

Supplementary Material

Article Title: Psychological Pain in Suicidality: A Meta-Analysis

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List of Supplementary Material for the article

1. [eTable 1](#) Study Characteristics of Psychological Pain in Subjects With Suicidal Behaviors Versus Those Without
2. [eTable 2](#) Effect Sizes for the Contrasts Between Suicidal vs Nonsuicidal Subjects for the Whole Sample and Subgroup Analyses
3. [eFigure 1](#) Sub-group Analyses: Comparison of Psychological Pain in Subjects With and Without Lifetime History of Suicide Attempt, According to Between-Group Difference on Depressive Scores
4. [eFigure 2](#) Sub-group Analyses: Comparison of Psychological Pain in Subjects With and Without Lifetime History of Suicide Attempt, According to the Study Sample (General Population or Psychiatric Patients)
5. [eFigure 3](#) Sub-group Analyses: Comparison of Psychological Pain in Subjects With and Without Lifetime History of Suicide Attempt, According to Mean Subjects' Age
6. [eFigure 4](#) Sub-group Analyses: Comparison of Psychological Pain in Subjects With and Without Current Suicide Attempt, Including MSA as SA Group for Studies #29, #30, #32
7. [eFigure 5](#) Sub-group Analyses: Comparison of Psychological Pain in Subjects With and Without Current Suicide Attempt, Including MNSA as SA group for studies #29, #30, #32
8. [eFigure 6](#) Sub-group Analyses: Comparison of Psychological Pain in Subjects With and Without Current Suicide Attempt (Including MSA as SA Group for Studies #29, #30, #32), According to Between-Group Difference on Depressive Scores



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9. [eFigure 7](#) Sub-group Analyses: Comparison of Psychological Pain in Subjects With and Without Current Suicide Attempt (Including MNSA as SA Group for Studies #29, #30, #32), According to Between-Group Difference on Depressive Scores
10. [eFigure 8](#) Sub-group Analyses for Studies #29, #30, #32: Comparison of Psychological Pain in Subjects With MSA and MNSA
11. [eFigure 9](#) Sub-group Analyses for Studies #29, #30, #32: Comparison of Psychological Pain in Subjects With MSA and Without Suicide Attempt
12. [eFigure 10](#) Sub-group analyses for studies #29, #30, #32: Comparison of Psychological Pain in Subjects With MNSA and Without Suicide Attempt
13. [eFigure 11](#) Sub-group analyses: Comparison of Psychological Pain in Subjects With and Without Current Suicide Ideation, According to Between-Group Difference on Depressive Scores
14. [eFigure 12](#) Sub-group analyses: Comparison of Psychological Pain in Subjects With and Without Current Suicide Ideation, According To The Study Sample (General Population Or Psychiatric Patients)
15. [eFigure 13](#) Sub-group analyses: Comparison of Psychological Pain in Subjects With and Without Current Suicide Ideation, According to Mean Subjects' Age

Disclaimer

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Supplementary eTable 1.Study characteristics of psychological pain in subjects with suicidal behaviors versus those without.

Studies: author date	Population	Type of Suicidality	Scale assessing Psychological pain	Study sample	Age (years): mean(SD)	Gender (% Male)	Mean (SD) of psychological pain	Scale of depression & scores of depression Mean (SD)	Newcastle Ottawa Scale
Holden 2001 ^a (14)	Suicidal subjects: Undergraduates Non suicidal subjects: Undergraduates	Lifetime history of SA	Psychache scale	SA: 30 No SA: 264	NA	NA	SA: 28.0 (8.4) No SA: 22.8 (7.8)	NA	7
Flamenbaum 2007 ^a (15)	Suicidal subjects: Undergraduates Non suicidal subjects: Undergraduates	Lifetime history of SA	Psychache scale	SA: 25 No SA: 239	SA: 19.56 (5.27) No SA: 18.08 (NA)	SA: 0 No SA: 26.8	SA: 30.24 (11.52) No SA: 21.98 (9.43)	NA	7
Levi 2008 (29)	Suicidal subjects: Inpatients (who made medically serious suicide attempts) Non suicidal subjects: Healthy Controls	Current SA	OMMP	MSA: 35 NMSA: 67 No SA: 71	NA	NA	MSA: 3.86 (0.80) NMSA: 3.67 (0.72) No SA: 2.74 (0.77)	BDI MSA: 36.11 (14.28) NMSA: 30.50 (13.23) No SA: 5.72 (6.29)	8
Pompili 2008 (12)	Suicidal subjects: Inpatients Non suicidal subjects: Inpatients	Lifetime history of SA Current SI	PPAS scale	SA: 39 No SA: 49 SI: 55 No SI: 33	NA	NA	SA: 6.41 (2.21) No SA: 6.86 (2.44) SI: 7.04 (2.28) No SI: 6.03 (2.34)	NA	7
Flamenbaum ^a 2009 (16)	Suicidal subjects: Undergraduates Non suicidal subjects:	Lifetime history of SA	Psychache scale	SA: 21 No SA: 561	SA: 19.86 (3.84) No SA: 18.28 (NA)	SA: 28.56 No SA: 25.4	SA: 26.48 (10.95) No SA: 20.36 (7.90)	NA	6

