### Appendix 1. Baseline characteristics by level of refill adherence during implementation of lipid-lowering medications, for primary prevention patients.

|                | All n = 74,909 | ≤20% n = 4,884 | 21-40% n = 6,168 | 41-60% n = 7,490 | 61-80% n = 10,579 | >80% n = 45,788 |
|----------------|----------------|----------------|------------------|------------------|------------------|-----------------|
| **Sex** |                |                |                  |                  |                  |                 |
| Men           | 41,470 (55.4)  | 2,652 (54.3)   | 3,508 (56.9)     | 4,231 (56.5)     | 6,110 (57.8)     | 24,969 (54.5)   |
| Women         | 33,439 (44.6)  | 2,232 (45.7)   | 2,981 (43.1)     | 3,179 (43.5)     | 4,489 (42.2)     | 20,820 (45.5)   |
| **Age**       |                |                |                  |                  |                  |                 |
| 18–40         | 22,059 (29.2)  | 261 (5.3)      | 302 (4.9)        | 326 (4.4)        | 389 (3.7)        | 927 (2.0)       |
| 41–60         | 29,372 (39.2)  | 2,167 (44.4)   | 2,709 (43.9)     | 3,206 (42.8)     | 4,499 (42.5)     | 16,791 (36.7)   |
| 61–80         | 40,741 (54.4)  | 2,296 (47.0)   | 2,996 (48.6)     | 3,750 (50.1)     | 5,363 (50.7)     | 26,336 (57.5)   |
| >80           | 2,785 (3.7)    | 160 (3.3)      | 161 (2.6)        | 208 (2.8)        | 328 (3.1)        | 1,734 (3.8)     |
| **Mean (SD)** | 62.0 (10.9)    | 60.2 (11.7)    | 60.1 (11.5)      | 60.6 (11.4)      | 60.9 (11.1)      | 62.9 (10.4)     |
| **Median (IQR)** | 63.0 (14.0) | 61.0 (15.0)    | 61.0 (16.0)      | 61.0 (16.0)      | 62.0 (16.0)      | 63.0 (14.0)     |
| **Country of birth** |             |                |                  |                  |                  |                 |
| Sweden        | 59,619 (79.6)  | 3,629 (74.3)   | 4,573 (74.1)     | 5,648 (75.4)     | 8,134 (76.9)     | 37,635 (82.2)   |
| Other Nordic country | 3,977 (5.3)  | 264 (5.4)      | 338 (5.5)        | 441 (5.9)        | 574 (5.4)        | 2,360 (5.2)     |
| Other EU27 country | 2,009 (2.7)  | 160 (3.3)      | 205 (3.3)        | 230 (3.1)        | 336 (3.2)        | 1,078 (2.4)     |
| Rest of Europe | 2,869 (3.8)   | 237 (4.9)      | 298 (4.8)        | 343 (4.6)        | 469 (4.4)        | 1,522 (3.3)     |
| Africa        | 1,048 (1.4)   | 124 (2.5)      | 160 (2.6)        | 166 (2.2)        | 181 (1.7)        | 417 (0.9)       |
| The Americas/Oceania | 733 (1.0)  | 75 (1.5)       | 92 (1.5)         | 119 (1.6)        | 134 (1.3)        | 313 (0.7)       |
| Asia          | 1,133 (1.5)   | 99 (2.0)       | 134 (2.2)        | 146 (2.0)        | 191 (1.8)        | 563 (1.2)       |
| Middle East country | 3,521 (4.7)  | 296 (6.1)      | 368 (6.0)        | 397 (5.3)        | 560 (5.3)        | 1,900 (4.2)     |
| **Marital status** |             |                |                  |                  |                  |                 |
| Unmarried     | 12,398 (16.6) | 859 (17.6)     | 1,092 (17.7)     | 1,299 (17.3)     | 1,866 (17.6)     | 7,282 (15.9)    |
| Married        | 42,147 (56.3) | 2,628 (53.8)   | 3,333 (54.0)     | 4,057 (54.2)     | 5,805 (54.9)     | 26,324 (57.5)   |
| Registered partner | 8,360 (11.2) | 733 (15.6)     | 929 (15.0)       | 1,078 (16.0)     | 1,552 (15.6)     | 6,072 (13.3)    |
| Divorced      | 13,501 (18.0) | 1,014 (20.8)   | 1,257 (20.4)     | 1,479 (19.8)     | 2,027 (19.2)     | 7,724 (16.9)    |
| Widow/widower | 6,863 (9.2)   | 383 (7.8)      | 486 (7.9)        | 655 (8.7)        | 881 (8.3)        | 4,458 (9.7)     |
| **Education level** |             |                |                  |                  |                  |                 |
| Compulsory school or lower | 27,433 (36.6) | 1,710 (35.0) | 2,149 (34.8) | 2,657 (35.5) | 3,775 (35.7) | 17,142 (37.4) |
| Upper secondary school | 33,510 (44.7) | 2,248 (46.0) | 2,887 (46.8) | 3,377 (45.1) | 4,711 (44.5) | 20,287 (44.3) |
| Post-secondary | 13,966 (18.6) | 926 (19.0)     | 1,132 (18.4)     | 1,456 (19.4)     | 2,093 (19.8)     | 8,359 (18.3)    |
