

Supplementary Table 1a

Table shows correlations extracted from studies that correlate the CSI total score with psychological constructs

Study	N	Subject Population	Age (SD)	Sex (Female)	Psychological Construct							Questionnaires		
					Dep	Anx	Cat	Stress	Sleep	Kin	Other	Measure	r	
Coronado et al (2018)	78	Shoulder Pain Patients	39.0 (14.5)	46%	0.64	0.66		0.67				Brief Resilience Scale	- 0.29	BRS, PANAS, DASS-21
												Positive Affect	- 0.11	
												Negative Affect	0.67	
Hendriks et al (2020)	125	Chronic Whiplash Patients	40.24 (11.26)	57%	0.56	0.54		0.66				4DSQsomatization	0.68	4DSQ
Kregel et al (2020)	116	Chronic Spinal Pain Patients	39.92 (12.52)	62%				0.46						PCS
van Wilgen et al (2018)	114	Chronic Pain Patients	46.73 (15.95)	56%				0.27						PCS
Wolmeister et al (2020)	150	Patients Undergoing Surgery	58.2 (12.1)	58%				0.51						B-MEPS
De Groef et al (2018)	146	Breast Cancer Survivors	56.8 (9.9)	100%				0.48						PCS
Gervais-Hupe (2018)	133	Knee Osteoarthritis Patients	63.5 (10.7)	56%				0.30				Somatization	0.76	HADS (a+d),
Miki et al (2020)	238	Pre-surgical Low Back Pain Patients	63.50 (16.0)	43%	0.49	0.50	0.54					Anxio-depressive Symptoms	0.58	PCS, PHQ-15
van der Noord et al (2018)	198	Chronic Pain Patients	46.8 (15.5)	58%	0.67	0.65	0.39							SCL-90, PCS
Andias et al (2020)	1,435	Adolescents with Pain	16.30 ± 1.17	64%	0.60	0.59	0.49	0.65	0.46	0.46				PCS, DASS-21, TSK, BaSIQs

Bilika et al (2020)	250	200 Chronic Pain Patients + 50 Healthy Controls	49.35 (14.70)	62% 50%	0.68		PCS		
Chiarotto et al (2018)	220	Chronic Pain Patients	54.5 (15.5)	79%	0.55	0.71	HADS (a+d), PCS		
Shigetoh et al (2019)	20	Musculoskeletal Pain Patients	67.5 (15.6)	60%	0.58	0.66	0.54	0.83	HADS (a+d), PCS, TSK
Clark et al (2018)	21	Chronic Low Back Pain Patients	43	76%	0.63		Sensory Sensitivity (SSv)	0.57	AASP
Clark et al (2019)	165	Chronic Low Back Pain Patients	45 (12)	76%	0.46		Sensation Seeking (SSk)	-	0.53
							Sensory Sensitivity	0.63	AASP, STAI (t)
							Sensation Avoiding	0.48	
							Low Registration	0.54	
							Sensation Seeking Profile	-	
							Profile	0.23	
Sharma et al (2020)	100	Musculoskeletal Pain Patients	42.01 (14.61)	67%	0.50			PCS	
Walankar et al (2020)	80	Chronic Shoulder Pain Patients	NA	48%	0.71	0.66		PCS, TSK	
Verbrugghe et al (2020)	101	Chronic Low Back Pain Patients	44.2 (9.6)	61%	0.36	0.26		PSS, TSK	
Neblett et al (2017)	763	Chronic Spinal Pain	46.8 (10.6)	35%	0.60	0.23	Abuse History PASS	0.11	BDI, ISI, PASS
Mansiz-Kaplan et al (2020)	64	Adolescents with Chest Pain	15.0 (1.8)	84%	0.64	0.75	Childhood Trauma	0.34	and abuse history
								0.57	HADS (a+d), CTQ

Knezevic et al (2020)	399	Chronic Pain Patients	52.76 (12.58)	67%	0.37	0.50	MOS, PCS	
Caumo et al (2017)	285	Chronic Pain + Healthy Controls	NA	87%	0.68		PCS	
Imai et al (2020)	201	Chronic and Non-Chronic Pain Patients	71.8 (8.8)	NA	0.50	0.33	GDS15, PCS	
Polli et al (2020)	26	Healthy Controls	52.0(10.90)	100%	0.14	0.52	PCS, BAI	
Polli et al (2020)	28	Pain Patients	48.0(9.44)	100%	0.78	0.26	PCS, BAI	
Nguy et al (2020)	52	Parkinson's Disease Patients	67.8(7.80)	31%	0.46	0.42	0.41	HADS (a+d), PSQI
Midenfjord et al (2021)	401	All Participants	31.0	73%	0.55	0.66		HADS (a+d)
		Healthy, Chronic Pain and Irritable Bowel Syndrome Patients						
Midenfjord et al (2021)	111	Healthy Volunteers	25.0	59%	0.32	0.43		HADS (a+d)
Midenfjord et al (2021)	36	Chronic Pain Patients	44.0	92%	0.56	0.75		HADS (a+d)
Serrano Ibanez et al (2021)	398	Chronic Pain Patients	53.03(8.76)	92%			DASS	0.44 DASS-21
Mikkonen et al (2021)	229	Musculoskeletal Pain Patients	NA	73%	0.62	0.46		TSK, DEPS

Shigetoh et al (2020)	43	Musculoskeletal and Central Pain Patients	72.2(12.9)	77%	-0.02	0.48	0.37		PCS, HADS (a+d)
Johnson et al (2020)	181	Chronic Pain Patients	44.62(14.06)	80%	0.60	0.61		Childhood Sexual Abuse Childhood Punishment Childhood Neglect Trauma History Questionnaire PCL (PTSD checklist)	0.32 0.44 0.50 0.28 0.65
McKernan et al (2019)	175	Chronic Pain Patients	44.89(14.23)	80%				HADS(a+d), CATS CTQ	

Anx = Anxiety, Cat = Pain Catastrophising, Dep = Depression, Kin = Kinesiophobia. n = number of participants, r = extracted correlation

Questionnaire Key: **4DSQ** = Four-Dimensional Symptom Questionnaire, **AASP** = Adolescent/Adult Sensory Profile, **BAI** = Beck Anxiety Inventory, **BaSIQs** = Basic scale of Insomnia Complaints and Quality of Sleep, **BD** = Becks Depression Inventory, **B-MEPS** = Brief Measure of Emotional Pre-operative Stress, **BRS** = Brief Resilience Scale, **CTQ** = Childhood Trauma Questionnaire, **DASS-21** = Depression Anxiety Stress Scale, **DEPS** = Depression Scale, **GDS15** = Geriatric Depression Scale, **HADS (a+d)** Hopsital Anxiety and Depression Scale, **ISI** = Insomnia Sleep Index, **MOS** = Medical Outcomes Study Sleep Scale, **PANAS** = Positive and Negative Affect Schedule, **PASS** = Pain Anxiety Sensitivity Scale, **PCS** = Pain Catastrophising Scale, **PSS** = Perceived Stress Scale, **PHQ-15** = Patient Health Questionnaire, **PSQI** = Pittsburgh Sleep Quality Index, **SCL-90** = Sympton Checklist 90, **STAI (t+s)** State and Trait Anxiety Inventory, **TSK** = Tampa Scale of Kinesophobia.

