Hasan’s projects

**Project A. Projecting smoking rates and lung cancer incidence and mortality in Japan**

The overall aim is to better understand the trends in lung cancer in Japan (as compared to those in other countries) and to estimate the impact of change in smoking prevalence on the future lung cancer trends in the Japanese population.

Step 1: Comparison of lung cancer (ICD-10 C33-34) incidence and mortality trends (past and future) across several countries (e.g., please see below) including Japan

Relevant publications:

Nguyen PT, Katanoda K, Saito E, Hori M, Nakayama T, Matsuda T. Trends in lung cancer incidence by gender, histological type and stage at diagnosis in Japan, 1993 to 2015: A multiple imputation approach. Int J Cancer. 2022 Jul 1;151(1):20-32. doi: 10.1002/ijc.33962. Epub 2022 Feb 22. PMID: 35138642; PMCID: PMC9303961.

Luo G, Zhang Y, Etxeberria J, Arnold M, Cai X, Hao Y, Zou H. Projections of Lung Cancer Incidence by 2035 in 40 Countries Worldwide: Population-Based Study. JMIR Public Health Surveill. 2023 Feb 17;9:e43651. doi: 10.2196/43651. PMID: 36800235; PMCID: PMC9984998.

Data sources:

CI5plus database (cancer incidence) <https://gco.iarc.fr/overtime/en/database>

WHO Mortality Database (cancer mortality) <https://www.who.int/data/data-collection-tools/who-mortality-database>

Information about these databases: <https://gco.iarc.fr/overtime/en/database>

Step 2: Projection of lung cancer incidence and mortality in Japan according to different scenarios determined by change in smoking prevalence (i.e., if we reach a smoking prevalence of 10% in men by 2030, how many lung cancer deaths can we prevent by 2030?)

Possibly, we can investigate this by prefecture as well (if we think it is valuable/informative)

Relevant publication:

Yang SL, Togawa K, Gilmour S, Leon ME, Soerjomataram I, Katanoda K. Projecting the impact of implementation of WHO MPOWER measures on smoking prevalence and mortality in Japan. Tob Control. 2022 Sep 13:tobaccocontrol-2022-057262. doi: 10.1136/tc-2022-057262. Epub ahead of print. PMID: 36100264.

Data sources:

Smoking prevalence in Japanese adults <https://www.health-net.or.jp/tobacco/statistics/kokumin_kenkou_eiyou_report.html>

NCC’s ganjoho service: <https://ganjoho.jp/reg_stat/statistics/data/dl/en.html>

**Project B. Tobacco advertisement/promotion/sponsorship and perceptions and use of heated tobacco products (HTP) in Japanese youths**

The overall aim is to investigate the impacts of TAPS on young people’s perceptions of HTP and interests in and actual use (including trials) of HTP in Japan.

Step 1: literature review

Step 2: get familiar with the JASTIS study data

Step 3: develop analysis plans

Step 4: data analysis (including sharing preliminary results)

Step 5: finalize the analysis and write a manuscript (it can be done in parallel)

**Data source:**

JASTIS Study (a web-based cohort study)

2022 and 2023 surveys