**Appendix**

*Study Population*

The study population included NYC residents aged 50 years and older who had at least one ambulatory care encounter from January 1, 2017 through March 6, 2020 and two or more of the following chronic conditions: arthritis, asthma, atrial fibrillation, breast cancer, colorectal cancer, lung cancer, prostate cancer, chronic kidney disease, chronic obstructive pulmonary disease, depression, diabetes, heart failure, hyperlipidemia, hypertension, ischemic heart disease, osteoporosis, and stroke. Those with a diagnosis for Alzheimer’s disease, dementia, or metastatic cancer were excluded.

*Biologically Implausible Thresholds*

Cardiovascular risk factor measurements that were biologically implausible were excluded:

* SBP <60 or >250mmHg;1
* LDL/HDL/triglyceride <10 or >900mg/dL;
* total cholesterol <10 or >1800mg/dL;2
* A1C < 3.3 or > 18.8%;3
* weight <75 or >700lbs4

**Table 1. ICD-10 Codes Used to Define Comorbidities and Exclusionary Conditions**

|  |  |
| --- | --- |
| **Condition** | **ICD-10 CM Codes** |
| Arthritis | M0500, M05011, M05012, M05019, M05021, M05022, M05029, M05031, M05032, M05039, M05041, M05042, M05049, M05051, M05052, M05059, M05061, M05062, M05069, M05071, M05072, M05079, M0509, M0510, M05111, M05112, M05119, M05121, M05122, M05129, M05131, M05132, M05139, M05141, M05142, M05149, M05151, M05152, M05159, M05161, M05162, M05169, M05171, M05172, M05179, M0519, M0520, M05211, M05212, M05219, M05221, M05222, M05229, M05231, M05232, M05239, M05241, M05242, M05249, M05251, M05252, M05259, M05261, M05262, M05269, M05271, M05272, M05279, M0529, M0530, M05311, M05312, M05319, M05321, M05322, M05329, M05331, M05332, M05339, M05341, M05342, M05349, M05351, M05352, M05359, M05361, M05362, M05369, M05371, M05372, M05379, M0539, M0540, M05411, M05412, M05419, M05421, M05422, M05429, M05431, M05432, M05439, M05441, M05442, M05449, M05451, M05452, M05459, M05461, M05462, M05469, M05471, M05472, M05479, M0549, M0550, M05511, M05512, M05519, M05521, M05522, M05529, M05531, M05532, M05539, M05541, M05542, M05549, M05551, M05552, M05559, M05561, M05562, M05569, M05571, M05572, M05579, M0559, M0560, M05611, M05612, M05619, M05621, M05622, M05629, M05631, M05632, M05639, M05641, M05642, M05649, M05651, M05652, M05659, M05661, M05662, M05669, M05671, M05672, M05679, M0569, M0570, M05711, M05712, M05719, M05721, M05722, M05729, M05731, M05732, M05739, M05741, M05742, M05749, M05751, M05752, M05759, M05761, M05762, M05769, M05771, M05772, M05779, M0579, M057A, M0580, M05811, M05812, M05819, M05821, M05822, M05829, M05831, M05832, M05839, M05841, M05842, M05849, M05851, M05852