Supplementary Table 1b

Table shows correlations extracted from studies that correlate the CSI total score with nociceptive measures

Study	N	Subject Population	Age (SD)	Sex (Female)	Nociceptive Measure										
					PPT		HPT		CPM		TS		WP		
					r	avg r	r	avg r	R	avg r	r	avg r	r	Measure	r
Coronado et al (2018)	78	Shoulder Pain Patients	39.0 (14.5)	46% 75%	-0.13	-0.12	-0.08	0.03						Suprathreshold	-0.03
					-0.09		0.13							old	
					-0.13										
Shulman et al (2020)	30	Chronic Pain Patients	15.2 (1.9)	75%										Offset Analgesia	-0.05
Shulman et al (2020)	32	Healthy Participants	15.3 (2.1)	72%										Offset Analgesia	-0.24
Hendriks et al (2020)	125	Chronic Whiplash Patients	40.24 (11.26)	57%	-0.11	-0.17					0.03	0.01			
					-0.20						-0.01				
Kregel et al (2020)	116	Chronic Spinal Pain Patients	39.92 (12.52)	62%	-0.26	-0.26			0.02	0.02					
					-0.24										
					-0.28										
					-0.26										
van Wilgen et al (2018)	114	Chronic Pain Patients	46.73 (15.95)	56%									0.58		
Wolmeister et al (2020)	150	Patients Undergoing Surgery	58.2 (12.1)	58%	-0.29	-0.29			0.01	0.01				Pressure Pain Tolerance	-0.20

De Groef et al (2018)	146	Breast Cancer Survivors	56.8 (9.9)	100%	-0.30	-0.30						Index of Widespread Hyperalgesia	-0.14
Gervais-Hupe (2018)	133	Knee Osteoarthritis Patients	63.5 (10.7)	56%	-0.24 -0.26	-0.25	0.19	0.19	0.07 0.09	0.08	0.40		
Mibu et al (2019)	104	Chronic Low Back Pain Patients	58.4(14.2)	74%	-0.09	-0.09			0.09	0.09	0.25		
Mibu et al (2019)	50	Knee Osteoarthritis Patients	66.7 (7.7)	90%	-0.16	-0.16			-0.13	-0.13	0.27		
French et al (2019)	36	18 Greater Trochanteric Pain Syndrome Patients + 18 Healthy controls	54.5 (23)	83%	-0.55 -0.57 -0.52 -0.52 -0.54 -0.36 -0.27 -0.44	-0.47							
Lluch Girbes et al (2016)	53	Knee Osteoarthritis Patients	70.2 (7.4)	64%								Area of pain	0.46
Moore et al (2020)	134	Knee Osteoarthritis Patients	64.63 (7.80)	61%	-0.39 -0.40 -0.37	-0.39	0.28	0.28	0.18 0.21	0.19		Manual Tender Point Count	0.45
												Number of Painful Sites	0.43

Polli et al (2020)	26	Pain Patients	52.0(1 0.90)	100%	0.02	0.02	0.11	0.06		0.10	0.10	0.25	Cold Pain Neck	-0.15
							-0.66						Cold Pain Hand	
							0.73						Cold Pain Leg	-0.07
Polli et al (2020)	28	Healthy Participants	48.0(9. 44)	100%	-0.33	-0.33	-.36	-0.20		0.32	0.32	0.47	Cold Pain Neck	0.38
							-.39						Cold Pain Hand	0.37
							.15						Cold Pain Leg	0.35
Proen�a et al (2021)	31	Healthy Participants	33.0	71%	-0.05	-0.06			0.08	0.16				
							-0.10						0.24	
							-0.02						0.17	
Proen�a et al (2021)	115	Temporom andibular Disorder	37.0	83%	-0.10	-0.09			-0.04	-0.02				
							-0.08						-0.06	
							-0.09						0.03	
Johnson et al (2020)	181	Chronic Pain Patients	44.62(14.06)	80%										0.52
McKernan et al (2019)	175	Chronic Pain Patients	44.89(14.23)	80%										0.55

CPM = Conditioned Pain Modulation, HPT – Heat Pain Threshold, PPT = Pressure Pain Threshold, TS – Temporal Summation, WP = Widespread Pain. n = number of participants, r = extracted correlation, avg r = average of extracted r correlations (multiple body sites per study).

Supplementary Table 1c

Table shows correlations extracted from studies that correlate the PSQ total score with psychological constructs.

Study	N	Subject Population	Age (SD)	Sex (female)	Psychological Construct					Questionnaires
					Dep	Anx	Cat	Stress	Other	
					r	avg r	r	r	Measure	r
Coronado et al (2018)	78	Shoulder Pain Patients	39.0 (14.5)	46%	0.14	0.31		0.14	BRS Positive Affect Negative Affect	-0.39 -0.16 0.31
Kuperman et al (2020)	130	Mild Traumatic Brain Injury Patients	37.0 (12.0)	44%	0.23	0.16	0.48	0.23		PCS, HADS (a+d), PSS
Ruscheweyh et al (2009)	47	Healthy Participants	25 (4)	61%	0.24	0.17	0.45			PCS, BDI, STAI (t+s)
Ruscheweyh et al (2017)	65	Chronic Pain Patients	49.3 (12.3)	74%	0.25	0.27				BDI, STAI (t+s), PCS
Honigman et al (2013)	29	Healthy Participants	27.6 (3.4)	48%		0.51	0.46			PCS, STAI (t+s)
Quan et al (2018)	182	Healthy Participants	39.9 (14.6)	74%	0.00	0.10	0.27			PCS, STAI (t+s), BDI
Bar-Shalita et al (2015)	250	Healthy Participants	27.3 (3.77)	50%			0.24		SRQ	0.31
Azimi et al (2016)	101	Lumbar Disc Herniation Patients	52.4 (9.1)	54%			0.81			PCS
Hermesdorf et al (2016)	735	Depression Patients	49.72 (7.30)	59%	0.11	0.16				Ham (a+d)
Catchart et al (2012)	53	Chronic Tension	45.5 (13.4)	66%			0.34			DASS-21

			Headache Sufferers					
Gacs et al (2020)	226	Healthy Participants	30.5 (10.3)	64%		Past Negativity Past-Positivity Present-Fatalism Present Hedonism Future-Orientation	0.20 0.02 0.16 -0.15 -0.14	ZTRI
Kim et al (2014)	72	Degenerative Spinal Disease patients	65.87 (8.14)	63%	0.38			PCS
Bar-Shalita et al (2020)	204	Healthy Participants	27.4 (3.71)	49%		Aversive Hedonic Extraversion Neuroticism Agreeableness Conscientiousness Openness to Experience	0.29 0.04 0.05 0.29 -0.13 -0.07 -0.15	SRQ
Grundstrom et al (2019)	37	Persistent Pelvic Pain	26.4 (5.9)	100%	0.27	0.19		HADS (a+d)
Grundstrom et al (2019)	55	Healthy Participants	30.2 (5.6)	100%	0.34	0.18		HADS (a+d)
Rehberg et al (2017)	198	Breast Cancer Patients	57.5 (12.5)	NA	0.12	0.13		BDI, STAI (t+s)
Kuperman et al (2018)	100	Mild Traumatic Brain Injury Patients	36 (12.5)	42%	0.17	0.11	0.31	PCS, HADS (a+d)

Kuperman et al (2018)	80	Healthy Participants	43 (14.3)	53%	0.08	0.03	0.23		PCS, HADS (a+d)
Ye et al (2020)	64	Healthy Participants	NA	52%		0.14	0.19		PCS, STAI (t+s)
Schemer et al (2020)	112	Healthy Participants	23.36(4.0)	100%	-0.10		0.15		BDI, PCS
Meeker et al (2021)	64	Healthy Participants	NA	NA	-0.01	0.11	0.50		CES-D, PCS, STAI-T
Forstenpointner et al (2021)	555	Pain, Painless and Healthy Participants	NA	NA	0.11	0.16	0.30		PCS, HADS (a+d)
Forstenpointner et al (2021)	332	Pain Patients	59.0 (15.5)	51%	0.01	0.10	0.25		PCS, HADS (a+d)
Forstenpointner et al (2021)	112	Healthy Controls	43.3 (13.0)	62%	0.12	0.11	0.14		PCS, HADS (a+d)
Kopera et al (2021)	110	Non-Alcohol Use Disorder Patients	40.6 (8.1)	NA	0.09			DERS	-0.17 BDI, DERS
Kopera et al (2021)	144	Alcohol Use Disorder Patients	44 (11.2)	NA	0.14			DERS	0.21 BDI, DERS
Huang et al (2019)	136	Pain Patients	44	36%	0.13		0.25	PANAS	0.07 PANAS, BDI, PCS
Huang et al (2019)	157	Healthy Controls	44	36%	0.11			PANAS	0.15 PANAS, BDI
Koo et al (2015)	58	Pain Patients	41.3 (14.5)	64%			0.26	PASS	0.11 PCS, PASS
Jakubczyk et al (2021)	165	Alcohol Use Disorder Patients	44(11.2)	12%		0.19			BSI
Jakubczyk et al (2021)	110	Non-Alcohol Use Disorder Patients	40.6(8.1)	26%		0.16			BSI