| Unemployed    | 11,035 (14.7) | 844 (17.3)     | 1,042 (16.9)     | 1,154 (15.4)     | 1,639 (15.5)     | 6,356 (13.9)    |
| Employed      | 39,724 (53.0) | 2,649 (54.2)   | 3,399 (55.1)     | 4,217 (56.3)     | 5,850 (55.3)     | 23,609 (51.6)   |
| Retired*      | 24,150 (32.2) | 1,391 (28.5)   | 1,727 (28.0)     | 2,119 (28.3)     | 3,090 (29.2)     | 15,823 (34.6)   |
| Profession    | 22,369 (29.9) | 1,391 (28.5)   | 1,772 (28.7)     | 2,236 (29.9)     | 3,133 (29.6)     | 13,837 (30.2)   |
| Individual income (TSEK) | No diabetes (SD) | Insulin only | Other glucose-lowering medications | Insulin and other glucose lowering medications |
|--------------------------|------------------|--------------|-----------------------------------|-----------------------------------------------|
| **Individual income**    |                  |              |                                   |                                               |
| (TSEK)                   |                  |              |                                   |                                               |
| Mean (SD)                | 195 (297)        | 194 (362)    | 195 (256)                         | 192 (188)                                    |
| Median (IQR)             | 160 (120)        | 157 (110)    | 160 (113)                         | 163 (116)                                    |
| **Anticoagulants**       |                  |              |                                   |                                               |
| Yes                      | 18,699 (25.0)   | 1,124 (23.0) | 1,392 (22.6)                      | 1,737 (23.2)                                 |
| **Antihypertensives**    |                  |              |                                   |                                               |
| Yes                      | 43,978 (58.7)   | 2,523 (51.7) | 3,229 (52.4)                      | 4,090 (54.6)                                 |
| **Cancer diagnosis**     |                  |              |                                   |                                               |
| Yes                      | 3,514 (4.7)     | 221 (4.5)    | 279 (4.5)                         | 330 (4.4)                                    |
| **Diabetes duration (years)** |            |              |                                   |                                               |
| Mean (SD)                | 4.8 (2.4)        | 5.2 (3.0)    | 5.0 (3.0)                         | 5.0 (3.0)                                    |
| Median (IQR)             | 6.3 (7.0)        | 6.0 (8.0)    | 6.2 (7.0)                         | 6.4 (7.0)                                    |
| **HbA1c (%) [mmol/mol]** |                  |              |                                   |                                               |
| <5 [42-42]               | 6.285 (8.4)      | 340 (7.0)    | 492 (8.0)                         | 581 (7.8)                                    |
| 5-6 [42-52]              | 36,392 (48.6)    | 2,174 (44.5)| 2,803 (45.4)                      | 3,442 (46.0)                                 |
| >6 [52]                  | 32,232 (43.0)    | 2,370 (45.8)| 2,873 (46.6)                      | 3,467 (46.7)                                 |
| Mean (SD)                | 6.2 (2.2)        | 6.3 (2.3)    | 6.3 (2.3)                         | 6.3 (2.3)                                    |
| Median (IQR)             | [53.7] (12.4)    | [55.1] (13.0)| [54.6] (13.0)                     | [54.6] (13.2)                                |
| eGFR (ml/min/1.73 m²)    | <60              | 5,684 (7.6)  | 322 (6.6)                         | 385 (6.2)                                    |
| ≥60                      | 69,225 (92.4)   | 4,562 (93.4)| 5,783 (93.8)                      | 6,968 (93.0)                                 |
| Mean (SD)                | 85.9 (20.1)      | 88.1 (20.6)  | 87.9 (20.0)                       | 87.3 (20.6)                                  |
