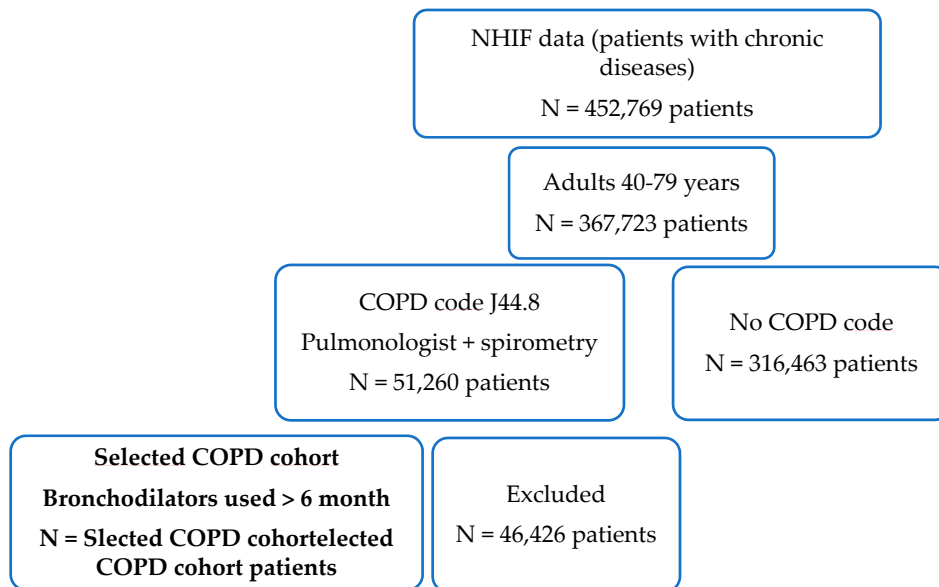


**Table S1.** The list of chronic diseases associated with ICD-10-AM.

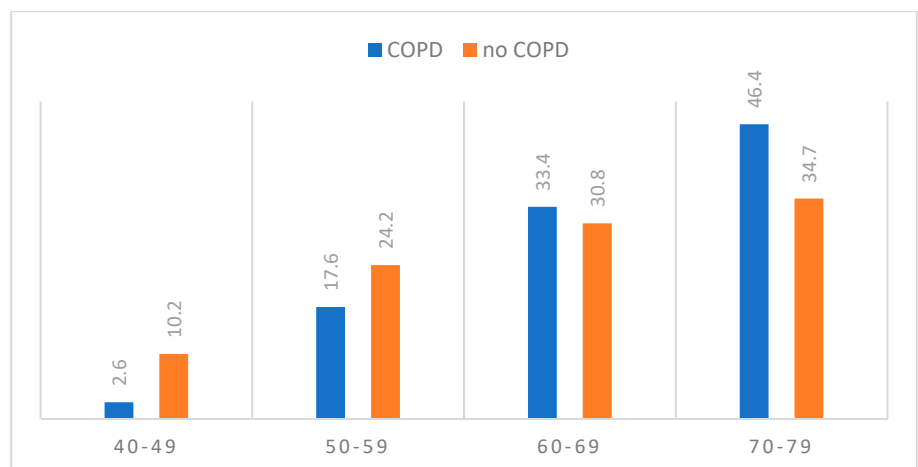
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2	Anaemia D50
3	Hypothyrosis E02; E03; E89.0
4	Diabetes E10.0-E10.9; E11.0-E11.9
5	Obesity E66
6	Dyslipidaemia E78
7	Dementia F00.0-F00.9; G30.0-G30.9; F01.0-F01.9; F02.0-F02.8; F03
8	Mental disorders F20.0-F20.9; F30.0-F39; F40.00-F40.9; F41.0-F41.9; F42.0-F42.9; F43.0-F43.9
9	Parkinson's disease G20
10	Multiple sclerosis G35
11	Epilepsy G40.00-G40.91
12	Sleep apnoea G47.3
13	Back pain G54.1; G54.4; G55.1; M51
14	Glaucoma H40-H42
15	Blindness H53-H54
16	Hearing loss H90.0-H90.8; H91.0-H91.9
17	Hypertension I10-I15
18	Ischaemic heart disease I20-I25
19	Arrhythmias I44-I49
20	Heart failure I50.0-I50.9
21	Intracranial bleeding I61-I62
22	Stroke I63-I64; I69
23	Chronic obstructive pulmonary disease J44.0-J44.9; J96
24	Asthma J45.0-J45.9
25	Inflammatory bowel disease K50; K51
26	Psoriasis L40.0-L40.9
27	Rheumatoid arthritis M05-M06
28	Gout M10.0-M10.99
29	Osteoarthritis M15-M19
30	Systemic lupus erythematosus M32
31	Osteoporosis M80-M82
32	Renal failure N18-N19