Zaorska et al (2020)	165	Alcohol Use Disorder Patients	25.7(9.6)	12%	0.19	CTQ	0.139	BSI, CTQ
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Anx = Anxiety, Cat = Pain Catastrophising, Dep = Depression, Kin = Kinesiophobia. n = number of participants, r = extracted correlation, avg r = average of STAI (trait and state)

Questionnaire Key: **BD** = Becks Depression Inventory **BRS** = Brief Resilience Scale, **BSI** = Brief Symptom Inventory, **CES-D** = Centre for Epidemiologic Studies Depression Scale, **CTQ** = Childhood Trauma Questionnaire, **DASS-21** = Depression Anxiety Stress Scale, **DERS** = Difficulties in Emotion Regulation Scale, **HADS (a+d)** = Hospital Anxiety and Depression Scale, **PANAS** = Positive and Negative Affect Schedule, **PCS** = Pain Catastrophising Scale, **PSS** = Perceived Stress Scale, **SRQ** = Sensory Responsiveness Questionnaire, **STAI (t+s)** State and Trait Anxiety Inventory

Supplementary Table 1d

Table shows correlations extracted from studies that correlate the PSQ total score with nociceptive measures.

Study	n	Subject Population	Age (SD)	Sex (Fem)	Nociceptive Measure									
					PPT		HPT		CPM		TS		Other	
					r	avg r	r	avg r	R	avg r	r	avg r	Measure	r
Coronado et al (2018)	78	Shoulder Pain Patients	39.0 (14.5)	46%	-0.14	-0.22	-0.17	0.00					Suprathreshold	0.15
					-0.27		0.17							
					-0.25									
Kuperman et al (2020)	130	Mild Traumatic Brain Injury Patients	37.0 (12.0)	44%	-0.25	-0.25	-0.30	-0.30	-0.13	0.09	0.15	0.16	Mean Area of Injured Pain Number of Painful Body Areas	0.26
									0.31		0.16			0.28
Ruscheweyh et al (2009)	47	Healthy Participants	25.0 (4.0)	61%									Experimental Pain Threshold	.03

Ruscheweyh et al (2015)	65	Chronic Pain Patients	49.3 (12.3)		74%	-0.29	-0.29	-0.45	-0.46							Score			
Quan et al (2018)	182	Healthy Participants	39.9 (14.6)		74%											Experimental Pain Intensity Rating Score	0.56		
Hermesdorf et al (2016)	735	Depression Patients	49.7 (7.3)		59%	-0.21	-0.21									PinPrick	0.39		
Grundstrom et al (2019)	37	Persistent Pelvic Pain	26.4 (5.9)		100%	-0.43	-0.43	-0.63	-0.63							Phasic Heat47	0.51		
Grundstrom et al (2019)	55	Healthy Participants	30.2 (5.6)		100%	-0.15	-0.15	-0.09	-0.09							Phasic Heat48	0.54		
Van Boekel et al (2020)	262	Healthy Participants			57%	-0.05	-0.05									Tonic Heat	0.43		
																Tonic Cold	0.47		
																Cold Pressor	0.42		
																Tonic Cold	0.68		
																Pinprick (512 mN)	0.38		
																Phasic Heat	0.63		
																47°C	0.67		
																Phasic Heat	48°C		
																Electrical Pain Threshold	0.30		
																Pain Tolerance	0.23		
																Fixed Pain Stimulation	0.50		

Ruscheweyh et al (2012)	46	Mixed Chronic Pain Patients	50 (13)	74%	-0.29	-0.30	-0.51	-0.51				Electrical Pain Tolerance NRS (n=132)	0.24
Valeberg et al (2017)	48	Healthy Participants		44%		-0.15						Phasic Heat (47°C)	0.72
Rehberg et al (2017)	198	Breast Cancer Patients	57.5 (12.5)				-0.18	-0.18				Phasic Heat (48°C)	0.76
Ruscheweyh et al (2018)	501	Population-Based Participants	52.9 (8.2)	52%	-0.17	-0.17						Pinprick (512 mN)	0.40
Kohl et al (2014)	60	Fibromyalgia Patients	51.4 (9.4)	100%								Tonic Cold	0.76
Kuperman et al (2018)	100	Mild Traumatic Brain Injury Patients	36 (12.5)	42%			-0.21	0.06	0.12	0.12		Cold Pressor Pain Intensity rating	-0.36
Kuperman et al (2018)	80	Healthy Participants	43 (14.3)	53%			0.03	-0.04	0.30	0.30		Cold Pressor Pain Tolerance	-0.30
Meeker et al (2021)	64	Healthy Participants			-0.29	-0.29						Heat Pain Threshold	-0.52
												Pain Intensity	0.33
												Heat (hot water bath)	

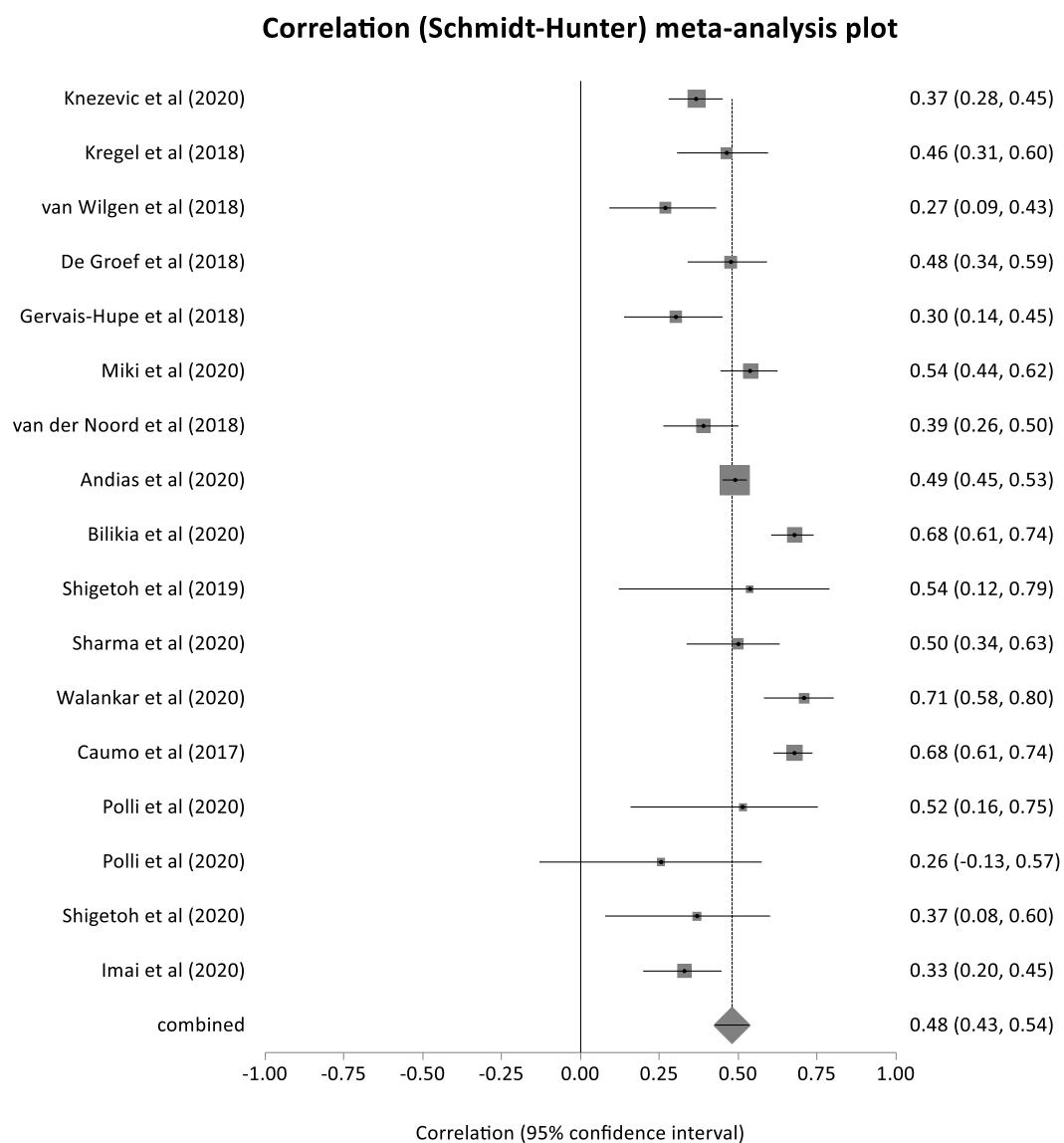
Forstenpointne r et al (2021)	555	Pain, Painless and Healthy Participants			-0.09	-0.09	0.04	0.04		0.03	0.03	Cold Detection Threshold	-0.10
												Warm Detection Threshold	0.12
												Temperature Sensory Limen	0.11
												Cold Pain Threshold	0.01
												Mechanical Pain Threshold	0.04
												Mechanical Pain Sensitivity	0.07
												Mechanical Detection Threshold	0.10
												Vibration Detection Threshold	-0.08
Forstenpointne r et al (2021)	332	Pain Patients	59.0 (15.5)	51%	-0.07	-0.07	-0.01	-0.01		0.03	0.03	Cold Detection Threshold	-0.04
												Warm Detection Threshold	0.06
												Temperature Sensory Limen	0.05
												Cold Pain Threshold	0.07
												Mechanical Pain threshold	-0.05
												Mechanical Pain Sensitivity	0.04
												Mechanical Detection Threshold	0.02

