

# Development of disease-based stratified random sampling package for internal medical record audition: The First step

## Abstract

**Introduction:** Medical record auditing plays a important role in improving the quality of medical records. The disease-based stratified sampling method aims to enhance the efficiency of appropriately selecting records for audition. However, the practical implementation of this sampling technique is complicate. To comply the sampling rule that regulate by the strategy and planning division require for sampling application.

**Objective:** To develop disease-based stratified random sampling package

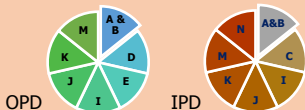
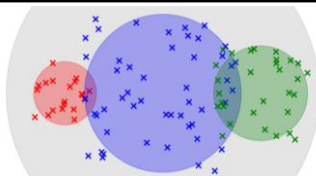
**Method:** This study utilized Stata, a standard statistical software program, to develop the sampling procedure. A user-written command was specifically created to facilitate disease-based stratified sampling by standard simple random sampling command.

**Result:** The developed command was made and can be accessed on the GitHub platform for broader usability.

**Discussion:** The utilization of Stata, necessitates the acquisition of a software license. Additionally, the medical record dataset must be cleaned prior to importing.

**Recommendation:** This code can be a protocol for develop with tkinter, a popular python based library

## Disease-based sampling schematic diagram



## All charts



```
1 *****
2 use ipd_opd_stratified_sampling.dta,clear
3 destring hn,replace
4 *****stratified sampling the audition procedure*****
5 gen diag_group=substr(pdx,1,1)
6 gen d_diag_group_number=substr(pdx,2,2) if
7 destring d_diag_group_number,replace
8 count if diag_group=="A" | diag_group=="B"
9 drop if diag_group=="A"
10 drop if status=="ipd"
11 *****There are missing in the principles diag
12 *****IPD=412*****
13 *****Start sampling*****
14 set seed 1234
15 sample 4 if diag_group=="A" | diag_group=="B",count
16 sample 2 if d_diag_group_number>=50 & d_diag_group_number<=100,count
17 *****End of the sampling*****
```



Thai version

HOSxP



STATA 18



HOSMERGE

HOSMERGE

Health insurance unit,  
Chaiprakan hospital

Kingkaew Pakornkitarpa, RN.  
Suppachai Lawanaskol, MD.