
Downloaded from: http://researchonline.lshtm.ac.uk/2141121/

DOI: 10.1136/jech-2014-204621

Usage Guidelines

Please refer to usage guidelines at http://researchonline.lshtm.ac.uk/policies.html or alternatively contact researchonline@lshtm.ac.uk.

Available under license: http://creativecommons.org/licenses/by/2.5/
### Web Appendix Table 1. Comparative descriptive statistics of China, Ghana, India, Mexico, Russia, and South Africa, 2008

<table>
<thead>
<tr>
<th></th>
<th>Lower and Lower Middle Income</th>
<th></th>
<th>Upper Middle and Upper Income</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ghana</td>
<td>India</td>
<td>China</td>
<td>South Africa</td>
<td>Mexico</td>
<td>Russia</td>
</tr>
<tr>
<td>GDP per capita, PPP (constant 2011 international $)</td>
<td>2,865</td>
<td>3,980</td>
<td>7,732</td>
<td>11,741</td>
<td>15,704</td>
<td>22,558</td>
</tr>
<tr>
<td>Mortality rate, infant (per 1,000 live births)</td>
<td>54</td>
<td>51</td>
<td>16</td>
<td>45</td>
<td>15</td>
<td>12</td>
</tr>
<tr>
<td>Life expectancy at birth, total (years)</td>
<td>60</td>
<td>65</td>
<td>75</td>
<td>53</td>
<td>76</td>
<td>68</td>
</tr>
<tr>
<td>Health expenditure per capita, PPP (constant 2005 international $)</td>
<td>84</td>
<td>114</td>
<td>282</td>
<td>814</td>
<td>892</td>
<td>1030</td>
</tr>
<tr>
<td>Health expenditure, public (% of total health expenditure)</td>
<td>58</td>
<td>26.3</td>
<td>49.9</td>
<td>45.8</td>
<td>47</td>
<td>66.5</td>
</tr>
<tr>
<td>Out-of-pocket health expenditure (% of total expenditure on health)</td>
<td>28.4</td>
<td>64.2</td>
<td>40</td>
<td>8.5</td>
<td>49.2</td>
<td>27.3</td>
</tr>
<tr>
<td>Physicians (per 1,000 people)</td>
<td>0.1</td>
<td>0.6</td>
<td>1.7</td>
<td>0.8</td>
<td>2.9</td>
<td>4.3</td>
</tr>
<tr>
<td>Hospital beds (per 1,000 people)</td>
<td>0.9</td>
<td>0.9</td>
<td>2.2</td>
<td>2.8</td>
<td>1.6</td>
<td>9.7</td>
</tr>
<tr>
<td>Geographic Region</td>
<td>Sub-Saharan Africa</td>
<td>South Asia</td>
<td>East Asia &amp; Pacific</td>
<td>Sub-Saharan Africa</td>
<td>Latin America &amp; Caribbean</td>
<td>Europe and Central Asia</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NCDs</th>
<th>Self-reported diagnoses</th>
<th>Symptoms-based/criterion-based measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angina</td>
<td>Have you ever been diagnosed with angina or angina pectoris (a heart disease)?</td>
<td>Each of the following 3 conditions were to be met:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1) During the last 12 months, the respondents have had experienced any pain or discomfort in the chest when walking uphill or hurry and/or ordinary pace on level ground.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2) The pain or discomfort had been relieved while just simply stopping the walk.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3) The pain or discomfort site is either ‘sternum’ (all level) or ‘left anterior chest and left arm’.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To identify location of pain or discomfort, respondents were asked to choose from a picture depicting numbered panels of the upper body.</td>
</tr>
<tr>
<td>Hypertension</td>
<td>Have you ever been diagnosed with high blood pressure (hypertension)?</td>
<td>Blood pressure measurement were taken with ‘Boso Medistar Wrist Blood Pressure Monitor Model S’ where the systolic blood pressure, diastolic blood pressure and pulse rate were documented.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blood pressure measurements were done three times for each respondent and at least 1 minute interval has been given between each blood pressure reading.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Based on the WHO criteria of hypertension for adults 18 years and older, we defined people with hypertension as those who have reported the systolic blood pressure ≥140 mmHg and/or diastolic blood pressure ≥90 mmHg.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S there were three blood pressure readings, we have taken an average of the three readings, separately for systolic blood pressure and diastolic blood pressure (22, 23).</td>
</tr>
<tr>
<td>Asthma &amp; Chronic lung diseases</td>
<td>Have you ever been diagnosed with asthma (an allergic respiratory disease)?</td>
<td>Spirometry was performed after the administration of an adequate dose of short-acting inhaled bronchodilator in order to minimise variability. The respondents were asked to take a deep breath and then to blow as long and hard as he/she can into a small tube attached to the spirometer machine and then FEV1 (Forced Expiratory Volume in One Second) and FVC (Forced Vital Capacity) were documented.</td>
</tr>
<tr>
<td></td>
<td>Have you ever been diagnosed with chronic lung disease (emphysema, bronchitis, COPD)?</td>
<td>Three trials of spirometry test were performed. The ratio of FEV1 (Forced Expiratory Volume in One Second) to FVC (Forced Vital Capacity) was calculated. Following the specific spirometry cut-points suggested by GOLD, those with FEV1/FVC &lt;70% and also had an FEV1 &lt; ‘80% predicted’, in all the three trials, were termed as people with moderate and above forms of (including severe and very severe) obstructive (lung) diseases (24).</td>
</tr>
<tr>
<td>Visual impairment</td>
<td>In the last 5 years, were you diagnosed with a cataract in one or both of your eyes (cloudiness in the lens of the eye)?</td>
<td>Using the four meter distance vision Tumbling E LogMAR chart, vision tests were conducted for distance vision for both left and right eyes and the recorded the resulting ‘DECIMAL’ value of each eye. If the respondents use the glasses or contact lenses, the tests were conducted using them. In accordance with WHO criteria (25, 26), we applied the definition of the low vision as an approximate Log MAR equivalent of ‘0.5 and above’ which corresponded to a ‘DECIMAL’ value of ‘0.32 and below’, thus, in</td>
</tr>
</tbody>
</table>
our analysis, those who score ‘DECIMAL’ value of ‘0.32 and below’ in the distance vision test for at least one eye were categorized as suffering from visual impairment.

Depression

Have you ever been diagnosed with depression?

In order to categorize a person as suffering from ‘moderate depression’, firstly, the following two ‘General criteria’ (i.e., General criteria 1 and 2) should be met:

1) General criteria 1: At least two of the following three symptoms (conditions) must be present: 
   i) during the last 12 months, have had a period lasting several days when felt sad, empty or depressed; 
   ii) during the last 12 months, have had a period lasting several days when lost interest in most things usually enjoy such as personal relationships, work or hobbies/recreation, 
   iii) during the last 12 months, have had a period lasting several days when have been feeling energy decreased or that are tired all the time.

2) General criteria 2: The depressive episode should last for at least 2 weeks.

Secondly, if the above stated conditions are met, then a total of at least six conditions (symptoms) should be present to term a person as having ‘moderate depression’. These six conditions can be from the above stated three conditions from ‘General criteria 1’, and/or, from the following ‘Seven Sub-conditions’

3) Seven Sub-conditions

i) During this period, person did feel negative about him/herself or like he/she had lost confidence and/or did frequently feel hopeless - that there was no way to improve things, 
ii) During this period, person did feel anxious and worried most days, 
iii) During this period, the person did think of death, or wish he/she were dead, and/or did he/she ever try to end own life, 
iv) During this period, did he/she have any difficulties concentrating; for example, listening to others, working, watching TV, listening to the radio, and/or did notice any slowing down in his/her thinking, 
v) He/she did notice any slowing down in his/her moving around, and/or he/she were so restless or jittery nearly every day that he/she paced up and down and couldn’t sit still, 
vi) He/she did notice any problems falling asleep, and/or, he/she did notice any problems waking up too early, and 
vii) During this period, he/she did lose his/her appetite.