| Median (IQR)             | 84.9 (22.7)      | 87.0 (22.8)  | 87.1 (23.1)                       | 86.3 (22.9)                                  |
| **BMI (kg/m²)**          | ≤24.9            | 7,651 (10.2)| 4,884 (9.7)                       | 5,61 (9.1)                                   |
| ≥30.0                    | 31,553 (42.1)    | 2,089 (42.8)| 2,664 (43.2)                      | 3,149 (42.0)                                 |
| Mean (SD)                | 35,705 (47.7)    | 2,321 (47.5)| 2,943 (47.7)                      | 3,615 (48.3)                                 |
| Median (IQR)             | 30.2 (4.6)       | 30.1 (4.4)   | 30.2 (4.6)                        | 30.3 (4.6)                                   |
| **LDL cholesterol (mmol/L)** |          |              |                                   |                                               |
| <2.5                     | 3,630 (4.9)      | 180 (3.7)    | 233 (3.8)                         | 330 (4.4)                                    |
| ≥2.5                     | 71,279 (95.2)    | 4,704 (96.3)| 5,935 (9.2)                       | 7,160 (95.6)                                 |
| Mean (SD)                | 3.6 (0.6)        | 3.6 (0.6)    | 3.6 (0.6)                         | 3.6 (0.6)                                    |
| Median (IQR)             | 3.6 (0.6)        | 3.6 (0.6)    | 3.6 (0.6)                         | 3.6 (0.6)                                    |

| Lower white collar | 6,252 (8.4) | 381 (7.8) | 449 (7.3) | 633 (8.5) | 820 (7.8) | 3,969 (8.7) |
| Blue collar        | 44,363 (59.2) | 2,998 (61.4) | 3,803 (61.7) | 4,441 (59.3) | 6,363 (60.2) | 26,758 (58.4) |
| Others             | 1,925 (2.6) | 114 (2.3) | 144 (2.3) | 180 (2.4) | 263 (2.5) | 1,224 (2.7) |
| Others             | 1,925 (2.6) | 114 (2.3) | 144 (2.3) | 180 (2.4) | 263 (2.5) | 1,224 (2.7) |
| Others             | 1,925 (2.6) | 114 (2.3) | 144 (2.3) | 180 (2.4) | 263 (2.5) | 1,224 (2.7) |
| Others             | 1,925 (2.6) | 114 (2.3) | 144 (2.3) | 180 (2.4) | 263 (2.5) | 1,224 (2.7) |
### Table 1: Cardiovascular Risk Factors

| Risk Factor                  | Mean (SD)       | Median (IQR)    | Mean (SD)       | Median (IQR)    |
|------------------------------|-----------------|-----------------|-----------------|-----------------|
| HDL cholesterol <1.0 (men)/1.3 (women) | 19,060 25.4 | 1,329 27.2 | 1,584 25.7 | 1,929 25.8 |
| HDL cholesterol ≥1.0 (men)/1.3 (women) | 55,849 74.6 | 3,555 72.8 | 4,584 74.3 | 5,561 74.3 |
| Triglycerides <2.0 (mmol/L) | 44,225 59.0 | 2,773 56.8 | 3,499 56.7 | 4,315 57.6 |
| Triglycerides ≥2.0 (mmol/L) | 30,684 41.0 | 2,111 43.2 | 2,669 43.3 | 3,175 42.4 |
| Systolic pressure <130 (mmHg) | 17,388 23.2 | 1,187 24.3 | 1,512 24.5 | 1,795 24.0 |
| Systolic pressure ≥130 (mmHg) | 57,521 76.8 | 3,697 75.7 | 4,656 75.5 | 5,695 76.0 |
| Diastolic pressure <80 (mmHg) | 33,568 44.8 | 2,169 44.4 | 2,649 43.0 | 3,258 43.5 |
| Diastolic pressure ≥80 (mmHg) | 41,341 55.2 | 2,715 55.6 | 3,519 57.1 | 4,232 56.5 |
| Microalbuminuria Yes | 7,124 9.5 | 419 8.6 | 553 9.0 | 707 9.4 |
| Macrodumbinuria Yes | 2,543 3.4 | 137 2.8 | 202 3.3 | 272 3.6 |
| Physical activity† < once per week | 15,914 21.2 | 1,116 22.9 | 1,338 21.7 | 1,643 21.9 |
| 1-2 times/week | 14,374 19.2 | 920 18.8 | 1,184 19.2 | 1,476 19.7 |
| 3-5 times/week | 17,025 22.7 | 1,020 20.9 | 1,287 20.9 | 1,631 21.8 |
| Daily | 27,596 36.8 | 1,828 37.4 | 2,359 38.3 | 2,740 36.6 |
| Smoking‡ Yes | 9,578 12.8 | 744 15.2 | 972 15.8 | 1,079 14.4 |

Abbreviations: eGFR, estimated glomerular filtration rate; HbA1c, glycated hemoglobin (A1c); HDL, high-density lipoprotein; IQR, inter quartile range; LDL, low-density lipoprotein; SD, standard deviation; TSEK, thousands of Swedish Krona.

* If age ≥65 years and unemployed
† One TSEK is equal to approximately 119 USD
‡ 30-minute walk or equivalent
§ At least one cigarette or pipe per day or stopped smoking within three months
### Appendix 2. Baseline characteristics by level of refill adherence during implementation of lipid-lowering medications, for secondary prevention patients.

