, Augestad & Jiang, 2015; : Zeugner, 2007).

et al., 2010; Stuart et al. 2007,

Zeugner, 2007),

(Jessup

(Ivanoff et al., 2000).

(p=0,021),
(p=0,015) (p=0,001).

(Langelaan et al., 2007),

(AS=10,37) (AS=9,00) (p=0,010).

(Lau et al., 2002, Taylor et al., 2008)
(Berger, 2012; Heyl & Wahl,
2001; Rees et al., 2007; Schmier et al., 2006).

(AS=9,96)
(AS=9,23).

(Butler et al., 2005; Olson, 2012).

(Boerner & Cimarolli, 2005).

(p=0,032).

(AS=10,69),

(AS=10,26).

(AS=8,52) (p=0,004).

(Shackelford, 2004).

(p=0,006),

19 24

(Lieberman & Robinson, 2004).

(Leyser & Heinze, 2001; Wolffe, 2005),

(Klinkosz et

al., 2006; Papadopoulos et al., 2009b; Wolffe, 2005).

(Aldridge & Becker, 2003,

Duvdevany, Moin, & Yahav, 2007;

: Preston, 2002).

(Agran et al., 2007; Bardin

Lewis, 2008;

: Beach et al., 1995).

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Papadopoulos et al., 2013; Pinquart & Pfeiffer, 2011; Stojkovi i sar., 2011).

(Griffin & Kendall, 1989, Beach et al., 1995).

(Boerner & Wang, 2010; Senra et al., 2013; Wang & Boerner, 2008).

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2012)

(Nyman et al.,

(Papadopoulos et al., 2013).

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(Bardin & Lewis, 2008; Lieberman & Robinson, 2004).

($p=0,025$).

al., 2011). (Guerette et

Kaur, 1985), (Agrawal &

1995). (Kleinschmidt et al.,

, (Horowitz &

Reinhardt, 2000, Reinhardt et al., 2009; Webster & Roe, 1998).

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(Cutsforth, 1951; Huebert, 1990, Beach et al., 1995;
Griffin-Shirley & Nes, 2005).

Pinquart & Pfeiffer, 2011). (Beach et al., 1995;
Griffin-Shirley & Nes, 2005) (Klein, 1988, Beach et al., 1995;

(Tuttle, 1984, MacKay & Roy, 2002)

(Spencer et al., 1997).

(Agran et al., 2007).

(Pfeiffer & Pinquart, 2011; Pinquart & Pfeiffer, 2013).

(McMahon, 2014).

(p=0,038).

(Bardin & Lewis, 2008; Lieberman & Robinson, 2004; Rosenblum, 2000).

(George & Duquette, 2006; Hodge, Barr, Bowen, Leeven, Knox, 2013; Kef, 1997; Kef, 2002; Nikolarazi & De Reybekiel, 2001; Robinson & Lieberman, 2004; Rosenblum, 1998; Revuelta, 2010; Sacks et al., 2011) (Hill & Blasch, 1980, Salleh & Zainal, 2010).

(Celeste, 2006; : Salleh & Zainal, 2010).

(p=0,003),
(Kef & Dekovi , 2004; Kef et al., 2000; Rosenblum, 1998).

(Kef et al., 2000).

(Papadopoulos et al., 2011).

(p 0,000).

(Van Hasselt, 1983, George & Duquette, 2006; Gold et al., 2005; Frame, 2000; Gold, 2002; Kekelis, 1992; Shapiro et al., 2005; Scott et al., 1999).

(Roninson, 2002, Shapiro et al., 2005).

(Alma et al., 2011; Zebehazy & Smith, 2011).

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(Hodge et al., 2013; Esteban et al., 2008; Pinguart & Pfeiffer, 2011; Roe, 2008; Wang & Boerner, 2008).

(Salleh & Zainal, 2010),

(Kef & Dekovi , 2004; Salleh & Zainal, 2010).

(Allen, 1989).

(p=0,025).

(Agbeke, 2005; George & Duquette, 2006; Hess, 2010; Kef, 2002; Kef & Dekovi , 2004; Kef, Hox, & Habekothe, 2000; Lifshitz et al., 2007; Kemple 2004, Terpstra & Tamura, 2008; Špeli i Zuliani, 2011).

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() (Botsford, 2013)

(Kef, 1997, 1999; Kef et al., 1997, Kef et al., 2000).

(Clements, Douglas & Pavey, 2011, Baril, 2013; Bell & Mino, 2013) (Crudden & Hanye, 1999; Kihasa, 2001, Lee & Park, 2008).

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(Popivker et al., 2010).

(La Grow, 2004a; Kihasa, 2001, Lee & Park, 2008).

(p=0,016).

(Nijhuis, van Lierop & van de Toren, 2008, Baril, 2013; Jo et al., 2010; McDonnal, O'Mally & Crudden, 2014; Wolffe, 2005).

