

Supplemental Table 1: Summary of Pain and J Pain EMA articles from the last 5 years

REFERENCE	ANALYTIC METHOD	N	PAIN CONDITION	DATA INPUT	DURATION (DAYS)	PROMPTS PER DAY	COVERAGE PER PROMPT	COMPLETION (%)	MOMENTARY PAIN MEASURE (CONTENT; # ITEMS; RESPONSE SCALE)
BURNS ET AL 2015 ^A (35)	Within-couples, concurrent and lagged	105 (patients) + 105 (spouse)	Chronic low back pain	Personal digital assistant	14	5	“Past 3 hours”	87.1 (patients), 89.1 (spouse)	<i>Patients:</i> Pain Intensity; 1-item; 9-point NRS Pain Interference; 2-item; 9-point NRS Pain catastrophizing, 3-item; 9-point NRS <i>Spouse:</i> Pain Intensity; 1-item; 9-point NRS Pain Behavior; 1-item; 9-point NRS
OKUN ET AL 2016 (40)	Within-person, concurrent and between-person	131	Chronic pain	Interactive voice response	21	3	“Right now”	83	Pain intensity; 1-item; 10-point NRS
KRATZ ET AL 2017 (63)	Within-person, concurrent	128	Chronic pain due to spinal cord injury	Smart watch	7	5	“Right now”	82.2 (Pain intensity), 81.6 (Pain interference)	Pain intensity; 1-item; 11-point NRS Pain interference; 1-item; 11-point NRS
GERHART ET AL 2018 ^A (38)	Within-person, concurrent and between-person	105 (patients) + 105 (spouse)	Chronic low back pain	Personal digital assistant	14	5	“Past 3 hours”	87.1 (patients), 89.1 (spouse)	<i>Patients:</i> Pain Intensity; 1-item; 9-point NRS Pain Interference; 2-item; 9-point NRS NRS <i>Spouse:</i> Pain Intensity; 1-item; 9-point NRS Pain Behavior; 1-item; 9-point NRS
SCHNEIDER ET AL 2018 (26)	Within-person dynamic (regime-switching)	116	Rheumatoid arthritis / Osteoarthritis / Fibromyalgia	Personal digital assistant	14	8	“Before prompt”	85/87	Pain Intensity; 2-item; 101-point VAS
BURNS ET AL 2018 ^A (46)	Between-person/ Within-couples, concurrent and lagged	105 (patients) + 105 (spouse)	Chronic low back pain	Personal digital assistant	14	5	“Past 3 hours”	87.1 (patients), 89.1 (spouse)	<i>Spouse:</i> Pain Intensity; 1-item; 9-point NRS Pain Behavior; 1-item; 9-point NRS Attributions for patients pain, 4-item; 9-point NRS
CROCKETT & TURAN 2018 (36)	Within-person, lagged and between-person	109	HIV	Smart phone Application	7	3	“Right now”	74	Pain intensity; 1-item; 11-point NRS
EATHER ET AL 2019 (37)	Within-person, concurrent and lagged	99	Acute whiplash-associated disorders	Personal digital assistant	10	1	“Present moment”	75.2	Pain Intensity; 1-item; 0 to 1 VAS Fear of pain; 6-item; 0 to 1 VAS
MUN ET AL 2019 (24)	Within-person, lagged	220	Fibromyalgia	Smart phone - keypad (phone call for audio-recorded questi	21	4	“Past 2 to 3 hours”	82	Pain Intensity; 1-item; 101-point NRS Pain catastrophizing; 1-item; 5-point NRS

TIGHE ET AL 2016 (64)	Within-person dynamic (Markov-Chain model)	8,346	Postoperative pain	on) Staff-reported	7	6	Not reported	Not reported	Pain intensity; 1-item; 11-point NRS
WHIBLEY ET AL 2019 (43)	Within-person, lagged	60	Osteoarthritis, ≥ 65 years	Smart watch	5	5	"Right now"	95-96	Pain Intensity; 1-item; 11-point NRS

^aStudies Used Same Database;

Note: NRS=Numeric Rating Scale; VAS=Visual Analogue Scale