, M05859, M05861, M05862, M05869, M05871, M05872, M05879, M0589, M058A, M059, M0600, M06011, M06012, M06019, M06021, M06022, M06029, M06031, M06032, M06039, M06041, M06042, M06049, M06051, M06052, M06059, M06061, M06062, M06069, M06071, M06072, M06079, M0608, M0609, M060A, M061, M0620, M06211, M06212, M06219, M06221, M06222, M06229, M06231, M06232, M06239, M06241, M06242, M06249, M06251, M06252, M06259, M06261, M06262, M06269, M06271, M06272, M06279, M0628, M0629, M0630, M06311, M06312, M06319, M06321, M06322, M06329, M06331, M06332, M06339, M06341, M06342, M06349, M06351, M06352, M06359, M06361, M06362, M06369, M06371, M06372, M06379, M0638, M0639, M064, M0680, M06811, M06812, M06819, M06821, M06822, M06829, M06831, M06832, M06839, M06841, M06842, M06849, M06851, M06852, M06859, M06861, M06862, M06869, M06871, M06872, M06879, M0688, M0689, M068A, M069, M0800, M08011, M08012, M08019, M08021, M08022, M08029, M08031, M08032, M08039, M08041, M08042, M08049, M08051, M08052, M08059, M08061, M08062, M08069, M08071, M08072, M08079, M0808, M0809, M080A, M081, M0820, M08211, M08212, M08219, M08221, M08222, M08229, M08231, M08232, M08239, M08241, M08242, M08249, M08251, M08252, M08259, M08261, M08262, M08269, M08271, M08272, M08279, M0828, M0829, M082A, M083, M0840, M08411, M08412, M08419, M08421, M08422, M08429, M08431, M08432, M08439, M08441, M08442, M08449, M08451, M08452, M08459, M08461, M08462, M08469, M08471, M08472, M08479, M0848, M084A, M0880, M08811, M08812, M08819, M08821, M08822, M08829, M08831, M08832, M08839, M08841, M08842, M08849, M08851, M08852, M08859, M08861, M08862, M08869, M08871, M08872, M08879, M0888, M0889, M0890, M08911, M08912, M08919, M08921, M08922, M08929, M08931, M08932, M08939, M08941, M08942, M08949, M08951, M08952, M08959, M08961, M08962, M08969, M08971, M08972, M08979, M0898, M0899, M089A, M150, M151, M152, M153, M154, M158, M159, M160, M1610, M1611, M1612, M162, M1630, M1631, M1632, M164, M1650, M1651, M1652, M166, M167, M169, M170, M1710, M1711, M1712, M172, M1730, M1731, M1732, M174, M175, M179, M180, M1810, M1811, M1812, M182, M1830, M1831, M1832, M184, M1850, M1851, M1852, M189, M19011, M19012, M19019, M19021, M19022, M19029, M19031, M19032, M19039, M19041, M19042, M19049, M19071, M19072, M19079, M1909, M19111, M19112, M19119, M19121, M19122, M19129, M19131, M19132, M19139, M19141, M19142, M19149, M19171, M19172, M19179, M1919, M19211, M19212, M19219, M19221, M19222, M19229, M19231, M19232, M19239, M19241, M19242, M19249, M19271, M19272, M19279, M1929, M1990, M1991, M1992, M1993, M450, M451, M452, M453, M454, M455, M456, M457, M458, M459, M45A0, M45A1, M45A2, M45A3, M45A4, M