Source: author’s compilation from various sources
### Web Appendix Table 3: Age-adjusted prevalence rate (in %, with 95% CI) of NCDs across wealth quintiles, measured through self-reported diagnoses and symptoms-based/criterion-based measure, among adult population in China, Ghana, India, Mexico, Russia, and South Africa

<table>
<thead>
<tr>
<th>Country</th>
<th>Angina Symptoms-based measure</th>
<th>Angina Self-reported diagnoses</th>
<th>Hypertension Criterion-based measure</th>
<th>Hypertension Self-reported diagnoses</th>
<th>Asthma and chronic lung diseases Criterion-based measure</th>
<th>Asthma and chronic lung diseases Self-reported diagnoses</th>
<th>Visual impairment Criterion-based measure</th>
<th>Visual impairment Self-reported diagnoses</th>
<th>Depression Symptoms-based measure</th>
<th>Depression Self-reported diagnoses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ghana</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lowest quintile</td>
<td>4.4[2.5;6.3]</td>
<td>1.7[0.2;3.2]</td>
<td>34.8[29.7;39.9]</td>
<td>2.5[1.3;3.7]</td>
<td>0.9[0.0;1.8]</td>
<td>1.9[0.3;3.6]</td>
<td>13.2[10.3;16.1]</td>
<td>1.4[0.4;2.4]</td>
<td>4.3[2.1;6.5]</td>
<td>0.2[0.1;0.4]</td>
</tr>
<tr>
<td>2nd</td>
<td>4.9[3.1;6.7]</td>
<td>0.8[0.4;1.1]</td>
<td>41.9[36.3;47.6]</td>
<td>4.0[2.8;5.2]</td>
<td>2.8[0.9;4.8]</td>
<td>4.7[2.1;7.2]</td>
<td>18.7[14.8;22.6]</td>
<td>1.6[0.8;2.3]</td>
<td>5.2[3.2;7.3]</td>
<td>0.6[0.3;0.8]</td>
</tr>
<tr>
<td>3rd</td>
<td>4.7[2.9;6.4]</td>
<td>1.2[0.4;2.1]</td>
<td>47.1[41.8;52.3]</td>
<td>8.5[5.3;11.6]</td>
<td>0.9[0.0;1.8]</td>
<td>1.3[0.8;1.9]</td>
<td>11.4[8.6;14.2]</td>
<td>1.4[0.6;2.1]</td>
<td>3.9[1.8;5.9]</td>
<td>1.0[0.2;1.7]</td>
</tr>
<tr>
<td>4th</td>
<td>3.0[1.1;4.9]</td>
<td>2.9[1.1;4.6]</td>
<td>46.3[40.8;51.7]</td>
<td>10.0[7.2;12.9]</td>
<td>2.2[0.4;3.9]</td>
<td>2.2[0.7;3.6]</td>
<td>10.4[7.1;13.8]</td>
<td>2.7[1.7;3.6]</td>
<td>2.8[1.2;4.4]</td>
<td>0.6[0.2;0.9]</td>
</tr>
<tr>
<td>Highest quintile</td>
<td>1.7[0.6;2.9]</td>
<td>1.1[0.6;1.5]</td>
<td>40.8[35.0;46.5]</td>
<td>13.9[10.4;17.4]</td>
<td>1.0[0.5;1.5]</td>
<td>1.6[0.8;2.4]</td>
<td>15.5[11.6;19.3]</td>
<td>3.9[2.4;5.3]</td>
<td>6.1[3.1;9.1]</td>
<td>1.1[-0.2;2.3]</td>
</tr>
<tr>
<td>India</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lowest quintile</td>
<td>10.7[8.7;12.7]</td>
<td>3.0[2.0;4.0]</td>
<td>18.4[15.8;21.0]</td>
<td>5.3[3.9;6.6]</td>
<td>5.3[3.9;6.7]</td>
<td>7.5[5.7;9.3]</td>
<td>19.5[17.2;21.7]</td>
<td>5.1[4.1;6.1]</td>
<td>10.1[8.3;12.0]</td>
<td>2.4[1.4;3.3]</td>
</tr>
<tr>
<td>2nd</td>
<td>7.6[5.9;9.2]</td>
<td>2.4[1.5;3.3]</td>
<td>17.5[15.2;19.9]</td>
<td>6.7[5.4;8.1]</td>
<td>5.7[4.4;7.0]</td>
<td>5.0[3.7;6.3]</td>
<td>17.6[15.6;19.7]</td>
<td>5.9[4.8;7.1]</td>
<td>9.5[7.9;11.2]</td>
<td>3.0[1.8;4.2]</td>
</tr>
<tr>
<td>3rd</td>
<td>7.0[5.5;8.5]</td>
<td>3.9[2.6;5.2]</td>
<td>18.8[16.5;21.2]</td>
<td>9.8[7.9;11.7]</td>
<td>4.9[3.5;6.2]</td>
<td>5.9[4.3;7.4]</td>
<td>17.2[15.3;19.2]</td>
<td>6.0[4.9;7.2]</td>
<td>10.3[8.5;12.0]</td>
<td>4.3[2.9;5.7]</td>
</tr>
<tr>
<td>4th</td>
<td>6.3[4.7;7.9]</td>
<td>3.0[2.0;4.0]</td>
<td>19.7[17.2;22.1]</td>
<td>9.7[8.1;11.3]</td>
<td>5.0[3.7;6.3]</td>
<td>5.2[3.7;6.7]</td>
<td>17.3[15.3;19.3]</td>
<td>6.5[5.2;7.7]</td>
<td>6.8[5.3;8.2]</td>
<td>4.8[3.4;6.2]</td>
</tr>
<tr>
<td>Highest quintile</td>
<td>3.4[2.4;4.4]</td>
<td>2.7[1.9;3.4]</td>
<td>21.3[18.5;24.2]</td>
<td>15.2[13.0;17.4]</td>
<td>5.0[3.7;6.3]</td>
<td>5.6[3.7;7.5]</td>
<td>12.4[10.9;13.9]</td>
<td>6.6[5.5;7.7]</td>
<td>5.6[4.1;7.0]</td>
<td>2.9[1.8;3.9]</td>
</tr>
<tr>
<td>China</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lowest quintile</td>
<td>1.7[0.9;2.5]</td>
<td>3.0[2.1;3.9]</td>
<td>38.6[35.1;42.2]</td>
<td>9.6[7.7;11.4]</td>
<td>1.5[1.0;1.9]</td>
<td>4.1[3.0;5.2]</td>
<td>16.0[13.3;18.6]</td>
<td>2.9[1.5;4.2]</td>
<td>1.2[0.6;1.8]</td>
<td>0.1[0.0;0.1]</td>
</tr>
<tr>
<td>2nd</td>
<td>1.4[0.7;2.2]</td>
<td>3.9[2.9;5.0]</td>
<td>37.9[34.0;41.8]</td>
<td>9.0[7.3;10.8]</td>
<td>1.1[0.8;1.5]</td>
<td>4.1[2.9;5.3]</td>
<td>12.6[10.2;15.0]</td>
<td>2.3[1.8;2.7]</td>
<td>1.7[0.3;3.0]</td>
<td>0.1[0.0;0.1]</td>
</tr>
<tr>
<td>3rd</td>
<td>1.9[0.6;3.3]</td>
<td>3.0[2.2;3.9]</td>
<td>40.5[35.8;45.1]</td>
<td>12.6[9.9;15.4]</td>
<td>1.1[0.6;1.5]</td>
<td>5.3[3.1;7.5]</td>
<td>14.4[11.5;17.3]</td>
<td>2.6[2.1;3.1]</td>
<td>0.4[-0.1;1.0]</td>
<td>1.1[-0.2;2.4]</td>
</tr>
<tr>
<td>4th</td>
<td>0.8[0.4;1.2]</td>
<td>4.3[2.6;6.1]</td>
<td>35.8[31.3;40.2]</td>
<td>14.1[11.1;17.1]</td>
<td>1.3[0.3;2.2]</td>
<td>3.6[2.5;4.8]</td>
<td>14.0[11.2;16.8]</td>
<td>2.7[2.3;3.2]</td>
<td>1.2[0.1;2.3]</td>
<td>0.2[0.0;0.4]</td>
</tr>
<tr>
<td>Highest quintile</td>
<td>1.0[0.3;1.8]</td>
<td>4.3[2.4;6.1]</td>
<td>34.6[29.9;39.3]</td>
<td>13.6[11.0;16.2]</td>
<td>1.4[0.6;2.1]</td>
<td>3.3[2.2;4.4]</td>
<td>15.5[12.1;18.9]</td>
<td>3.9[2.6;5.2]</td>
<td>0.4[-0.2;0.9]</td>
<td>0.4[-0.2;0.9]</td>
</tr>
<tr>
<td>Country</td>
<td>Quintile</td>
<td>Average Days Since First Time</td>
<td>Standard Deviation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>----------</td>
<td>------------------------------</td>
<td>--------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Africa</td>
<td>Lowest quintile</td>
<td>1.0[0.4;1.6]</td>
<td>1.1[0.4;1.6]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>1.5[0.8;2.2]</td>
<td>1.1[0.6;1.5]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd</td>
<td>1.7[0.5;2.8]</td>
<td>3.2[1.3;5.1]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4th</td>
<td>5.1[4.0;6.1]</td>
<td>3.1[2.1;4.2]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Highest quintile</td>
<td>0.5[0.1;1.0]</td>
<td>10.7[8.7;12.8]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexico</td>
<td>Lowest quintile</td>
<td>10.8[7.8;13.9]</td>
<td>0.7[0.5;0.9]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>8.3[6.0;10.5]</td>
<td>0.6[0.3;0.9]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd</td>
<td>6.5[3.3;9.8]</td>
<td>0.6[0.2;1.0]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4th</td>
<td>7.4[5.5;9.4]</td>
<td>1.7[0.1;3.5]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Highest quintile</td>
<td>4.0[1.5;6.5]</td>
<td>1.2[0.1;2.2]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Russia</td>
<td>Lowest quintile</td>
<td>13.2[10.7;15.7]</td>
<td>18.4[15.3;21.4]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd</td>
<td>18.9[15.6;22.1]</td>
<td>27.8[24.2;31.4]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd</td>
<td>18.4[14.5;22.2]</td>
<td>28.4[24.1;32.7]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4th</td>
<td>13.9[10.8;17.1]</td>
<td>23.2[19.2;27.3]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Highest quintile</td>
<td>13.8[10.5;17.0]</td>
<td>21.3[17.1;25.4]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All Sample</td>
<td>15.7[13.5;17.9]</td>
<td>23.8[21.2;26.3]</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Source:** WHO SAGE survey, 2007-10
### Web Appendix Table 4: Age-adjusted prevalence rate (in %, with 95% CI) of NCDs across educational level, measured through self-reported diagnoses and symptoms-based/criterion-based measures, among adult population in China, Ghana, India, Mexico, Russia, and South Africa

