**Appendix 1.** Percentage (weighted) of the population reporting a physical complaint (column) that also shared another complaint (row)

<table>
<thead>
<tr>
<th></th>
<th>Headache</th>
<th>Back pain</th>
<th>Stomach pain</th>
<th>Sleeping problems</th>
<th>Dizziness</th>
<th>Tiredness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headache</td>
<td>-</td>
<td>70.8</td>
<td>41.7</td>
<td>52.7</td>
<td>30.2</td>
<td>72.1</td>
</tr>
<tr>
<td>Back pain</td>
<td>41.8</td>
<td>-</td>
<td>40.8</td>
<td>44.0</td>
<td>23.7</td>
<td>62.1</td>
</tr>
<tr>
<td>Stomach pain</td>
<td>49.3</td>
<td>71.4</td>
<td>-</td>
<td>51.9</td>
<td>30.5</td>
<td>71.0</td>
</tr>
<tr>
<td>Sleeping problems</td>
<td>47.7</td>
<td>67.7</td>
<td>45.7</td>
<td>-</td>
<td>27.6</td>
<td>80.2</td>
</tr>
<tr>
<td>Dizziness</td>
<td>59.0</td>
<td>77.5</td>
<td>56.7</td>
<td>58.4</td>
<td>-</td>
<td>78.9</td>
</tr>
<tr>
<td>Tiredness</td>
<td>45.8</td>
<td>66.9</td>
<td>43.6</td>
<td>56.0</td>
<td>26.2</td>
<td>-</td>
</tr>
</tbody>
</table>
Appendix 2. Priors used in the different crude models

**Headache - Threat**
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)
Adjusted prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 13)

**Headache - Humiliation**
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)
Adjusted prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 5.8)

**Headache - Discrimination**
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = [0,0], \text{scale} = [2.5,2.5])
Adjusted prior:
\sim \text{normal}(\text{location} = [0,0], \text{scale} = [9.69,5.34])

**Backache - Threat**
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)
Adjusted prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 13)

**Backache - Humiliation**
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)
Adjusted prior:
~ normal(location = 0, scale = 5.8)

**Backache - Discrimination**
Intercept (after predictors centered)
~ normal(location = 0, scale = 2.5)

Coefficients
Specified prior:
~ normal(location = [0,0], scale = [2.5,2.5])
Adjusted prior:
~ normal(location = [0,0], scale = [9.68,5.34])

**Stomach pain - Threat**
Intercept (after predictors centered)
~ normal(location = 0, scale = 2.5)

Coefficients
Specified prior:
~ normal(location = 0, scale = 2.5)
Adjusted prior:
~ normal(location = 0, scale = 13)

**Stomach pain - Humiliation**
Intercept (after predictors centered)
~ normal(location = 0, scale = 2.5)

Coefficients
Specified prior:
~ normal(location = 0, scale = 2.5)
Adjusted prior:
~ normal(location = 0, scale = 5.8)

**Stomach pain - Discrimination**
Intercept (after predictors centered)
~ normal(location = 0, scale = 2.5)

Coefficients
Specified prior:
~ normal(location = [0,0], scale = [2.5,2.5])
Adjusted prior:
~ normal(location = [0,0], scale = [9.69,5.34])

**Sleeping problems - Threat**
Intercept (after predictors centered)
~ normal(location = 0, scale = 2.5)

Coefficients
Specified prior:
~ normal(location = 0, scale = 2.5)
Adjusted prior:
Sleeping problems - Humiliation
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)
Adjusted prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 5.8)

Sleeping problems - Discrimination
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)
Adjusted prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 5.8)

Dizziness - Threat
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)
Adjusted prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 13)

Dizziness - Humiliation
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)
Adjusted prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 5.8)

Dizziness - Discrimination
Intercept (after predictors centered)
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)

Coefficients
Specified prior:
\sim \text{normal}(\text{location} = 0, \text{scale} = 2.5)
Adjusted prior:
\[ \sim \text{normal}(\text{location} = [0,0], \text{scale} = [9.69,5.34]) \]