45A5, M45A6, M45A7, M45A8, M45AB, M488X1, M488X2, M488X3, M488X4, M488X5, M488X6, M488X7, M488X8, M488X9, L4050, L4051, L4054, L4059, M4680, M4681, M4682, M4683, M4684, M4685, M4686, M4687, M4688, M4689, M4690, M4691, M4692, M4693, M4694, M4695, M4696, M4697, M4698, M4699, M47011, M47012, M47013, M47014, M47015, M47016, M47019, M47021, M47022, M47029, M4710, M4711, M4712, M4713, M4714, M4715, M4716, M4720, M4721, M4722, M4723, M4724, M4725, M4726, M4727, M4728, M47811, M47812, M47813, M47814, M47815, M47816, M47817, M47818, M47819, M47891, M47892, M47893, M47894, M47895, M47896, M47897, M47898, M47899, M479 |
| Asthma | J4520, J4521, J4522, J4530, J4531, J4532, J4540, J4541, J4542, J4550, J4551, J4552, J45901, J45902, J45909, J45990, J45991, J45998 |
| Atrial Fibrillation | I470, I471, I472, I479, I480, I481, I4811, I4819, I482, I4820, I4821, I483, I484, I4891, I4892, I491, I492, I493, I4940, I4949, I495, I498, I499 |
| Breast Cancer | C50011, C50012, C50019, C50021, C50022, C50029, C50111, C50112, C50119, C50121, C50122, C50129, C50211, C50212, C50219, C50221, C50222, C50229, C50311, C50312, C50319, C50321, C50322, C50329, C50411, C50412, C50419, C50421, C50422, C50429, C50511, C50512, C50519, C50521, C50522, C50529, C50611, C50612, C50619, C50621, C50622, C50629, C50811, C50812, C50819, C50821, C50822, C50829, C50911, C50912, C50919, C50921, C50922, C50929, D0500, D0501, D0502, D0510, D0511, D0512, D0580, D0581, D0582, D0590, D0591, D0592, Z170, Z171, Z191, Z192, Z853, Z86000 |
| Chronic Kidney Disease | D631, E0822, E0922, E1022, E1122, E1322, I120, I129, I130, I1310, I1311, I132, N181, N182, N183, N1830, N1831, N1832, N184, N185, N186, N189, R880, Z4901, Z4902, Z4931, Z4932, A1811, A5275, B520, E0821, E0829, E0921, E0929, E1021, E1029, E1121, E1129, E1321, E1329, K767, M1030, M10311, M10312, M10319, M10321, M10322, M10329, M10331, M10332, M10339, M10341, M10342, M10349, M10351, M10352, M10359, M10361, M10362, M10369, M10371, M10372, M10379, M1038, M1039, M3214, M3215, M3504, M350A, N010, N011, N012, N013, N014, N015, N016, N017, N018, N019, N01A, N020, N021, N022, N023, N024, N025, N026, N027, N028, N029, N02A, N030, N031, N032, N033, N034, N035, N036, N037, N038, N039, N03A, N040, N041, N042, N043, N044, N045, N046, N047, N048, N049, N04A, N050, N051, N052, N053, N054, N055, N056, N057, N058, N059, N05A, N060, N061, N062, N063, N064, N065, N066, N067, N068, N069, N06A, N070, N071, N072, N073, N074, N075, N076, N077, N078, N079, N07A, N08, N140, N141, N142, N143, N144, N150, N158, N159, N16, N251, N2589, N259, N261, N269, N990, Q6102, Q6111, Q6119, Q612, Q613, Q614, Q615, Q618 |