Forstenpointne r et al (2021)	112	Healthy Controls	43.3 (13.0)	62%	-0.07	-0.07	0.07	0.07		-0.04	-0.04	Vibration Detection Threshold	0.01
												Cold Detection Threshold	-0.09
												Warm Detection Threshold	-0.08
												Temperature	0.06
												Sensory Limen	
												Cold Pain Threshold	-0.04
												Mechanical Pain Threshold	-0.01
												Mechanical Pain Sensitivity	0.18
												Mechanical Detection Threshold	0.06
												Vibration Detection Threshold	0.08

CPM = Conditioned Pain Modulation, HPT – Heat Pain Threshold, PPT = Pressure Pain Threshold, TS – Temporal Summation. n = number of participants, r = extracted correlation, avg r = average of extracted r correlations (multiple body sites per study).

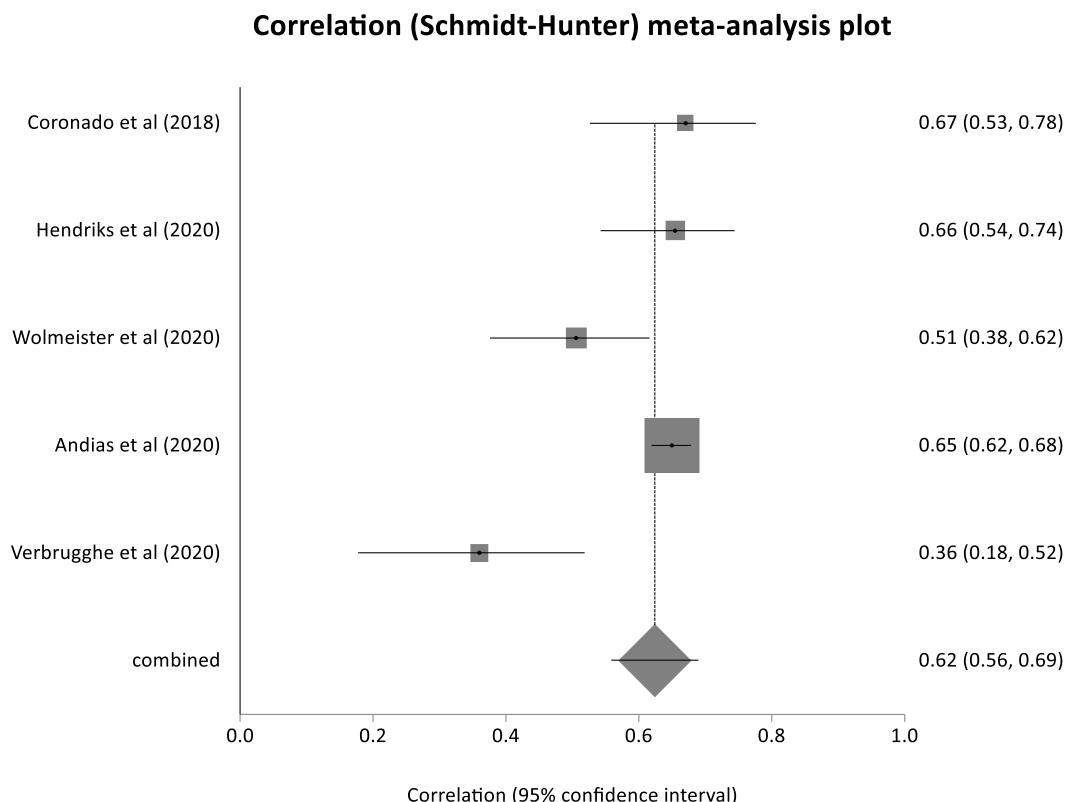
Supplementary Figure 1a

Forrest Plot to Show Meta-analytic Correlation Between Pain Catastrophising Scores and CSI Total Scores



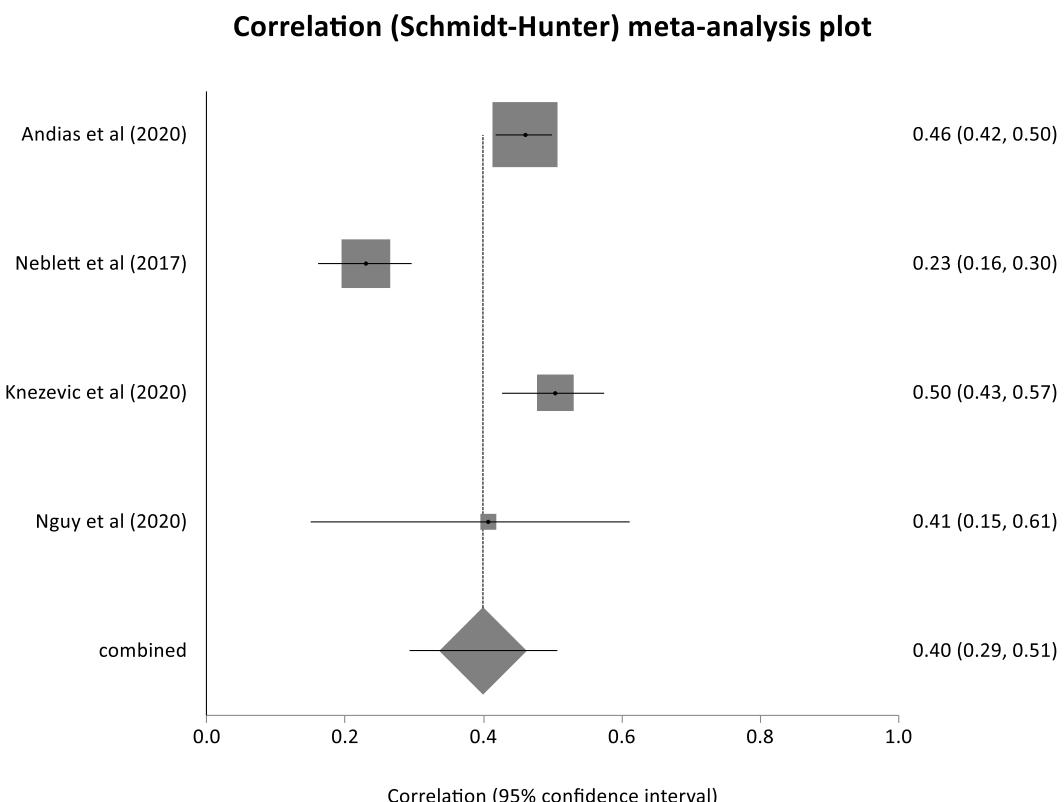
Supplementary Figure 1b

Forrest Plot to Show Meta-analytic Correlation Between Stress Scores and CSI Total Scores



