

Table 2. Ecological momentary assessment (EMA) study with time-based design.

#	Author Year	Prompting schedule	Length of study (days)	# of prompt per day	Reported compliance mean (SD ^a ; range)	Compliance definition
2 7	Helgeson 2009	Every 2 h during wake time on weekend days	2	6-8	7 (NR ^b ; 2-9) entries per day	# of prompts answered ^c
4 2	Mason 2015	Random time: After 4:00 pm to evening	4	3	NR	N/A ^d
7	Dunton 2011	Random time: 3 on weekday 7 on weekend	4	3-7	80.0% (NR; 7- 100%)	% of prompts answered
1	Dunton 2007	Every 30 min (SD 10) during waking hours	4	25+ ^e	83.0% (9.4; NR)	% of prompts answered
2 4	Lewandowski 2009	Sampling Prompts at(1) 9:00- 10:00, (2) 11:00-12:00, (3) 14:00-15:00, (4) 17:00-18:00, and (5) 20:00-21:00	5	5	93.3% (NR; NR)	% of prompts answered overall ^f
2 0	Roekel 2014	Random in each 90- min interval	6	9	37 (11.1; NR) entries	# of prompts answered individually ^g
3 9	Rhee 2015	One random prompt each at: (1) 6:00-12:00	7	2	NR	N/A

		(2) 18:00-0:00				
3 8	Chin 2016	Once random prompt each at: (1) morning (2) afternoon	7	2	96.2% (NR; NR)	% of prompts responded individually
9	Kim 2013	One random prompt each at: (1) 12:50 (2) 16:30 (3) 20:00	7	3	95.5% (6.0; NR)	% of prompts answered individually within 30 min from the first signal
4	Reid 2009	One random prompt each at: (1) 8:00-11:00 (2) 11:00-15:00 (3) 15:00-20:00 (4) 20:00-22:00	7	4	76.0% (NR; NR- 28)	% of prompts answered
1 8	Johnson 2014	Fixed time: (1) 7:30 (2) 11:20am or 11:40am (3) 4:15 (4) 7:30	7	4	80.2% (14.2; 40.9-100%)	% of prompts answered individually
6	Suveg 2010	Random time: 4 times between 4pm and 8pm	7	4	60.0% (NR; NR)	% of prompts answered
2 2	Dunton 2015	Random time: 3 on weekday	7	3-7	69.0% (NR; 25- 100%)	% of prompts answered individually

		7 on weekend				
3 7	Dunton 2015	Once every 2 h (1) 15:00-21:00 (weekday) (2) 7:00-21:00 (weekend)	7	3-7	54.6% (NR; NR)	% of prompts answered
1 1	Rusby 2013	Every 90-120 min between: Monday to Thursday: 15:30-21:30 Friday: 15:30-23:00 Saturday: 11:30- 23:00 Sunday: 11:30- 21:30	7	4-6	75.0% (NR; NR)	% of prompts answered individually by waves
2 1	Sokolovsky 2014	Random time	7	5-7	68.1% (16.9%; NR)	% of prompts answered individually
2	Weinstein 2006	Random time	7	5-7	85.0% (14.0%; NR)	% of prompts answered individually
2 3	Whalen 2006	Each 30 min (SD 5) during nonschool hours	7	25+ ^e	NR (NR; 71- 100%) ADHD ^h : 89.0% (NR; NR) Control: 90.0% (NR; NR)	% of prompts answered individually
1 3	Grenard 2013	Once each (1) 9:00-12:00 (weekend) (2) 12:00-15:00 (weekend) (3) 15:00-18:00	9	3-5	71.0% (NR; NR)	% of prompts answered