<table>
<thead>
<tr>
<th></th>
<th>Symptoms-based measure</th>
<th>Self-reported diagnoses</th>
<th>Criterion-based measure</th>
<th>Self-reported diagnoses</th>
<th>Hypertension</th>
<th>Asthma and chronic lung diseases</th>
<th>Visual impairment</th>
<th>Self-reported diagnoses</th>
<th>Depression</th>
<th>Symptoms-based measure</th>
<th>Self-reported diagnoses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ghana</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Formal Schooling</td>
<td>6.2[4.0;8.4]</td>
<td>2.0[0.6;3.5]</td>
<td>42.2[37.0;47.3]</td>
<td>4.7[2.5;6.9]</td>
<td>1.7[0.6;2.8]</td>
<td>2.5[1.9;3.1]</td>
<td>17.2[13.8;20.7]</td>
<td>1.4[0.9;2.0]</td>
<td>4.1[2.4;5.9]</td>
<td>0.3[0.2;0.5]</td>
<td></td>
</tr>
<tr>
<td>Less than primary school</td>
<td>4.1[2.4;5.9]</td>
<td>0.9[0.2;1.5]</td>
<td>39.8[33.9;45.7]</td>
<td>6.2[3.4;9.1]</td>
<td>3.4[0.5;6.3]</td>
<td>3.8[2.0;5.7]</td>
<td>14.6[10.6;18.6]</td>
<td>1.8[1.1;2.4]</td>
<td>3.4[1.8;5.0]</td>
<td>1.0[0.5;1.5]</td>
<td></td>
</tr>
<tr>
<td>Primary school completed</td>
<td>3.9[2.1;5.7]</td>
<td>0.9[0.5;1.4]</td>
<td>47.9[42.2;53.5]</td>
<td>10.1[6.4;13.8]</td>
<td>1.5[-0.2;3.2]</td>
<td>2.8[0.7;5.0]</td>
<td>13.6[10.2;17.0]</td>
<td>1.8[1.3;2.4]</td>
<td>3.6[1.5;5.7]</td>
<td>0.9[0.2;1.7]</td>
<td></td>
</tr>
<tr>
<td>Secondary high school completed</td>
<td>1.4[0.7;2.2]</td>
<td>1.7[0.7;2.7]</td>
<td>42.9[38.4;47.4]</td>
<td>9.7[7.4;12.0]</td>
<td>1.5[0.5;2.6]</td>
<td>2.8[1.6;4.0]</td>
<td>12.1[9.4;14.8]</td>
<td>3.8[2.3;5.3]</td>
<td>4.1[2.4;5.7]</td>
<td>0.2[0.0;0.3]</td>
<td></td>
</tr>
<tr>
<td>College completed or above</td>
<td>1.4[0.6;2.2]</td>
<td>1.1[0.2;2.0]</td>
<td>35.8[31.4;40.2]</td>
<td>14.3[10.3;18.2]</td>
<td>0.8[0.1;1.6]</td>
<td>1.3[0.7;1.9]</td>
<td>11.6[10.3;13.0]</td>
<td>3.0[1.1;5.0]</td>
<td>4.0[1.2;6.7]</td>
<td>5.3[4.9;5.7]</td>
<td></td>
</tr>
<tr>
<td><strong>India</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Formal Schooling</td>
<td>8.5[7.2;9.8]</td>
<td>2.7[1.9;3.4]</td>
<td>19.3[17.2;21.3]</td>
<td>8.6[7.4;9.8]</td>
<td>6.3[5.0;7.5]</td>
<td>5.1[4.2;6.0]</td>
<td>18.0[16.7;19.3]</td>
<td>5.7[5.0;6.4]</td>
<td>10.5[9.1;11.9]</td>
<td>2.6[1.9;3.3]</td>
<td></td>
</tr>
<tr>
<td>Less than primary school</td>
<td>8.1[6.0;10.1]</td>
<td>3.6[2.3;4.9]</td>
<td>18.7[15.3;22.0]</td>
<td>7.9[6.0;9.7]</td>
<td>2.8[1.9;3.7]</td>
<td>6.6[4.5;8.7]</td>
<td>17.3[14.5;20.1]</td>
<td>6.9[5.4;8.4]</td>
<td>8.3[6.2;10.3]</td>
<td>3.7[2.1;5.2]</td>
<td></td>
</tr>
<tr>
<td>Primary school completed</td>
<td>6.5[4.8;8.1]</td>
<td>2.9[2.0;3.8]</td>
<td>21.6[18.8;24.4]</td>
<td>8.0[6.5;9.4]</td>
<td>4.9[3.6;6.2]</td>
<td>5.3[3.8;6.8]</td>
<td>17.9[15.5;20.4]</td>
<td>4.8[3.9;5.7]</td>
<td>7.1[5.4;8.9]</td>
<td>3.0[1.9;4.1]</td>
<td></td>
</tr>
<tr>
<td>Secondary high school completed</td>
<td>5.1[3.7;6.4]</td>
<td>3.8[2.7;4.9]</td>
<td>17.7[15.5;19.9]</td>
<td>12.0[10.1;13.9]</td>
<td>5.3[4.0;6.6]</td>
<td>6.5[4.8;8.1]</td>
<td>14.0[12.3;15.7]</td>
<td>7.3[6.0;8.7]</td>
<td>6.4[5.0;7.8]</td>
<td>3.3[2.3;4.3]</td>
<td></td>
</tr>
<tr>
<td>College completed or above</td>
<td>2.3[0.6;4.1]</td>
<td>2.9[1.3;4.5]</td>
<td>19.8[16.0;23.5]</td>
<td>14.4[11.5;17.3]</td>
<td>3.7[2.2;5.3]</td>
<td>4.7[2.4;7.1]</td>
<td>10.9[8.4;13.3]</td>
<td>5.0[3.4;6.6]</td>
<td>4.8[1.8;7.8]</td>
<td>3.9[2.1;5.7]</td>
<td></td>
</tr>
<tr>
<td><strong>China</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Formal Schooling</td>
<td>1.1[0.8;1.3]</td>
<td>2.2[1.8;2.5]</td>
<td>51.3[45.3;57.4]</td>
<td>14.0[10.7;18.2]</td>
<td>1.3[1.0;1.5]</td>
<td>2.7[2.3;3.0]</td>
<td>17.1[13.2;21.1]</td>
<td>2.2[1.9;2.5]</td>
<td>0.8[0.2;1.4]</td>
<td>0.1[0.0;0.2]</td>
<td></td>
</tr>
<tr>
<td>Less than primary school</td>
<td>0.5[0.3;0.7]</td>
<td>1.8[1.2;2.4]</td>
<td>34.9[29.9;40.0]</td>
<td>12.4[8.7;16.1]</td>
<td>1.5[0.5;2.5]</td>
<td>5.1[2.3;7.9]</td>
<td>16.3[12.6;20.0]</td>
<td>3.0[1.7;4.3]</td>
<td>0.7[-0.2;1.6]</td>
<td>0.7[-0.4;1.9]</td>
<td></td>
</tr>
<tr>
<td>Primary school completed</td>
<td>1.3[0.3;2.2]</td>
<td>4.4[2.4;6.5]</td>
<td>42.1[37.4;46.9]</td>
<td>10.9[8.1;13.7]</td>
<td>0.8[0.6;1.1]</td>
<td>6.8[4.1;9.5]</td>
<td>11.4[9.1;13.8]</td>
<td>2.9[1.3;4.5]</td>
<td>0.4[0.1;0.8]</td>
<td>0.3[-0.2;0.8]</td>
<td></td>
</tr>
<tr>
<td>Secondary high school completed</td>
<td>1.6[1.0;2.2]</td>
<td>4.5[3.6;5.4]</td>
<td>36.7[34.2;39.3]</td>
<td>12.3[11.0;13.7]</td>
<td>1.1[0.6;1.6]</td>
<td>3.5[2.8;4.2]</td>
<td>13.4[11.6;15.2]</td>
<td>3.0[2.5;5.5]</td>
<td>1.3[0.6;1.9]</td>
<td>0.3[0.0;0.7]</td>
<td></td>
</tr>
<tr>
<td>College completed or above</td>
<td>0.8[0.4;1.2]</td>
<td>3.4[2.2;4.6]</td>
<td>32.3[27.0;37.6]</td>
<td>12.4[9.2;15.6]</td>
<td>1.4[0.2;2.6]</td>
<td>6.9[3.5;10.3]</td>
<td>14.9[10.6;19.2]</td>
<td>3.3[2.6;4.0]</td>
<td>0.6[-0.3;1.6]</td>
<td>0.1[-0.1;0.2]</td>
<td></td>
</tr>
<tr>
<td>Country</td>
<td>No Formal schooling</td>
<td>Formal schooling</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------</td>
<td>-----------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Africa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Schooling</td>
<td>90.1 (78.0; 99.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than Primary school completed</td>
<td>5.3 (3.7; 6.9)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary school completed</td>
<td>1.4 (1.0; 1.9)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary high school completed</td>
<td>0.1 (0.0; 0.2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College completed or above</td>
<td>0.3 (0.0; 1.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexico</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Schooling</td>
<td>100.0 (100.0; 100.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than Primary school completed</td>
<td>0.2 (0.0; 0.3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary school completed</td>
<td>0.0 (0.0; 0.1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary high school completed</td>
<td>0.0 (0.0; 0.1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College completed or above</td>
<td>0.0 (0.0; 0.1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Russia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Schooling</td>
<td>100.0 (100.0; 100.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than Primary school completed</td>
<td>0.1 (0.0; 0.1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary school completed</td>
<td>0.0 (0.0; 0.1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary high school completed</td>
<td>0.0 (0.0; 0.1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College completed or above</td>
<td>0.0 (0.0; 0.1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Source: WHO SAGE survey, 2007-10. † no observations were reported in the survey corresponding to ‘No Formal schooling’ in the sample in Mexico.
Web Appendix Table 5: Unadjusted and Adjusted Odds Ratio (with 95% CI) of self-reported diagnoses and symptoms-based/criterion-based measures of NCDs among adult population in China, Ghana, and India.