| Colorectal Cancer | C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C19, C20, C260, C49A4, C49A5, D010, D011, D012, D0140, Z85030, Z85038, Z85040, Z85048 |
| COPD | J410, J411, J418, J42, J430, J431, J432, J438, J439, J440, J441, J449, J470, J471, J479, J40, J982, J983 |
| Depression | F0631, F0632, F0634, F320, F321, F322, F323, F324, F328, F3281, F3289, F329, F32A, F330, F331, F332, F333, F3341, F338, F339, F341, F310, F3110, F3111, F3112, F3113, F312, F3130, F3131, F3132, F314, F315, F3160, F3161, F3162, F3163, F3164, F3171, F3173, F3175, F3176, F3177, F3178, F3181, F3189, F319, F325, F3340, F3342, F340, F4321, F4323 |
| Diabetes | E0800, E0801, E0810, E0811, E0821, E0822, E0829, E08311, E08319, E08321, E083211, E083212, E083213, E083219, E08329, E083291, E083292, E083293, E083299, E08331, E083311, E083312, E083313, E083319, E08339, E083391, E083392, E083393, E083399, E08341, E083411, E083412, E083413, E083419, E08349, E083491, E083492, E083493, E083499, E08351, E083511, E083512, E083513, E083519, E083521, E083522, E083523, E083529, E083531, E083532, E083533, E083539, E083541, E083542, E083543, E083549, E083551, E083552, E083553, E083559, E08359, E083591, E083592, E083593, E083599, E0836, E0837X1, E0837X2, E0837X3, E0837X9, E0839, E0840, E0841, E0842, E0843, E0844, E0849, E0851, E0852, E0859, E08610, E08618, E08620, E08621, E08622, E08628, E08630, E08638, E08641, E08649, E0865, E0869, E088, E089, E0900, E0901, E0910, E0911, E0921, E0922, E0929, E09311, E09319, E09321, E093211, E093212, E093213, E093219, E09329, E093291, E093292, E093293, E093299, E09331, E093311, E093312, E093313, E093319, E09339, E093391, E093392, E093393, E093399, E09341, E093411, E093412, E093413, E093419, E09349, E093491, E093492, E093493, E093499, E09351, E093511, E093512, E093513, E093519, E093521, E093522, E093523, E093529, E093531, E093532, E093533, E093539, E093541, E093542, E093543, E093549, E093551, E093552, E093553, E093559, E09359, E093591, E093592, E093593, E093599, E0936, E0937X1, E0937X2, E0937X3, E0937X9, E0939, E0940, E0941, E0942, E0943, E0944, E0949, E0951, E0952, E0959, E09610, E09618, E09620, E09621, E09622, E09628, E09630, E09638, E09641, E09649, E0965, E0969, E098, E099, E1010, E1011, E1021, E1022, E1029, E10311, E10319, E10321, E103211, E103212, E103213, E103219, E10329, E103291, E103292, E103293, E103299, E10331, E103311, E103312, E103313, E103319, E10339, E103391, E103392, E103393, E103399, E10341, E103411, E103412, E103413, E103419, E10349, E103491, E103492, E103493, E103499, E10351, E103511, E103512, E103513, E103519, E103521, E103522, E103523, E103529, E103531, E103532, E103533, E103539, E103541, E103542, E103543, E103549, E103551, E103552, E103553, E103559, E10359, E103591, E103592, E103593, E103599, E1036, E1037X1, E1037X2, E1037X3, E1037X9, E1039, E1040, E1041, E1042, E1043, E1044, E1049, E1051, E1052, E1059, E10610, E10618, E10620, E10621, E10622, E10628, E10630, E10638, E10641, E10649, E1065, E1069, E108, E109, E1100, E1101, E1110, E1111, E1121, E1122, E1129, E11311, E11319, E11321, E113211, E113212, E113213, E113219, E11329, E113291, E113292, E113293, E113299, E11331, E113311, E113312, E113313, E113319, E11339, E113391, E113392, E113393, E113399, E11341, E113411, E113412, E113413, E113419, E11349, E113491, E113492, E113493, E113499, E11351, E113511, E113512, E113513, E113519, E113521, E113522, E113523, E113529, E113531, E113532, E113533, E113539, E113541, E113542, E113543, E113549, E113551, E113552, E113553, E113559, E11359, E113591, E113592, E113593, E113599, E1136, E1137X1, E1137X2, E1137X3, E1137X9, E1139, E1140, E1141, E1142, E1143, E1144, E1149, E1151, E1152, E1159, E11610, E11618, E11620, E11621, E11622, E11628, E11630, E11638, E11641, E11649, E1165, E1169, E118, E119, E1300, E1301, E1310, E1311, E1321, E1322, E1329, E13311, E13319, E13321, E133211, E133212, E133213, E133219, E13329, E133291, E133292, E133293, E133299, E13331, E133311, E133312, E133313, E133319, E13339, E133391, E133392, E133393, E133399, E13341, E133411, E133412, E133413, E133419, E13349, E133491, E133492, E133493, E133499, E13351, E133511, E133512, E133513, E133519, E133521, E133522, E133523, E133529, E133531, E133532, E133533, E133539, E133541, E133542, E133543, E133549, E133551, E133552, E133553, E133559, E13359, E133591, E133592, E133593, E133599, E1336, E1337X1, E1337X2, E1337X3, E1337X9, E1339, E1340, E1341, E1342, E1343, E1344, E1349, E1351, E1352, E1359, E13610, E13618, E13620, E13621, E13622, E13628, E13630, E13638, E13641, E13649, E1365, E1369, E138, E139, E891, O24011, O24012, O24013, O24019, O2402, O2403, O24111, O24112, O24113, O24119, O2412, O2413, O24311, O24312, O24313, O24319, O2432, O2433, O24410, O24414, O24415, O24419, O24420, O24424, O24425, O24429, O24430, O24434, O24435, O24439, O24811, O24812, O24813, O24819, O2482, O2483, O24911, O24912, O24913, O24919, O2492, O2493, O99810, O99814, O99815 |
| Heart Failure | I0981, I110, I130, I132, I501, I5020, I5021, I5022, I5023, I5030, I5031, I5032, I5033, I5040, I5041, I5042, I5043, I50810, I50811, I50812, I50813, I50814, I5082, I5083, I5084, I5089, I509, I97130, I97131, O29121, O29122, O29123, O29129, Z95811, Z95812, I420, I425, I426, I427, I428, I43, P290 |
| Hyperlipidemia | E780, E7800, E7801, E781, E782, E783, E784, E7841, E7849, E785 |
