

## Appendix 1

### 1. Socio-economic Data

Indonesia has only one nationally representative data set on socio-economic conditions called the National Socio-economic Survey (Survei Sosial Ekonomi Nasional, SUSENAS). It is a series of large-scale multipurpose socio-economic surveys initiated in 1963-1964. SUSENAS is a repeated cross-section survey conducted by BPS every year, which nationally representative, down to the district level. The survey records 300,000 households as the respondents, which equals to around 1.2 million individuals. The sample is drawn based on census blocs using two-stage stratified sampling. Frequency weights are provided which give counts that reflect the country's true population.

Each SUSENAS survey contains a core questionnaire which consists of a household roster listing the socio-economic characteristics at the household and individual levels. The core questionnaire is supplemented by modules capturing information on household's expenditure on food and non-food items including health, education, and transportation.

### 2. Individual information in SUSENAS

This study employs SUSENAS 2019 which enumerated individuals for: (1) smoking status (current smokers, former, and never smokers); (2) health status (self-perceived health status and self-reported illness); and (3) health care utilization (visits, admission, type of providers sought). While outpatient visits were recorded in monthly basis, inpatient treatment was asked to capture information in the past twelve months. Thus, to make the number consistent, the outpatient visits were transformed into annual basis by multiplying the number by twelve. The questionnaire of the 2019 Susenas demographic module can be seen at [https://sirusa.bps.go.id/webadmin/kuesioner/2019\\_14\\_ques\\_VSEN19.MKP.pdf](https://sirusa.bps.go.id/webadmin/kuesioner/2019_14_ques_VSEN19.MKP.pdf).

Table App 1. List of Questions in SUSENAS 2019 Core

Code	Questions
R405	Gender (1=Male; 2=Female)
R407	Age
R1102	Does (individual) experience illness in the past month
R1103	Does the illness affect daily activity
R1104	Does (individual) seek for self-treatment
R1105	Does (individual) seek for outpatient visit in the past month
R1203	How many days does (individual) in the past twelve months receive inpatient treatment
R1206	In the past month does (individual) smoke tobacco cigarette
R1208	Does (individual) consume tobacco cigarette prior to the past month

Source: Statistics Indonesia

### 3. Health Expenditure Data in SUSENAS

The SUSENAS 2019 extends the benefit over the previous SUSENAS. Since 2018, SUSENAS has undergone significant changes to capture detail information on the health spending. It not only captures information on total spending for curative and medicine expenditure by type of health facilities, but also probing the information down to the actual spending paid by the households (out-of-pocket spending). Consequently, SUSENAS 2019 eliminates the imputed values to the health care spending when the respondents answered that they did not spend money for health care treatment as it is covered by an

insurance provider. The questionnaire of the 2019 Susenas consumption module can be seen at [https://sirusa.bps.go.id/webadmin/kuesioner/2019\\_1558\\_ques\\_VSEN19\\_Sept.KP.pdf](https://sirusa.bps.go.id/webadmin/kuesioner/2019_1558_ques_VSEN19_Sept.KP.pdf)

Table App 2. List of Questions in SUSENAS 2019 used for analysis

Household health care expenditure (by code)	
Curative health care expenditure	
239	Total health care spending in public hospital
239a	Outpatient out of pocket expenditure in the past year in public hospital
239b	Inpatient out of pocket expenditure in the past year in public hospital
240	Total health care spending in private hospital
240a	Outpatient out of pocket expenditure in the past year in private hospital
240b	Inpatient out of pocket expenditure in the past year in private hospital
241	Health care expenditure at primary health care facilities
241a	Outpatient out of pocket spending at Puskesmas in the past year
241b	Inpatient out of pocket spending at Puskesmas in the past year
241c	Health care out of pocket spending at Pustu
241d	Health care out of pocket spending at Polindes
241e	Health care out of pocket spending at Posyandu
242	Health care spending on Doctor or Clinic visit
242a	Health care out of pocket spending on Doctor or Clinic visit
243	Health care spending on medical staff (midwife, nurse, other medical staff) consultation
243a	Health care out of pocket spending on medical staff consultation
244	Health care spending on traditional treatment
244a	Health care out of pocket spending on traditional treatment
245	Health care spending on traditional midwife consultation
245a	Health care out of pocket spending on traditional midwife consultation
Medical Expenses	
246	Medical expense for medical receipt from Doctor, Midwife, or Nurse
246a	Medical out of pocket spending for medical receipt from Doctor, Midwife, or Nurse
247	Medical expense for modern drugs without receipt
247a	Medical out of pocket spending for modern drugs without receipt
248	Medical expense for traditional drugs
248a	Medical out of pocket spending for traditional drugs
Transportation Expenses	
261a	Transportation cost to health facility in the past year
261b	Ambulance cost in the past year
262a	Air transportation cost to health facility in the past year
263a	Sea transportation to health facility in the past year

Source: Statistics Indonesia