### Angina

<table>
<thead>
<tr>
<th></th>
<th>Ghana</th>
<th>India</th>
<th>China</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Model 1</td>
<td>Model 2</td>
<td>Model 3</td>
</tr>
<tr>
<td></td>
<td>0.54†</td>
<td>[0.32,0.89]</td>
<td>0.73</td>
</tr>
<tr>
<td>Asset</td>
<td>0.38***</td>
<td>[0.23,0.62]</td>
<td>0.51†</td>
</tr>
<tr>
<td>Education</td>
<td>0.89</td>
<td>[0.79,1.00]</td>
<td>0.91</td>
</tr>
</tbody>
</table>

### Hypertension

<table>
<thead>
<tr>
<th></th>
<th>Ghana</th>
<th>India</th>
<th>China</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Model 1</td>
<td>Model 2</td>
<td>Model 3</td>
</tr>
<tr>
<td></td>
<td>1.05</td>
<td>[0.83,1.34]</td>
<td>1.03</td>
</tr>
<tr>
<td>Asset</td>
<td>1.34</td>
<td>[1.03,1.74]</td>
<td>1.17</td>
</tr>
<tr>
<td>Education</td>
<td>0.96</td>
<td>[0.93,1.00]</td>
<td>0.95†</td>
</tr>
</tbody>
</table>