(Cmar, 2015; Leonard et al., 1999).

(Joseph & Robinson, 2012, Baril, 2013).

(Gold & Simson, 2005).

(Crudden & Mc Broom, 1999).

(McDonnall et al., 2014).

(Cmar, 2015;
McDonnall, 2011; Wolffe & Kelly, 2011). (Bell & Mino, 2013)

(Bell & Mino, 2013; Crudden & McBroom, 1999; Hewett et al., 2014;
Gold & Simson, 2005; McDonnall, 2011; Crudden et al., 1998, Nagle, 2001).

(Crudden & McBroom, 1999; Nagle, 2001).

(AS=5,22)
(AS=1,84).

(Bell & Mino, 2013; Crudden & McBroom, 1999; Kihasa, 2001, Lee &
Park, 2008).

4.

ABAS

(p 0,000).

(19 24)

(Adetoro, 2010; Bayir et al., 2010;

Gerber & Kirchner, 2001; Pfeiffer & Pinquart, 2012).

(Lieberman & Robinson, 2004).

(p 0,000).

(Bosman et al, 2006; de Verdier & Ek, 2014; Gompel et al., 2002; Gompel et al., 2004; Mohammed & Omar, 2011).

(Cole, 1998, Galati et al., 2003; Jindal-Snape, 2005; Kim, 2003; Mallineni et al, 2006)

(Spencer et al., 1997)

(Wagner, 2004).

(Brown & Barrett 2011; Kleinschmidt et al., 1995).

(Horowitz & Reinhardt, 2000, Reinhardt et al., 2009; Webster & Roe, 1998).

($p=0,017$).

(Cimarolli & Boerner, 2005; Lopez-Justicia & Cordoba, 2006),

(Leonard et al., 1999; Leonard, 2002; Wolffe, 2005).

Fels, 2013).
(Pfeiffer, 2011)

(Naraine &
(Beach et al., 1995; Pinguart &

(Griffin-Shirley & Nes, 2005; Klein, 1988, Beach et al., 1995).

1992).

(Koenig, 1992, Reid,

(Goudiras et al., 2009; Klinkosz et al., 2006; Papadopoulos et al., 2009b).

(p=0,029).

(Ajuwon

& Oyinlade, 2008; McMahon, 2014),

(Tuttle, 1984, MacKay & Roy, 2002).

(Spencer et al., 1997),

(Agran et al., 2007).

(Pfeiffer & Pinquart, 2011; Pinquart & Pfeiffer, 2013),

(),

(p 0,000).

(Ferrell, 1985; McBroom, Tedder, & Kang-Ji, 1992; Tuttle, 1984; Warnke, 1993, McConnell, 1999).

(Alma et al., 2011; Aro & Huurre, 2000; Hadidi, & Alkhateeb, 2012; Huurre et al., 1999; Kef, 2002; Pierce-Jordan & Lifter, 2005, Kwon, Elicker & Kontos, 2011; McGaha & Farran, 2001; Rosenblum, 1998).

(Ajuwon et al., 2015).

($p=0,029$).

24).

(Papadopoulos et al., 2011).

(: Gold et al., 2005; Wolffe & Sacks, 1997).

(Jang et al., 2013).

29%

(Ajuwon et al., 2015; Gold et al, 2005).

(Gold et al., 2005)

& Sacks, 1997).

(Wolffe

(Stojkovi i sar., 2011).

(Papadopoulos, 2014).

(Alma et al., 2011).

(p 0,000).

(
) (Alma et al., 2011; Desrosiers et al.,
2009; Hodge, et al., 2013).

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(p=0,021).

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(Jindal-Snape,

2005; Kef et al., 2000).

(Lopez-Justicia, Pichardo, Amezcua & Fernandez, 2001)

(Vu ini i sar., 2013).

(Bambara et al., 2009; Barron, Foxall, Dollen, Jones & Shull, 1994; Reinhardt et al., 2009; Wang & Boerner, 2008).

(p=0,015).

(Kef & Dekovi , 2004; Kef et al., 2000; Taylor et al., 2008).

(Ball & Nicolle, 2015; Bruce et al, 2007; Jang et al., 2013; Lindo & Nordholm, 1999).

(.)
(Vu ini , 2014). (Papadopoulos et al., 2011)

(Vu ini i sar., 2013), (Zebehazy & Smith, 2011)

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 /)
 a a
(Bili -Prci , Runji i Žolgar Jerkovi , 2015).

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27,5%

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,
,
(George, Duquette, 2006; Mc Gaha, & Farran, 2001).

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(Leyser & Heinze, 2001).
()
(p=0,018).

(),

(Jahoda, 1981, Cimarolli & Wang, 2006; Goodwin & Kennedy, 2005; Jang et al., 2013; Kef et al., 2000)

(p=0,008).

