AGREEMENT BETWEEN SELF-REPORTS AND PHOTOS TO ASSESS E-CIGARETTE DEVICE AND LIQUID CHARACTERISTICS

Presenter: Elizabeth Crespi, BA

Background

E-cigarette devices and liquids have features that impact user experience, use patterns, and health. Surveys assessing these features may help illuminate key outcomes. Research indicates self-report e-cigarette device and liquid information can be unreliable. We evaluated the agreement between self-reports and user-uploaded photos to inform future survey development.

Methods

- Adults aged 21+ using e-cigarettes 5+ days/week (N=363) reported on and submitted photos of their most used e-cigarette devices (n=233) and liquids (n=196)
- When valid photos and self-reports were available, percentage agreement was calculated between photos and self-reports for device and liquid variables (Table 1)
- Challenges with device and liquid photo submissions were noted (Table 2)

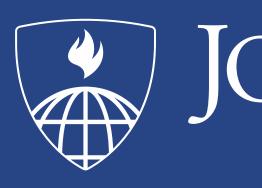


 Table 1. Percent agreement between self-reports
and photos

Variable

Device reusable/d Device

refillable/n Display pres

Adjustable presence Liquid flave Device brar Nicotine sa Liquid bran Nicotine co Container



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e-cigarette device and liquid characteristics. Photo submissions may also play an important role but can present their own challenges.

| | Comparisons made | Percent agreement |
|---------------|---------------------|----------------------|
| disposable | 223 | 99.6% |
| nonrefillable | 220 | 96% |
| esence | 220 | 95% |
| e power | 220 | 95% |
| or | 113 | 92% |
| and | 232 | 88% |
| alt | 133 | 85% |
| nd | 161 | 78% |
| oncentration | 101 | 75% |
| size | 93 | 75% |

| Table 2. | Chal | lenges | |
|----------|-------|--------|--|
| and liqu | id ph | otos | |

| Photo challenge | Percent | |
|---------------------------|---------|----------|
| r noto chancinge | n | TCTCCIIC |
| Device Photos | | |
| No photo | 121 | 33.3% |
| Brand not identifiable | 6 | 1.6% |
| Internet photo | 3 | 0.8% |
| Liquid Photos | | |
| No photo | 138 | 38% |
| Third-party pod/cartridge | 9 | 2.5% |
| Brand not identifiable | 5 | 1.4% |
| Internet photo | 3 | 0.8% |
| Multiple liquids | 3 | 0.8% |
| Non-PG/VG substance | 3 | 0.8% |
| Poor photo quality | 3 | 0.8% |
| Refillable pod/cartridge | 3 | 0.8% |
| Not a liquid | 2 | 0.6% |

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Self-report questions may be sufficient for assessing certain

with e-cigarette device

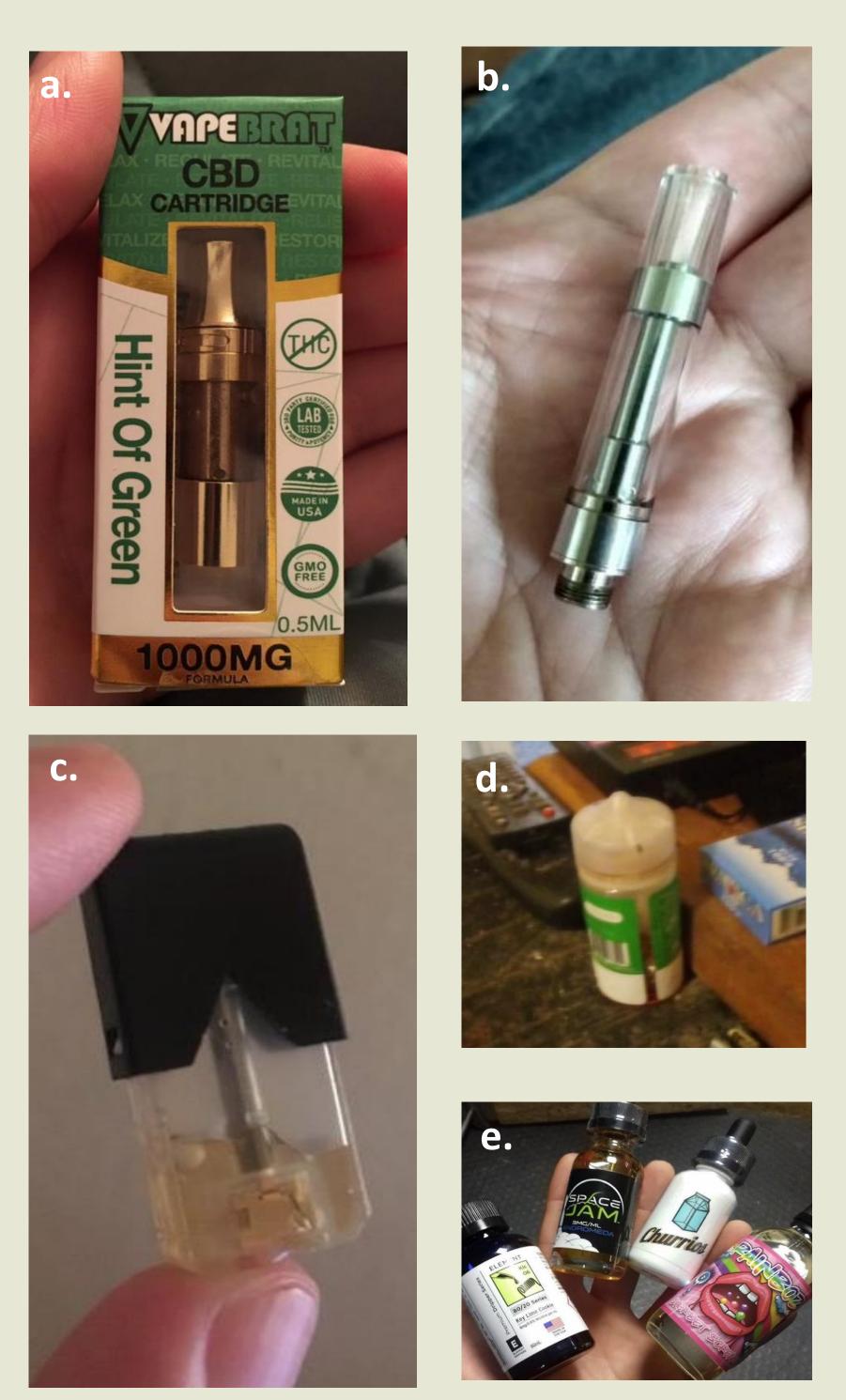
Examples of useable photos





Results

Examples of photo submission challenges



(a) non-PG/VG substance; (b) refillable pod/cartridge; (c) third-party pod/cartridge (d) brand not identifiable/poor photo quality; (e) multiple liquids

Authors have nothing to disclose

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