|                          | All       | ≤20%      | 21-40%    | 41-60%    | 61-80%    | >80%      |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                          | n = 11,659| n = 598   | n = 666   | n = 870   | n = 1,343 | n = 8,182 |
| Sex                      |           |           |           |           |           |           |
| Men                      | 7,666     | 379       | 416       | 537       | 878       | 5,456     |
| 18–40                    | 57        | 5         | 3         | 3         | 8         | 38        |
| (years)                  | 2,451     | 134       | 173       | 198       | 270       | 1,676     |
| 41–60                    | 7,705     | 386       | 418       | 556       | 922       | 5,423     |
| >80                      | 1,446     | 73        | 72        | 113       | 143       | 1,045     |
| Mean (SD)                | 68.5      | 12.4      | 12.2      | 10.8      | 13.0      | 10.7      |
| Median                   | 69.0      | 15.0      | 15.0      | 15.0      | 14.0      | 14.0      |
| Country of birth         |           |           |           |           |           |           |
| Sweden                   | 9,403     | 458       | 483       | 664       | 1,045     | 6,753     |
| Other Nordic country     | 771       | 59        | 59        | 69        | 93        | 491       |
| Other EU27 country       | 373       | 14        | 34        | 30        | 49        | 246       |
| Rest of Europe           | 459       | 31        | 41        | 41        | 54        | 292       |
| Africa                   | 91        | 6         | 6         | 13        | 17        | 49        |
| Americas/Oceania         |           |           |           |           |           |           |
| Asia                     | 98        | 6         | 4         | 8         | 14        | 66        |
| Middle East country      | 384       | 17        | 30        | 39        | 61        | 237       |
| Marital status           |           |           |           |           |           |           |
| Unmarried                | 1,380     | 73        | 73        | 121       | 146       | 967       |
| Married/registered       | 6,384     | 322       | 337       | 440       | 698       | 4,587     |
| partner                  |           |           |           |           |           |           |
| Divorced                 | 2,246     | 133       | 165       | 190       | 309       | 1,449     |
| Widow/widower            | 1,649     | 70        | 91        | 119       | 190       | 1,179     |
| Education level          |           |           |           |           |           |           |
| Compulsory school or     | 5,386     | 263       | 295       | 404       | 600       | 3,824     |
| lower                    |           |           |           |           |           |           |
| Upper secondary school   | 4,640     | 249       | 271       | 352       | 559       | 3,209     |
| Post-secondary school    | 1,633     | 86        | 100       | 114       | 184       | 1,149     |
| Employment status        |           |           |           |           |           |           |
| Unemployed               | 1,420     | 110       | 104       | 137       | 174       | 895       |
| Employed                 | 4,067     | 182       | 222       | 276       | 451       | 2,936     |