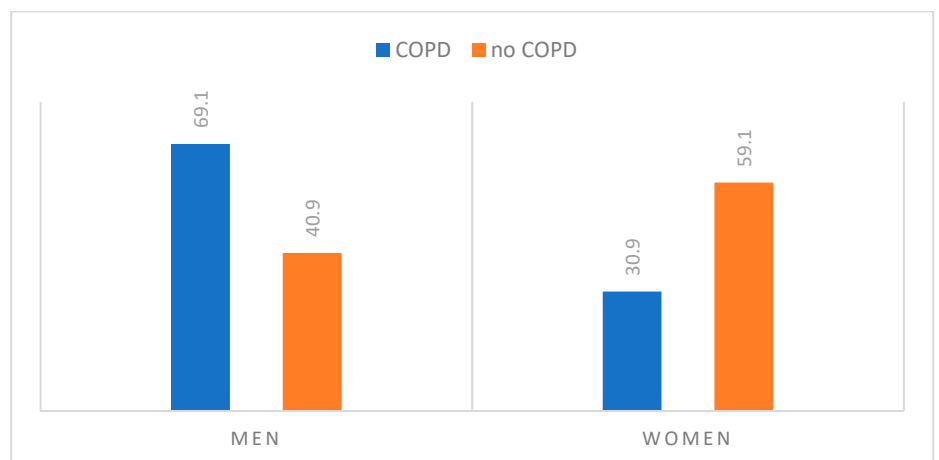
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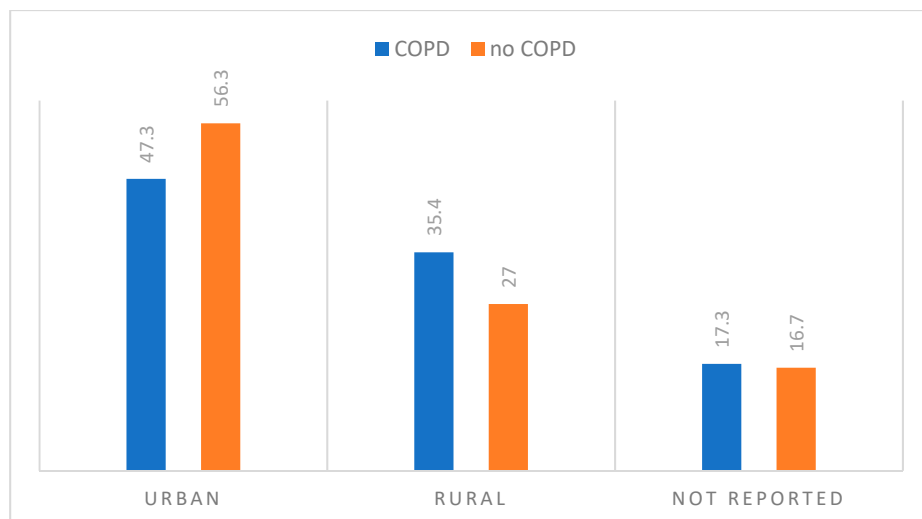
**Chart S1:** The flow diagram summarizing the process of enrolment.



