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**Income-related inequality in health among older people in China: Measurement and Decomposition analysis**

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**Ethics approval and consent to participate:** The CLHLS study was approved by research ethics committees of Duke University and Peking University (IRB00001052–13074). All participants provided written informed consent. No experimental interventions were performed. An exempted Institutional Review Board (IRB) protocol was approved by Duke University (Pro00062871).

**﻿Consent for publication:** Not applicable.

**﻿Availability of data and materials:** The CLHLS datasets and questionaries are publicly available at Peking University Open Research Data Repository (https://opendata.pku.edu.cn/dataset.xhtml?persistentId=doi:10.18170/DVN/WBO7LK). Researchers may obtain the datasets after sending a data user agreement to the CLHLS team.

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Supplementary Table 1. Concentration index for SRH and ADL ability

|  |  |  |
| --- | --- | --- |
|  | SRH | Having ADL limitations |
| Unstandardized CI | 0.014 | -0.066 |
| Standardized CI | 0.013 | -0.045 |

Supplementary Table 2. Determinants of SRH and ADL ability

|  |  |  |
| --- | --- | --- |
|  | SRH | ADL ability |
| Demographic variables | |  |
| Age | -0.010 (0.002) \*\*\* | 0.022 (0.001) \*\*\* |
| Gender | 0.117 (0.030) \*\*\* | -0.016 (0.018) |
| Socioeconomic variables | | |
| Income | 0.064 (0.009) \*\*\* | -0.022 (0.002) \*\*\* |
| Education (Ref: Illiteracy) |  |  |
| Elementary school | -0.048 (0.038) | -0.064 (0.019) \*\*\* |
| Middle school and above | -0.221 (0.065) \*\*\* | -0.094 (0.028) \*\*\* |
| Having medical insurance | -0.047 (0.048) | 0.001 (0.027) |
| Marital status | 0.066 (0.033) \*\* | 0.002 (0.018) |
| Residence (Ref: City) |  |  |
| Town | 0.089 (0.042) \*\* | -0.092 (0.029) \*\*\* |
| Rural | 0.131 (0.043) \*\*\* | -0.101 (0.030) \*\*\* |
| Regions (Ref: North) |  |  |
| Northeast | -0.018 (0.100) | 0.064 (0.059) |
| East | -0.177 (0.067) \*\*\* | -0.029 (0.043) |
| South Central | -0.278 (0.067) \*\*\* | -0.060 (0.042) |
| Northwest | --0.348 (0.158) \*\* | 0.057 (0.079) |
| Southwest | -0.272 (0.074) \*\*\* | -0.060 (0.045) |
| Constant | 3.643 (0.203) \*\*\* | -1.102 (0.143) \*\*\* |
| N | 10,078 | |

Supplementary Table 3. Decomposition results of SRH and ADL ability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | CI | Self-rated health | | ADL ability | |
|  | Contribution | Relative contribution | Contribution | Relative contribution |
| Age | -0.002 | 0.000 | 0.04% | 0.000 | 0.44% |
| Gender | 0.005 | 0.001 | 1.30% | 0.000 | 0.84% |
| Income | 0.087 | 0.006 | 11.93% | -0.002 | 19.80% |
| Education |  |  |  |  |  |
| Elementary school | 0.163 | -0.008 | -16.96% | -0.011 | 106.67% |
| Middle school and above | 0.385 | -0.085 | -182.73% | -0.036 | 367.63% |
| Having medical insurance | -0.004 | 0.000 | 0.41% | 0.000 | 0.06% |
| Marital status | 0.006 | 0.000 | 0.90% | 0.000 | -0.13% |
| Residence |  |  |  |  |  |
| Town | -0.106 | -0.009 | -20.28% | 0.010 | -98.28% |
| Rural | -0.172 | -0.023 | -48.56% | 0.017 | -176.10% |
| Regions |  |  |  |  |  |
| Northeast | 0.136 | -0.002 | -5.26% | 0.009 | -88.47% |
| East | 0.020 | -0.003 | -7.50% | -0.001 | 5.79% |
| South Central | -0.091 | 0.025 | 54.41% | 0.005 | -55.43% |
| Northwest | -0.178 | 0.062 | 133.03% | -0.010 | 103.70% |
| Southwest | -0.053 | 0.014 | 31.10% | 0.003 | -32.19% |