

## Supplemental Material

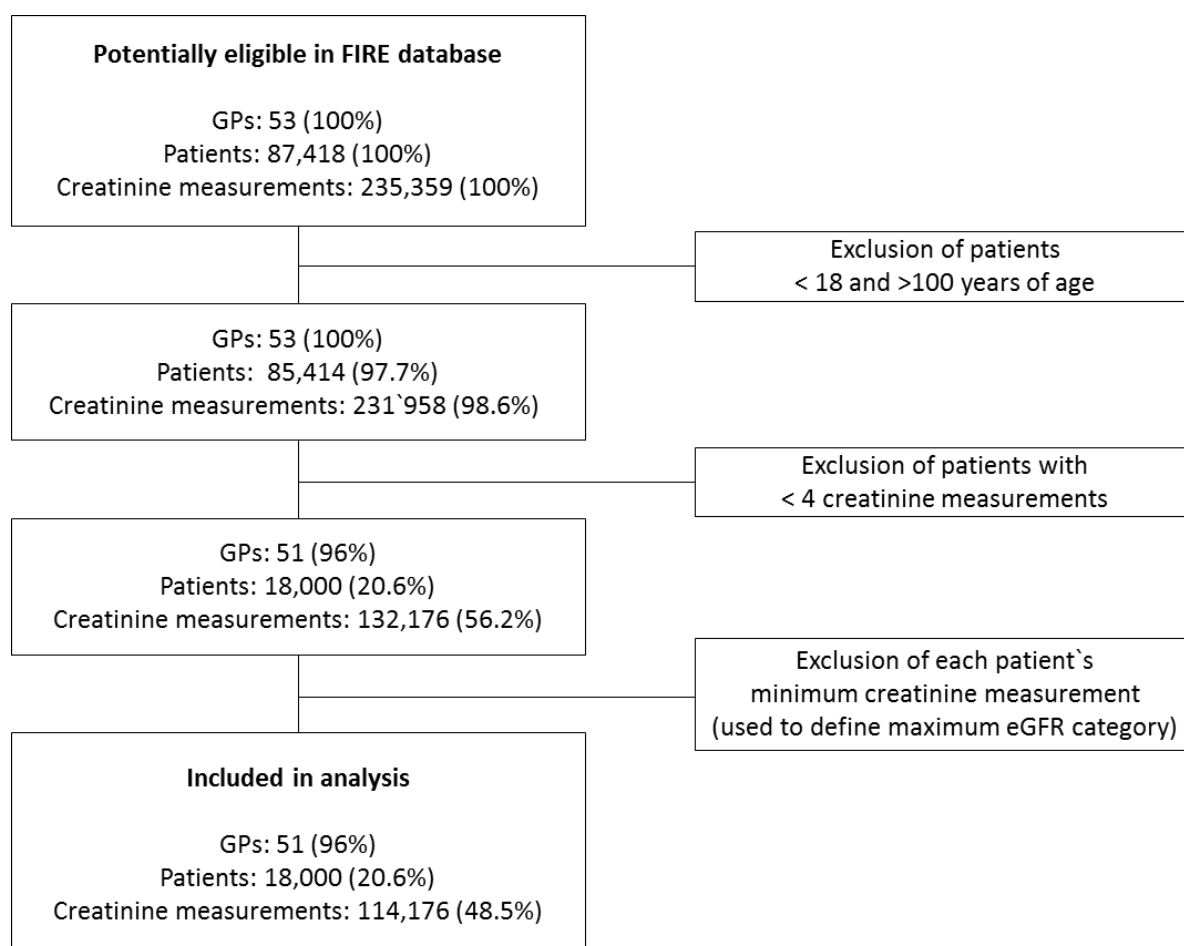
**Supplemental Table 1.** Associations of our adjustment factors with the outcome eGFR.