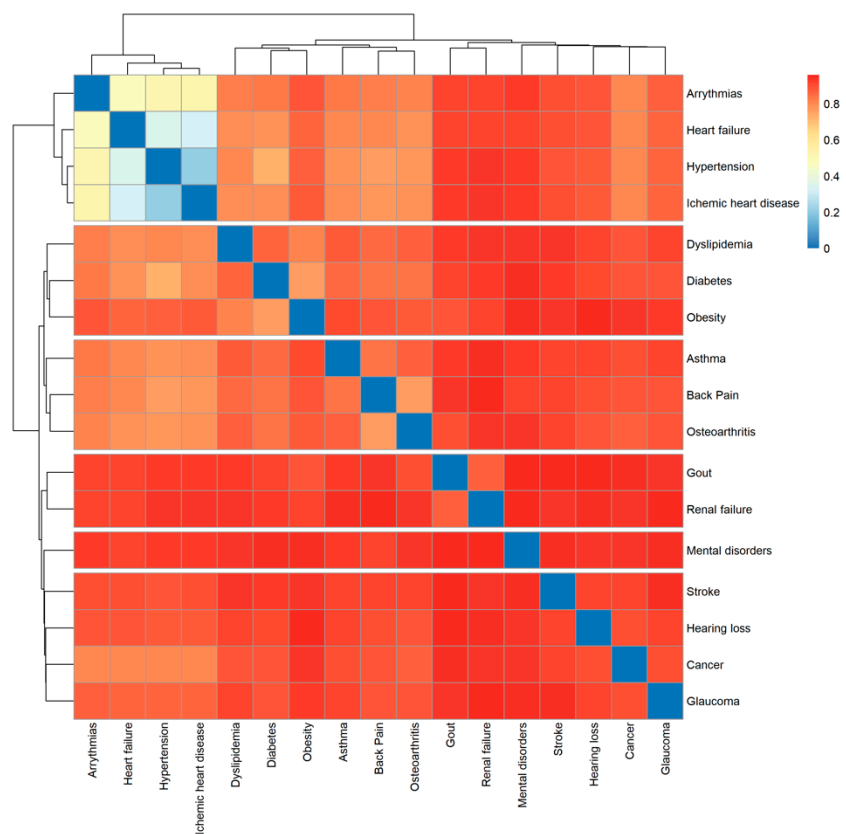
**Chart S2:** Distribution according to age.



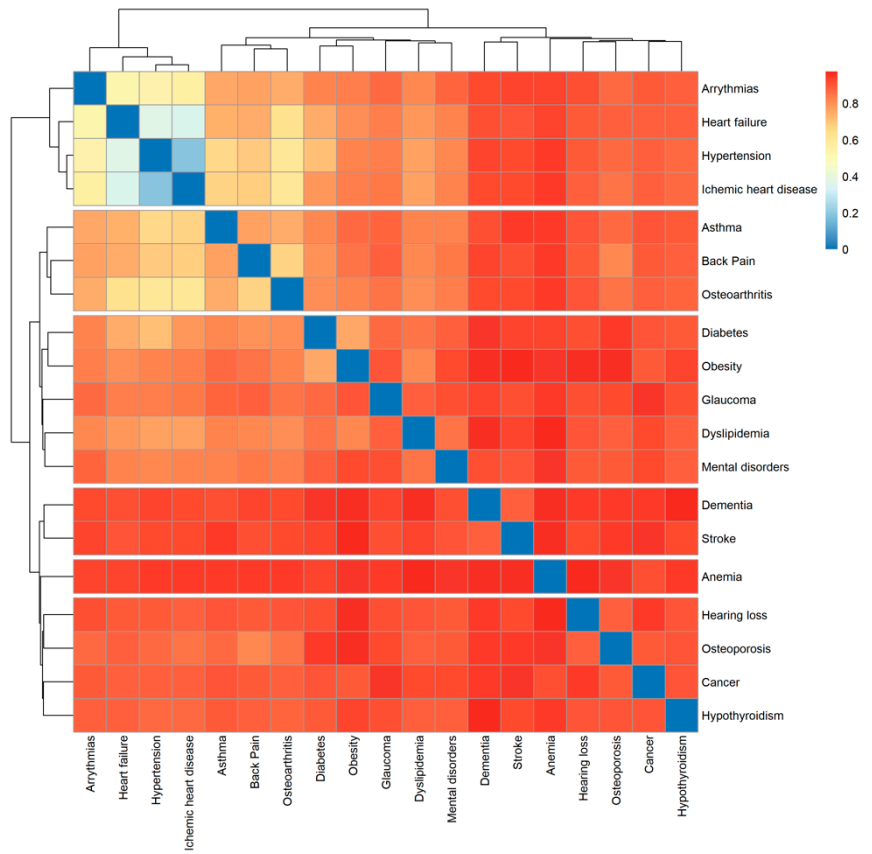
**Chart S3:** Distribution according to sex.



