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| **Supplemental Table 1. Mediation step 2: Association between the barriers and level of income and education in 2004**  |
|  | Fruits are expensive20041 | Vegetables are expensive20041 | Financial distress20111 |
|  Income 2004 |  |  |  |
|  0-1200 euro | **4.07 (2.81-5.89)** | **3.46 (2.33-5.13)** | **10.53 (7.39-15.03)** |
|  1200-1800 euro  | **2.80 (2.00-3.90)** | **2.66 (1.89-3.75)** | **3.87 (2.89-5.21)**  |
|  1800-2600 euro  | **1.93 (1.43-2.61)** | **1.87 (1.35-2.59)** | **2.34 (1.73-3.00)** |
|  > 2600 euro | 1.00 | 1.00 | 1.00 |
| Education 2004 |  |  |  |
|  Elementary  | **1.71 (1.10-2.64)** | **3.53 (2.22-5.62)** | **2.74 (1.88-3.98)** |
|  Lower secondary | 1.48 (0.99-2.22) | **1.80 (1.20-2.71)** | **1.49 (1.06-2.10)** |
|  Higher secondary  | 1.30 (0.90-1.88) | **1.77 (1.22-2.54)** | **1.49 (1.09-2.03)** |
|  Tertiary  | 1.00 | 1.00 | 1.00 |
| 1 Adjusted for sex, age and the other SEP indicator in 2004 (level of income or education) |

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| **Supplemental Table 2. Mediation step 3: Association between a decrease in intake frequencies of fruits, raw and cooked vegetables between 2004 and 2011 and the barriers, adjusting for level of income and education in 2004.**  |
|  | Decrease in fruit intake between 2004 - 2011 | Decrease in cooked vegetable intake between 2004 – 2011 | Decrease in raw vegetable intake between 2004 - 2011  | Decrease in fruit juice intake between 2004-2011 |
| Fruit is expensive |  |  |  |  |
| Yes | 1.10 (0.90-1.34) | **1.42 (1.16-1.75)** | 0.95 (0.77-1.18) | 1.00 (0.81-1.23) |
| No | 1.00 | 1.00 | 1.00 | 1.00 |
| Vegetables are expensive |  |  |  |  |
| Yes | 1.09 (0.88-1.34) | **1.31 (1.05-1.63)** | 0.97 (0.78-1.19) | 0.95 (0.76-1.19) |
| No | 1.00 | 1.00 | 1.00 | 1.00 |
| Financial distress |  |  |  |  |
| Yes | **1.26 (1.06-1.50)** | 1.14 (0.96-1.36) | 0.99 (0.83-1.17) | 1.06 (0.88-1.27) |
| No | 1.00 | 1.00 | 1.00 | 1.00 |
|  |  |  |  |  |
| 1 Adjusted for sex, age, both SEP indicators in 2004 (level of income or education) and intake frequencies in 2004 |