| Retired                  | 6,172     | 306       | 340       | 457       | 718       | 4,351     |
| Profession               |           |           |           |           |           |           |
| Upper white collar       | 3,247     | 152       | 174       | 218       | 390       | 2,313     |
| Lower white collar       | 814       | 70        | 54        | 52        | 99        | 569       |
| Blue collar              | 7,203     | 380       | 421       | 584       | 802       | 5,016     |
| Others                   | 395       | 26        | 17        | 16        | 52        | 284       |
| Individual income (TSEK) | Mean (SD) | Median (IQR) | | Mean (SD) | Median (IQR) |
|--------------------------|-----------|--------------| |--------------------------|-----------|
| No diabetes medications | 9,011 (50.6) | 268 (44.8) | 311 (46.7) | 377 (43.3) | 613 (45.6) | 4,332 (53.0) |
| Insulin only | 1,083 (9.3) | 81 (13.6) | 81 (12.2) | 95 (10.9) | 131 (9.8) | 695 (8.5) |
| Other glucose-lowering medications only | 3,364 (28.9) | 175 (29.3) | 190 (28.5) | 282 (32.4) | 429 (31.9) | 2,288 (28.0) |
| Insulin and other glucose lowering medications | 1,311 (11.2) | 74 (12.4) | 84 (12.6) | 116 (13.3) | 170 (12.7) | 867 (10.6) |
| Anticoagulants | Yes | 6,658 (57.1) | 420 (70.2) | 435 (65.3) | 594 (68.3) | 889 (66.2) | 4,320 (52.8) |
| Antihypertensives | Yes | 7,822 (67.1) | 440 (73.6) | 449 (67.4) | 621 (71.4) | 964 (71.8) | 5,348 (65.4) |
| Cancer diagnosis | Yes | 814 (7.0) | 32 (5.4) | 37 (5.6) | 51 (5.9) | 93 (6.9) | 601 (7.4) |
| Diabetes duration (years) | Mean (SD) | 5.8 (7.6) | 6.9 (8.8) | 6.5 (7.6) | 6.9 (8.3) | 6.3 (7.5) | 5.5 (7.4) |
| | Median (IQR) | 3.0 (7.0) | 4.5 (9.0) | 4.0 (10.0) | 4.6 (10.0) | 4.0 (10.0) | 2.4 (9.0) |
| HbA1c (% [mmol/mol]) | <5 [<42] | 804 (6.9) | 25 (4.2) | 42 (6.3) | 48 (5.5) | 88 (6.6) | 601 (7.4) |
| | 5.6 [42–52] | 6,285 (53.9) | 289 (48.3) | 318 (47.8) | 450 (51.7) | 719 (53.5) | 4,509 (55.1) |
| | >6 [52] | 4,570 (39.2) | 284 (47.5) | 306 (46.0) | 372 (42.8) | 536 (39.9) | 3,072 (37.6) |
| Mean (SD) | 6.1 (2.1) | 6.3 (2.2) | 6.2 (2.1) | 6.2 (2.2) | 6.1 (2.1) | 6.0 (2.0) |
| | Median (IQR) | 52.6 [10.7] | 54.6 [11.7] | 54.1 [11.1] | 53.9 [11.9] | 52.7 [11.0] | 52.2 [10.3] |
| | 50.0 [12.0] | 51.9 [12.5] | 51.6 [12.2] | 50.9 [11.7] | 50.0 [11.0] | 50.0 [10.0] |
| eGFR (ml/min/1.73 m²) | <60 | 1,650 (14.2) | 94 (15.7) | 80 (12.0) | 131 (15.1) | 175 (13.0) | 1,170 (14.3) |
| | ≥60 | 10,000 (85.9) | 504 (84.3) | 586 (88.0) | 739 (84.9) | 1,168 (87.0) | 7,012 (85.7) |
| BMI (kg/m²) | ≤24.9 | 1,214 (10.4) | 59 (9.9) | 59 (8.9) | 81 (9.3) | 149 (11.1) | 866 (10.4) |
| | 25.0–29.9 | 5,993 (51.4) | 301 (50.9) | 327 (49.1) | 448 (51.5) | 680 (50.6) | 4,237 (51.8) |
| | ≥30.0 | 4,452 (38.2) | 238 (39.8) | 280 (42.0) | 341 (39.2) | 514 (38.3) | 3,079 (37.6) |
| Mean (SD) | 29.4 (4.0) | 29.6 (4.0) | 29.6 (3.9) | 29.6 (4.1) | 29.3 (3.9) | 29.3 (4.0) |
| | Median (IQR) | 29.0 (5.1) | 29.2 (4.6) | 29.2 (4.3) | 29.3 (4.5) | 29.2 (4.5) | 29.0 (4.3) |
| LDL cholesterol (mmol/L) | <2.5 | 756 (6.5) | 28 (4.7) | 45 (6.8) | 60 (6.9) | 101 (7.5) | 522 (6.4) |
| | ≥2.5 | 1093 (93.5) | 570 (95.3) | 621 (93.2) | 810 (93.1) | 1,242 (92.5) | 7,660 (93.6) |
| Mean (SD) | 3.4 (0.6) | 3.5 (0.6) | 3.4 (0.6) | 3.4 (0.6) | 3.4 (0.6) | 3.4 (0.6) |