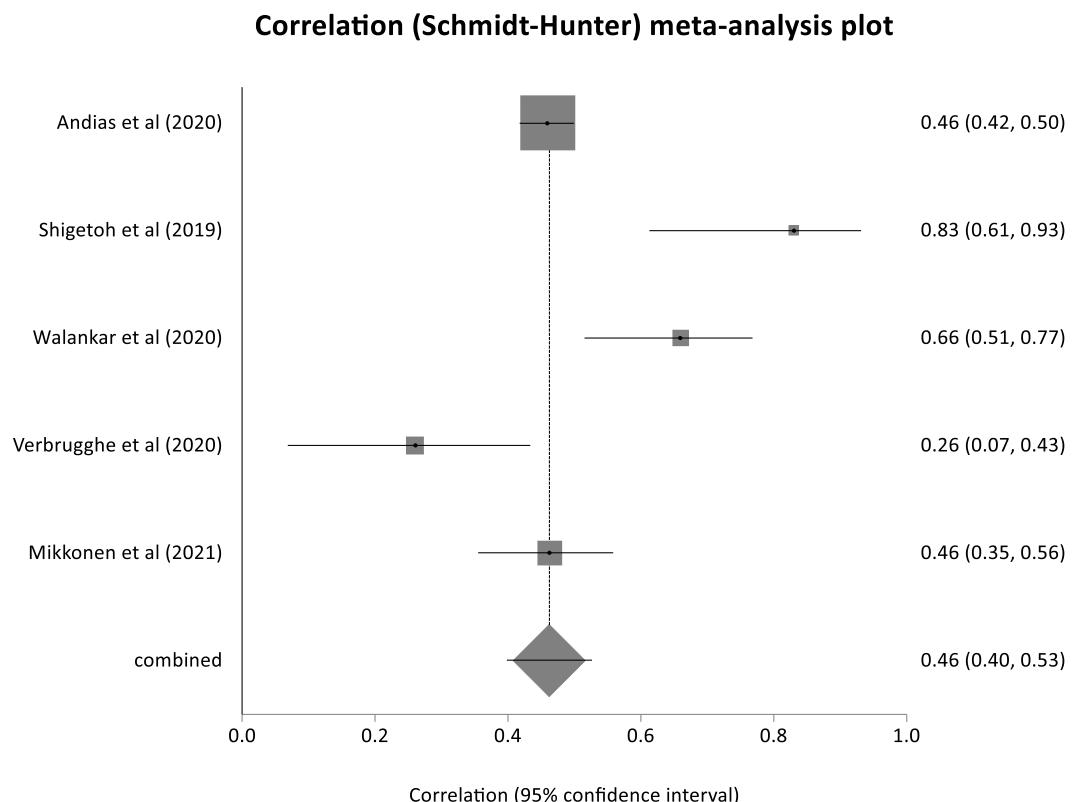
Supplementary Figure 1c

Forrest Plot to Show Meta-analytic Correlation Between Sleep Scores and CSI Total Scores



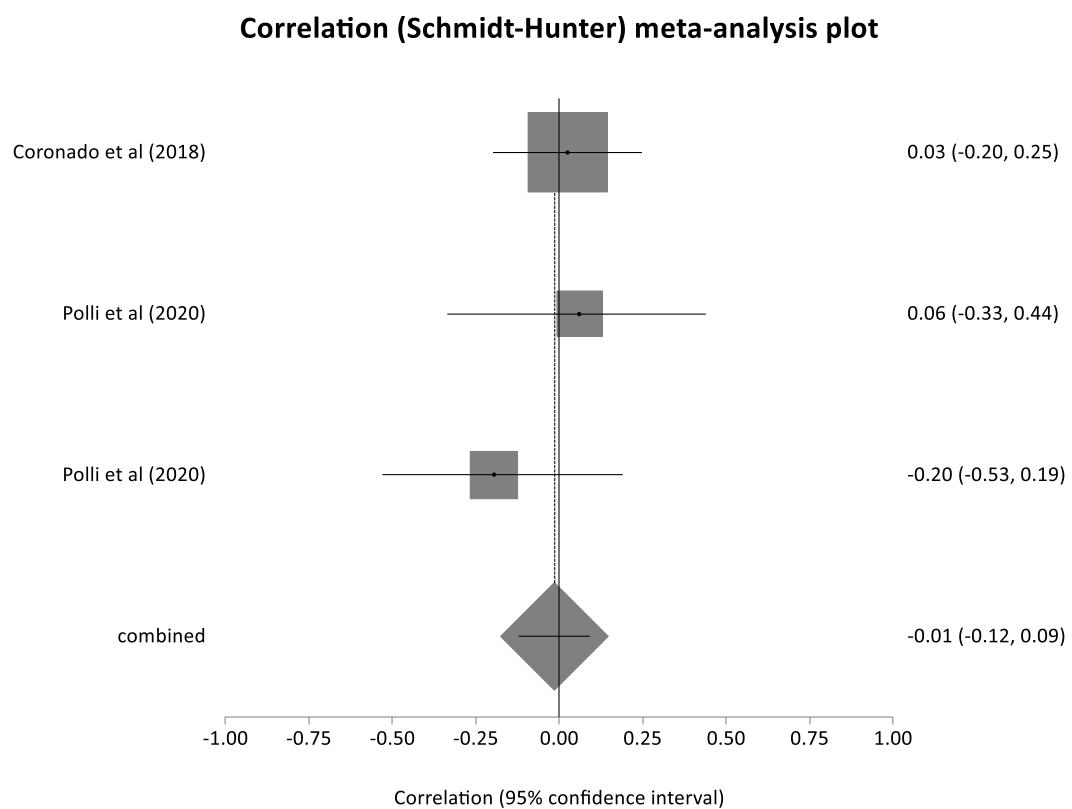
Supplementary Figure 1d

Forrest Plot to Show Meta-analytic Correlation Between Kinesophobia Scores and CSI Total Scores



