

**Additional file 1: The question about causes of care needs in the Long-term Care Questionnaire of the Comprehensive Survey of Living Conditions in 2010, 2013 and 2016**

Question: What are the causes that have led to your care needs?

**Please circle all applicable numbers** and enter **one** of the primarily causes in the primarily cause column.

|                                |                                                                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1. Cerebrovascular diseases    | ...Cerebral hemorrhage, cerebral infarction, subarachnoid hemorrhage, other cerebrovascular diseases and sequelae, etc.       |
| 2. Heart diseases              | ...Angina pectoris, myocardial infarction, arrhythmia, myocarditis, and other heart diseases                                  |
| 3. Malignant neoplasms         | ...All cancer (including leukemia) and sarcoma                                                                                |
| 4. Respiratory disease         | ...Pulmonary emphysema, pneumonia, bronchitis, pleural disease, etc.                                                          |
| 5. Arthropathies               | ...Rheumatoid arthritis, arthritis due to some cause, arthropathy, low back pain                                              |
| 6. Dementia                    | ...Dementia (Alzheimer's disease, etc.)                                                                                       |
| 7. Parkinson's disease         |                                                                                                                               |
| 8. Diabetes mellitus           | ...Diabetes and complications such as diabetic nephropathy and diabetic retinopathy                                           |
| 9. Visual / hearing impairment | ...Glaucoma, retinal detachment, hearing loss, etc.                                                                           |
| 10. Bone fracture / fall       | ...Fractures or falls for some reason, indoors or outdoors                                                                    |
| 11. Spinal cord injury         | ...Impairment of spinal cord function due to spinal cord contusion, rupture, or blood circulation disorder, caused by trauma. |
| 12. Infirmary due to aging     | ...Those who have not been diagnosed with any particular illness but are old and have weakened physical function.             |
| 13. Other disease or injury    | ...Please fill in specifically ( )                                                                                            |
| 14. Unknown                    |                                                                                                                               |

No. of primarily cause (please select one from the circled): \_\_\_\_\_