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193

21  
1385



[1]



[10]

[11]

[2]

[15 14·13·12]

...

2/5

2/2

[3]

[16]

3/5

[4]

[3]

[6 5]

[7]

.1

.2

[9 8]



( «t» )

SPSS

1830

193

8 1

1

«

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63

50/3 36/8

82/9

[17]

«t»

1

93

p<0/01

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» (0/100) «

) «

» (0/70) «

2

(0/50

143

48



:1

«т»										
17/58	0/63	2/6	8/3	16	22/8	44	68/9	133	1	
18/23	0/45	2/37	4/2	10	16/6	32	78/2	151	2	
18/42	0/47	2/72	1	2	25/9	50	73/1	141	3	
15/42	0/55	2/77	6/2	12	10/9	21	82/9	160	4	
17/67	0/75	2/45	15/5	30	23/8	46	60/6	117	5	
19/62	0/88	2/2	30/1	58	19/7	38	50/3	97	6	
15/12	0/63	2/46	7/3	14	43/9	76	53/4	103	7	
18/32	0/87	1/98	38/9	75	24/4	47	36/8	71	8	

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1

	(1)	(2)	(3)	1
	(3)	(2)	(3)	2
	(1)	(2)	(3)	3
	(1)	(2)	(3)	4
(1)		(2)	(3)	5
(1)	(2)		(3)	6
(1) 85×220		(2) 90×220	(3) 100×230	7
(1)	(2)	(3)		8

3

80/9

163

26/4

28

«т»

2

p < 0/01



3

t

p<0/001

.2

«t»									
21/18	0/85	1/82	46/9	67	24/5	35	28/7	41	1
19/12	0/90	1/61	66/43	95	5/59	8	27/98	40	2
28/72	0/57	2/74	6/4	4	12/8	6	80/9	38	3
14/35	0/72	2/3	14/6	7	37/5	18	47/9	23	4
16/72	0/75	2	27/3	39	44/8	64	28	40	5

: 2

.(1) 3 (2) 3×1 (3) 4×3 .1

.(1) 0/25 (2) 0/25 (3) 0/5 .2

.(1) (2) (3) .3

.(1) (2) (3) .4

.(1) (2) (3) .5

5

p < 0/01

43 (4 . . .)

6

62/8

34/9

80/14

«t»

4

2/94

p < 0/01

«t»

6

p < 0/01

46/1

«t»

.(5 )



15/5

(36/8)

(7 )

3

«1»									
18/22	0/83	1/8	46	75	27/6	45	26/6	43	1

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3

.(1)

(2)

(3)

.1

4

«1»									
22/8	0/9	2/28	30/2	13	11/6	5	58/1	25	1
23/12	0/91	2/05	31/56	14	30/23	13	37/21	16	(65 90) 2
18/3	0/91	2/13	30/2	13	27/9	12	41/8	18	3 5 3
16/42	0/95	1/74	60/5	26	4/7	2	34/9	15	4
18/82	0/69	2/5	11/63	5	25/58	11	62/8	27	5

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4

.(1)

(2)

(3)

.1

.(1) 50

(2) 50-70

(3) 65 90

.2

.(1) 4 2

(2) 4 2 (3) 5 3

.3

.(1)

2

(2)

2 3

(3)

.3 4

.(1)

(2)

(3)

.5

5

«1»									
14/82	0/32	2/91	1	2	6/7	13	178 92/2		1
18/42	0/85	2/17	29	56	24/9	48	46/1	89	2

21 / 85 /



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(2) (3) .1

.(1) (2) (3) .2

:6

«t»										
21/42	0/76	2/38	17/1	33	27/5	53	55/4	107	30	1
21/42	0/58	2/72	6/8	13	14/6	29	76/6	151	2/5	2
23/82	0/62	2/66	8/3	16	16/7	33	75	144	2/5	3
21/18	0/80	2/41	20/3	40	18/2	35	61/5	118	1/20	4
24/85	0/85	1/2	35/4	69	27/6	53	37	71		5
17/32	0/7	2/55	12/5	17	19/12	26	68/38	93	1/3 1/8	6
19/82	0/57	2/73	6/61	9	13/23	18	80/14	109	1/4	7
25/12	0/51	2/7	2/94	4	23/53	32	73/52	100	15 18	8

: 6  
(1) 40 (2) 40 30 (3) 30 .1

(1) 2 (2) 2/3 (3) 2/5 .2

(1) 2 (2) 2/3 (3) 2/5 .3

(1) (2) 1 (3) 1/20 .4

(1) (2) (3) .5

(1) 2/2 (2) 1/8 2/2 (3) 1/3 1/8 .6

(1) 1/2 (2) 1/2 (3) 1/4 .7

(1) 23 (2) 23 18 (3) 15 18 .8

«t»

) 7

(8) p < 0/01



18/1

9

«t»

8

p < 0/01

:7

«t»										
16/72	0/75	1/52	62/7	121	21/8	42	15/5	30	2 5	1
19/62	0/85	1/97	37/5	72	27/6	54	34/9	67		2
17/43	0/83	1/95	36/8	43	30/8	36	32/5	38		3
18/72	0/85	1/93	39/5	30	27/6	21	32/9	25	25	4
17/75	0/79	2/09	26/9	52	63/3	70	36/8	71	30	5

: 7

(1) 3 7 (2) 3 7 (3) 2 5 1

1 1 (3) 2

(1) 50 (2) 50 (3) 40 3

(1) 35 (2) 35 (3) 25 4

(1) 40 (2) 40 (3) 30 5

:8

«t»										
13/85	0/78	1/52	65/3	126	16/6	32	18/1	3		1
18/92	0/8	1/6	60/1	116	19/7	38	20/2	39		2
18/62	0/98	1/89	53/9	104	3/1	6	43	83		3
23/92	0/25	2/94	0/5	1	4/7	9	94/8	183		4







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(1373) .12

(1377) .13

(1373) .1

(1373) .14 (1374) .2

(1376) .15 (1380) .3

(1373) .16 (1374) .4

(1376) .17

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