**Tiredness - Threat**

Intercept (after predictors centered)
\[ \sim \text{normal}(\text{location} = 0, \text{scale} = 2.5) \]

Coefficients

Specified prior:
\[ \sim \text{normal}(\text{location} = 0, \text{scale} = 2.5) \]

Adjusted prior:
\[ \sim \text{normal}(\text{location} = 0, \text{scale} = 13) \]

**Tiredness - Humiliation**

Intercept (after predictors centered)
\[ \sim \text{normal}(\text{location} = 0, \text{scale} = 2.5) \]

Coefficients

Specified prior:
\[ \sim \text{normal}(\text{location} = 0, \text{scale} = 2.5) \]

Adjusted prior:
\[ \sim \text{normal}(\text{location} = 0, \text{scale} = 5.8) \]

**Tiredness - Discrimination**

Intercept (after predictors centered)
\[ \sim \text{normal}(\text{location} = 0, \text{scale} = 2.5) \]

Coefficients

Specified prior:
\[ \sim \text{normal}(\text{location} = [0,0], \text{scale} = [2.5,2.5]) \]

Adjusted prior:
\[ \sim \text{normal}(\text{location} = [0,0], \text{scale} = [9.68,5.34]) \]

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San Sebastian M, et al. *J Epidemiol Community Health* 2024;0:1–6. doi: 10.1136/jech-2023-221365
### Appendix 3. Prevalence of the outcome in each of the exposure categories, crude and adjusted prevalence ratios with their 95% credible intervals (CrI) of the association between the three exposures and the six somatic complaints; SámiHET 2021.

<table>
<thead>
<tr>
<th></th>
<th>Headache</th>
<th>Back pain</th>
<th>Stomach pain</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n (%)</td>
<td>PR (95% CrI)</td>
<td>APR (95% CrI)</td>
</tr>
<tr>
<td><strong>Threat (12 m)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>1179 (33.8)</td>
<td>1.44 (1.21-1.68)</td>
<td>1.20 (1.04-1.41)</td>
</tr>
<tr>
<td>Yes</td>
<td>77 (48.7)</td>
<td>98 (62.4)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Humiliation (3 m)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>791 (29.4)</td>
<td>1.66 (1.54-1.80)</td>
<td>1.44 (1.33-1.56)</td>
</tr>
<tr>
<td>Yes</td>
<td>465 (48.8)</td>
<td>622 (65.3)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Discrimination</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>633 (29.4)</td>
<td>1216 (56.8)</td>
<td>1</td>
</tr>
<tr>
<td>Yes, &lt;12 m</td>
<td>143 (47.7)</td>
<td>181 (60.5)</td>
<td>1.07 (0.95-1.19)</td>
</tr>
<tr>
<td>Yes, &gt;12 m</td>
<td>485 (40.8)</td>
<td>717 (60.5)</td>
<td>1.07 (1.00-1.13)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sleeping problems</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>n (%)</td>
<td>PR (95% CrI)</td>
<td>APR (95% CrI)</td>
</tr>
<tr>
<td><strong>Threat (12 m)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>1284 (37.0)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Yes</td>
<td>97 (61.4)</td>
<td>47 (29.9)</td>
<td>1.72 (1.40-2.07)</td>
</tr>
<tr>
<td><strong>Humiliation (3 m)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>872 (32.6)</td>
<td>419 (15.6)</td>
<td>1</td>
</tr>
<tr>
<td>Yes</td>
<td>508 (53.4)</td>
<td>231 (24.3)</td>
<td>1.55 (1.39-1.73)</td>
</tr>
<tr>
<td><strong>Discrimination</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>693 (32.4)</td>
<td>337 (15.7)</td>
<td>1</td>
</tr>
<tr>
<td>Yes, &lt;12 m</td>
<td>148 (49.3)</td>
<td>65 (21.7)</td>
<td>1.37 (1.14-1.64)</td>
</tr>
<tr>
<td>Yes, &gt;12 m</td>
<td>540 (45.5)</td>
<td>250 (21.1)</td>
<td>1.34 (1.19-1.50)</td>
</tr>
</tbody>
</table>

* adjusted for sex, age, education and income