**Dawkins, L., Cox, S., Goniewicz, M., McRobbie, H., Kimber, C., Doig, M. & Kośmider, L. (2018). ‘Real-world’ compensatory behaviour with low nicotine concentration e-liquid: subjective effects and nicotine, acrolein and formaldehyde exposure. *Addiction, 113 (10): 1874-1882. Doi: 10.1111/add.14271***

**Data Description**

Data were collected from 20 exclusive vapers under 4 conditions: high nicotine (18mg/ml nicotine e-liquid concentration), fixed power (4V); high nicotine, adjustable power (participants could adjust as they wanted); low nicotine (6mg/ml), fixed power; and low nicotine, adjustable power. Order was counterbalanced but the fixed condition always came first giving rise to 4 possible orders:

18 fixed, 6 fixed, 18 adjustable, 6 adjustable (18F, 6F, 18A, 6A)

18 fixed, 6 fixed, 6 adjustable, 18 adjustable (18F, 6F, 6A, 18A)

6 fixed, 18 fixed, 18 adjustable, 6 adjustable (6F, 18F, 18A, 6A)

6 fixed, 18 fixed, 6 adjustable, 18 adjustable (6F, 18F, 6A, 18A)

Data was collected at baseline and at the end of each week/condition. Pre-test salivary samples and demographic and vaping related information was taken prior at baseline. Puffing information (puff number, puff duration, inter-puff interval, ml liquid consumed), craving and withdrawal symptoms, subjective (positive & negative) effects, and urinary biomarkers for acrolein and formate are available in each condition. All variables are clearly labelled in SPSS and a description of variables is provided below:

**Description of variables**

Baseline Variables

V. 1 – 2: Participants number and order of conditions

V. 3 – flavour of e-liquid chosen for the study

V. 4 – 8: Demographics

V. 9- 15: Baseline information relating to past smoking habits

V. 16 – 26: Information about current vaping practices

V. 27 – 29 Baseline CO level, salivary cotinine and cotinine/3-hydroxy cotinine ratio

V. 30 – 33: Salivary cotinine levels in each condition

V. 34 – 37: ml of e-liquid consumed in each condition

V. 38 – 41: CO levels in each condition

V. 42 – 59: Baseline e-cig information including the Penn State e-cig index

V. 60 – 66: Baseline Mood & Physical Symptoms Scale scores

V. 67 – 68: Baseline urge to vape & Strength of urges

V. 69 – 80: Baseline Subjective (positive) effects measured on a Visual Analogue Scale (VAS: 0 = not at all; 200 = extremely)

V. 81 – 82: Baseline VAS questions on burning & horrible taste to check for the presence of ‘dry hit’

V. 83 – 103: Baseline Subjective (negative) effects measured on a VAS (0=not at all; 200=extremely).

Subjective Effects

V. 104 – 147: All relate to subjective effects associated with the 6 Fixed (6F) condition including the MPSS, urges, positive and negative effects.

V. 148 – 191: Subjective effects associated with the 18 Fixed (18F) condition

V. 192 – 235: Subjective effects associated with the 6 Adjustable (6A) condition

V. 236 – 279: Subjective effects associated with the 18 Adjustable (18A) condition

V. 280 – 286: Total scores (average percentage) for subjective positive and negative effects in each of the four conditions.

E-cigarette related variables

V. 287 – 290: Average e-cigarette puff duration (in seconds) for each condition

V. 291 – 294: Average Inter-puff Interval (IPI) for each condition

V. 295 – 298: Average Voltage in each condition

V. 299 – 300: Categorical variable denoting whether user increased or decreased voltage in the A compared to the comparable nicotine strength F condition

V. 301 – 304: Average daily puff number in each condition

Other subjective effects (derived variables)

V. 305 – 326: Positive and negative effects total score expressed as a percentage as well as nicotine hit, throat hit and satisfaction for each condition.

Urinary biomarker variables:

V. 327 – 334: HPMA and formate (all creatinine corrected) under each condition.