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Supplementary Table 1. The prospective epidemiological and disease-based cohorts, and hospital biobank samples in FinnGen Data Freeze 6

<b>Cohort</b>	<b>N</b>
Auria Biobank	29201
Biobank of Central Finland	7743
Biobank of Eastern Finland	7765
Blood Service Biobank	28901
Borealis Biobank	7390
Biobank Botnia	8681
Biobank Corogene	4689
Biobank FinHealth	5928
Helsinki Biobank	58693
Tampere Biobank	12394
Terveystalo Biobank	1709
THL Biobank ATBC	3836
THL Biobank FinIPF	201
THL Biobank FINRISK 1992	4931
THL Biobank FINRISK 1997	6997
THL Biobank FINRISK 2002	6869
THL Biobank FINRISK 2007	5143
THL Biobank FINRISK 2012	5233
THL Biobank GENERISK	6898
THL Biobank Health 2000	6529
THL Biobank Health 2011	708
THL Biobank HHS	2113
THL Biobank Kuusamo	123
THL Biobank Migraine	7717
THL Biobank SUPER	8466
THL Biobank Diabetes	10145
THL Biobank Twins	11402
<b>Total:</b>	<b>260405</b>

THL= Finnish Institute for Health and Welfare Helsinki, Finland

Supplementary Table 2. ICD-codes for OSA and comorbidities

	<b>ICD-10</b>	<b>ICD-9</b>	<b>ICD-8</b>
<b>OSA</b>	G47.3	3472	
<b>HYPERTENSION</b>	I10-I13, I15, I67.4	4019X, 4029A, 4029B, 4039A, 4040A, 4059A, 4059B, 4372A, 4059X	400, 401, 402, 403, 404
<b>DIABETES</b>	E10-E14	250	250
<b>CHD</b>	I20.0, I21, I22	410, 4110	410, 411,0
<b>ASTHMA</b>	J45, J46	493	493
<b>COPD</b>	J43, J44	492, 4912	492, 491,04

By combining codes from different registries, we generate phenotype endpoints. Finnish national version for each International Statistical Classification of Diseases (ICD)-codes were used. These ICD-code criteria are all regular expressions for a hierarchical search. OSA=obstructive sleep apnoea, CHD=coronary heart disease.