		(4) 18:00-21:00				
3 1	Stinson 2013	Once each: (1) morning (2) afternoon (3) evening	14	2	81.0% (22%; NR)	% of prompts answered individually
8	Scharf 2013	2 random prompt between 10:00 and 22:00	14	2	82.0% (NR; NR)	% of prompts answered individually within 2 min
5	Nock 2009	Once each at (1) mid-day (2) end-of-day	14	2	83.3%	% of participants completed at least 28 entries
1 4	Rahdar 2014	NR	14	3	NR	N/A
2 5	Connelly 2009	Once each at: (1) before school (2) after school (3) evening	14	3	84.0% (NR; NR)	% of prompts answered individually
3 4	Stinson 2008 ^e	Once each at: (1) morning (2) afternoon (3) evening	14	3	78.0% (NR; NR)	% of prompts answered
1 7	Ranzenhofer 2014	Once each during: (1) 11:10 (weekend) (2) 13:50 (weekend) (3) 16:30 (4) 19:10	14	3-5	69.4% (NR; 38- 90%)	% of prompts answered individually

		(5) 23:50				
1 5	Garcia 2014	Weekdays: (1) 06:30 (2) 14:30 (3) 18:00 (4) 21:00 Weekends: (1) 10:30 (2) 15:00 (3) 18:00 (4) 21:30	14	4	79.6% (NR; 70.5-88.7)	% of prompts answered individually
3 3	Khor 2014	Once each during: (1) 07:30-08:30 (2) 17:00-18:20 (3) 18:20-19:40 (4) 19:40-21:00	14	4	61.8% (30.0; NR)	% of prompts answered
3 2	Borus 2013	Personalized time: 4 times, according to participants' blood glucose check time	14	4	63.0% (NR; 0- 97%)	% of prompt answered (median)
1 2	Bickham 2013	Random intervals	14	4-7	66.0% (NR; NR)	% of prompts answered
1 0	Crooke 2013	Once during: (1) 08:00-11:00 (2) 11:00-15:00 (3) 15:00-20:00	20	4	NR	N/A

		(4) 20:00-22:00				
3 5	Stinson 2008 ⁱ	Once each at: (1) morning (2) afternoon (3) evening	21	3	73.0% (NR; NR)	% of prompts answered
3	Gwaltney 2007	Once every 3.5-h interval between 8:00 and 22:00	21	4	75.0% (NR; 53-94%)	% of prompts answered
1 9	Hoepfner 2014	Once every 3.5-h interval between 8:00 and 22:00	21	4	88.4% (6.6%; NR)	% of prompts answered individually
2 6	Bjorling 2009	7 random time prompts during wake time	21	7	72.0% (NR; 30-90%)	% of prompts answered individually
2 8	Rosen 2012	Once each at: (1) before school (2) after school (3) evening	28	3	77.0% (NR; 1.5; 46-NR)	% of prompts answered individually
2 9	Connelly 2012	Once each at: (1) after school (2) dinner time (3) before bed	28	3	2.1 (0.46; NR)	# of prompts answered individually per day ⁱ
3 0	Rosen 2013	Once each at: (1) before school (2) after school (3) evening	28	3	84.4% (NR; NR)	% of prompts answered individually
4 1	Bromberg 2015	Once each at:	28	3	56.2% (18.4; 25-91)	# of diaries completed ^k

		(1) morning (2) afternoon (3) evening				
^a SD: standard deviation. ^b NR: not reported.						
^c Converted to 77% (NR; 11-100.0%) for meta-analysis. ^d N/A not applicable. ^e Other frequency: Participants were prompted every 30 min during their waking hours, yielding an average 25-30 of recording opportunities per day. ^f Only among concussed participants.	Russell 2015	Once each during: (1) 07:00-10:00 (2) 14:00-17:00 (3) 17:00-24:00	42	3	92.0% (NR; NR)	% of prompts answered
^g Converted to 68.52% (NR; NR) for meta-analysis, based on a maximum of 54 prompts per day. ^h 2014 ⁱ ADHD: attention deficient/hyperactivity disorder.	Dennis 2014	Once every block of time that ranged from 90 to 360 min	42	6	89.0% (NR; NR)	% of prompts answered

ⁱTwo separate studies were reported in the Stinson 2008 paper.

^jConverted to 68.67% (NR; NR; 41-100%) for meta-analysis, based on a maximum of 3 prompts per day.