

Table 3. Ecological momentary assessment (EMA) study with event-based design.

#	Author Year	Condition to reporting	Event-based compliance	Definition of event-based compliance
1 6	Miranda 2014	Immediately before and after the first 3 drinking events	26 participants reported at least one drinking episode (2.1 [SD 1.0]) 94% of the reports were recorded after consumed between 0.67 and 1.33 standard drinks	Classification of compliance: if the successive difference in eBAC ^a across end-drink report is ascending
9	Kim 2013	Report when: 1. waking or sleeping 2. episode of feeling bad or physical symptoms	1.18 (0.88; NR ^b ; NR)	# of event-based EMA ^c recording per day
1 3	Grenard 2013	eating event: participants were asked to record food or drink consumed within 15 min after consumption	2124 eating occasion were reported as "event-based reporting," an average of 0.94 per participant day) 95% evening report completed	N/A ^d
5	Nock 2009	Self-injury thoughts and behavior (multiple choices) for both time-based and event-based	1227 entries (mean 40.9 per person [SD ^e 21.2; range 5-108) that described 1262 episodes of self-destructive thoughts and behaviors	# of entries of event of interest
8	Scharf 2013	Anytime when they are exposed to alcohol- or smoking-related media	8.5 (5.82; NR; NR) (alcohol-related media) 4.25 (3.67; NR; NR) (smoking-related media)	Occasion of alcohol- or smoking-related media exposure
3	Gwaltney 2007	Event-based (prequit) every time participant smoked a cig	12/12 participants entered at least one smoking event after	N/A

		Event-based (postquit) every time participant smoked a cig	<p>"I've Quit," or lapsed</p> <p>13.0 (SD 12.4) (2-41) lapses were recorded</p> <p>12/12 participants recorded at least one temptation during the post quit monitoring</p> <p>5.2 (SD 2.7) (1-10) temptations were recorded</p>	
19	Hoepfner 2014	<p>Event-based (prequit) every time participant smoked a cig</p> <p>Event-based (postquit) every time participant smoked a cig</p>	N/A	N/A
15	Garcia 2014	Participants were instructed to initiate open-ended report as positive or negative event happened, in addition to being prompted 4 times a day as described above.	71.21 (NR; 61.97-80.45; NR)	% of prompts responded
37	Dunton 2015	automated prompts approx 5 min after usage of Bluetooth-enabled Propeller sensor	47.90%	% of event-based signal responded

^aeBAC: estimated blood alcohol calculator.

^bNR: not reported.

^cEMA: ecological momentary assessment.

^dN/A: not applicable.

^eSD: standard deviation.