| | Median (IQR) | 3.5 (0.7) | 3.5 (0.6) | 3.4 (0.6) | 3.5 (0.7) | 3.5 (0.6) | 3.5 (0.6) |
| HDL cholesterol | <1.0 (men)/1.3 | 2154 (18.5) | 111 (18.6) | 115 (17.3) | 190 (21.8) | 251 (18.7) | 1,487 (18.2) |
| (mmol/L) | (women) | 9505 | 81.5 | 487 | 81.4 | 551 | 82.7 | 680 | 78.2 | 1092 | 81.2 | 6,695 | 81.8 |
|----------|---------|------|------|-----|------|-----|------|-----|------|------|------|------|------|
| ≥1.0 (men)/1.3 | (women) | 1.2/1. | 0.2/0.3 | 1.2/1.4 | 0.2/0.3 | 1.2/1.4 | 0.3/0.3 | 1.2/1.4 | 0.2/0.3 | 1.2/1.4 | 0.2/0.3 | 1.2/1.4 | 0.2/0.3 |
| Mean (SD) | men/women | 4 | | | | | | | | | | |
| Median (IQR) | men/women | 1.2/1. | 0.2/0.3 | 1.2/1.4 | 0.2/0.3 | 1.2/1.4 | 0.2/0.3 | 1.2/1.4 | 0.2/0.3 | 1.2/1.4 | 0.2/0.3 | 1.2/1.4 | 0.2/0.3 |
| Triglycerides | <2.0 | 7529 | 64.6 | 365 | 61.0 | 424 | 63.7 | 514 | 59.1 | 885 | 65.9 | 5341 | 65.3 |
| (mmol/L) | ≥2.0 | 4130 | 35.4 | 233 | 39.0 | 242 | 36.3 | 356 | 40.9 | 458 | 34.1 | 2841 | 34.7 |
| Mean (SD) | | 1.9 | (0.7) | 2.0 | (0.8) | 2.0 | (0.8) | 2.0 | (0.9) | 1.9 | (0.8) | 1.9 | (0.7) |
| Median (IQR) | | 1.8 | (0.8) | 1.8 | (0.8) | 1.8 | (0.7) | 1.8 | (0.9) | 1.8 | (0.7) | 1.8 | (0.7) |
| Systolic pressure | <130 | 2,451 | 21.0 | 104 | 17.4 | 143 | 21.5 | 166 | 19.1 | 265 | 19.7 | 1,773 | 21.7 |
| (mmHg) | ≥130 | 9,208 | 79.0 | 494 | 82.6 | 523 | 78.5 | 704 | 80.9 | 1,078 | 80.3 | 6,409 | 78.3 |
| Mean (SD) | | 138.2 | (14.6) | 140.0 | (15.0) | 138.9 | (14.7) | 139.3 | (15.4) | 138.5 | (14.4) | 137.9 | (14.5) |
| Median (IQR) | | 137.6 | (15.0) | 139.3 | (17.3) | 137.7 | (17.1) | 138.0 | (16.0) | 138.0 | (15.0) | 137.4 | (15.0) |
| Diastolic pressure | <80 | 6,956 | 59.7 | 349 | 58.4 | 386 | 58.0 | 518 | 59.5 | 803 | 59.8 | 4,900 | 59.9 |
| (mmHg) | ≥80 | 4,703 | 40.3 | 249 | 41.6 | 280 | 42.0 | 352 | 40.5 | 540 | 40.2 | 3,282 | 40.1 |
| Mean (SD) | | 77.1 | (8.2) | 77.9 | (7.8) | 77.8 | (8.6) | 77.1 | (8.0) | 77.2 | (8.3) | 76.9 | (8.1) |
| Median (IQR) | | 78.0 | (5.0) | 78.2 | (5.8) | 78.0 | (5.4) | 77.9 | (5.0) | 77.7 | (5.6) | 78.0 | (5.8) |
| Microalbuminuria | Yes | 1,282 | 11.0 | 80 | 13.4 | 73 | 11.0 | 111 | 12.8 | 175 | 13.0 | 843 | 10.3 |
| Macroalbuminuria | Yes | 561 | 3.2 | 32 | 5.4 | 28 | 4.2 | 60 | 6.9 | 64 | 4.8 | 377 | 4.6 |
| Physical activity | ≤ once per week | 2,780 | 23.8 | 155 | 25.9 | 172 | 25.8 | 212 | 24.4 | 320 | 23.8 | 1,921 | 23.5 |
| | 1-2 times/week | 2,131 | 18.3 | 100 | 16.7 | 116 | 17.4 | 167 | 19.2 | 245 | 18.2 | 1,503 | 18.4 |
| | 3-5 times/week | 2,370 | 20.3 | 114 | 19.1 | 141 | 21.2 | 172 | 19.8 | 268 | 20.0 | 1,675 | 20.5 |
| | Daily | 4,378 | 37.6 | 229 | 38.3 | 237 | 35.6 | 319 | 36.7 | 510 | 38.0 | 3,083 | 37.7 |
| Smoking | Yes | 1,116 | 9.6 | 71 | 11.9 | 77 | 11.6 | 108 | 12.4 | 168 | 12.5 | 692 | 8.5 |

Abbreviations: eGFR, estimated glomerular filtration rate; HbA1c, glycated hemoglobin (A1c); HDL, high-density lipoprotein; IQR, inter quartile range; LDL, low-density lipoprotein; SD, standard deviation; TSEK, thousands of Swedish Krona.

* If age ≥65 years and unemployed
† One TSEK is equal to approximately 119 USD
‡ 30-minute walk or equivalent
§ At least one cigarette or pipe per day or stopped smoking within three month
## Appendix 3. Adjusted hazard ratios for CV events and mortality by level of refill adherence during implementation of lipid-lowering medications, for multiple imputation and complete case analysis.