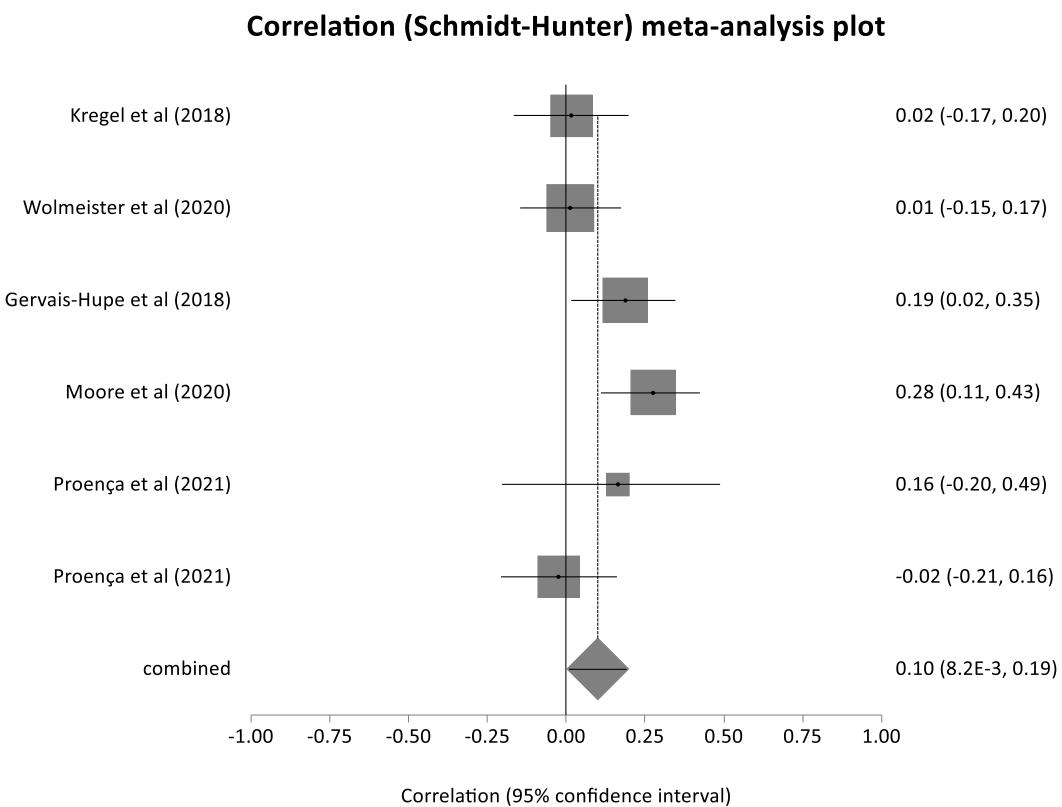
Supplementary Figure 1e

Forrest Plot to Show Meta-analytic Correlation Between Heat Pain Threshold Scores and CSI Total Scores



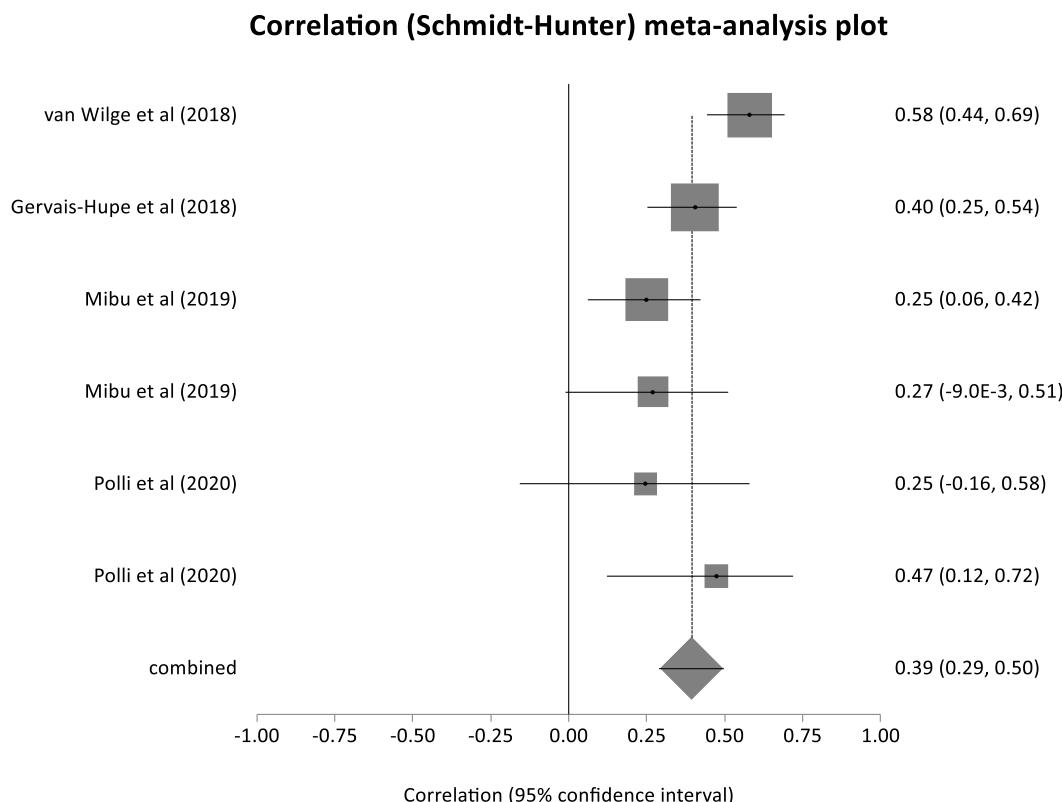
Supplementary Figure 1f

Forrest Plot to Show Meta-analytic Correlation Between Conditioned Pain Modulation Scores and CSI Total Scores



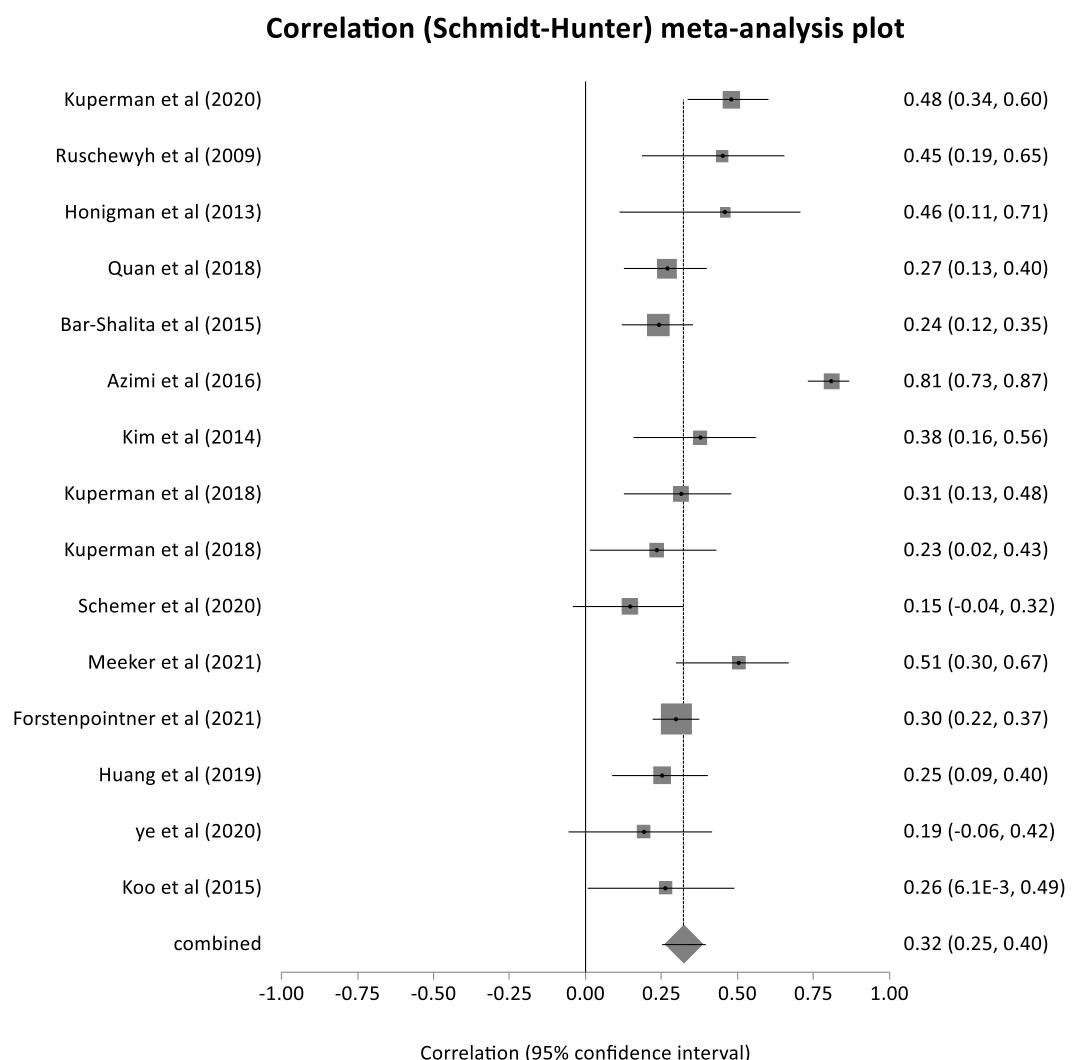
Supplementary Figure 1g

Forrest Plot to Show Meta-analytic Correlation Between Widespread Pain Scores and CSI Total Scores