	Undergraduates								
Conrad ^a 2009 (35)	Suicidal subjects: Inpatients Non suicidal subjects: Inpatients	Lifetime history of SA Lifetime history of SI Current SA Current SI	OMMP	Lifetime history of SA: 94 No lifetime history of SA: 25 Lifetime history of SI: 135 No lifetime history of SI: 4 Current SA: 22 No current SA: 121 Current SI: 107 No current SI: 39	Lifetime history of SA: 34.17 (11.22) No lifetime history of SA: 37.84 (11.92) Lifetime history of SI: 35.24 (11.76) No lifetime history of SI: 34.25 (17.35) Current SA: 33.86 (11.24) No current SA: 35.93 (12.21) Current SI: 36.07 (11.34) No current SI: 33.95 (13.56)	Lifetime history of SA: 30.9 No lifetime history of SA: 24.0 Lifetime history of SI: 30.4 No lifetime history of SI: 25.0 Current SA: 31.8 No recent SA: 29.8 Current SI: 21.7 No current SI: 41.0	Lifetime history of SA: 112.73 (41.69) No lifetime history of SA: 122.60 (26.34) Lifetime history of SI: 115.37 (37.85) No lifetime history of SI: 115.67 (30.02) Current SA: 144.31 (43.15) No current SA: 113.79 (36.61) Current SI: 113.02 (38.44) No current SI: 132.31 (36.97)	NA	6
Olié ^a 2010 (38)	Suicidal subjects: Inpatients Non suicidal subjects: Inpatients	Current SA Lifetime history of SA Current SI	Visual Analogic Scale	Current SA: 87 No current SA: 62 Lifetime history of SA: 148 No lifetime history of SA: 62	Current SA: 40.07 (12.42) No current SA: 40.18 (13.52) Lifetime history of SA: 39.29 (12.96) No lifetime history of SA: 40.18 (13.52)	Current SA: 33.3 No current SA: 27.4 Lifetime history of SA: 43.6 No lifetime history of SA: 37.7	Current SA: 7.08 (2.75) No current SA: 6.79 (2.07) Lifetime history of SA: 7.08 (2.55) No lifetime history of SA: 6.79 (2.07)	BDI Current SA: 21.29 (6.52) No Current SA: 19.63 (6.12) Lifetime history of SA: 21.58 (6.70) No lifetime history of SA: 19.63 (6.12) Current SI: 22.84 (5.71)	6

				Current SI: 138 No current SI: 72	Current SI: 38.14 (13.16) No current SI: 42.25 (12.65)	Current SI: 33.33 No current SI: 22.22	Current SI: 7.30 (2.32) No current SI: 6.40 (2.50)	No current SI: 17.15 (6.64)	
Van Heeringen ^a 2010 (41)	Suicidal subjects: Inpatients Non suicidal subjects: Inpatients	Current SI	OMMP scale	SI :13 No SI : 26	NA	NA	SI : 145.8 (23.4) No SI: 129.7 (35.1)	BDI SI: 33.1 (11.6) No SI: 27.3 (12.9)	7
Patterson ^a 2012 (22)	Suicidal subjects: Homeless men Non suicidal subjects: Homeless men	Lifetime history of SA Current SI	Psychache scale	SA: 23 No SA: 74 SI: 76 No SI: 20	SA: 44.65 (8.87) No SA: 47.18 (12.77) SI: 48.41 (11.60) No SI: 39.90 (11.45)	SA: 100 No SA: 100 SI: 100 No SI: 100	SA: 39.34 (13.64) No SA: 22.22 (10.96) SI: 27.65 (14.64) No SI: 21.65 (7.94)	BDI SA: 23.59 (8.63) No SA: 11.94 (9.27) SI: 15.79 (10.36) No SI: 10.34 (9.31)	6
Pereira ^a 2010 (24)	Suicidal subjects: Incarcerated offenders and undergraduates Non suicidal subjects: Incarcerated offenders and undergraduates	Lifetime history of SI Lifetime history of SA	Psychache scale	Lifetime history of SI: 55 No lifetime history of SI: 23 Lifetime history of SA: 29 No lifetime history of SA: 15	Lifetime history of SI: 31.16 (14.71) No lifetime history of SI: 21.17 (5.51) Lifetime history of SA: 35.72 (17.03) No lifetime history of SA: 20.93 (5.66)	Lifetime history of SI: 69.09 No lifetime history of SI: 69.09 Lifetime history of SA: 86.21 No lifetime history of SA: 69.09	Lifetime history of SI: 30.19 (11.13) No lifetime history of SI: 21.95 (7.77) Lifetime history of SA: 33.23 (12.95) No lifetime history of SA: 26.93 (8.84)	DHS Depression SI: 7.56 (4.24) No SI: 4.78 (3.59) SA: 8.59 (4.22) No SA: 5.93 (4.01)	6
Corona ^a 2013 (36)	Suicidal subjects: Outpatients Non suicidal subjects: Outpatients	Current SA	Likert scale for SSF psychological pain	SA: 31 No SA: 21	NA	NA	SA: 3.74 (0.70) No SA: 4.16 (1.00)	NA	5