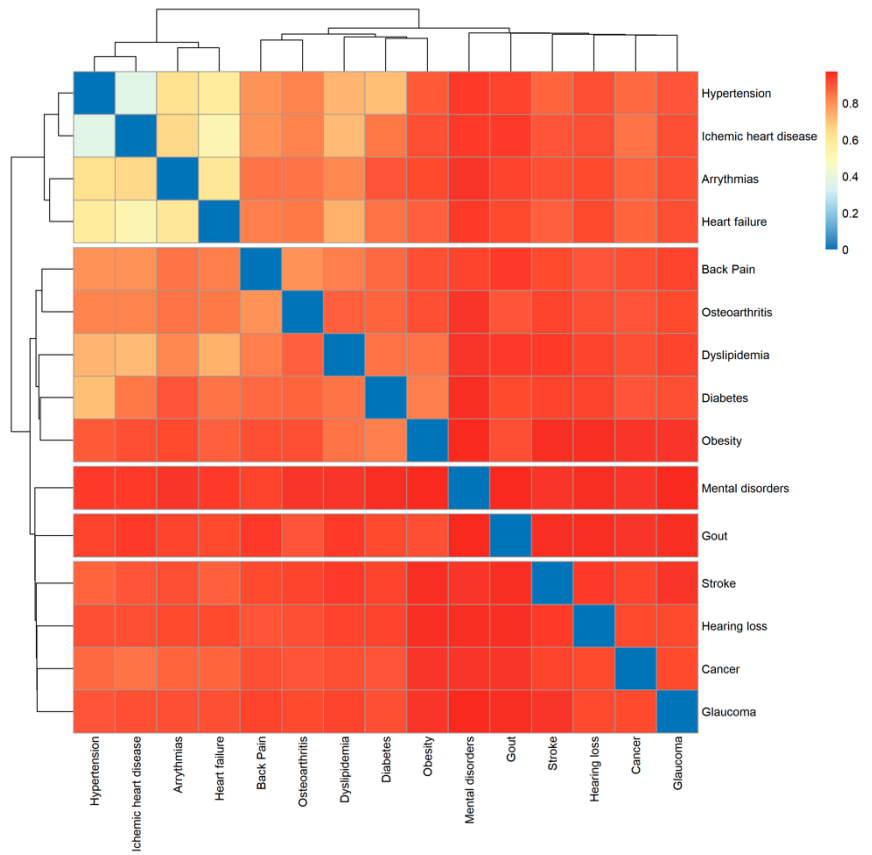
**Chart S4:** Distribution according to the place of residence.



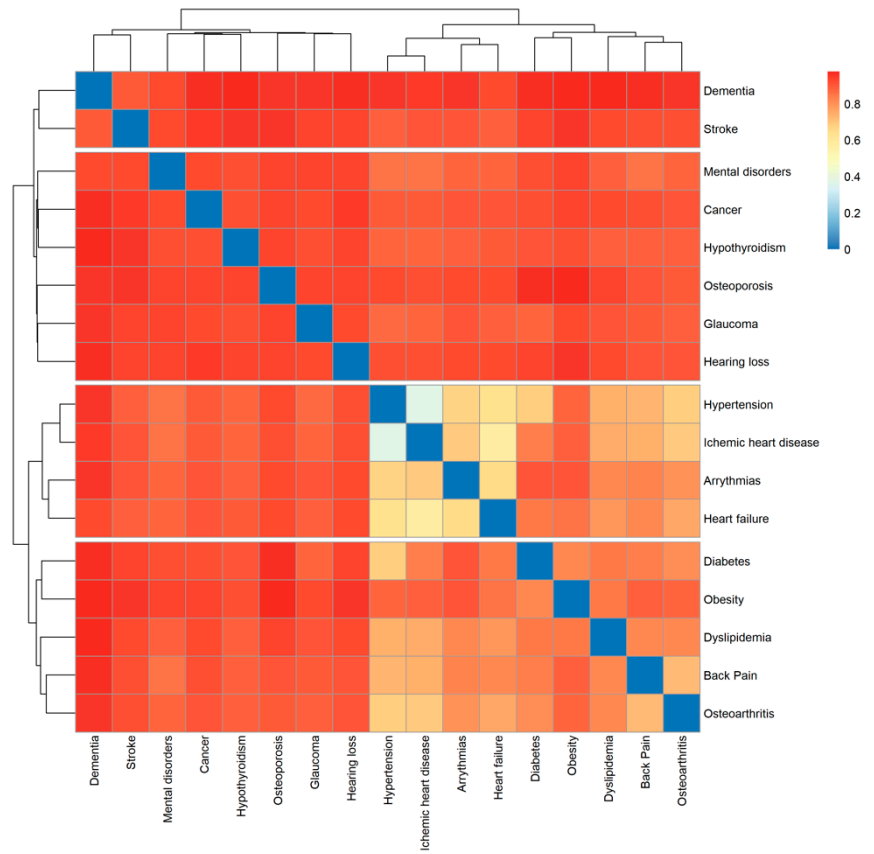
**Figure S1.** Multimorbidity clusters (COPD group-males).



**Figure S2.** Multimorbidity clusters (COPD group-females).



**Figure S3:** Multimorbidity clusters (no COPD group-males).



**Figure S4.** Multimorbidity clusters (no COPD group–females).