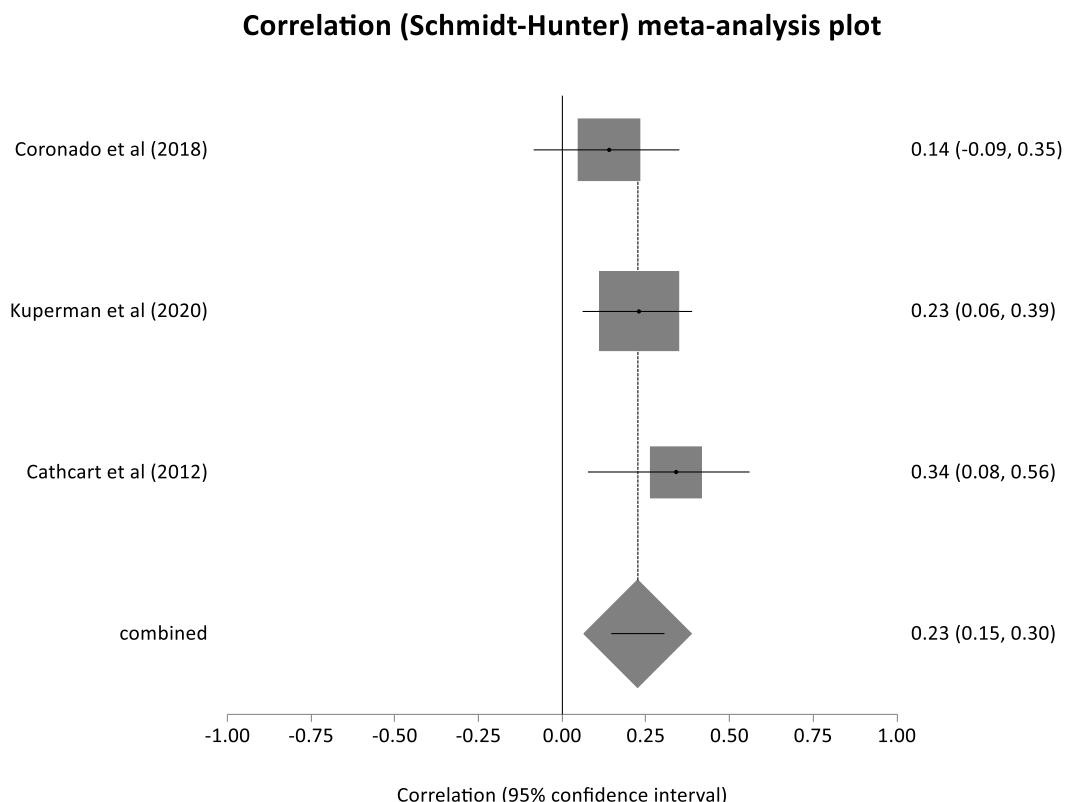
Supplementary Figure 1h

Forrest Plot to Show Meta-analytic Correlation Between Pain Catastrophising Scores and PSQ Total Scores



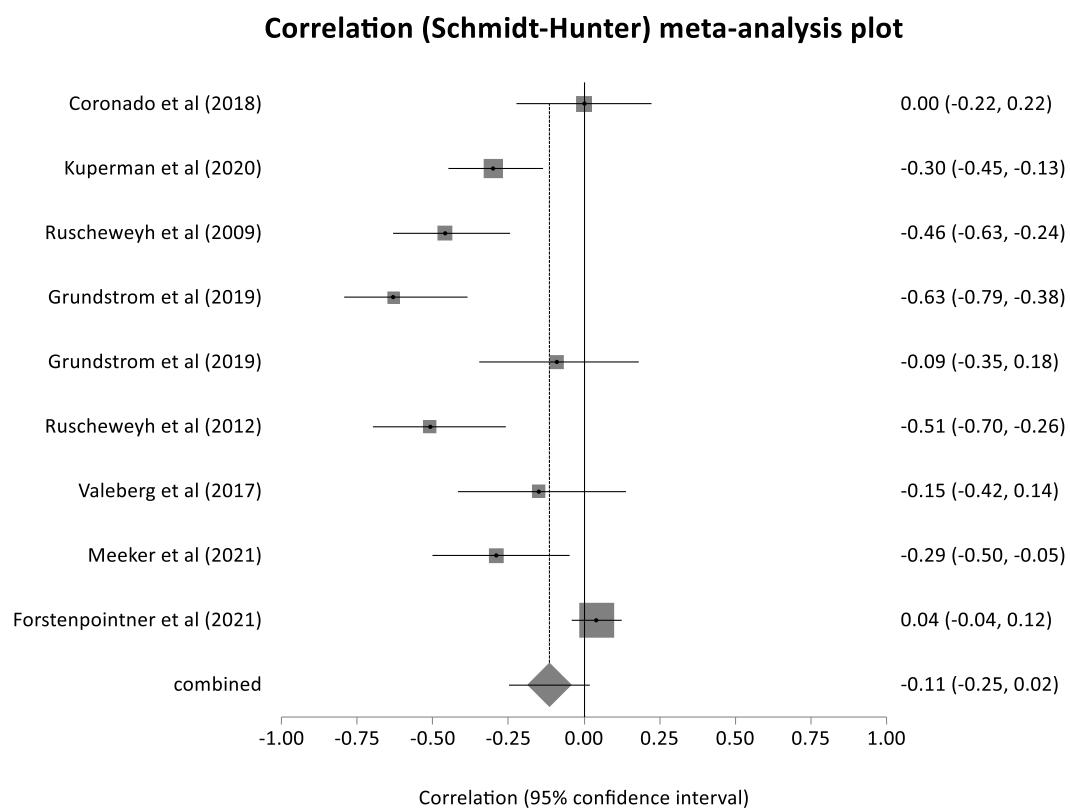
Supplementary Figure 1i

Forrest Plot to Show Meta-analytic Correlation Between Stress Scores and PSQ Total Scores



