

Supplemental Table 1. Item text, scales of measurement, and scoring for each measure.

MEASURE	SCALE (SCORING)
Days per month	Scored continuously
“In a typical month (i.e., 30 days), on how many days do you use e-cigarettes?”	0 – 30
Sessions per day (SPD)	Average of 7 items
“In a typical week please write the number of sessions you typically use your e-cigarette on each day” (each day of the week listed separately)	Open-ended
Sessions per month (SPM)	Days per month X sessions per day
Penn State Electronic Cigarette Dependence Index (ECDI)	Sum of item scores
Sessions per day (as calculated above)	0-4 sessions (0), 5-9 (1), 10-14 (2), 15-19 (3), 20-29 (4), 30+ (5)
On days that you can use your electronic cigarette freely, how soon after you wake up do you first use your electronic cigarette?	121+ minutes (0), 61-120 (1), 31-60 (2), 16-30 (3), 6-15 (4), 0-5 (5)
Do you sometimes awaken at night to use your electronic cigarette?	No (0), Yes (1)
If yes, how many nights per week do you typically awaken to use your electronic cigarette?	0-1 nights (0), 2-3 (1), 4+ (2)
Do you use an electronic cigarette now because it is really hard to quit?	No (0), Yes (1)
Do you ever have strong cravings to use an electronic cigarette?	No (0), Yes (1)
Over the past week, how strong have the urges to use an electronic cigarette been?	None/slight (0), moderate/strong (1), very/extremely strong (2)
Is it hard to keep from using an electronic cigarette in places where you are not supposed to?	No (0), Yes (1)
When you haven’t used an electronic cigarette for awhile or when you tried to stop using, did you feel more irritable because you couldn’t use an electronic cigarette?	No (0), Yes (1)
When you haven’t used an electronic cigarette for awhile or when you tried to stop using, did you feel nervous, restless, or anxious because you couldn’t use an electronic cigarette?	No (0), Yes (1)
EASI	Scored continuously
“On a scale of 0-100% (not addicted to extremely addicted), how addicted to e-cigarettes do you think you are?”	0-100%
Heaviness of Vaping Index (HVI)	Sum of item scores
Sessions per day	0-4 sessions (0), 5-9 (1), 10-14 (2), 15-19 (3), 20-29 (4), 30+ (5)
On days that you can use your electronic cigarette freely, how soon after you wake up do you first use your electronic cigarette?	121+ minutes (0), 61-120 (1), 31-60 (2), 16-30 (3), 6-15 (4), 0-5 (5)