## SUPPLEMENTARY INFORMATION

Supplementary Note 1: Original English and translated Dutch versions of the two urges to smoke measures; time spent with urges to smoke (TSU) and strength of urges to smoke (SUT)

### TSU

| Original English version | Dutch translation                                      |
|--------------------------|--------------------------------------------------------|
| How much of the time have you felt the urge to smoke in the past 24 hours? | Hoe vaak heeft u in de afgelopen 24 uur de drang gevoeld om te roken? |
| 6. all of the time       | continue                                               |
| 5. almost all of the time | bijna de hele tijd                                     |
| 4. a lot of the time      | een groot deel van de tijd                             |
| 3. some of the time       | een redelijk deel van de tijd                          |
| 2. a little of the time   | een klein deel van de tijd                             |
| 1. not at all             | totaal niet                                            |

### SUT

| Original English version | Dutch translation |
|--------------------------|-------------------|
| In general, how strong have the urges to smoke been? | Hoe sterk was deze drang? |
| 6. extremely strong      | extreem sterk     |
| 5. very strong           | zeer sterk        |
| 4. strong                | sterk             |
| 3. moderate              | matig             |
| 2. slight                | licht             |
| 1. no urges              | geen drang        |

---

1 Fidler JA, Shahab L, West R. Strength of urges to smoke as a measure of severity of cigarette dependence: comparison with the Fagerstrom Test for Nicotine Dependence and its components. Addiction. 2011;106(3):631-8
Supplementary Table 1: Diagnostic parameters for urges to smoke measures as predictors of relapse during week 9-26 and week 9-52, including all possible cut-points

| Predictor | Week 9-26 | | | | | | Week 9-52 | | | | | |
|-----------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
|           | Relapsed (N) | Abstinent (N) | SN (%) | SP (%) | PPVa (%) | Relapsed (N) | Abstinent (N) | SN (%) | SP (%) | PPVb (%) | | | | |
| TSU ≥1    | 75       | 105 | 100 | 0 | 41.7 | 100 | 80 | 100 | 0 | 55.6 | | | | |
| TSU ≥2    | 48       | 52  | 64.0 | 50.4 | 48.0 | 62 | 38 | 62.0 | 52.5 | 62.0 | | | | |
| TSU ≥3    | 7        | 3   | 9.3  | 97.1 | 70.0 | 9   | 1  | 9.0  | 98.8 | 90.0 | | | | |
| TSU ≥4    | 1        | 2   | 1.3  | 98.1 | 33.3 | 3   | 0  | 3.0  | 100 | 100 | | | | |
| TSU ≥5    | 1        | 0   | 1.3  | 100 | 100 | 1   | 0   | 1.0 | 100 | 100 | | | | |
| TSU ≥6    | 0        | 0   | -    | -   | -   | 0   | 0   | -   | -   | -   | | | | |
| SUT ≥1    | 75       | 105 | 100 | 0 | 41.7 | 100 | 80 | 100 | 0 | 47.6 | | | | |
| SUT ≥2    | 47       | 51  | 62.7 | 51.4 | 48.0 | 61 | 37 | 61.0 | 53.8 | 56.7 | | | | |
| SUT ≥3    | 21       | 17  | 28.0 | 83.8 | 55.3 | 27 | 11 | 27.0 | 86.3 | 67.7 | | | | |
| SUT ≥4    | 6        | 1   | 8.0  | 99.0 | 85.7 | 6   | 1   | 6.0 | 98.8 | 85.7 | | | | |
| SUT ≥5    | 2        | 0   | 2.7  | 100 | 100 | 2   | 0   | 2.0 | 100 | 100 | | | | |
| SUT ≥6    | 0        | 0   | -    | -   | -   | 0   | 0   | -   | -   | -   | | | | |

TSU=time spent with urges (1–6=all of the time). SUT=strength of urges to smoke (1–6=extremely strong). SN=sensitivity. SP=specificity. *PPV=positive predictive value given a 42% prevalence of relapse. **PPV=positive predictive value given a 56% prevalence of relapse.