Caceda ^a 2014 (25)	<p>Suicidal subjects: Inpatients and outpatients</p> <p>Non suicidal subjects: Inpatients and outpatients</p>	<p>Current SA</p> <p>Current SI</p> <p>Lifetime history of SA</p> <p>Lifetime history of SI</p>	Psychache scale	<p>Current SA: 20 No current SA: 20</p> <p>Current SI: 22 No Current SI: 20</p> <p>Lifetime history of SA: 45 No lifetime history of SA: 17</p> <p>Lifetime history of SI: 45 No lifetime history of SI: 17</p>	<p>Current SA: 36.4 (3.8) No current SA: 46.2 (2.5)</p> <p>Current SI: 43.1 (2.7) No currentSI : 46.2 (2.5)</p> <p>Lifetime history of SA: 37.72 (13.82) No lifetime history of SA: 35.10 (15.87)</p> <p>Lifetime history of SI: 38.33 (15.06) No lifetime history of SI: 31.53 (15.30)</p>	<p>Current SA: 40 No current SA: 35</p> <p>current SI: 50 No currentSI: 35</p> <p>Lifetime history of SA: 31.1 No lifetime history of SA: 70.5</p> <p>Lifetime history of SI: 46.7 No lifetime history of SI: 47.0</p>	<p>Current SA: 43.4 (2.9) No currentSA: 37.0 (3.2)</p> <p>Current SI: 54.3 (2.2) No current SI: 37.0 (3.2)</p> <p>Lifetime history of SA: 52.24 (11.90) No lifetime history of SA: 26.23 (16.74)</p> <p>Lifetime history of SI: 47.12 (15.25) No lifetime history of SI: 16.31 (8.54)</p>	<p>BDI</p> <p>Current SA: 29.1 (2.6) No currentSA: 25.5 (2.4)</p> <p>CurrentSI: 36.2 (2.6) No currentSI: 25.5 (2.4)</p> <p>Lifetime history of SA: 36.34 (10.66) No lifetime history of SA 12.13 (13.60)</p> <p>Lifetime history of SI: 31.24 (14.01) No lifetime history of SI: 4.35 (6.45)</p>	7
Li 2014 (40)	<p>Suicidal subjects: Outpatients</p> <p>Non suicidal subjects: Outpatients</p>	<p>Lifetime history of SA</p>	Psychache scale	<p>SA: 28 No SA: 83</p>	<p>SA: 28.93 (12.37) No SA: 33.99 (12.63)</p>	<p>SA: 28.57 No SA: 39.76</p>	<p>SA: 44.61 (11.56) No SA: 38.46 (11.62)</p>	<p>BDI: SA: 28.93 (11.51) No SA: 24.41 (11.00)</p>	7

Smadar 2014 (33)	Suicidal subjects: Inpatients Non suicidal subjects: Inpatients	Current SA	Mental Pain Scale	SA: 50 No SA: 50	SA: 43.26 (14.5) No SA: 43.86 (15.4)	SA: 30 No SA: 30	SA: 3.39 (0.71) No SA: 2.71 (0.76)	BDI SA: 1.58 (0.65) No SA: 0.98 (0.62)	7
Levi-Belz 2014 (32)	Suicidal subjects: Inpatients (who made medically serious suicide attempts) Non suicidal subjects: Inpatients	Current SA	Mental Pain Scale	MSA: 78 MNSA: 116 No SA: 47	SA:38.5 (14.2) MNSA:38.5 (13.9) No SA: 40.9 (14.0)	SA: 56.4 MNSA: 44.0 No SA: 29.8	MSA: 3.86 (0.75) MNSA: 3.65 (0.70) No SA: 3.32 (0.86)	BDI MSA: 34.9 (13.12) MNSA:30.9 (13.1) No SA: 21.9 (13.9)	7
Gvion ^a 2014 (30)	Suicidal subjects: Inpatients (who made medically serious suicide attempts) Non suicidal subjects: Inpatients	Current SA	OMMP	MSA: 43 MNSA: 49 SA (MSA+MNS A): 92 No SA: 47	MSA: 37.37 (13.31) MNSA: 40.31 (13.76) No SA: 40.96 (14.07)	MSA: 60.5 MNSA: 69.4 SA (MSA+MNS A): 65.2 No SA: 70.2	MSA: 3.83 (0.74) MNSA: 3.65 (0.70) SA (MSA+MNSA): 3.74 (0.72) No SA: 3.32 (0.87)	BDI MSA: 1.62 (0.59) MNSA: 1.50 (0.63) SA (MSA+MNSA): 1.56 (0.61) No SA: 1.04 (0.67)	8
Xie 2014 (39)	Suicidal subjects: Outpatients (high BSS-C and BSS-W scores) Non suicidal subjects: Healthy Controls	Lifetime history of SI	Psychache Scale	SI: 27 No SI: 20	SI: 29.81 (10.54) No SI: 30.00 (11.12)	SI: 29.6 No SI: 40.0	SI: 46.11 (10.73) No SI: 20.60 (4.95)	BDI: SI: 30.48 (10.49) No SI: 5.02 (2.47)	7
Troister ^a 2015 (21)	Suicidal subjects: Undergraduates Non suicidal subjects: Undergraduates	Lifetime history of SA	Psychache scale	SA: 216 No SA: 7306 SI: 51	SA: 18.56 (2.17) No SA: 18.22 (1.93)	SA: 16.9 No SA: 25.1 SI: 38.0	SA: 31.00 (12.64) No SA: 20.02 (7.86)	BDI SA: 15.48 (11.67) No SA: 7.81 (6.86)	6

		Current SI		No SI: 7049	SI: 18.14 (0.79) No SI: 18.21 (1.72)	No SI: 24.77	SI: 36.62 (14.00) No SI: 20.22 (8.03)	SI: 27.97 (12.88) No SI: 7.87 (6.88)	
Levinger ^a 2015 (31)	Suicidal subjects: Inpatients Non suicidal subjects: Inpatients	Current SA Current SI	OMMP	SA: 42 No SA: 36 SI: 31 No SI: 11	SA: 18.6 (3.3) No SA: 21.08 (2.73) SI: 17.94 (2.94) No SI: 20.45 (3.67)	SA: 45.2 No SA: 58.3 SI: 41.9 No SI: 54.5	SA: 3.13 (0.77) No SA: 2.42 (0.76) SI: 3.31 (0.80) No SI: 2.68 (0.45)	BDI SA: 29.79 (11.09) No SA: 15.50 (10.78) SI: 34.26 (10.31) No SI: 22.88 (11.48)	6
Shelef ^a 2015 (65)	Suicidal subjects: Soldiers Non suicidal subjects: Psychologically treated and healthy soldiers	Lifetime history of SA Current SI	OMMP	SA: 62 No SA: 108 SI: 58 No SI: 113	SA: 19.42 (0.90) No SA: 19.88 (1.25) SI: 19.26 (0.83) No SI: 19.94 (1.23)	SA: 59.7 No SA: 61.1 SI: 60 No SI: 61.8	SA: 140.56 (42.31) No SA: 101.58 (38.75) SI: 150.10 (39.18) No SI: 98.05 (35.18)	NA	7