### Asthma and chronic lung disease

<table>
<thead>
<tr>
<th></th>
<th>Ghana</th>
<th>India</th>
<th>China</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Model 1</td>
<td>Model 2</td>
<td>Model 3</td>
</tr>
<tr>
<td></td>
<td>0.80</td>
<td>[0.32,1.99]</td>
<td>0.79</td>
</tr>
<tr>
<td>Asset</td>
<td>1.04</td>
<td>[0.54,2.03]</td>
<td>0.92</td>
</tr>
<tr>
<td>Education</td>
<td>0.98</td>
<td>[0.86,1.12]</td>
<td>0.98</td>
</tr>
</tbody>
</table>

### Visual impairment

<table>
<thead>
<tr>
<th></th>
<th>Ghana</th>
<th>India</th>
<th>China</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model 1</td>
<td>Model 2</td>
<td>Model 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: Statistics with †, *, and ** indicate significance at the 0.1, 0.05, and 0.01 levels, respectively.*
<table>
<thead>
<tr>
<th></th>
<th>Criterion-based measure</th>
<th>Self-reported diagnoses</th>
<th>Criterion-based measure</th>
<th>Self-reported diagnoses</th>
<th>Criterion-based measure</th>
<th>Self-reported diagnoses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model 1</td>
<td>Model 2</td>
<td>Model 3</td>
<td>Model 1</td>
<td>Model 2</td>
<td>Model 3</td>
</tr>
<tr>
<td>Male</td>
<td>1.15</td>
<td>1.10</td>
<td>1.39</td>
<td>0.58</td>
<td>0.49</td>
<td>0.28</td>
</tr>
<tr>
<td></td>
<td>[0.84,1.58]</td>
<td>[0.79,1.53]</td>
<td>[0.79,2.45]</td>
<td>[0.32,1.08]</td>
<td>[0.26,0.94]</td>
<td>[0.09,0.82]</td>
</tr>
<tr>
<td>Asset</td>
<td>0.78</td>
<td>0.93</td>
<td>[0.55,1.09]</td>
<td>2.37</td>
<td>2.63</td>
<td>2.69</td>
</tr>
<tr>
<td></td>
<td>[0.55,1.09]</td>
<td>[0.63,1.38]</td>
<td>[1.28,4.42]</td>
<td>[1.48,4.68]</td>
<td>[0.70,0.94]</td>
<td>[0.60,0.86]</td>
</tr>
<tr>
<td>Education</td>
<td>0.98</td>
<td>0.98</td>
<td>1.23</td>
<td>1.25</td>
<td>0.92</td>
<td>0.97</td>
</tr>
<tr>
<td></td>
<td>[0.91,1.05]</td>
<td>[0.91,1.06]</td>
<td>[1.09,1.39]</td>
<td>[1.10,1.43]</td>
<td>[0.89,0.95]</td>
<td>[0.93,1.00]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Criterion-based measure</th>
<th>Self-reported diagnoses</th>
<th>Criterion-based measure</th>
<th>Self-reported diagnoses</th>
<th>Criterion-based measure</th>
<th>Self-reported diagnoses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model 1</td>
<td>Model 2</td>
<td>Model 3</td>
<td>Model 1</td>
<td>Model 2</td>
<td>Model 3</td>
</tr>
<tr>
<td>Male</td>
<td>0.89</td>
<td>0.81</td>
<td>1.42</td>
<td>1.50</td>
<td>1.30</td>
<td>2.56</td>
</tr>
<tr>
<td></td>
<td>[0.52,1.53]</td>
<td>[0.46,1.41]</td>
<td>[0.56,3.61]</td>
<td>[0.54,4.18]</td>
<td>[0.47,3.62]</td>
<td>[0.62,10.6]</td>
</tr>
<tr>
<td>Asset</td>
<td>1.25</td>
<td>1.01</td>
<td>[0.65,2.43]</td>
<td>2.08</td>
<td>2.34</td>
<td>0.59</td>
</tr>
<tr>
<td></td>
<td>[0.53,1.91]</td>
<td>[0.53,1.91]</td>
<td>[0.55,6.55]</td>
<td>[0.91,6.00]</td>
<td>[0.48,0.73]</td>
<td>[0.45,0.71]</td>
</tr>
<tr>
<td>Education</td>
<td>0.93</td>
<td>0.91</td>
<td>0.95</td>
<td>0.93</td>
<td>0.93</td>
<td>0.96</td>
</tr>
<tr>
<td></td>
<td>[0.83,1.04]</td>
<td>[0.81,1.04]</td>
<td>[0.86,1.05]</td>
<td>[0.87,0.99]</td>
<td>[0.89,1.00]</td>
<td>[0.91,1.00]</td>
</tr>
</tbody>
</table>

Notes: i) 95% confidence intervals in brackets; ii) \( p < 0.05 \), ** \( p < 0.01 \), *** \( p < 0.001 \); iii) dependent variable is symptom-based/criterion-based measure and self-reported diagnoses of each NCD, and is defined as 1 if the respondent had the NCD, and 0 if otherwise; iv) Male is dichotomous variable with female as reference category, asset is defined as the asset index of the household, and education is defined as years of education; v) Model 1 estimated unadjusted odds ratio by regressing each independent variable on NCD prevalence separately; Model 2 is adjusted for rural-urban, age, gender and asset, where Model 3 is adjusted for rural-urban, age, gender and education. Model 2 and 3 of symptom-based/criterion-based measures of each was also adjusted with a dichotomous variable of whether the respondent has taken medication/treatment or not.
### Web Appendix Table 6: Unadjusted and Adjusted Odds Ratio (with 95% CI) of self-reported diagnoses and symptoms-based/criterion-based measures of NCDs among adult population in South Africa, Mexico, and Russia.

**Angina**

<table>
<thead>
<tr>
<th></th>
<th>South Africa</th>
<th>Mexico</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Symptom-based</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 1</td>
<td>0.24**</td>
<td>0.29**</td>
<td>0.45</td>
</tr>
<tr>
<td>(0.11,0.52)</td>
<td>(0.12,0.69)</td>
<td>(0.18,1.13)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.28**</td>
<td>0.28**</td>
<td>0.45</td>
</tr>
<tr>
<td>(0.13,0.62)</td>
<td>(0.13,0.61)</td>
<td>(0.07,0.52)</td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>0.20**</td>
<td>0.20**</td>
<td></td>
</tr>
<tr>
<td>(0.07,0.52)</td>
<td>(0.07,0.52)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Self-reported</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 1</td>
<td>0.44</td>
<td>0.49</td>
<td>0.43</td>
</tr>
<tr>
<td>(0.20,0.99)</td>
<td>(0.21,1.14)</td>
<td>(0.18,1.01)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.29**</td>
<td>0.28</td>
<td>0.31**</td>
</tr>
<tr>
<td>(0.10,0.83)</td>
<td>(0.10,0.79)</td>
<td>(0.10,0.96)</td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>0.39</td>
<td>1.05</td>
<td>1.22</td>
</tr>
<tr>
<td>(0.22,2.01)</td>
<td>(0.61,1.79)</td>
<td>(0.72,2.08)</td>
<td></td>
</tr>
</tbody>
</table>