| Hypertension | H35031, H35032, H35033, I10, I110, I119, I120, I129, I130, I1310, I1311, I132, I150, I151, I152, I158, I159, I160, I161, I169, I674, I868, I87001, I87002, I87003, I87009, I87011, I87012, I87013, I87019, I87021, I87022, I87023, I87029, I87031, I87032, I87033, I87039, I87091, I87092, I87093, I87099, I871, I872, I87301, I87302, I87303, I87309, I87311, I87312, I87313, I87319, I87321, I87322, I87323, I87329, I87331, I87332, I87333, I87339, I87391, I87392, I87393, I87399, I973, O10011, O10012, O10013, O10019, O1002, O1003, O10111, O10112, O10113, O10119, O1012, O1013, O10211, O10212, O10213, O10219, O1022, O1023, O10311, O10312, O10313, O10319, O1032, O1033, O10411, O10412, O10413, O10419, O1042, O1043, O10911, O10912, O10913, O10919, O1092, O1093, O111, O112, O113, O114, O115, O119, O131, O132, O133, O134, O135, O139, O161, O162, O163, O164, O165, O169, H35039, N262 |
| Ischemic Heart Disease | I200, I201, I208, I209, I240, I248, I249, I2510, I25110, I25111, I25118, I25119, I252, I255, I256, I25700, I25701, I25708, I25709, I25710, I25711, I25718, I25719, I25720, I25721, I25728, I25729, I25730, I25731, I25738, I25739, I25750, I25751, I25758, I25759, I25760, I25761, I25768, I25769, I25790, I25791, I25798, I25799, I25810, I25811, I25812, I2582, I2583, I2584, I2589, I259, Z951, Z955, Z9861, I241, I253, I2541, I2542 |
| Lung Cancer | C33, C3400, C3401, C3402, C3410, C3411, C3412, C342, C3430, C3431, C3432, C3480, C3481, C3482, C3490, C3491, C3492, C384, C390, C399, D021, D0220, D0221, D0222, D023, D024, Z85110, Z85118 |
| Osteoporosis | M8000XA, M80011A, M80012A, M80019A, M80021A, M80022A, M80029A, M80031A, M80032A, M80039A, M80041A, M80042A, M80049A, M80051A, M80052A, M80059A, M80061A, M80062A, M80069A, M80071A, M80072A, M80079A, M8008XA, M800AXA, M8080XA, M80811A, M80812A, M80819A, M80821A, M80822A, M80829A, M80831A, M80832A, M80839A, M80841A, M80842A, M80849A, M80851A, M80852A, M80859A, M80861A, M80862A, M80869A, M80871A, M80872A, M80879A, M8088XA, M808AXA, M810, M816, M818 |
| Prostate Cancer | C61, D075, Z8546 |
| Stroke | I6000, I6001, I6002, I6010, I6011, I6012, I602, I6020, I6021, I6022, I6030, I6031, I6032, I604, I6050, I6051, I6052, I606, I607, I608, I609, I610, I611, I612, I613, I614, I615, I616, I618, I619, I6200, I6201, I6202, I6203, I621, I629, G450, G451, G452, G453, G458, G459, G460, G461, G462, G463, G464, G465, G466, G467, G468, G9731, G9732, I6300, I63011, I63012, I63013, I63019, I6302, I63031, I63032, I63033, I63039, I6309, I6310, I63111, I63112, I63113, I63119, I6312, I63131, I63132, I63133, I63139, I6319, I6320, I63211, I63212, I63213, I63219, I6322, I63231, I63232, I63233, I63239, I6329, I6330, I63311