### Supplemental Table 3. Sensitivity analyses among subsample with a time lag between web-based self-report and measurement < 2 months, NutriNet-Santé study, France, 2012

#### Validity n=2,079

<table>
<thead>
<tr>
<th>BMI classification</th>
<th>Web-based</th>
<th>Measured</th>
<th>Agreement (%)</th>
<th>Weighted Kappa&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Sensitivity&lt;sup&gt;c,d&lt;/sup&gt;</th>
<th>Specificity&lt;sup&gt;c,e&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td></td>
<td>% 95% CI</td>
<td>κ 95% CI</td>
<td>P&lt;sup&gt;b&lt;/sup&gt; Se 95% CI</td>
</tr>
<tr>
<td>Normal (BMI&lt;25)</td>
<td>1387</td>
<td>66.71</td>
<td></td>
<td>95.0 94.1-95.9</td>
<td>0.92 0.91 - 0.94</td>
<td></td>
</tr>
<tr>
<td>Overweight (BMI 25-29.9)</td>
<td>478</td>
<td>22.99</td>
<td></td>
<td>.30 0.91 0.89 - 0.93</td>
<td>0.99 0.98 - 1.0</td>
<td></td>
</tr>
<tr>
<td>Obese (BMI≥30)</td>
<td>214</td>
<td>10.29</td>
<td></td>
<td>.57 0.91 0.87 - 0.95</td>
<td>1.00 0.99 - 1.0</td>
<td></td>
</tr>
</tbody>
</table>

#### BMI classification

<table>
<thead>
<tr>
<th></th>
<th>Web-based</th>
<th>Measured</th>
<th>Difference</th>
<th>ICC&lt;sup&gt;g&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>Mean</td>
<td>SD</td>
<td>Mean</td>
<td>SD</td>
</tr>
<tr>
<td></td>
<td>67.13</td>
<td>14.17</td>
<td>67.76</td>
<td>14.38</td>
</tr>
<tr>
<td></td>
<td>-0.62</td>
<td>-0.72</td>
<td>&lt;.0001</td>
<td></td>
</tr>
<tr>
<td>Height (cm)</td>
<td>Mean</td>
<td>SD</td>
<td>Mean</td>
<td>SD</td>
</tr>
<tr>
<td></td>
<td>166.81</td>
<td>8.46</td>
<td>166.26</td>
<td>8.45</td>
</tr>
<tr>
<td></td>
<td>0.55</td>
<td>0.49</td>
<td>&lt;.0001</td>
<td></td>
</tr>
<tr>
<td>BMI (kg/m²)</td>
<td>Mean</td>
<td>SD</td>
<td>Mean</td>
<td>SD</td>
</tr>
<tr>
<td></td>
<td>24.19</td>
<td>4.56</td>
<td>24.22</td>
<td>4.52</td>
</tr>
<tr>
<td></td>
<td>-0.03</td>
<td>-0.06</td>
<td>.01</td>
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</table>

#### Concordance n=233

<table>
<thead>
<tr>
<th>BMI classification</th>
<th>Web-based</th>
<th>Face to face</th>
<th>Agreement (%)</th>
<th>Weighted Kappa&lt;sup&gt;a&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
<td>% 95% CI</td>
</tr>
<tr>
<td>Normal (BMI&lt;25)</td>
<td>141</td>
<td>60.52</td>
<td>149</td>
<td>63.95</td>
</tr>
<tr>
<td>Overweight (BMI 25-29.9)</td>
<td>69</td>
<td>29.61</td>
<td>64</td>
<td>27.47</td>
</tr>
<tr>
<td>Obese (BMI≥30)</td>
<td>23</td>
<td>9.87</td>
<td>20</td>
<td>8.58</td>
</tr>
</tbody>
</table>

#### Concordance

<table>
<thead>
<tr>
<th></th>
<th>Web-based</th>
<th>Face to face</th>
<th>Difference</th>
<th>ICC&lt;sup&gt;g&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>Mean</td>
<td>SD</td>
<td>Mean</td>
<td>SD</td>
</tr>
<tr>
<td></td>
<td>66.26</td>
<td>12.56</td>
<td>65.94</td>
<td>12.50</td>
</tr>
<tr>
<td></td>
<td>0.33</td>
<td>1.71</td>
<td>.01</td>
<td></td>
</tr>
<tr>
<td>Height (cm)</td>
<td>Mean</td>
<td>SD</td>
<td>Mean</td>
<td>SD</td>
</tr>
<tr>
<td></td>
<td>165.91</td>
<td>7.74</td>
<td>165.87</td>
<td>7.87</td>
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<tr>
<td></td>
<td>0.03</td>
<td>0.87</td>
<td>.54</td>
<td></td>
</tr>
<tr>
<td>BMI (kg/m²)</td>
<td>Mean</td>
<td>SD</td>
<td>Mean</td>
<td>SD</td>
</tr>
<tr>
<td></td>
<td>24.19</td>
<td>4.19</td>
<td>23.92</td>
<td>4.05</td>
</tr>
<tr>
<td></td>
<td>0.27</td>
<td>0.75</td>
<td>&lt;.0001</td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup> Cicchetti-Allison weight. For a given cell in row i, colon j, W<sub>ij</sub>=1-|i-j|/2

<sup>b</sup> P-value of McNemar χ² test for binary variables: overweight including obesity (BMI>=25) yes/no and obese (BMI>=30) yes/no. A p-value lower than 0.05 indicates significant difference between web-based self-reporting and measurement.

<sup>c</sup> Sensitivity and Specificity for binary variables: overweight including obesity (BMI>=25) and obese (BMI>=30).

<sup>d</sup> Sensitivity= True Positives/(True positives + False negatives).

<sup>e</sup> Specificity= True Negatives / (True Negatives + False positives). Truth = clinical data. SD=([p(1-p)/n]<sup>0.5</sup>) Confidence interval is calculated as sensitivity±1.96*SD

<sup>f</sup> P-value of the paired t-test of difference of log-transformed variable (“Web minus face-to-face”)

<sup>g</sup> ICC(2,1) calculated on log transformed variables