**Hypertension**

<table>
<thead>
<tr>
<th></th>
<th>South Africa</th>
<th>Mexico</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Criterion-based</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 1</td>
<td>1.33</td>
<td>1.44</td>
<td>2.11*</td>
</tr>
<tr>
<td>(0.77,3.22)</td>
<td>(0.82,2.53)</td>
<td>(1.02,4.38)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.49**</td>
<td>0.45**</td>
<td>0.35**</td>
</tr>
<tr>
<td>(0.20,0.58)</td>
<td>(0.20,0.58)</td>
<td>(0.20,0.58)</td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>1.12</td>
<td>1.37</td>
<td>1.35</td>
</tr>
<tr>
<td>(0.65,1.92)</td>
<td>(0.79,2.40)</td>
<td>(0.75,2.43)</td>
<td></td>
</tr>
<tr>
<td><strong>Self-reported</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 1</td>
<td>1.04</td>
<td>1.04</td>
<td>1.17</td>
</tr>
<tr>
<td>(0.91,1.11)</td>
<td>(0.86,1.05)</td>
<td>(1.03,1.17)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.51</td>
<td>1.03</td>
<td></td>
</tr>
<tr>
<td>(0.43,0.93)</td>
<td>(0.84,0.92)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>0.59</td>
<td>0.97</td>
<td></td>
</tr>
<tr>
<td>(0.45,0.94)</td>
<td>(0.84,0.92)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Self-reported diagnoses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 1</td>
<td>0.90</td>
<td>0.97</td>
<td>0.97</td>
</tr>
<tr>
<td>(0.84,0.97)</td>
<td>(0.92,1.05)</td>
<td>(0.92,1.05)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.97</td>
<td>1.04</td>
<td>1.04</td>
</tr>
<tr>
<td>(0.92,1.05)</td>
<td>(0.96,1.11)</td>
<td>(0.93,1.14)</td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>0.97</td>
<td>1.03</td>
<td>1.03</td>
</tr>
<tr>
<td>(0.84,0.92)</td>
<td>(0.86,1.05)</td>
<td>(0.84,0.92)</td>
<td></td>
</tr>
</tbody>
</table>

**Asthma and chronic lung disease**

<table>
<thead>
<tr>
<th></th>
<th>South Africa</th>
<th>Mexico</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Criterion-based</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 1</td>
<td>1.71</td>
<td>1.97</td>
<td>0.92</td>
</tr>
<tr>
<td>(0.66,4.40)</td>
<td>(0.78,4.96)</td>
<td>(0.26,3.25)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.56</td>
<td>0.58</td>
<td>0.50</td>
</tr>
<tr>
<td>(0.29,1.11)</td>
<td>(0.30,1.14)</td>
<td>(0.22,1.13)</td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>0.50</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>(0.22,1.13)</td>
<td>(0.22,1.13)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Self-reported</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 1</td>
<td>3.49</td>
<td>3.01</td>
<td>3.84</td>
</tr>
<tr>
<td>(0.37,3.28)</td>
<td>(0.39,2.35)</td>
<td>(0.41,3.60)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.31**</td>
<td>0.30</td>
<td>0.30</td>
</tr>
<tr>
<td>(0.11,0.84)</td>
<td>(0.10,0.88)</td>
<td>(0.10,0.88)</td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>0.48</td>
<td>0.54</td>
<td>0.50</td>
</tr>
<tr>
<td>(0.16,1.45)</td>
<td>(0.14,2.04)</td>
<td>(0.12,2.18)</td>
<td></td>
</tr>
<tr>
<td><strong>Self-reported diagnoses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 1</td>
<td>0.76</td>
<td>1.03</td>
<td>0.76</td>
</tr>
<tr>
<td>(0.41,1.40)</td>
<td>(0.47,2.23)</td>
<td>(0.41,1.40)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.97</td>
<td>0.95</td>
<td>0.97</td>
</tr>
<tr>
<td>(0.42,2.24)</td>
<td>(0.39,2.28)</td>
<td>(0.42,2.24)</td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>1.42</td>
<td>1.42</td>
<td>1.42</td>
</tr>
<tr>
<td>(0.45,4.46)</td>
<td>(0.38,4.66)</td>
<td>(0.38,4.66)</td>
<td></td>
</tr>
</tbody>
</table>

**Self-reported diagnoses**

<table>
<thead>
<tr>
<th></th>
<th>South Africa</th>
<th>Mexico</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 1</td>
<td>0.40**</td>
<td>0.56</td>
<td>0.90</td>
</tr>
<tr>
<td>(0.26, 1.56)</td>
<td>(0.30, 1.65)</td>
<td>(0.12, 2.03)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.36**</td>
<td>0.87</td>
<td></td>
</tr>
<tr>
<td>(0.17, 1.25)</td>
<td>(0.55, 1.85)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>0.70</td>
<td>0.70</td>
<td></td>
</tr>
<tr>
<td>(0.30, 1.63)</td>
<td>(0.28, 1.75)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Male**

<table>
<thead>
<tr>
<th></th>
<th>South Africa</th>
<th>Mexico</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 1</td>
<td>0.74***</td>
<td>0.78**</td>
<td>0.86**</td>
</tr>
<tr>
<td>(0.64, 0.87)</td>
<td>(0.66, 0.93)</td>
<td>(0.76, 0.96)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.86**</td>
<td>0.91</td>
<td>0.99</td>
</tr>
<tr>
<td>(0.81, 1.01)</td>
<td>(0.85, 1.04)</td>
<td>(0.85, 1.04)</td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>0.96</td>
<td>1.12</td>
<td>1.71</td>
</tr>
<tr>
<td>(0.86, 1.08)</td>
<td>(0.94, 1.34)</td>
<td>(0.86, 1.08)</td>
<td></td>
</tr>
</tbody>
</table>

**Asset**

<table>
<thead>
<tr>
<th></th>
<th>South Africa</th>
<th>Mexico</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 1</td>
<td>0.74***</td>
<td>0.78**</td>
<td>0.86**</td>
</tr>
<tr>
<td>(0.64, 0.78)</td>
<td>(0.66, 0.93)</td>
<td>(0.76, 0.96)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.99</td>
<td>0.99</td>
<td>0.99</td>
</tr>
<tr>
<td>(0.81, 1.01)</td>
<td>(0.85, 1.04)</td>
<td>(0.85, 1.04)</td>
<td></td>
</tr>
<tr>
<td>Model 3</td>
<td>1.14</td>
<td>1.14</td>
<td>0.90</td>
</tr>
<tr>
<td>(0.98, 1.33)</td>
<td>(0.84, 1.09)</td>
<td>(0.82, 0.99)</td>
<td></td>
</tr>
</tbody>
</table>

**Education**

<table>
<thead>
<tr>
<th></th>
<th>South Africa</th>
<th>Mexico</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 1</td>
<td>0.96</td>
<td>0.96</td>
<td>1.02</td>
</tr>
<tr>
<td>(0.89, 1.04)</td>
<td>(0.85, 0.95)</td>
<td>(0.96, 1.08)</td>
<td></td>
</tr>
<tr>
<td>Model 2</td>
<td>0.90***</td>
<td>0.90***</td>
<td>1.00</td>
</tr>
<tr>
<td>(0.89, 1.04)</td>
<td>(0.85, 0.95)</td>
<td>(0.96, 1.08)</td>
<td></td>
</tr>
</tbody>
</table>

**Self-reported diagnoses**

<table>
<thead>
<tr>
<th></th>
<th>South Africa</th>
<th>Mexico</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 1</td>
<td>0.91</td>
<td>0.91</td>
<td>0.91</td>
</tr>
<tr>
<td>(0.83, 1.00)</td>
<td>(0.83, 1.00)</td>
<td>(0.83, 1.00)</td>
<td></td>
</tr>
</tbody>
</table>

Note: ** denotes significance at the p < 0.01 level; * denotes significance at the p < 0.05 level; * denotes significance at the p < 0.1 level.
### Visual Impairment