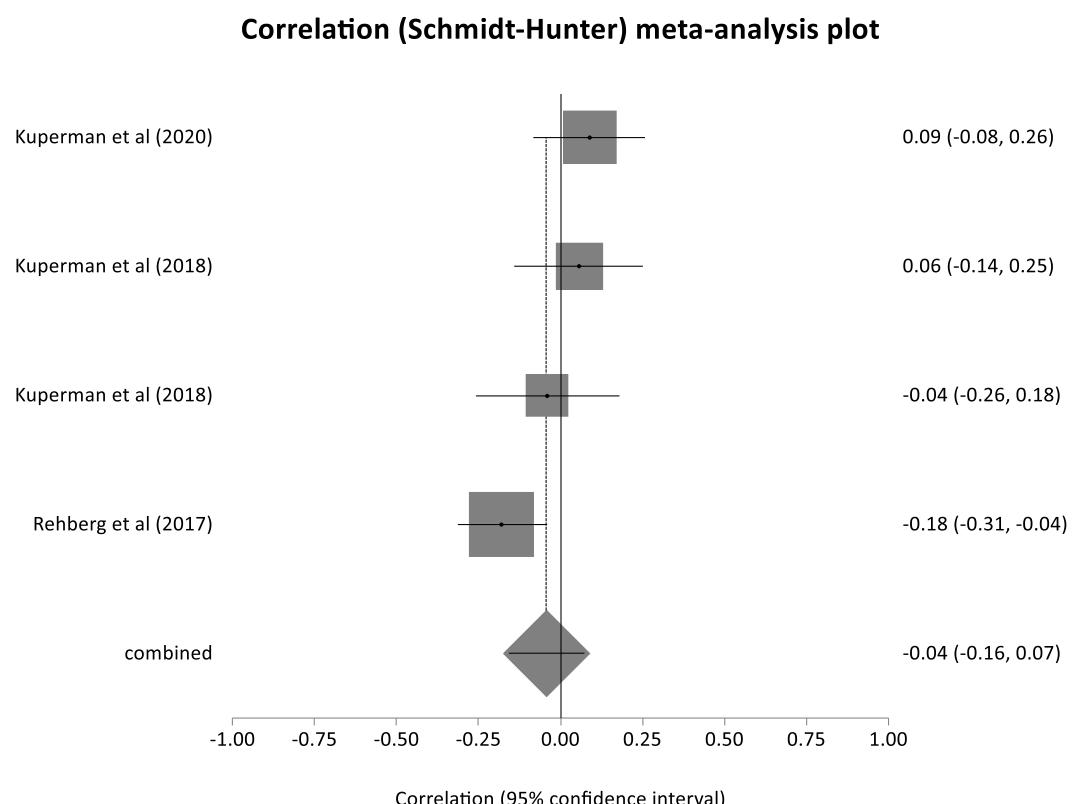
Supplementary Figure 1j

Forrest Plot to Show Meta-analytic Correlation Between Heat Pain Threshold Scores and PSQ Total Scores



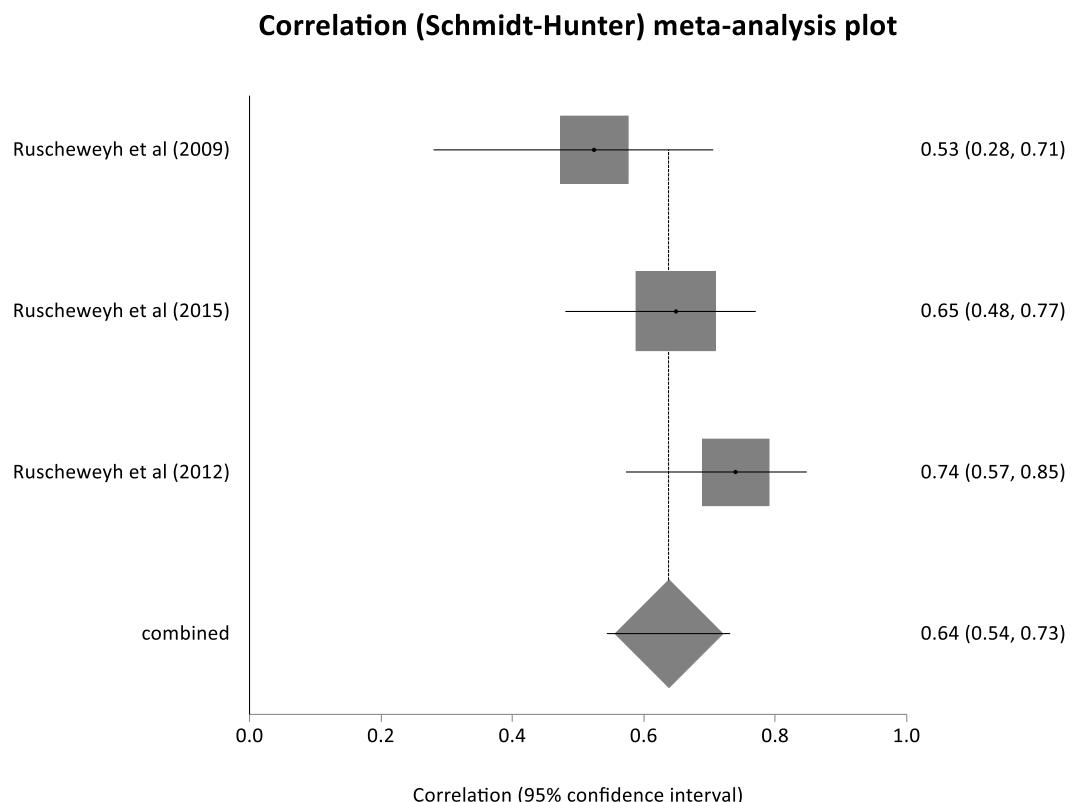
Supplementary Figure 1k

Forrest Plot to Show Meta-analytic Correlation Between Conditioned Pain Modulation Scores and PSQ Total Scores



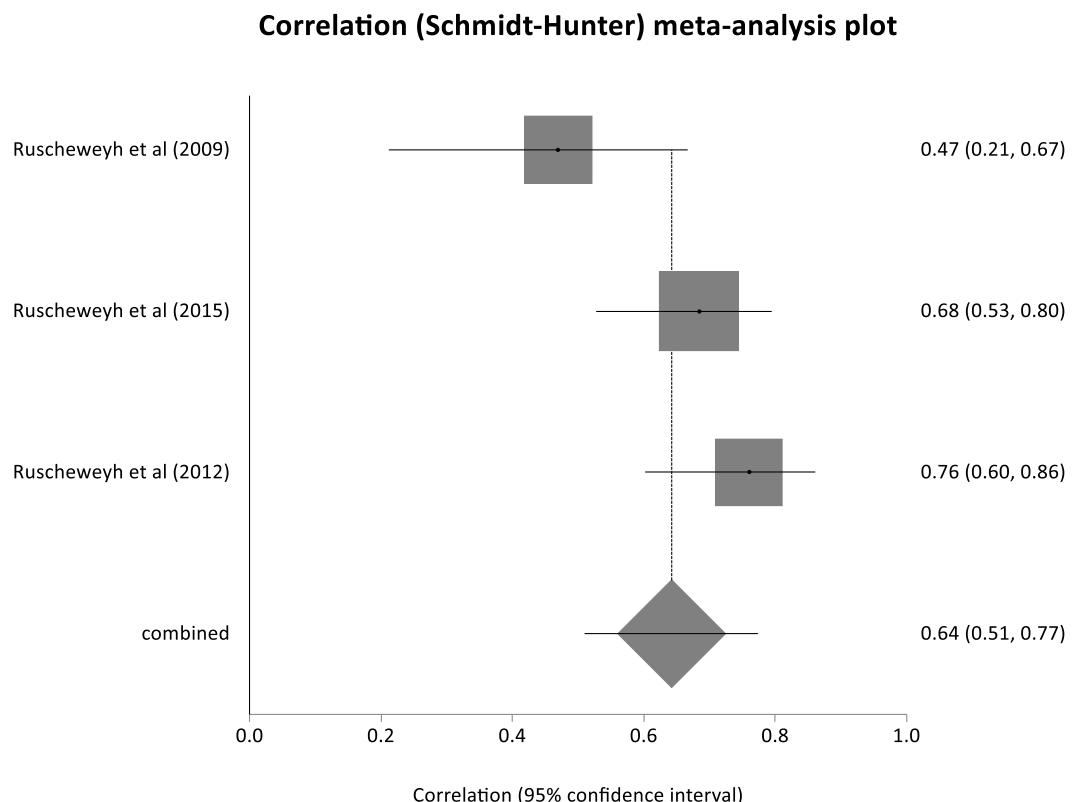
Supplementary Figure 1

Forrest Plot to Show Meta-analytic Correlation Between Phasic Heat Scores and PSQ Total Scores



Supplementary Figure 1m

Forrest Plot to Show Meta-analytic Correlation Between Tonic Cold Scores and PSQ Total Scores



Supplementary Figure 1n

Forrest Plot to Show Meta-analytic Correlation Between Pin Prick Stimulation Scores and PSQ Total Scores

