Supplement 1 Flow chart of patient selection based on the National Health Insurance Service data

Study patients from 214 hospitals (n=129,923)

Patients who died in-hospital (n=4822)
Patients who were readmitted within 30 days after discharge (n=1663)
Patients who underwent surgery at 364 hospitals that discharged fewer than 24 patients during 2014 and 2015 (n=1972)

Patients who underwent 12 types of surgery at general and tertiary hospitals between January 2014 and December 2015 (N=138,318 from 578 hospitals)