<table>
<thead>
<tr>
<th>Male</th>
<th>Asset</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model 1</strong></td>
<td><strong>Model 2</strong></td>
<td><strong>Model 3</strong></td>
</tr>
<tr>
<td>1.42 [0.78, 2.57]</td>
<td>1.44 [0.80, 2.59]</td>
<td>1.07 [0.53, 2.16]</td>
</tr>
<tr>
<td>1.03 [0.58, 1.84]</td>
<td>1.02 [0.53, 1.98]</td>
<td></td>
</tr>
<tr>
<td>1.06 [0.94, 1.20]</td>
<td>1.09 [0.96, 1.23]</td>
<td></td>
</tr>
</tbody>
</table>

### Depression

<table>
<thead>
<tr>
<th>Male</th>
<th>Asset</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model 1</strong></td>
<td><strong>Model 2</strong></td>
<td><strong>Model 3</strong></td>
</tr>
<tr>
<td>0.098 [0.03, 0.29]</td>
<td>0.17 [0.06, 0.43]</td>
<td>0.16 [0.04, 0.55]</td>
</tr>
<tr>
<td>0.67 [0.46, 1.00]</td>
<td>0.56 [0.19, 1.61]</td>
<td></td>
</tr>
<tr>
<td>0.91 [0.84, 0.98]</td>
<td>0.87 [0.76, 0.99]</td>
<td>0.98 [0.90, 1.07]</td>
</tr>
</tbody>
</table>

Notes: i) 95% confidence intervals in brackets; ii) *p < 0.05, **p < 0.01, ***p < 0.001; iii) dependent variable is symptom-based/criterion-based measure and self-reported diagnoses of each NCD, and is defined as 1 if the respondent had the NCD, and 0 if otherwise; iv) Male is dichotomous variable with female as reference category, asset is defined as the asset index of the household, and education is defined as years of education; v) Model 1 estimated unadjusted odds ratio by regressing each independent variable on NCD prevalence separately; Model 2 is adjusted for rural-urban, age, gender and asset, where Model 3 is adjusted for rural-urban, age, gender and education. Model 2 and 3 of symptom-based/criterion-based measures of each was also adjusted with a dichotomous variable of whether the respondent has taken medication/treatment or not.
Web Appendix Table 7: Summary of the socioeconomic pattern of prevalence between self-reported diagnoses and symptoms-based/criterion-based measures of specific NCDs in China, Ghana, India, Mexico, Russia, and South Africa

<table>
<thead>
<tr>
<th>Angina</th>
<th>Hypertension</th>
<th>Asthma and lung diseases</th>
<th>Visual impairments</th>
<th>Depression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptoms-based/criterion-based measures</td>
<td>Self-reported diagnoses</td>
<td>Symptoms-based/criterion-based measures</td>
<td>Self-reported diagnoses</td>
<td>Symptoms-based/criterion-based measures</td>
</tr>
<tr>
<td>Concentration of NCD among <strong>poor</strong></td>
<td>Ghana, India, China, Mexico, Russia</td>
<td>-</td>
<td>China, South Africa, Mexico, Russia</td>
<td>-</td>
</tr>
<tr>
<td>Concentration of NCD among <strong>less educated</strong></td>
<td>Ghana, India, South Africa, Mexico, Russia</td>
<td>South Africa</td>
<td>Ghana, India, China, South Africa, Russia</td>
<td>Russia</td>
</tr>
<tr>
<td>Concentration of NCD among <strong>rich</strong></td>
<td>South Africa*</td>
<td>Ghana, India, China, South Africa, Mexico</td>
<td>Ghana*, India*</td>
<td>Ghana, Mexico</td>
</tr>
<tr>
<td>Concentration of NCD among <strong>more educated</strong></td>
<td>China*</td>
<td>Ghana, India, China, Mexico, Russia</td>
<td>Mexico</td>
<td>Ghana, South Africa, Mexico</td>
</tr>
</tbody>
</table>

*With trends in attenuation (turned to less positive) in the magnitude of inequality by detecting more prevalence cases from lower SES*
Web Appendix Table 8: Age-adjusted prevalence rate (in %, with 95% CI) of NCDs among men and women, measured through self-reported diagnoses and symptoms-based/criterion-based measure, among adult population in China, Ghana, India, Mexico, Russia, and South Africa

<table>
<thead>
<tr>
<th></th>
<th>Angina</th>
<th>Hypertension</th>
<th>Asthma and chronic lung diseases</th>
<th>Visual impairment</th>
<th>Depression</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Symptoms-based measure</td>
<td>Self-reported diagnoses</td>
<td>Criterion-based measure</td>
<td>Self-reported diagnoses</td>
<td>Criterion-based measure</td>
</tr>
<tr>
<td>Ghana</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>2.7[1.7; 3.7]</td>
<td>0.9[0.6; 1.3]</td>
<td>43.8[40.1; 47.5]</td>
<td>6.2[4.2; 8.1]</td>
<td>1.5[0.9; 2.1]</td>
</tr>
<tr>
<td>Women</td>
<td>5.0[3.6; 6.4]</td>
<td>2.5[1.2; 3.9]</td>
<td>42.9[38.8; 47.0]</td>
<td>9.4[7.1; 11.6]</td>
<td>1.7[0.5; 2.8]</td>
</tr>
<tr>
<td>All Sample</td>
<td>3.9[3.0; 4.8]</td>
<td>1.7[1.0; 2.3]</td>
<td>42.2[39.4; 45.0]</td>
<td>7.4[6.0; 8.8]</td>
<td>1.4[0.8; 2.1]</td>
</tr>
<tr>
<td>India</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>6.2[4.8; 7.5]</td>
<td>3.2[2.4; 4.0]</td>
<td>19.3[17.3; 21.4]</td>
<td>7.0[5.8; 8.2]</td>
<td>5.0[3.9; 6.1]</td>
</tr>
<tr>
<td>All Sample</td>
<td>7.0[6.2; 7.8]</td>
<td>3.1[2.6; 3.6]</td>
<td>19.1[17.9;20.3]</td>
<td>9.4[8.6;10.2]</td>
<td>5.2[4.6;5.9]</td>
</tr>
<tr>
<td>China</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>1.0[0.6; 1.4]</td>
<td>3.2[2.1; 4.4]</td>
<td>41.1[38.1; 44.1]</td>
<td>10.4[8.9; 11.8]</td>
<td>0.9[0.6; 1.2]</td>
</tr>
<tr>
<td>Women</td>
<td>1.9[1.2; 2.6]</td>
<td>4.3[3.5; 5.2]</td>
<td>35.0[32.5; 37.4]</td>
<td>12.2[10.8; 13.7]</td>
<td>2.0[1.3; 2.7]</td>
</tr>
<tr>
<td>All Sample</td>
<td>1.4[1.0; 1.8]</td>
<td>3.8[3.1; 4.5]</td>
<td>38.0[36.0; 40.0]</td>
<td>11.3[10.2;12.4]</td>
<td>1.4[1.1; 1.7]</td>
</tr>
<tr>
<td>South Africa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>0.7[0.4; 1.0]</td>
<td>1.4[0.7; 2.1]</td>
<td>55.4[48.5; 62.3]</td>
<td>7.4[6.1; 8.6]</td>
<td>1.0[0.4; 1.6]</td>
</tr>
<tr>
<td>Women</td>
<td>2.2[1.1; 3.3]</td>
<td>3.9[1.2; 6.7]</td>
<td>46.7[41.3; 52.1]</td>
<td>11.8[9.6; 14.0]</td>
<td>0.6[0.3; 0.9]</td>
</tr>
<tr>
<td>All Sample</td>
<td>1.6[0.8;2.3]</td>
<td>2.7[1.4;3.9]</td>
<td>49.1[43.5;54.7]</td>
<td>9.9[8.5;11.4]</td>
<td>0.8[0.5;1.2]</td>
</tr>
<tr>
<td>Mexico</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>4.0[2.0; 5.9]</td>
<td>0.5[0.2; 0.7]</td>
<td>33.3[27.1; 39.4]</td>
<td>10.0[7.7; 12.4]</td>
<td>3.8[-0.6; 8.3]</td>
</tr>
<tr>
<td></td>
<td>Min</td>
<td>Mid</td>
<td>Max</td>
<td>Min</td>
<td>Mid</td>
</tr>
<tr>
<td>----------------</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td><strong>Women</strong></td>
<td>8.2</td>
<td>15.7</td>
<td>27.3</td>
<td>0.5</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>All Sample</strong></td>
<td>6.5</td>
<td>13.2</td>
<td>27.7</td>
<td>1.2</td>
<td>6.6</td>
</tr>
<tr>
<td><strong>Russia</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Men</strong></td>
<td>14.0</td>
<td>42.2</td>
<td>44.2</td>
<td>0.3</td>
<td>4.7</td>
</tr>
<tr>
<td><strong>Women</strong></td>
<td>16.7</td>
<td>41.8</td>
<td>44.0</td>
<td>0.3</td>
<td>5.5</td>
</tr>
<tr>
<td><strong>All Sample</strong></td>
<td>15.7</td>
<td>41.9</td>
<td>43.7</td>
<td>0.3</td>
<td>5.5</td>
</tr>
</tbody>
</table>