SA=Suicide Attempt; SI = Suicide Ideation; HC = Healthy Controls; BDI : Beck Depression Inventory; BSS= Beck Scale for Suicide Ideation; MSA= Medically Serious Suicide Attempt, MNSA= Medically Non Serious Suicide Attempt; NA=NotAvailable; DHS = Depression Hopelessness Suicide Screening Form; OMMP= Orbach and Milkuncer Mental Pain; PPAS = Psychological Pain Assessment Scale; SSF= Suicide Status Form; SD= Standard Deviation

^a Studies for which corresponding author provided data not shown in the published paper.

Supplementary eTable 2. Effect sizes for the contrasts between suicidal vs non suicidal subjects for the whole sample and subgroup analyses

	Subjects with vs. without lifetime history of SA				Subjects with vs. without current SA				Subjects with vs. without lifetime history of SI				Subjects with vs. without current SI			
	Studies included	n	SMD (95% CI)	Z ^a	Studies included	n	SMD (95% CI)	Z ^a	Studies included	n	SMD (95% CI)	Z ^a	Studies included	n	SMD (95% CI)	Z ^a
Whole sample	12, 14-16, 21, 22, 24, 25, 35, 38, 40, 65	760 vs. 8803	0,72 (0,34 to 1,09)	3.77 ^{***}	25, 30, 31, 33, 35, 36, 38	344 vs. 357	0,66 (0,21 to 1,11)	2.87 ^{**}	24,25, 35,39	162 vs. 64	0,49 (0,32 to 2,66)	2.50 [*]	12,21,22, 25,31,35, 38,41,65	551 vs. 7383	1,15 (0,43 to 1,86)	3.14 ^{***}
Subgroup analysis	Studies included	n	SMD (95% CI)	Z ^a	Studies included	n	SMD (95% CD)	Z ^a	Studies included	n	SMD (95% CD)	Z ^a	Studies included	n	SMD (95% CD)	Z ^a
Difference in depressive scores																
No	24,38,40	205 vs. 160	0,32 (0,02 to 0,63)	2,12 [*]	NA	NA	NA	NA	NA	NA	NA	NA	22,38,41	227 vs. 118	0,40 (0,17 to 0,64)	3.42 ^{**}
Yes	21,22,25	284 vs. 7397	1,46 (1,20 to 1,73)	10.87 ^{***}	NA	NA	NA	NA	NA	NA	NA	NA	21,25,31	104 vs. 7080	2,90 (1,03 to 4,78)	3.03 ^{**}
Study population																
General	14-16,21, 22,24,65	278 vs. 8567	0,97 (0,68 to 1,25)	6.69 ^{***}	NA	NA	NA	NA	NA	NA	NA	NA	21,22,65	185 vs. 7182	1,32 (0,49 to 2,14)	3.13 ^{**}
Psychiatric	12,25,35, 38,40	354 vs. 236	0,38 (-0,19 to 0,97)	1,30	NA	NA	NA	NA	NA	NA	NA	NA	12,25,31, 35,38,41	366 vs. 201	1,04 (0,19 to 1,88)	2.41 [*]
Age (years)																
< 30	15,16,21, 24,65	353 vs. 8229	0,95 (0,62 to 1,28)	5.71 ^{***}	NA	NA	NA	NA	NA	NA	NA	NA	21,31,65	140 vs. 7173	1,50 (0,91 to 2,10)	4.94 ^{***}

≥ 30	22,25,35, 38,40	338 vs. 261	0,73 (0,03 to 1,43)	2,04*	NA	NA	NA	NA	NA	NA	NA	22,25, 35,38	343 vs 151	1,32 (0,11 to 2,53)	2.13*
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^a Test for the significance of the effect size.

* p<0.05, ** p<0.01, *** p<0.001

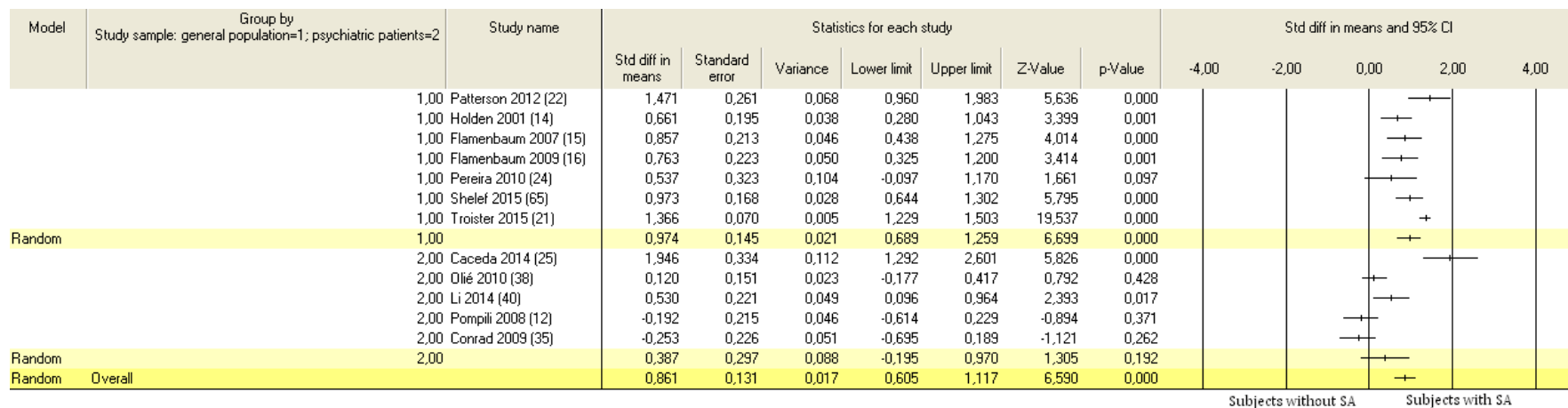
NA= Not Available; SA=Suicide Attempt; SI = Suicide Ideation; SMD (95% CI)= Standardized Mean Difference (95% Confidence Interval)