(Vik, Lilja & Nygard, 2007, Alma et al., 2011),

(Kef & Dekovi , 2004).

1999; Jacobs et al., 2005).

(Campbell et al.,

& Nordholm, 1999; Popivker et al., 2010).

(Lindo

25 34

(19

24)

(35 60) (p=0,015).

(p 0,000)

25 34

(Heyl & Wahl, 2012; Grow, Alpass & Stephens, 2009; Langelaan et al., 2007; Lamoureux et al., 2008; Papadopoulos et al., 2011).

(Alma, 2012; Berger, 2012; Burmedi et al., 2002a; Desrosiers et al., 2009; Silva-Smith et al., 2007; Sloan et al., 2005).

(p 0,000).

(Desrosiers, et al., 2009; Douglas, Corcoran & Pavey, 2006, Roentgen et al., 2009). (Gold et al., 2010; Wolffe & Sacks, 1997),

(Desrosiers et al., 2009).

(Alma et al., 2012; Land et al., 1999; Gül & Hazer, 2003, ahingöz & ahin, 2012).

(Campbell et al., 1999; Gold & Simson, 2005; Pavey et al., 2009).

(Langelaan et al., 2007),

(Lau et al., 2002, Taylor et al., 2008).

(Sugawara et al., 2010).

10–30°,

10–20°,

retinitis

pigmentosa

(Burmedi et al., 2002a; Hayeems et al., 2005;

Tabrett & Latham, 2012).

(

Bradley, 2006).

(Burmedi et al., 2002a; Mitchell &

(Lamoureux et al., 2008).

, retinitis pigmentosa

(Herse, 2005; Mitchell & Bradley, 2006; Noe et al., 2003; Tabrett & Latham, 2012; Wahl et al., 2003).

($p=0,025$).

(Nijhuis, van Lierop & van de Toren, 2008, Baril, 2013; Jo et al., 2010; McDonnal, O'Mally & Crudden, 2014; Wolffe, 2005).

(Boerner & Cimarolli, 2005; Popivker et al., 2010).

(Gold & Simson, 2005; Joseph & Robinson, 2012, Baril, 2013).

“ (Pinquart & Pfeiffer, 2014).

(Bell & Mino, 2013; McDonnall et al., 2014).

(AS=32,27)

(AS=24,54; AS=29,60) (p 0,000).

(Desrosiers et al., 2009)

(Wagner, 2004).

VI

1. ABAS ()

1.1.

1.2.

2. : (p=0,000), (p=0,001), (p=0,006), (p=0,013), (p=0,036), (p=0,042).

2.1. ABAS :) (p=0,000), (p=0,019), (p=0,029).) (p=0,020)

: (p=0,000),

(p=0,006), (p=0,015),
 (p=0,031),
 (p=0,046).
)

(p=0,018) (p 0,000), (p=0,008),
 (p=0,049).
)

(p=0,024). (p=0,005), (p 0,000),
 (p=0,008)
)

(p=0,037) (p 0,000) (p=0,008).
 (p=0,007), (p=0,018)
)

(p=0,021) (p=0,004), (p=0,010),
 (p=0,032).
) :

(p=0,006), (p=0,025)
 (p=0,038).
) :

(p=0,003), (p=0,008),
 (p=0,010) (p=0,025).
) , (p 0,000) (p=0,016)

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2.2.

ABAS

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)

(p 0,000), (p=0,004),
(p=0,017), (p=0,029)
(p=0,038).

)

(p 0,000), (p=0,008),
(p=0,015),
(p=0,018), (p=0,021) (p=0,029).

)

(p=0,015) (p=0,025) (p 0,000),

ABAS

)

(p 0,000), :
(p=0,037), (p 0,000), (p=0,010),
(p 0,000).

)

(p=0,001),
(p 0,000), (p=0,004), (p=0,005),
(p=0,007), (p=0,008), (p=0,015),
(p=0,038),
(p 0,000) (p=0,008).

)

(p 0,000), (p=0,006),

(p=0,018), (p=0,006), (p=0,018),
 (p=0,021) (p=0,024).
 :
 (p 0,000), (p=0,015) (p=0,029).
)
 (p=0,008), (p=0,006),
 (p=0,004), (p=0,025),
 (p=0,025). (p=0,021)
)
 (p=0,029), (p=0,046), (p=0,025),
 (p=0,015) (p=0,017),
 ABAS (p=0,036).
)
 (p=0,042),
 (p=0,010) (p=0,020),
 (p=0,018) (p=0,029).
)
 (p 0,000), (p=0,032),
 (p=0,046) (p=0,049).
)
 (p 0,000) (p=0,003).
)
 (p=0,019)
 (p=0,031).
)
 (p 0,000) (p=0,008).
)
 (p=0,016).

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(p=0,013).

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(p=0,038).

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