, I63312, I63313, I63319, I63321, I63322, I63323, I63329, I63331, I63332, I63333, I63339, I63341, I63342, I63343, I63349, I6339, I6340, I63411, I63412, I63413, I63419, I63421, I63422, I63423, I63429, I63431, I63432, I63433, I63439, I63441, I63442, I63443, I63449, I6349, I6350, I63511, I63512, I63513, I63519, I63521, I63522, I63523, I63529, I63531, I63532, I63533, I63539, I63541, I63542, I63543, I63549, I6359, I636, I638, I6381, I6389, I639, I67841, I67848, I6789, I97810, I97811, I97820, I97821 |
| Alzheimer’s Disease | G300, G301, G308, G309 |
| Dementia | F0150, F0151, F0280, F0281, F0390, F0391, F05, G138, G3101, G3109, G311, G312, G3183, G94, R4181 |
| Metastatic Cancer | C770, C771, C772, C773, C774, C775, C778, C779, C7800, C7801, C7802, C781, C782, C7830, C7839, C784, C785, C786, C787, C7880, C7889, C7900, C7901, C7902, C7910, C7911, C7919, C792, C7931, C7932, C7940, C7949, C7951, C7952, C7960, C7961, C7962, C7970, C7971, C7972, C7981, C7982, C7989, C799 |

**Table 2. Demographic Characteristics and Comorbidity Prevalence among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020**

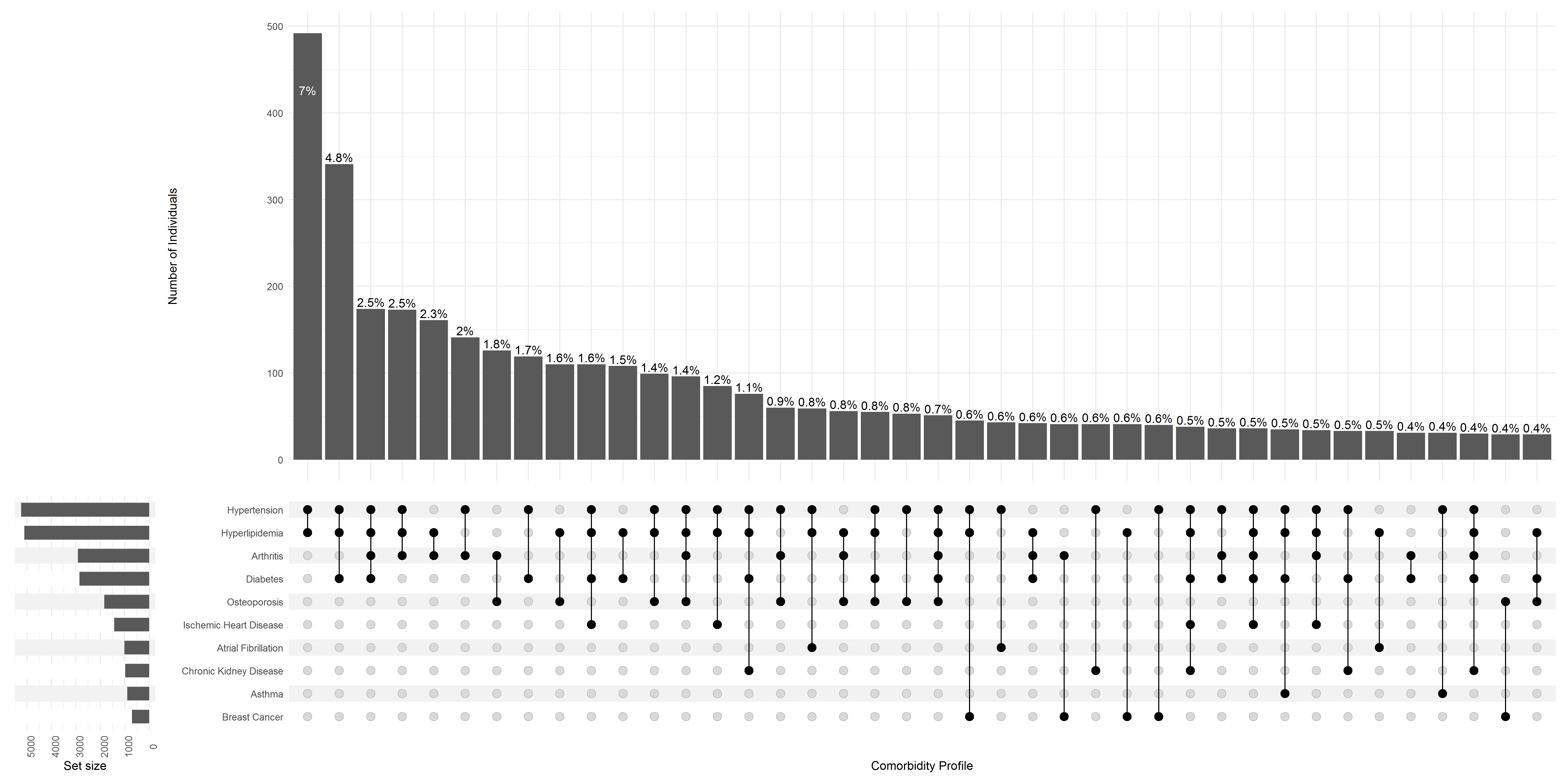
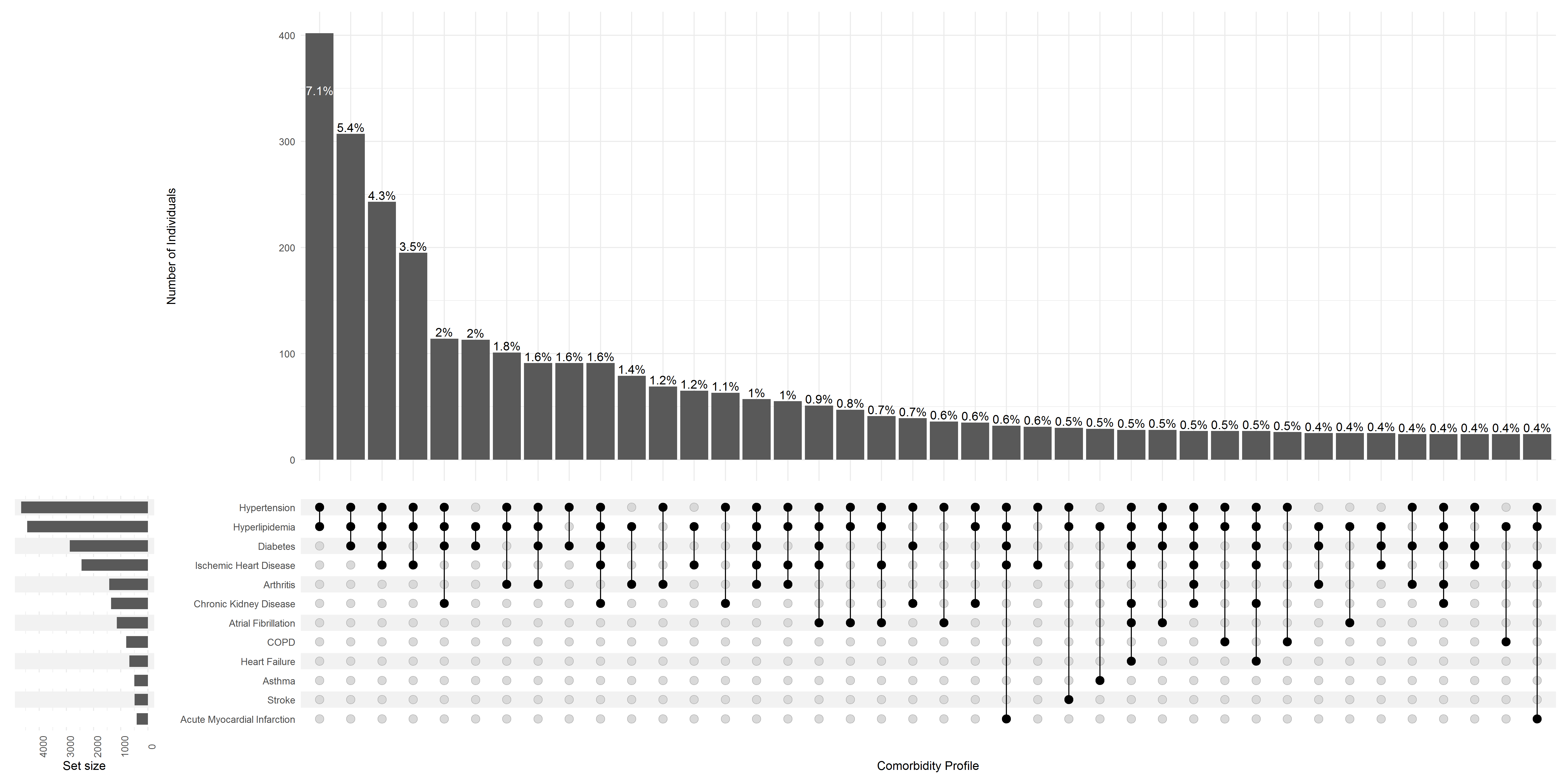
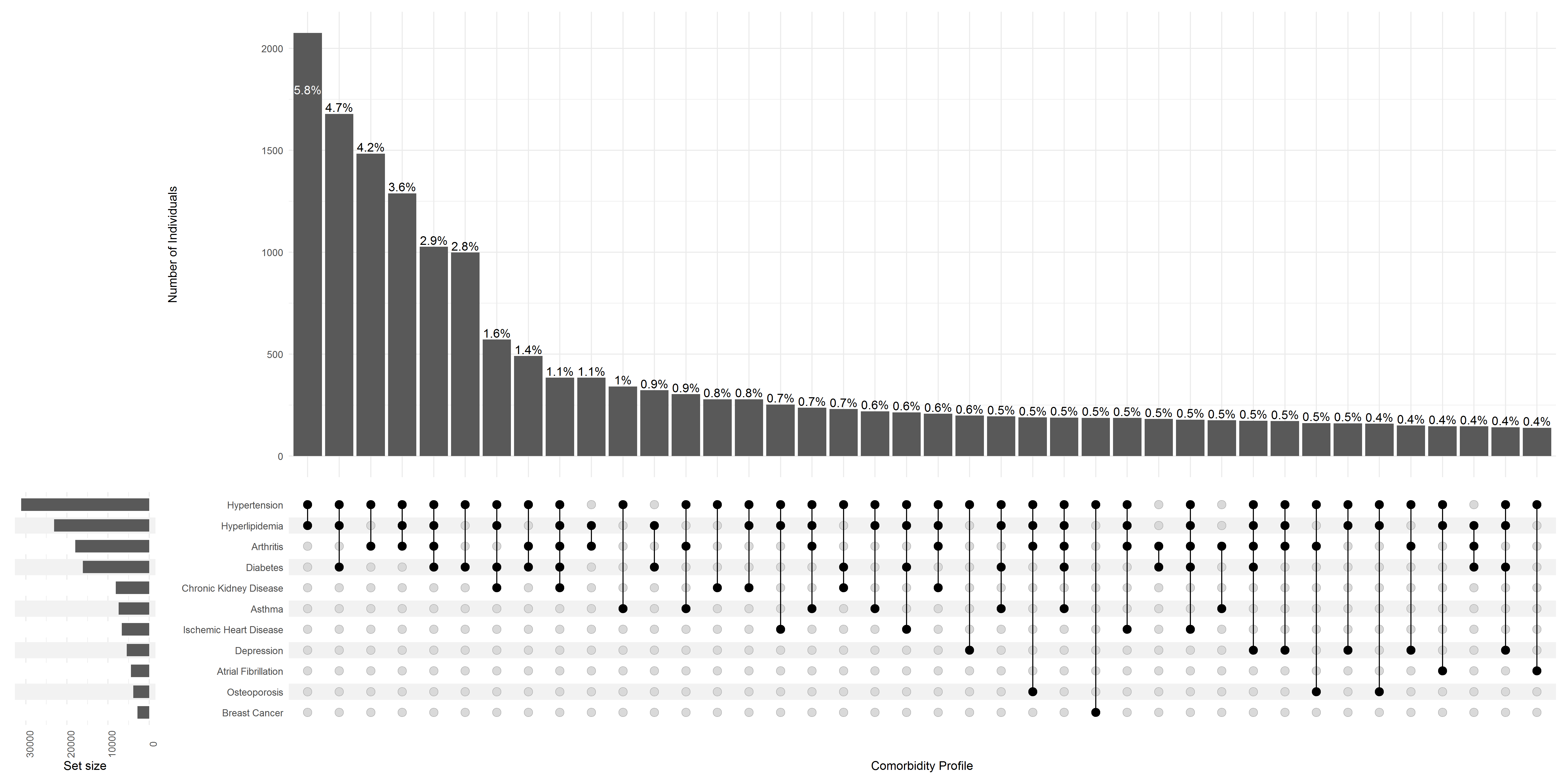
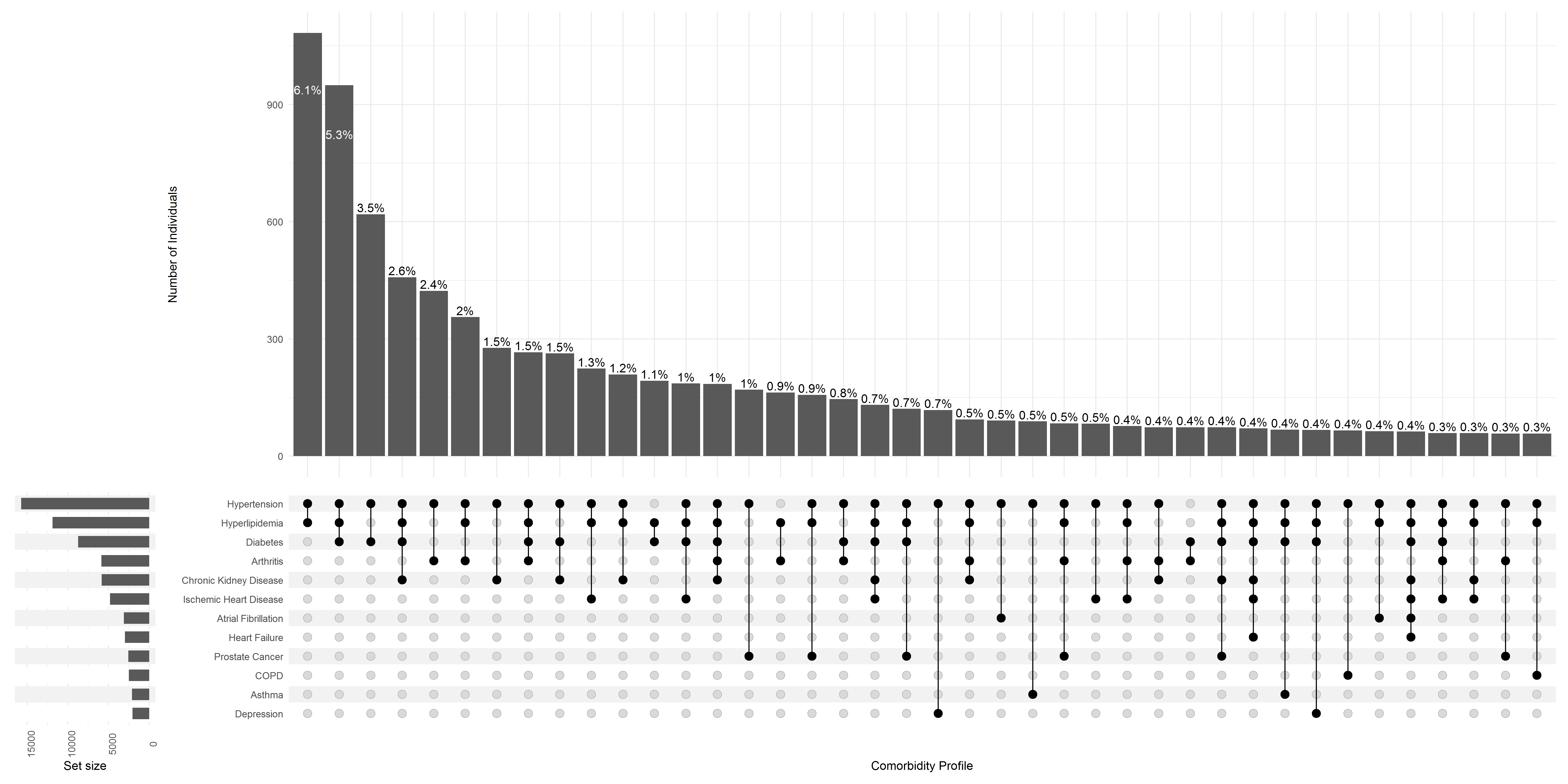
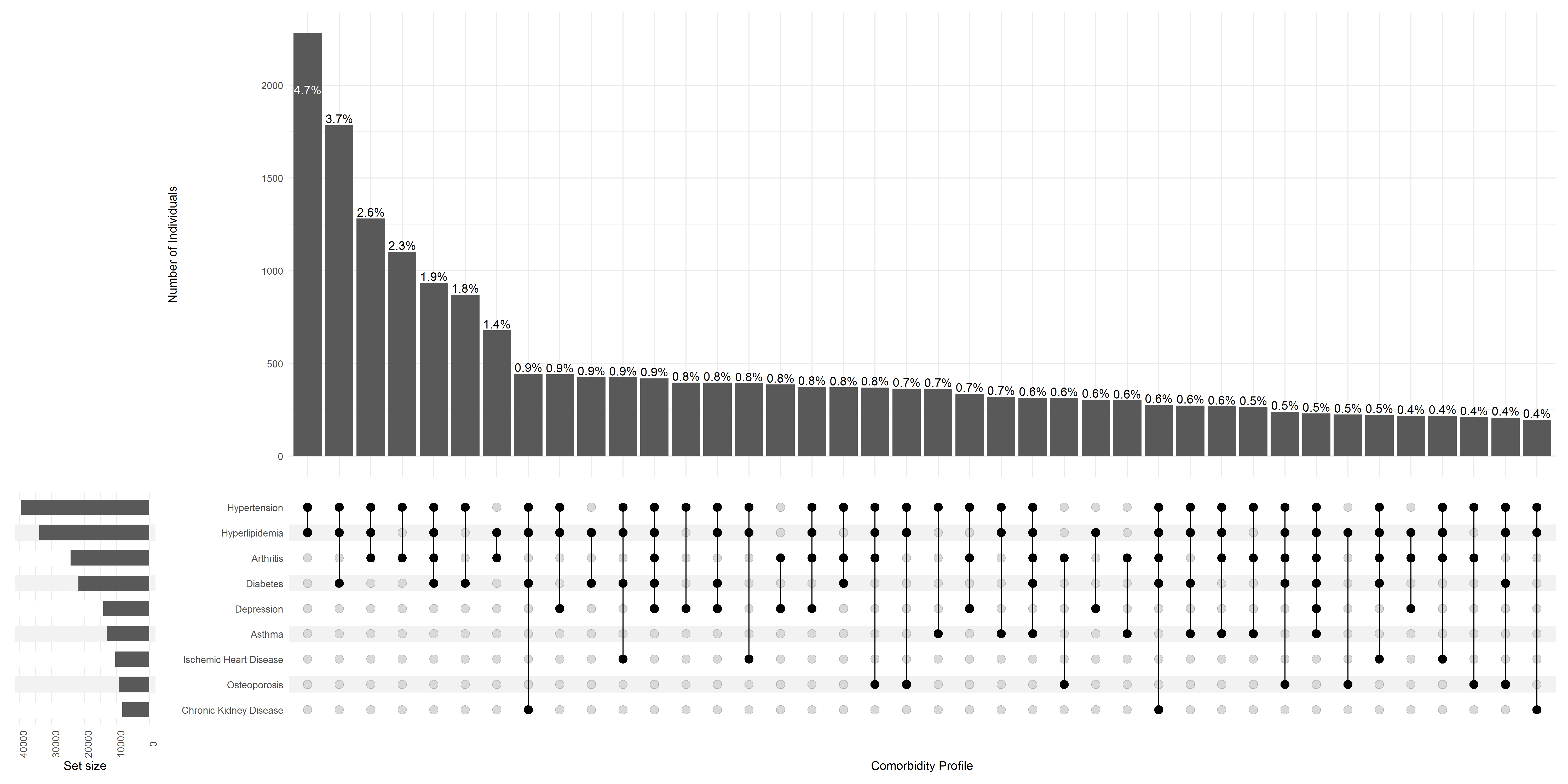
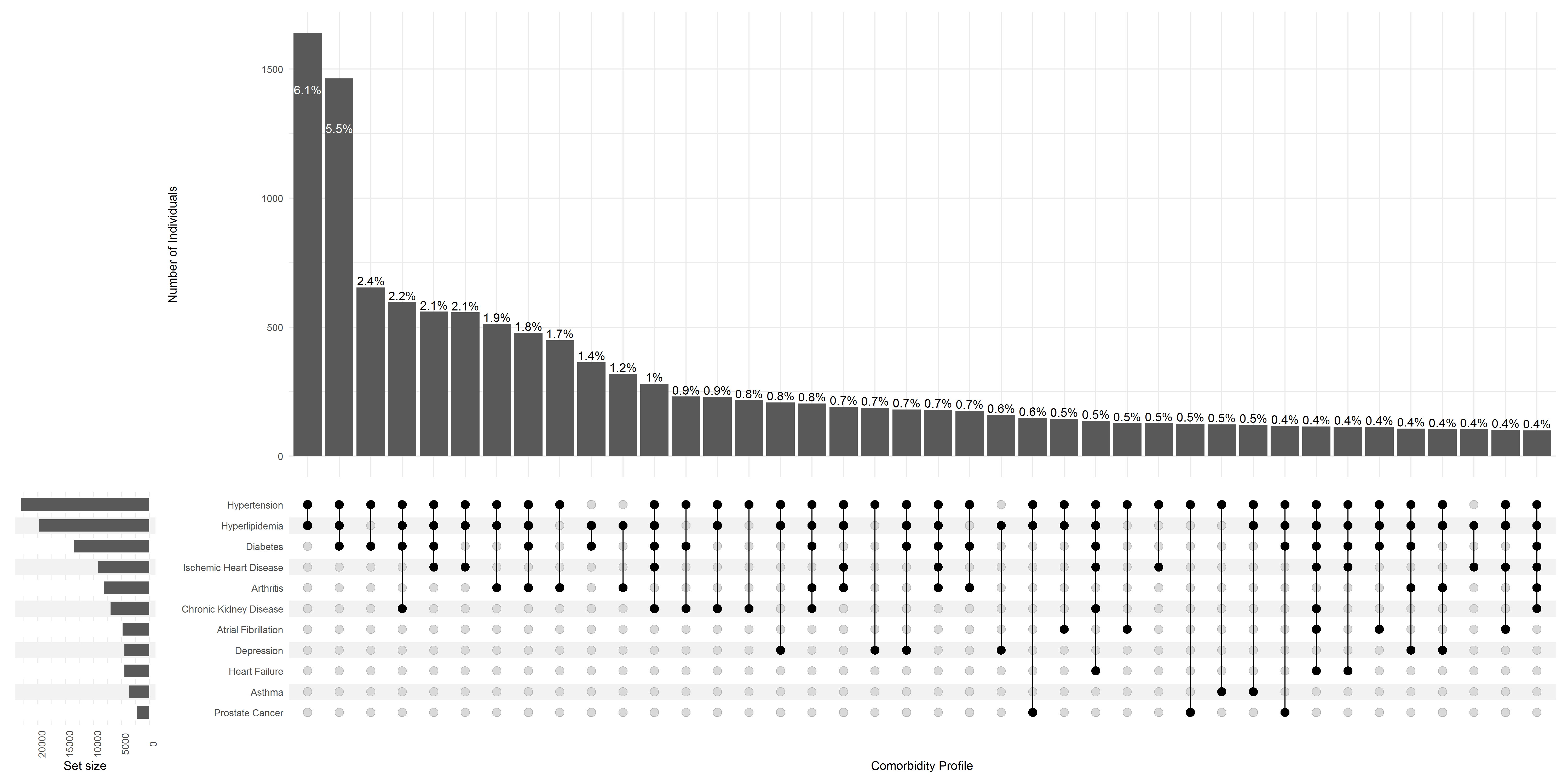
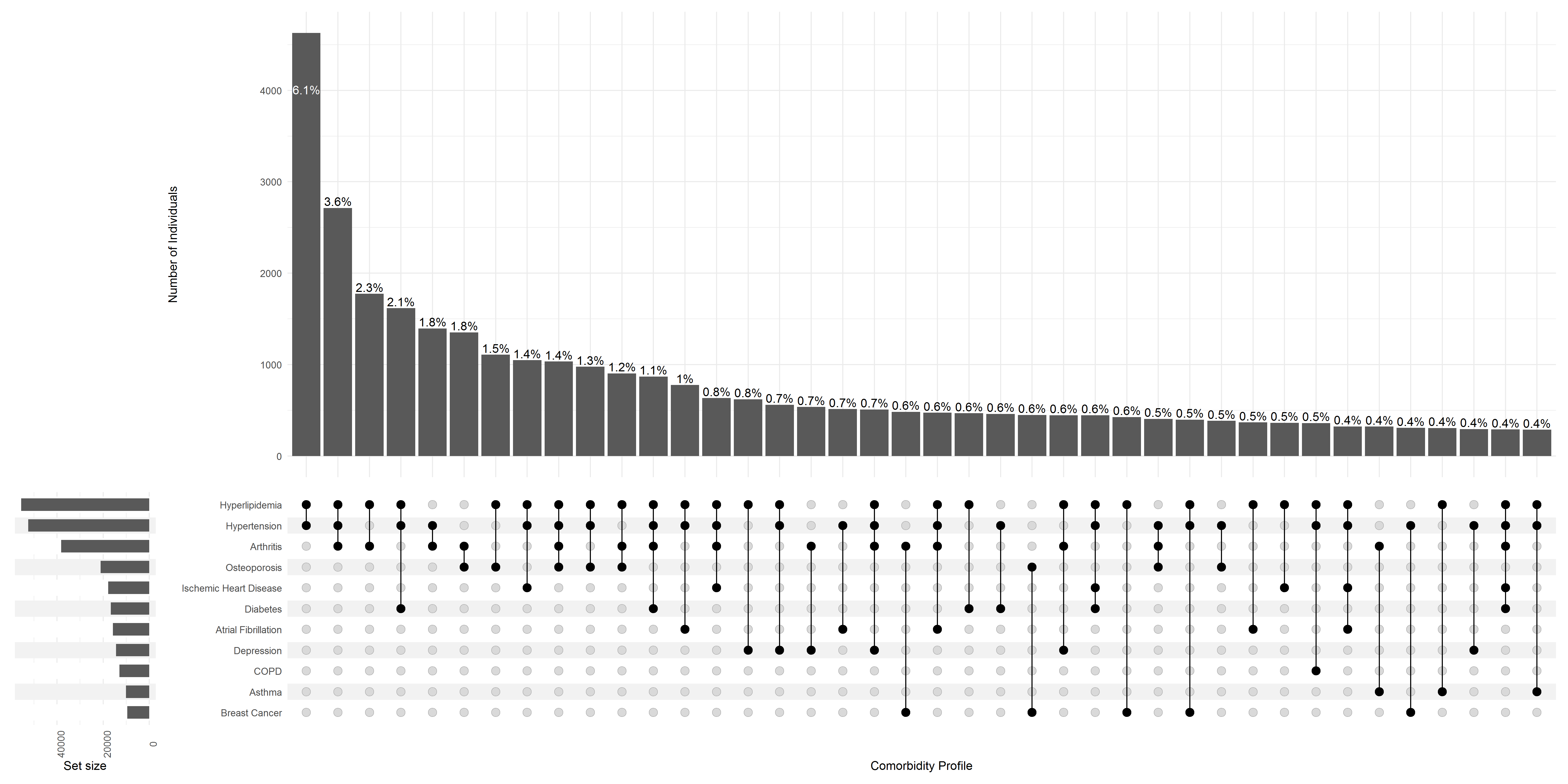
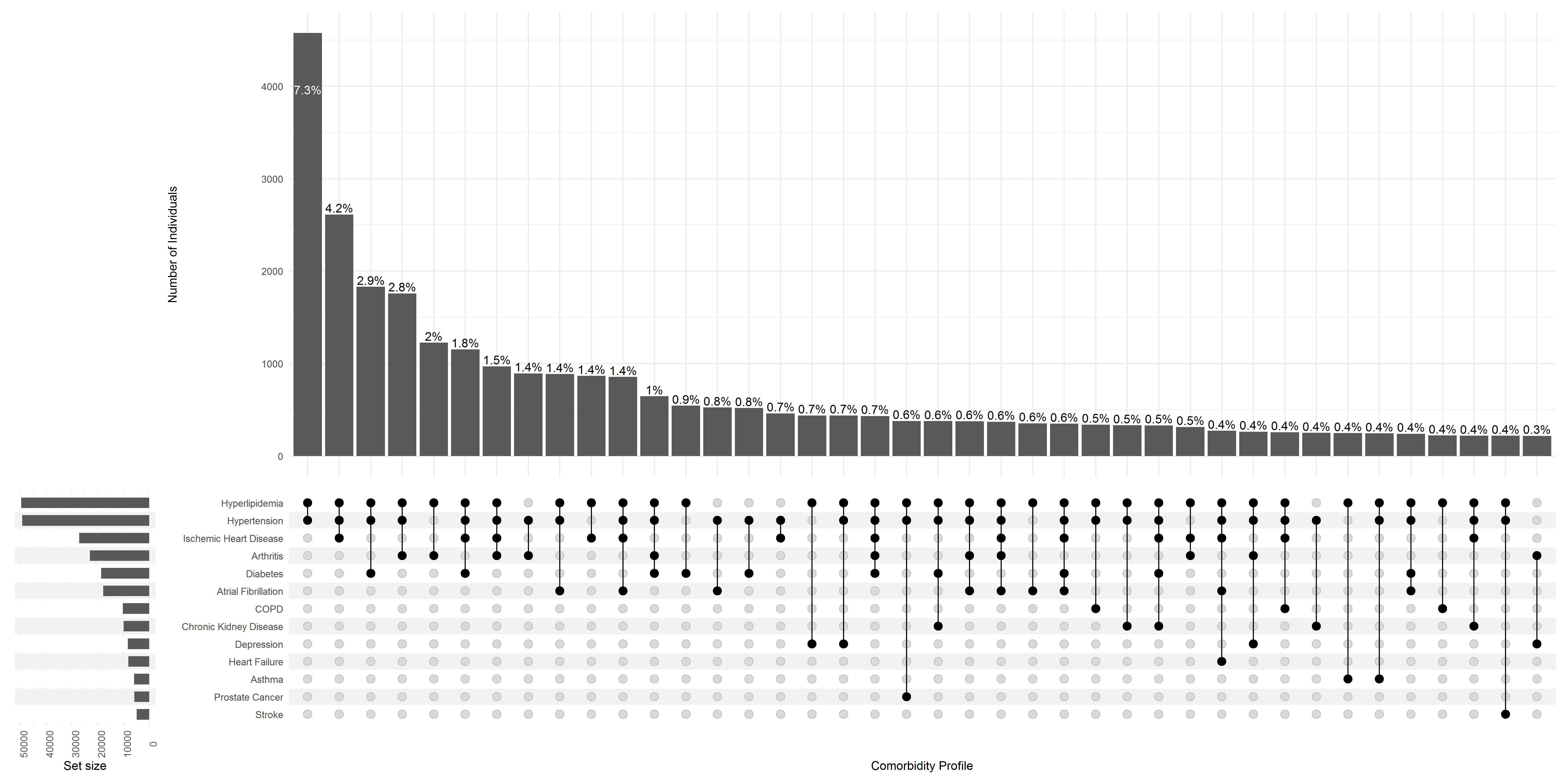
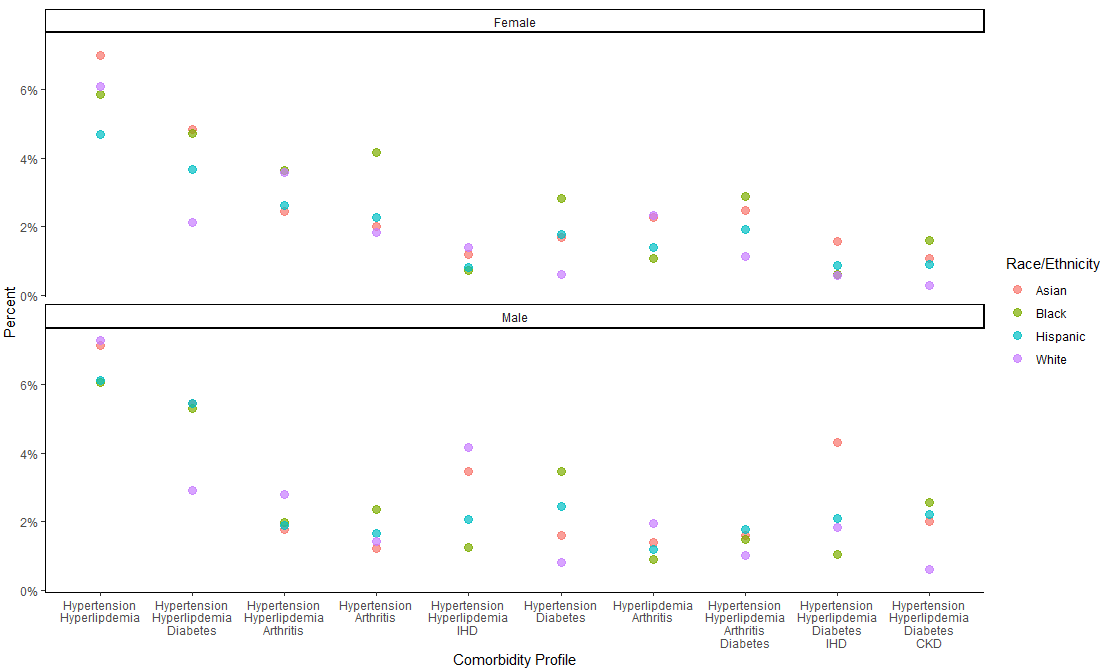
|  |  |
| --- | --- |
|  | **N** |
| **Age** |  |
| 50-64 | 132,919 (36.13%) |
| 65+ | 234,982 (63.87%) |
| **Poverty Levela** |  |
| Low | 87,626 (23.82%) |
| Medium | 159,113 (43.25%) |
| High | 72,682 (19.76%) |
| Very High | 48,423 (13.16%) |
| Unknown | 57 (0.02%) |
| **Comorbidities** | **Prevalence (95% CI)** |
| Acute Myocardial Infarction | 4.0 (3.9-4.1) |
| Arthritis | 41.8 (41.6-41.9) |
| Asthma | 15.5 (15.4-15.6) |
| Atrial Fibrillation | 18.4 (18.3-18.5) |
| Breast Cancer | 5.7 (5.7-5.8) |
| Chronic Kidney Disease | 17.5 (17.4-17.6) |
| Colorectal Cancer | 1.6 (1.6-1.7) |
| COPD | 14.5 (14.4-14.6) |
| Depression | 17.1 (17.0-17.3) |
| Diabetes | 37.1 (37.0-37.3) |
| Heart Failure | 11.4 (11.3-11.5) |
| Hyperlipidemia | 72.1 (72.0-72.3) |
| Hypertension | 79.3 (79.1-79.4) |
| Ischemic Heart Disease | 28.2 (28.0-28.3) |
| Lung Cancer | 1.1 (1.1-1.2) |
| Osteoporosis | 13.4 (13.3-13.5) |
| Prostate Cancer | 3.7 (3.6-3.8) |
| Stroke | 7.3 (7.2-7.4) |
|  | **367,901** |

aPoverty level: low: <10% of Zip Code Tabulation Area [ZCTA] residents living below the Federal Poverty Level (FPL), medium: 10 to <20%, high: 20 to <30%, and very high: ≥30%.