|                  | MPR (%) |          | Primary prevention |          |          | Secondary prevention |          |          |
|------------------|---------|----------|--------------------|----------|----------|----------------------|----------|----------|
|                  |         |          | n = 74,909 Hazard ratio |          | n = 17,058 Hazard ratio |          | n = 11,659 Hazard ratio |          | n = 1,591 Hazard ratio |          |
|                  |         |          | (95% CI) | p-value | n | (95% CI) | p-value | n | (95% CI) | p-value | n | (95% CI) | p-value |
| **Any CV event** |         |          |          |          |          |          |          |          |          |          |          |          |
| ≤20              |         |          | 577      | 2.36 (2.29–2.42) | <0.0001 | 100 | 2.70 (2.17–2.36) | <0.0001 |          |          |          |          |          |
| 21–40            |         |          | 566      | 1.84 (1.79–1.90) | <0.0001 | 105 | 2.20 (1.77–2.72) | <0.0001 |          |          |          |          |          |
| 41–60            |         |          | 583      | 1.52 (1.48–1.57) | <0.0001 | 121 | 1.75 (1.43–1.45) | <0.0001 |          |          |          |          |          |
| >80              |         |          | 741      | 1.33 (1.29–1.36) | <0.0001 | 124 | 1.35 (1.11–1.65) | 0.0033 |          |          |          |          |          |
|                  |         |          | 567      |          |          | 451 |          |          |          |          |          |          |
| **Unstable angina pectoris** |         |          |          |          |          |          |          |          |          |          |          |          |
| ≤20              |         |          | 197      | 2.23 (2.12–2.34) | <0.0001 | 36  | 2.86 (1.98–4.14) | <0.0001 |          |          |          |          |          |
| 21–40            |         |          | 210      | 1.91 (1.82–2.00) | <0.0001 | 40  | 2.52 (1.78–3.60) | <0.0001 |          |          |          |          |          |
| 41–60            |         |          | 198      | 1.47 (1.40–1.54) | <0.0001 | 31  | 1.35 (0.92–2.00) | 0.1294 |          |          |          |          |          |
| >80              |         |          | 266      | 1.36 (1.30–1.42) | <0.0001 | 42  | 1.42 (1.00–2.00) | 0.0482 |          |          |          |          |          |
|                  |         |          | 689      |          |          | 144 |          |          |          |          |          |          |
| **Myocardial infarction** |         |          |          |          |          |          |          |          |          |          |          |          |
| ≤20              |         |          | 257      | 3.37 (3.22–3.52) | <0.0001 | 44  | 3.74 (2.65–5.29) | <0.0001 |          |          |          |          |          |
| 21–40            |         |          | 218      | 2.29 (2.19–2.41) | <0.0001 | 40  | 2.63 (1.84–3.76) | <0.0001 |          |          |          |          |          |
| 41–60            |         |          | 206      | 1.76 (1.68–1.85) | <0.0001 | 44  | 2.12 (1.50–2.99) | <0.0001 |          |          |          |          |          |
| >80              |         |          | 234      | 1.39 (1.32–1.45) | <0.0001 | 45  | 1.62 (1.15–2.28) | 0.0054 |          |          |          |          |          |
|                  |         |          | 758      |          |          | 131 |          |          |          |          |          |          |
| **Ischemic heart disease** |         |          |          |          |          |          |          |          |          |          |          |          |
| ≤20              |         |          | 231      | 2.41 (2.30–2.52) | <0.0001 | 40  | 2.84 (2.00–4.02) | <0.0001 |          |          |          |          |          |
| 21–40            |         |          | 237      | 2.00 (1.90–2.08) | <0.0001 | 41  | 2.21 (1.57–3.12) | <0.0001 |          |          |          |          |          |
| 41–60            |         |          | 235      | 1.59 (1.52–1.67) | <0.0001 | 42  | 1.60 (1.14–2.25) | 0.0067 |          |          |          |          |          |
| >80              |         |          | 294      | 1.37 (1.31–1.43) | <0.0001 | 55  | 1.59 (1.17–2.15) | 0.0032 |          |          |          |          |          |
|                  |         |          | 953      |          |          | 168 |          |          |          |          |          |          |
| **Stroke**       |         |          |          |          |          |          |          |          |          |          |          |          |
| ≤20              |         |          | 192      | 2.29 (2.18–2.40) | <0.0001 | 39  | 2.96 (2.07–4.22) | <0.0001 |          |          |          |          |          |
| 21–40            |         |          | 179      | 1.75 (1.66–1.84) | <0.0001 | 36  | 2.19 (1.52–3.15) | <0.0001 |          |          |          |          |          |
| 41–60            |         |          | 188      | 1.47 (1.40–1.54) | <0.0001 | 42  | 1.76 (1.27–2.51) | 0.0010 |          |          |          |          |          |
| >80              |         |          | 252      | 1.37 (1.31–1.43) | <0.0001 | 35  | 1.10 (0.76–1.59) | 0.6042 |          |          |          |          |          |
|                  |         |          | 855      |          |          | 156 |          |          |          |          |          |          |
| **All-cause mortality** |         |          |          |          |          |          |          |          |          |          |          |          |
| ≤20              |         |          | 231      | 0.98 (0.94–1.02) | 0.8547 | 26  | 0.66 (0.44–0.98) | 0.0410 |          |          |          |          |          |
| 21–40            |         |          | 370      | 1.16 (1.12–1.20) | <0.0001 | 53  | 1.14 (0.85–1.51) | 0.3860 |          |          |          |          |          |
| 41–60            |         |          | 381      | 1.10 (1.06–1.13) | <0.0001 | 75  | 1.10 (0.86–1.40) | 0.4620 |          |          |          |          |          |
| >80              |         |          | 577      | 1.14 (1.11–1.18) | <0.0001 | 113 | 1.27 (1.03–1.56) | 0.0240 |          |          |          |          |          |
| **CV**           |         |          | 84       | 1.18 (1.10–1.27) | <0.0001 | 9   | 0.82 (0.41–1.61) | 0.5581 |          |          |          |          |          |
### Abbreviations:
- CI: confidence interval
- CV: cardiovascular
- MPR: medication possession ratio
- ref: reference

*Adjusted for all baseline covariates.*
Appendix 4. Adjusted\(^*\) hazard ratios for CV events and mortality in relation to 18-months persistence to lipid-lowering medications, for multiple imputations and complete case analysis.