Supplementary eFigure 1. Sub-group analyses: comparison of psychological pain in subjects with and without lifetime history of suicide attempt, according to between-group difference on depressive scores

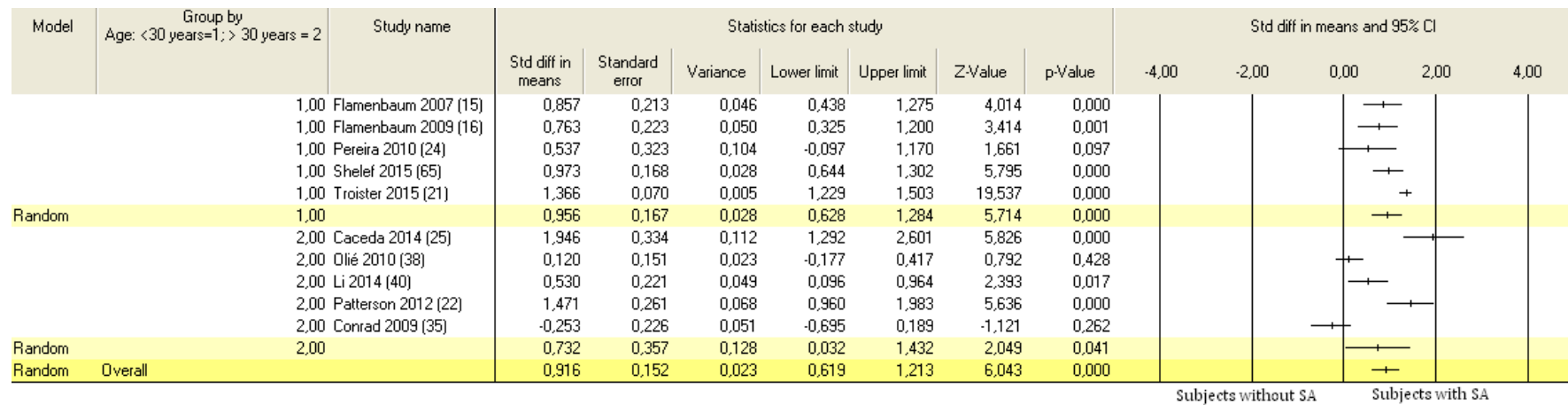
Model	Group by Difference in depressive scores between groups: no=1; yes=2	Study name	Statistics for each study							Std diff in means and 95% CI				
			Std diff in means	Standard error	Variance	Lower limit	Upper limit	Z-Value	p-Value	-4,00	-2,00	0,00	2,00	4,00
		1,00 Olié 2010 (38)	0,120	0,151	0,023	-0,177	0,417	0,792	0,428					
		1,00 Li 2014 (40)	0,530	0,221	0,049	0,096	0,964	2,393	0,017					
		1,00 Pereira 2010 (24)	0,537	0,323	0,104	-0,097	1,170	1,661	0,097					
Random		1,00	0,328	0,154	0,024	0,026	0,630	2,128	0,033					
		2,00 Caceda 2014 (25)	1,946	0,334	0,112	1,292	2,601	5,826	0,000					
		2,00 Patterson 2012 (22)	1,471	0,261	0,068	0,960	1,983	5,636	0,000					
		2,00 Troister 2015 (21)	1,366	0,070	0,005	1,229	1,503	19,537	0,000					
Random		2,00	1,466	0,135	0,018	1,202	1,730	10,876	0,000					
Random	Overall		0,972	0,101	0,010	0,774	1,171	9,587	0,000					