**Table 3. Age-Adjusted Odds Ratios for Comorbidity Prevalence among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **Asian – Female** | | **Asian – Male** | | **Black – Female** | | **Black - Male** | | **Latino - Female** | | **Latino - Male** | | **White - Female** | |
| Acute Myocardial Infarction | | 0.52 (0.46-0.6) | | 1.31 (1.18-1.46) | | 0.46 (0.43-0.49) | | 0.87 (0.81-0.94) | | 0.49 (0.46-0.53) | | 1.02 (0.96-1.08) | | 0.52 (0.49-0.55) | |
| Arthritis | | 1.26 (1.2-1.33) | | 0.61 (0.57-0.65) | | 1.84 (1.79-1.89) | | 0.89 (0.86-0.92) | | 1.78 (1.74-1.83) | | 0.79 (0.77-0.82) | | 1.73 (1.7-1.77) | |
| Asthma | | 1.35 (1.25-1.46) | | 0.88 (0.8-0.98) | | 2.39 (2.31-2.48) | | 1.18 (1.12-1.25) | | 3.33 (3.23-3.44) | | 1.4 (1.34-1.46) | | 1.56 (1.51-1.61) | |
| Atrial Fibrillation | | 0.45 (0.42-0.49) | | 0.72 (0.67-0.77) | | 0.4 (0.39-0.42) | | 0.64 (0.61-0.67) | | 0.38 (0.37-0.39) | | 0.63 (0.61-0.66) | | 0.6 (0.59-0.62) | |
| Breast Cancer | | 0.8 (0.74-0.87) | | -- | | 0.63 (0.6-0.66) | | -- | | 0.57 (0.54-0.59) | | -- | | (Referent) | |
| Chronic Kidney Disease | | 0.94 (0.88-1.01) | | 1.93 (1.8-2.06) | | 1.81 (1.75-1.88) | | 3.19 (3.07-3.32) | | 1.23 (1.19-1.27) | | 2.2 (2.13-2.28) | | 0.49 (0.47-0.5) | |
| Colorectal Cancer | | 0.74 (0.6-0.91) | | 1.14 (0.94-1.39) | | 0.86 (0.77-0.95) | | 1.06 (0.93-1.2) | | 0.79 (0.72-0.87) | | 1.08 (0.97-1.2) | | 0.85 (0.78-0.92) | |
| COPD | | 0.58 (0.53-0.63) | | 0.88 (0.81-0.95) | | 0.88 (0.84-0.91) | | 0.9 (0.86-0.95) | | 0.88 (0.85-0.91) | | 0.84 (0.8-0.87) | | 1.03 (1.0-1.06) | |
| Depression | | 0.6 (0.55-0.65) | | 0.38 (0.34-0.43) | | 1.09 (1.05-1.13) | | 0.76 (0.72-0.8) | | 2.51 (2.43-2.59) | | 1.19 (1.14-1.23) | | 1.61 (1.57-1.66) | |
| Diabetes | | 1.65 (1.56-1.73) | | 2.53 (2.4-2.68) | | 2.03 (1.98-2.09) | | 2.36 (2.28-2.44) | | 1.98 (1.93-2.03) | | 2.52 (2.44-2.59) | | 0.66 (0.64-0.68) | |
| Heart Failure | | 0.57 (0.52-0.63) | | 1.06 (0.97-1.15) | | 0.97 (0.94-1.02) | | 1.68 (1.6-1.76) | | 0.87 (0.84-0.91) | | 1.6 (1.53-1.66) | | 0.56 (0.54-0.58) | |
| Hyperlipidemia | | 0.73 (0.69-0.77) | | 1.04 (0.97-1.11) | | 0.52 (0.51-0.54) | | 0.56 (0.54-0.59) | | 0.64 (0.62-0.66) | | 0.8 (0.77-0.83) | | 0.71 (0.69-0.72) | |
| Hypertension | | 0.87 (0.82-0.92) | | 1.51 (1.4-1.62) | | 2.26 (2.18-2.35) | | 2.45 (2.33-2.57) | | 1.34 (1.3-1.38) | | 1.97 (1.89-2.05) | | 0.56 (0.54-0.58) | |
| Ischemic Heart Disease | | 0.35 (0.33-0.37) | | 1.11 (1.05-1.18) | | 0.33 (0.32-0.34) | | 0.55 (0.53-0.58) | | 0.39 (0.38-0.4) | | 0.78 (0.75-0.8) | | 0.37 (0.36-0.38) | |
| Lung Cancer | | 1.35 (1.11-1.64) | | 1.62 (1.32-1.98) | | 0.7 (0.61-0.8) | | 0.69 (0.57-0.82) | | 0.58 (0.51-0.66) | | 0.59 (0.51-0.7) | | 1.25 (1.15-1.36) | |
| Osteoporosis | | 10.5 (9.76-11.2) | | 0.84 (0.72-0.99) | | 3.64 (3.45-3.84) | | 0.59 (0.53-0.67) | | 7.25 (6.92-7.61) | | 0.77 (0.7-0.84) | | 9.72 (9.3-10.16) | |
| Prostate Cancer | | -- | | 0.51 (0.44-0.58) | | -- | | 2.19 (2.08-2.3) | | -- | | 1.08 (1.03-1.14) | | -- | |
| Stroke | | 0.92 (0.83-1.01) | | 1.23 (1.12-1.36) | | 1.03 (0.98-1.09) | | 1.28 (1.21-1.36) | | 0.94 (0.9-0.98) | | 1.19 (1.13-1.25) | | 0.83 (0.8-0.87) | |

1Odds ratios estimated using logistic regression analyses controlling for 5-year age group with White – Male as the referent group for all conditions except breast cancer. Logistic regression model for breast cancer was limited to females only, with White – Female as the referent group.

**Figure 1. Leading Comorbidity Profiles among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020 – Asian Female**  **Figure 2. Leading Comorbidity Profiles among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020 – Asian Male**  **Figure 3. Leading Comorbidity Profiles among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020 – Black Female**  **Figure 4. Leading Comorbidity Profiles among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020 – Black Male**  **Figure 5. Leading Comorbidity Profiles among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020 – Hispanic/Latino Female**  **Figure 6. Leading Comorbidity Profiles among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020 – Hispanic/Latino Male**  **Figure 7. Leading Comorbidity Profiles among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020 – White Female**  **Figure 8. Leading Comorbidity Profiles among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020 – White Male**  **Figure 9. Leading Comorbidity Profiles by Sex and Race/Ethnicity among NYC Residents Aged 50 and Older with Multiple Chronic Conditions Receiving Care at NYC INSIGHT Facilities, September 2019-March 2020** 

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