| Persistent | Primary prevention | | Secondary prevention | |
|------------|--------------------|----------------|---------------------|----------------|
|            | Multiple imputations | Complete cases | Multiple imputations | Complete cases |
|            | \( n = 74,909\) | \( n = 17,058\) | \( n = 11,659\) | \( n = 1,591\) |
|            | Hazard ratio | Hazard ratio | Hazard ratio | Hazard ratio |
|            | \( (95\% \text{ CI}) \) | p-value | \( (95\% \text{ CI}) \) | p-value | \( (95\% \text{ CI}) \) | p-value | \( (95\% \text{ CI}) \) | p-value |
| Any CV event | No | 1,568 | 1.65 (1.62–1.68) | \(<0.0001\) | 290 | 1.96 (1.70–2.26) | \(<0.0001\) | 779 | 1.22 (1.19–1.25) | \(<0.0001\) | 98 | 1.36 (1.08–1.72) | 0.0090 |
|            | Yes | 3,441 | ref | ref | 611 | ref | ref | 3,004 | ref | ref | 365 | ref | ref | ref |
| Unstable angina pectoris | No | 554 | 1.71 (1.66–1.77) | \(<0.0001\) | 102 | 2.11 (1.66–2.69) | \(<0.0001\) | 268 | 1.34 (1.28–1.40) | \(<0.0001\) | 29 | 1.15 (0.75–1.75) | 0.5274 |
|            | Yes | 1,186 | ref | ref | 191 | ref | ref | 915 | ref | ref | 127 | ref | ref | ref |
| Myocardial infarction | No | 624 | 2.20 (2.13–2.27) | \(<0.0001\) | 115 | 2.38 (1.88–3.00) | \(<0.0001\) | 227 | 1.88 (1.79–1.97) | \(<0.0001\) | 35 | 2.19 (1.42–3.37) | 0.0004 |
|            | Yes | 1,049 | ref | ref | 189 | ref | ref | 580 | ref | ref | 67 | ref | ref | ref |
| Ischemic heart disease | No | 637 | 1.79 (1.74–1.85) | \(<0.0001\) | 114 | 1.99 (1.58–2.49) | \(<0.0001\) | 529 | 1.25 (1.22–1.29) | \(<0.0001\) | 70 | 1.48 (1.12–1.95) | 0.0058 |
|            | Yes | 1,131 | ref | ref | 232 | ref | ref | 2,141 | ref | ref | 239 | ref | ref | ref |
| Stroke | No | 513 | 1.69 (1.63–1.75) | \(<0.0001\) | 102 | 2.03 (1.60–2.50) | \(<0.0001\) | 221 | 1.61 (1.53–1.69) | \(<0.0001\) | 27 | 1.43 (0.91–2.25) | 0.1181 |
|            | Yes | 1,153 | ref | ref | 206 | ref | ref | 669 | ref | ref | 91 | ref | ref | ref |
| All-cause mortality | No | 842 | 1.06 (1.04–1.09) | \(<0.0001\) | 133 | 0.98 (0.77–1.12) | 0.4454 | 308 | 1.18 (1.13–1.23) | \(<0.0001\) | 34 | 0.92 (0.62–1.37) | 0.6867 |
|            | Yes | 3,058 | ref | ref | 579 | ref | ref | 1,213 | ref | ref | 148 | ref | ref | ref |
| CV mortality | No | 276 | 1.15 (1.10–1.20) | \(<0.0001\) | 42 | 1.03 (0.93–1.46) | 0.8469 | 179 | 1.29 (1.22–1.36) | \(<0.0001\) | 25 | 1.57 (0.96–2.58) | 0.0714 |
|            | Yes | 928 | ref | ref | 159 | ref | ref | 645 | ref | ref | 69 | ref | ref | ref |

Abbreviations: CI, confidence interval; CV, cardiovascular; MPR, medication possession ratio; ref, reference.

\(^*\)Adjusted for all baseline covariates.