Subjects without SA Subjects with SA

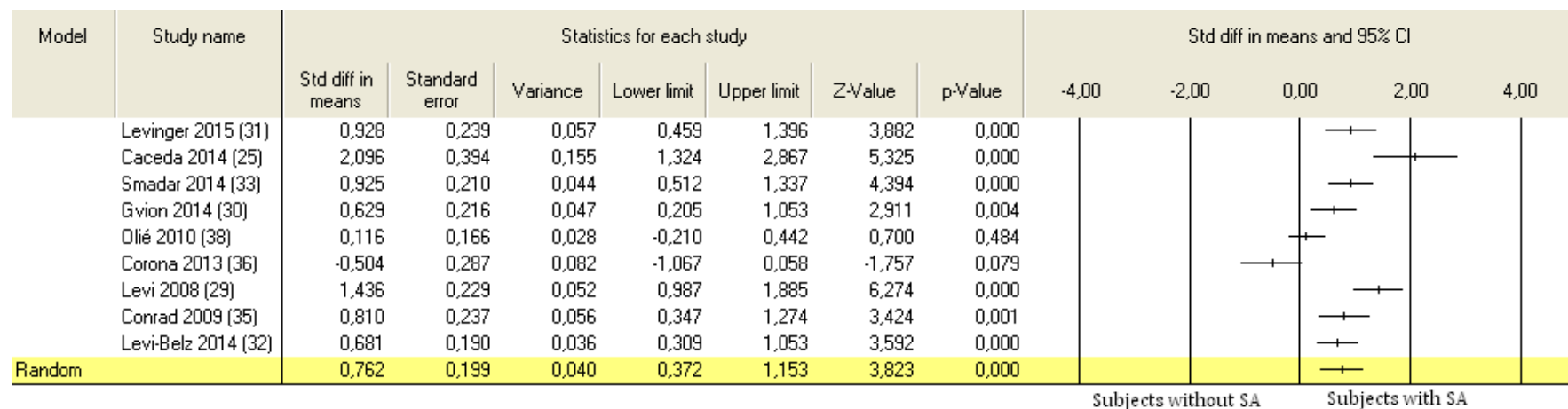
Supplementary eFigure 2. Sub-group analyses: comparison of psychological pain in subjects with and without lifetime history of suicide attempt, according to the study sample (general population or psychiatric patients)



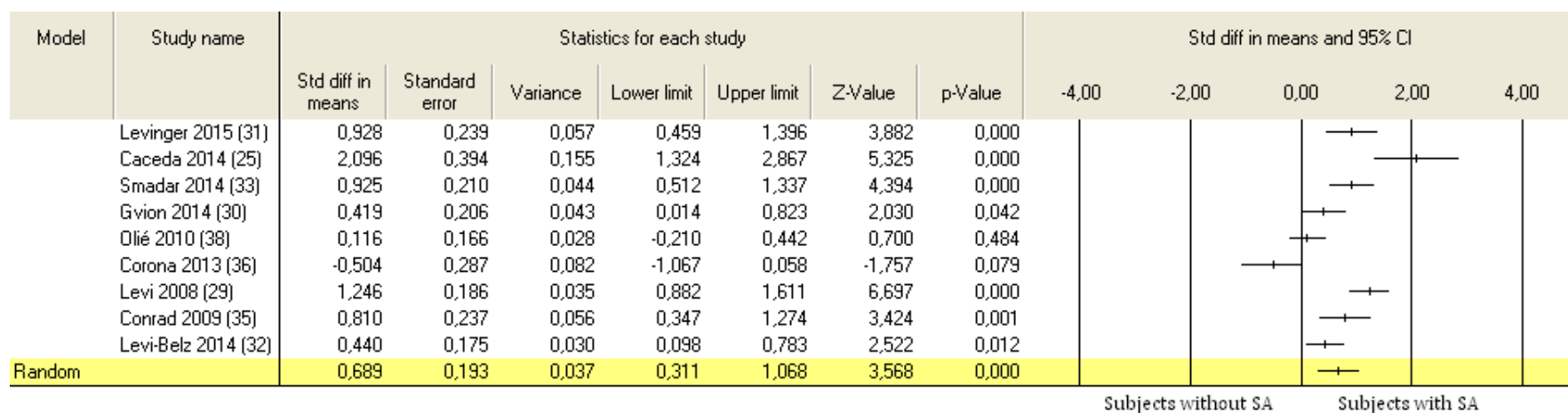
Supplementary eFigure 3. Sub-group analyses: comparison of psychological pain in subjects with and without lifetime history of suicide attempt, according to mean subjects' age



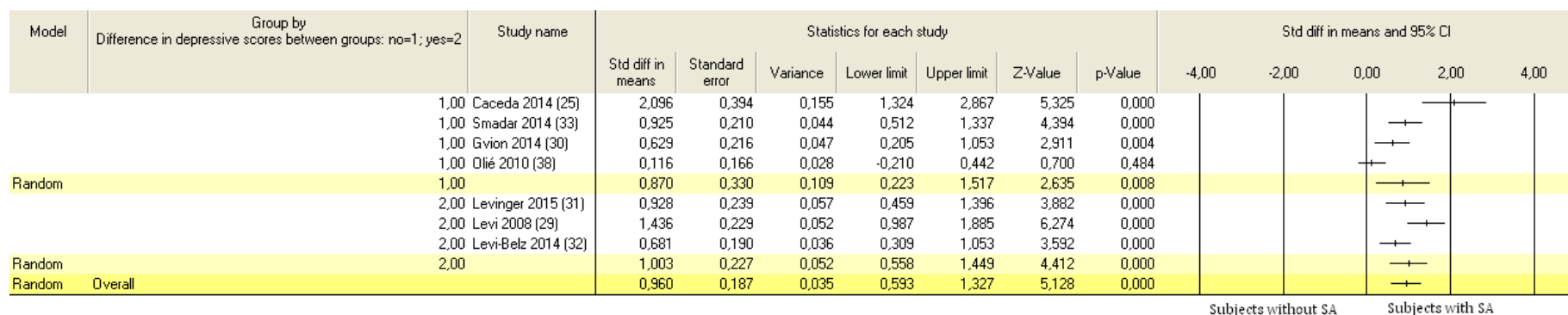
Supplementary eFigure 4. Sub-group analyses: comparison of psychological pain in subjects with and without current suicide attempt, including MSA as SA group for studies #29, #30, #32



