

Development of disease-based stratified random sampling package for internal medical record audition: Step 1

Abstract

Introduction: Medical record auditing plays an 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 complex. To comply with the sampling rule that is regulated by the strategy and planning division required for sampling application.

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

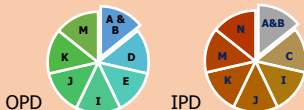
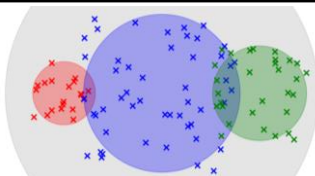
Method: This study utilized Stata, a standard statistical software program, to develop the sampling procedure. A user-written command was specifically created to facilitate disease-based stratified sampling using a standard simple random sampling command.

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

Discussion: Utilizing Stata necessitates acquiring a software license. Additionally, the medical record dataset must be cleaned before importing.

Recommendation: This code can be a protocol to 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 process*****
5 gen diag_group = substr(pdx, 1, 1)
6 gen d_diag_group_number = substr(pdx, 2, 2)
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 principle diag group*****
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 diag_group == "C", count
17 *****End sampling*****
```



Thai version

HOSxP



STATA 18



HOSMERGE

HOSMERGE

Health insurance unit,
Chaiprakan hospital

Kingkaew Pakornkitarpa, RN.
Suppachai Lawanaskol, MD.