# Health data in South Korea

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Overview

Korean Health Panel Study (KHPS)

National Health Insurance Service (NHIS) claims data

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### List of Korean datasets on health

- 1. Korean Health Panel Study (KHPS)
- 2. National Health Insurance Service (NHIS) claims data
- 3. Korean National Health and Nutrition Examination Survey (KNHANES)

Overview

Korean Health Panel Study (KHPS)

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### What's inside?

- Demographic and socioeconomic variables
  - Individual and household income
  - Educational attainment
- Health care utilization
  - Outpatient / inpatient / emergency care
  - Unit of observations: visit level
- Health behaviors
  - Smoking / drinking / exercise
  - Consumption amount denoted in categories, not continuous
  - Based on the action before the survey date
- Vital
  - Death and birth
  - Not many

# Who's inside?

- Sample size
  - Household: 7,000 / Individual: 21,000
  - Not big enough for rare outcome analysis
- Panel structure
  - 2008 2018
  - 2 cohorts: 2008-2018 / 2014 2018

# How to get access

- Request access here (Korean / English)
  - All you need to do is sign the consent form
- Access to the file: physical
  - Data will be sent to you by email
- Difficulty: 2 (easy)

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#### What's inside?

- Beneficiary information
  - Health insurance type
  - No income, but health insurance premium
  - No education
- Health care utilization
  - T20: visit level (diagnosis / payment / surgery)
  - T30: procedures
  - T40: additional diagnosis
  - T60: prescription
- Vital
  - Death and birth
  - Usually large enough for analysis

### T20 health care visit dataset

- Diagnosis
  - Coded using KOICD (ICD-10 codes in Korean)
  - Many are masked in the Standard Cohort Database
- Coinsurance Reduction Program for Rare and Severe Diseases
  - Can be used to identify cancer diagnosis
- Payment
  - Amount paid by the beneficiary
  - Amount paid by NHIS

# T30 procedures

- Procedure codes are hard to find
  - Need to look at Health Insurance Review and Assessment Service procedure codes (Link)
  - Only in PDF format, not in Excel

# Who's inside?

- Sample size
  - Standard Cohort Database: 1 million random sample
  - Can be customized
  - No household or family relationship
- Panel structure
  - 2002 2019

# How to get access

- Request access here (Korean / English)
  - Need IRB exemption ⇒ MUST BE IN KOREAN!
  - Detailed research proposal
- Access to the file: virtual
  - NEED TO BE PHYSICALLY IN KOREA
  - Standard Cohort Database: VPN access
  - Customized database: need to go to research data center
- Difficulty: 4 (difficult)
  - A lot of hassle and inefficiencies
  - Expensive
  - Strongly recommend calling NHIS even before IRB stage (Emails are not answered)

#### Caveats

- Data do not include private care (비급여)
  - Only hospital visits that generate insurance claims
- Cancer screenings are stored in separate datasets
  - Not included in T30
  - Need to be requested separately (call first)
- Importing external data and exporting research output is difficult
  - Sometimes, external Stata packages are not allowed (I KNOW!)
  - Exporting research output requires approval and takes a long time
  - Only 10 files a day are allowed (be aware of image resolutions)
- Expensive and data not well documented

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