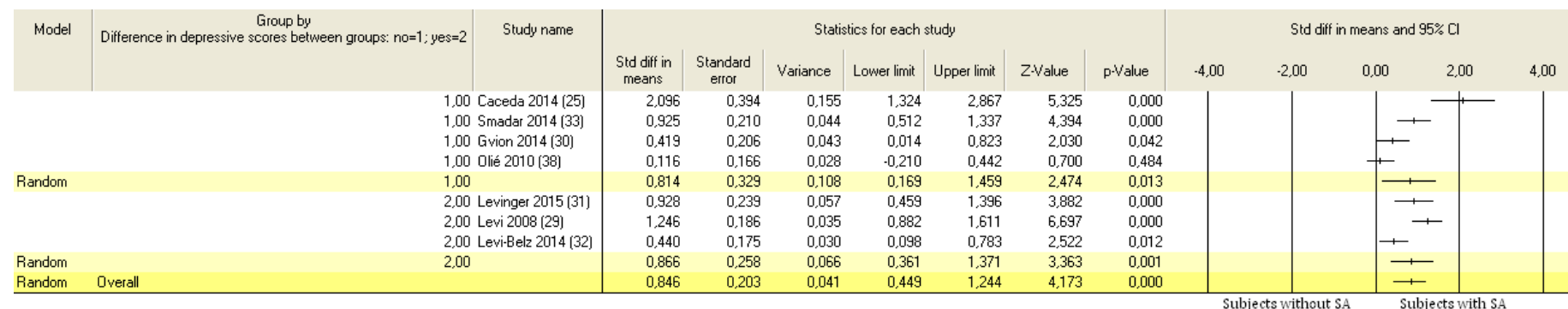
Supplementary eFigure 5. Sub-group analyses: comparison of psychological pain in subjects with and without current suicide attempt, including MNSA as SA group for studies #29, #30, #32



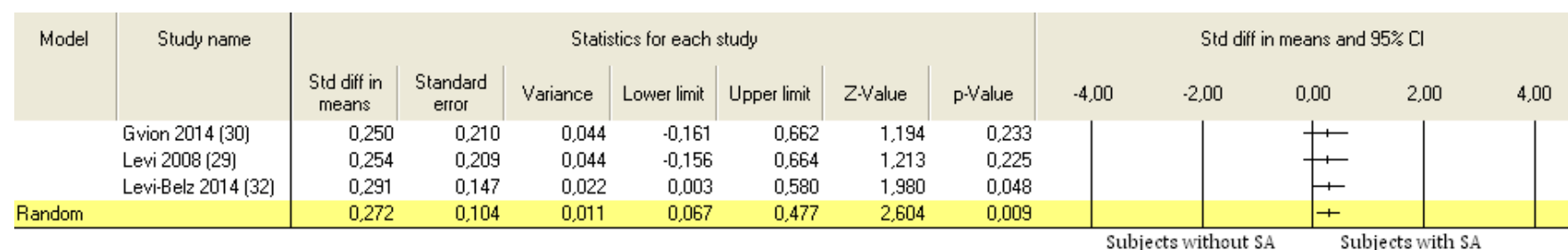
Supplementary eFigure 6. Sub-group analyses: comparison of psychological pain in subjects with and without current suicide attempt (including MSA as SA group for studies #29, #30, #32), according to between-group difference on depressive scores



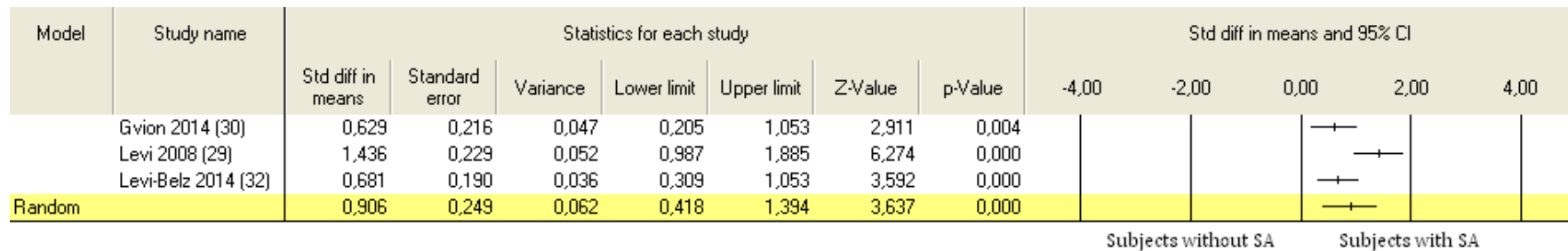
Supplementary eFigure 7. Sub-group analyses: comparison of psychological pain in subjects with and without current suicide attempt (including MNSA as SA group for studies #29, #30, #32), according to between-group difference on depressive scores



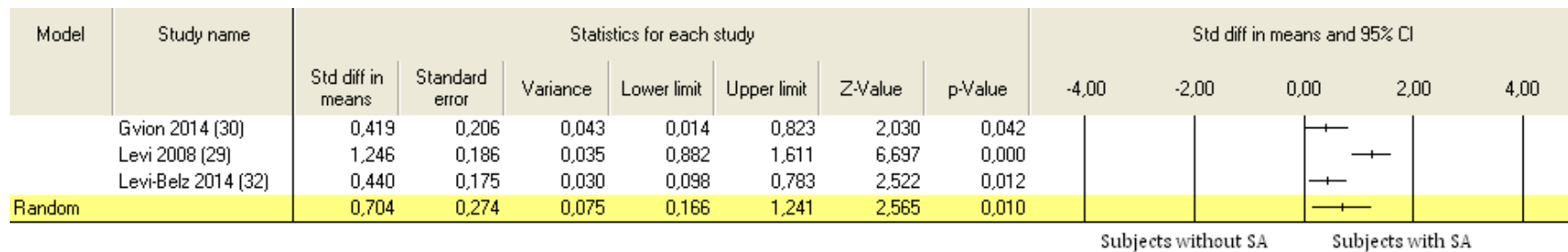
Supplementary eFigure 8. Sub-group analyses for studies #29, #30, #32: comparison of psychological pain in subjects with MSA and MNSA