*Source: WHO SAGE survey, 2007-10*
Web Appendix Table 9: Age-adjusted wealth-related and education-related concentration index (in %, with 95% CI) of disease, measured through self-reported diagnoses and symptoms-based/criterion-based measures, among adult men and women in China, Ghana, India, Mexico, Russia, and South Africa

<table>
<thead>
<tr>
<th>Disease</th>
<th>Wealth-related concentration index</th>
<th>Education-related concentration index</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Men</td>
<td>Women</td>
</tr>
<tr>
<td>Symptom-based/criterion-based measure</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Angina</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ghana</td>
<td>-0.20[-0.22;-0.18]</td>
<td>0.09[0.07; 0.10]</td>
</tr>
<tr>
<td>India</td>
<td>-0.24[-0.26;-0.23]</td>
<td>0.05[0.04; 0.05]</td>
</tr>
<tr>
<td>China</td>
<td>-0.06[-0.06;-0.05]</td>
<td>0.16[0.15; 0.16]</td>
</tr>
<tr>
<td>South Africa</td>
<td>-0.32[-0.37;-0.26]</td>
<td>0.42[0.34; 0.50]</td>
</tr>
<tr>
<td>Mexico</td>
<td>-0.48[-0.57;-0.39]</td>
<td>0.21[0.13; 0.28]</td>
</tr>
<tr>
<td>Russia</td>
<td>0.00[-0.01; 0.01]</td>
<td>-0.01[-0.03; 0.00]</td>
</tr>
<tr>
<td><strong>Hypertension</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ghana</td>
<td>0.01[0.01; 0.02]</td>
<td>0.45[0.42; 0.48]</td>
</tr>
<tr>
<td>India</td>
<td>0.06[0.05; 0.06]</td>
<td>0.21[0.20; 0.23]</td>
</tr>
<tr>
<td>China</td>
<td>0.00[0.00; 0.00]</td>
<td>0.12[0.12; 0.13]</td>
</tr>
<tr>
<td>South Africa</td>
<td>0.02[0.01; 0.04]</td>
<td>0.11[0.08; 0.15]</td>
</tr>
<tr>
<td>Mexico</td>
<td>-0.01[-0.03; 0.00]</td>
<td>0.18[0.13; 0.23]</td>
</tr>
<tr>
<td>Russia</td>
<td>-0.11[-0.13; -0.10]</td>
<td>0.08[0.07; 0.08]</td>
</tr>
<tr>
<td><strong>Asthma and chronic lung disease</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ghana</td>
<td>-0.11[-0.13; -0.09]</td>
<td>0.00[-0.02; 0.02]</td>
</tr>
<tr>
<td>India</td>
<td>-0.06[-0.06; -0.05]</td>
<td>0.02[0.01; 0.02]</td>
</tr>
<tr>
<td>China</td>
<td>-0.27[-0.28; -0.26]</td>
<td>0.26[0.24; 0.28]</td>
</tr>
<tr>
<td>South Africa</td>
<td>-0.08[-0.11; -0.05]</td>
<td>-0.22[-0.29; -0.15]</td>
</tr>
<tr>
<td>Mexico</td>
<td>0.77[0.65; 0.89]</td>
<td>-0.28[-0.35; -0.21]</td>
</tr>
<tr>
<td>Russia</td>
<td>-0.22[-0.26; -0.19]</td>
<td>-0.16[-0.19; -0.12]</td>
</tr>
<tr>
<td><strong>Visual impairment</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Country</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
<th>A4</th>
<th>A5</th>
<th>A6</th>
<th>A7</th>
<th>A8</th>
<th>A9</th>
<th>B1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ghana</td>
<td>0.12</td>
<td>0.35</td>
<td>0.04</td>
<td>0.14</td>
<td>0.08</td>
<td>0.08</td>
<td>0.07</td>
<td>0.05</td>
<td>0.06</td>
<td>0.06</td>
</tr>
<tr>
<td>India</td>
<td>0.18</td>
<td>0.35</td>
<td>0.04</td>
<td>0.09</td>
<td>0.09</td>
<td>0.09</td>
<td>0.08</td>
<td>0.07</td>
<td>0.07</td>
<td>0.07</td>
</tr>
<tr>
<td>China</td>
<td>0.02</td>
<td>0.54</td>
<td>0.03</td>
<td>0.11</td>
<td>0.11</td>
<td>0.11</td>
<td>0.10</td>
<td>0.10</td>
<td>0.10</td>
<td>0.10</td>
</tr>
<tr>
<td>South Africa</td>
<td>0.06</td>
<td>0.28</td>
<td>0.11</td>
<td>0.07</td>
<td>0.07</td>
<td>0.07</td>
<td>0.06</td>
<td>0.06</td>
<td>0.06</td>
<td>0.06</td>
</tr>
<tr>
<td>Mexico</td>
<td>0.36</td>
<td>0.36</td>
<td>0.08</td>
<td>0.44</td>
<td>0.44</td>
<td>0.44</td>
<td>0.43</td>
<td>0.43</td>
<td>0.43</td>
<td>0.43</td>
</tr>
<tr>
<td>Russia</td>
<td>0.02</td>
<td>0.29</td>
<td>0.01</td>
<td>0.07</td>
<td>0.07</td>
<td>0.07</td>
<td>0.07</td>
<td>0.07</td>
<td>0.07</td>
<td>0.07</td>
</tr>
</tbody>
</table>

**Notes:** i. Source: WHO SAGE survey, 2007-10; ii. Negative values indicate concentration of disease among lower SES, and positive values indicate concentration among higher SES. The symptom-based/criterion-based measures of each NCD was adjusted with age, and a dichotomous variable of whether the respondent has taken medication/treatment or not.
Web Appendix Figure 1: Age-adjusted prevalence of symptoms-based/diagnosis-based measures of diseases among adult population in China, Ghana, India, Mexico, Russia, and South Africa, by wealth quintiles

Source: WHO SAGE survey, 2007-10