Assessing ENDS Device Type Accurately in Surveys

Bekir Kaplan

Background

The electronic nicotine delivery systems (ENDS) market is highly heterogeneous and changing rapidly in the US, making classification of devices complicated, especially for surveys. We assessed the percentage agreement between self-reported device type and device type reported by manufacturer sites for three ENDS brands.

Methods

- Population Assessment of
 Tobacco and Health (PATH) Study
 Wave five (2018-2019) asked adult
 ENDS users about their ENDS
 device type with the following
 multiple-choice question: "What
 kind of electronic nicotine product
 [is/was] it?" with response
 options: 1) A disposable device; 2)
 A device that uses replaceable
 prefilled cartridges; 3) A device
 with a tank that you refill with
 liquids; 4) A mod system; and 5)
 Something else.
- Participants using only one ENDS device and reporting brands of JUUL (n=579), MarkTen (n=30), or Vuse (n=47) were included.
- Responses were dichotomized as "agreed=1" (response option 2 for these three brands) and "not agreed=0" (other responses).



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82.7% of Vuse users, 82.6% of JUUL users, and 69.1% of MarkTen users indicate that their device uses replaceable prefilled cartridges.



https://vusevapor.com/



https://www.crescentcityvape.com/store/juul-pod-system/



https://www.electrictobacconist.com/blog/2018/01/mark-10-xl-a-complete-guide-to-their-e-cigarette-flavors/



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Results

- 81.8% (n=537) respondents who used JUUL, Vuse or MarkTen reported they used a device that uses replaceable prefilled cartridges.
- This percentage was 82.7% (n=37)
 among Vuse users, 82.6% (n=479)
 among JUUL users, and 69.1%
 (n=21) among MarkTen users.
- Almost 1 in 3 people who use
 MarkTen did not indicate that their
 device uses replaceable prefilled
 cartridges; this was 1 in 4 among
 the 36.6% of JUUL users with
 lower educational attainment.

Conclusion

- While at least 70% accurately reporting their device type could be acceptable, collecting more information about device type (e.g., liquid container (pod/cartridge/tank), refillability; and submitting pictures) may improve the accuracy of the information
- Adjusting survey questions about ENDS device type (e.g., more descriptive response options, inclusion of separate questions asking about tank/pod/cartridge) and potentially including photos of participants' devices may help to classify ENDS device types more accurately in population surveys

Authors

Bekir Kaplan, Elizabeth Crespi, Jeffrey J. Hardesty, Joanna Cohen