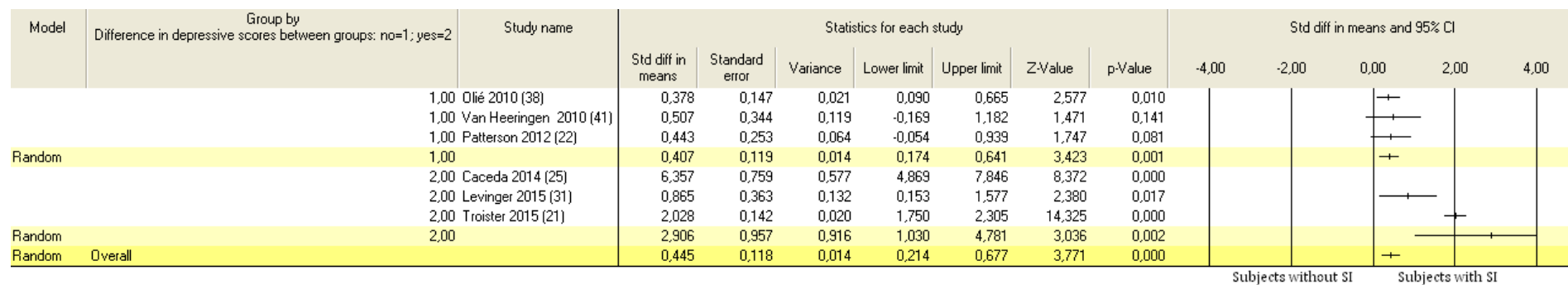
Supplementary eFigure 9. Sub-group analyses for studies #29, #30, #32: comparison of psychological pain in subjects with MSA and without suicide attempt



Supplementary eFigure 10. Sub-group analyses for studies #29, #30, #32: comparison of psychological pain in subjects with MNSA and without suicide attempt



Supplementary eFigure 11. Sub-group analyses: comparison of psychological pain in subjects with and without current suicide ideation, according to between-group difference on depressive scores



Supplementary eFigure 12. Sub-group analyses: comparison of psychological pain in subjects with and without current suicide ideation, according to the study sample (general population or psychiatric patients)

Model	Group by Study sample: general population=1; psychiatric patients=2	Study name	Statistics for each study							Std diff in means and 95% CI				
			Std diff in means	Standard error	Variance	Lower limit	Upper limit	Z-Value	p-Value	-4,00	-2,00	0,00	2,00	4,00
Random	1,00	Patterson 2012 (22)	0,443	0,253	0,064	-0,054	0,939	1,747	0,081					
	1,00	Troister 2015 (21)	2,028	0,142	0,020	1,750	2,305	14,325	0,000					
	1,00	Shelef 2015 (65)	1,423	0,179	0,032	1,072	1,774	7,953	0,000					
	1,00		1,320	0,422	0,178	0,493	2,147	3,130	0,002					
	2,00	Caceda 2014 (25)	6,357	0,759	0,577	4,869	7,846	8,372	0,000					
	2,00	Olié 2010 (38)	0,378	0,147	0,021	0,090	0,665	2,577	0,010					
	2,00	Van Heeringen 2010 (41)	0,507	0,344	0,119	-0,169	1,182	1,471	0,141					
	2,00	Pompili 2008 (12)	0,439	0,223	0,050	0,002	0,875	1,970	0,049					
	2,00	Levinger 2015 (31)	0,865	0,363	0,132	0,153	1,577	2,380	0,017					
	2,00	Conrad 2009 (35)	-0,507	0,189	0,036	-0,878	-0,136	-2,676	0,007					
Random	2,00		1,042	0,431	0,186	0,197	1,888	2,416	0,016					
Random	Overall		1,184	0,302	0,091	0,593	1,775	3,927	0,000					

Subjects without SI

Subjects with SI

Supplementary eFigure 13. Sub-group analyses: comparison of psychological pain in subjects with and without current suicide ideation, according to mean subjects' age

Model	Group by Age: <30 years =1; >30 years =2	Study name	Statistics for each study							Std diff in means and 95% CI				
			Std diff in means	Standard error	Variance	Lower limit	Upper limit	Z-Value	p-Value	-4,00	-2,00	0,00	2,00	4,00
Random	1,00	Levinger 2015 (31)	0,865	0,363	0,132	0,153	1,577	2,380	0,017					
	1,00	Troister 2015 (21)	2,028	0,142	0,020	1,750	2,305	14,325	0,000					
	1,00	Shelef 2015 (65)	1,423	0,179	0,032	1,072	1,774	7,953	0,000					
	1,00		1,507	0,305	0,093	0,910	2,104	4,947	0,000					
	2,00	Caceda 2014 (25)	6,357	0,759	0,577	4,869	7,846	8,372	0,000					
	2,00	Olié 2010 (38)	0,378	0,147	0,021	0,090	0,665	2,577	0,010					
Random	2,00	Patterson 2012 (22)	0,443	0,253	0,064	-0,054	0,939	1,747	0,081					
	2,00	Conrad 2009 (35)	-0,507	0,189	0,036	-0,878	-0,136	-2,676	0,007					
	2,00		1,323	0,619	0,383	0,110	2,535	2,138	0,032					
Random	Overall		1,471	0,273	0,075	0,935	2,007	5,383	0,000					

Subjects without SI

Subjects with SI