|                                   | Bivariable regression |                |         | Multivariable regression |                |         |
|-----------------------------------|-----------------------|----------------|---------|--------------------------|----------------|---------|
|                                   | Coefficient           | Standard error | P-Value | Coefficient              | Standard error | P-Value |
| <b>Intercept</b>                  |                       |                |         | 121.9                    | 1.10           | 0.000   |
| <b>Sex (male vs female)</b>       | 0.48                  | 0.23           | 0.042   | 0.03                     | 0.2            | 0.132   |
| <b>Age</b>                        |                       |                |         |                          |                |         |
| degree=3, knots=15:1              |                       |                |         | -23.7                    | 1.6            | 0.000   |
| degree=3, knots=15:2              |                       |                |         | -20.9                    | 0.8            | 0.000   |
| degree=3, knots=15:3              |                       |                |         | -42.1                    | 1.1            | 0.000   |
| degree=3, knots=15:4              |                       |                |         | -47.6                    | 1.5            | 0.000   |
| <b>BMI group</b>                  |                       |                |         |                          |                |         |
| Normal                            | 0.00                  |                |         |                          |                |         |
| Low                               | 0.40                  | 0.41           | 0.326   | -0.18                    | 0.4            | 0.602   |
| Overweight                        | -0.53                 | 0.15           | 0.000   | 0.47                     | 0.1            | 0.000   |
| Grade 1                           | -1.10                 | 0.19           | 0.000   | 1.05                     | 0.2            | 0.000   |
| Grade 2                           | -1.10                 | 0.26           | 0.000   | 1.91                     | 0.2            | 0.000   |
| Grade 3                           | -2.35                 | 0.41           | 0.000   | 1.61                     | 0.4            | 0.000   |
| NA                                | -2.18                 | 0.16           | 0.000   | 0.43                     | 0.1            | 0.003   |
| <b>Hypertension group</b>         |                       |                |         |                          |                |         |
| No grade                          | 0                     |                |         |                          |                |         |
| Grade 1                           | 0.73                  | 0.26           | 0.005   | 1.8                      | 0.2            | 0.000   |
| Grade 2                           | 0.67                  | 0.42           | 0.112   | 1.8                      | 0.4            | 0.000   |
| Grade 3                           | -1.16                 | 0.77           | 0.132   | 1.2                      | 0.6            | 0.055   |
| <b>Number of chronic diseases</b> |                       |                |         |                          |                |         |
| no                                | 0.00                  |                |         |                          |                |         |
| 1                                 | 1.99                  | 0.18           | 0.000   | 1.7                      | 0.2            | 0.000   |
| 2                                 | 2.56                  | 0.19           | 0.000   | 2.2                      | 0.2            | 0.000   |
| 3                                 | 2.92                  | 0.20           | 0.000   | 2.5                      | 0.2            | 0.000   |
| 4                                 | 2.96                  | 0.21           | 0.000   | 2.5                      | 0.2            | 0.000   |
| 5-10                              | 2.71                  | 0.21           | 0.000   | 2.0                      | 0.2            | 0.000   |
| ≥ 11                              | 0.77                  | 0.31           | 0.014   | 0.4                      | 0.3            | 0.114   |

| eGFR category according to KDIGO 2012 |        |      |       |       |     |       |
|---------------------------------------|--------|------|-------|-------|-----|-------|
| Stage 1                               | 0.00   |      |       |       |     |       |
| Stage 2                               | -16.84 | 0.21 | 0.000 | -13.4 | 0.3 | 0.000 |
| Stage 3a                              | -36.61 | 0.37 | 0.000 | -24.5 | 0.4 | 0.000 |
| Stage 3b                              | -47.04 | 0.52 | 0.000 | -36.0 | 0.6 | 0.000 |
| Stage 4                               | -59.73 | 0.96 | 0.000 | -49.2 | 1.2 | 0.000 |
| Stage 5                               | -72.07 | 2.94 | 0.000 | -67.4 | 4.0 | 0.000 |

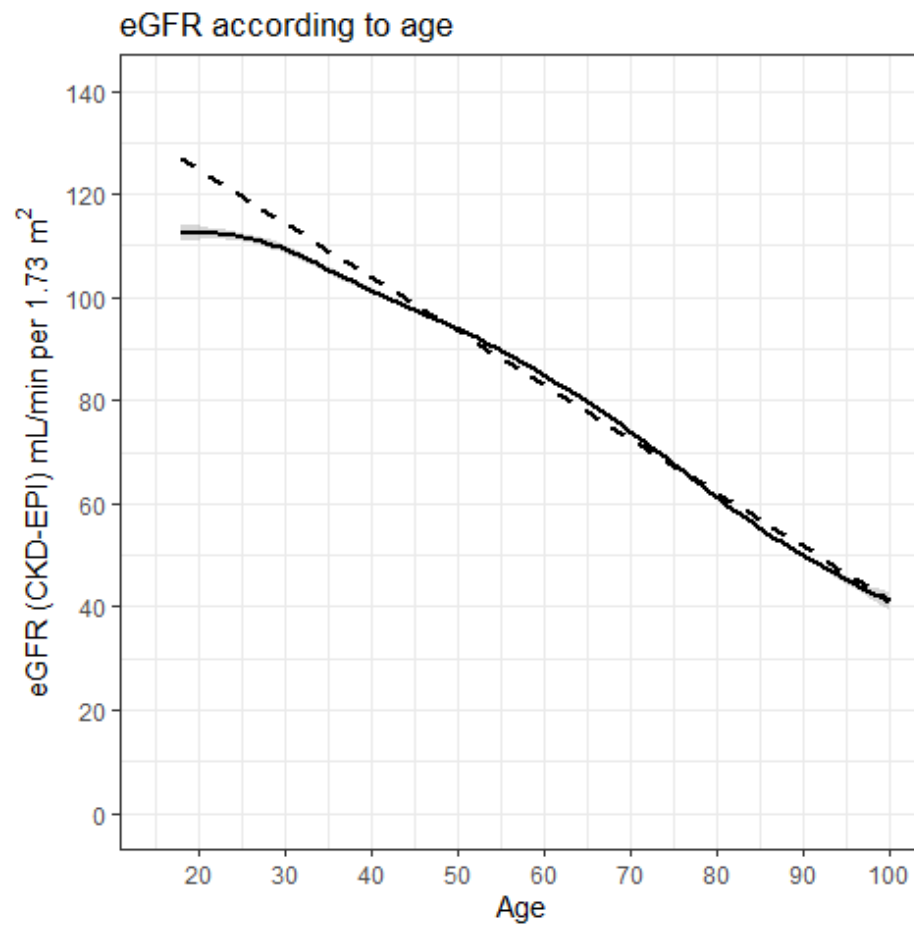
Except for gender, all factors chosen for adjustment were independently associated with significant eGFR changes.

**Supplemental Figure 1.** Flowchart of patients and data selection process.



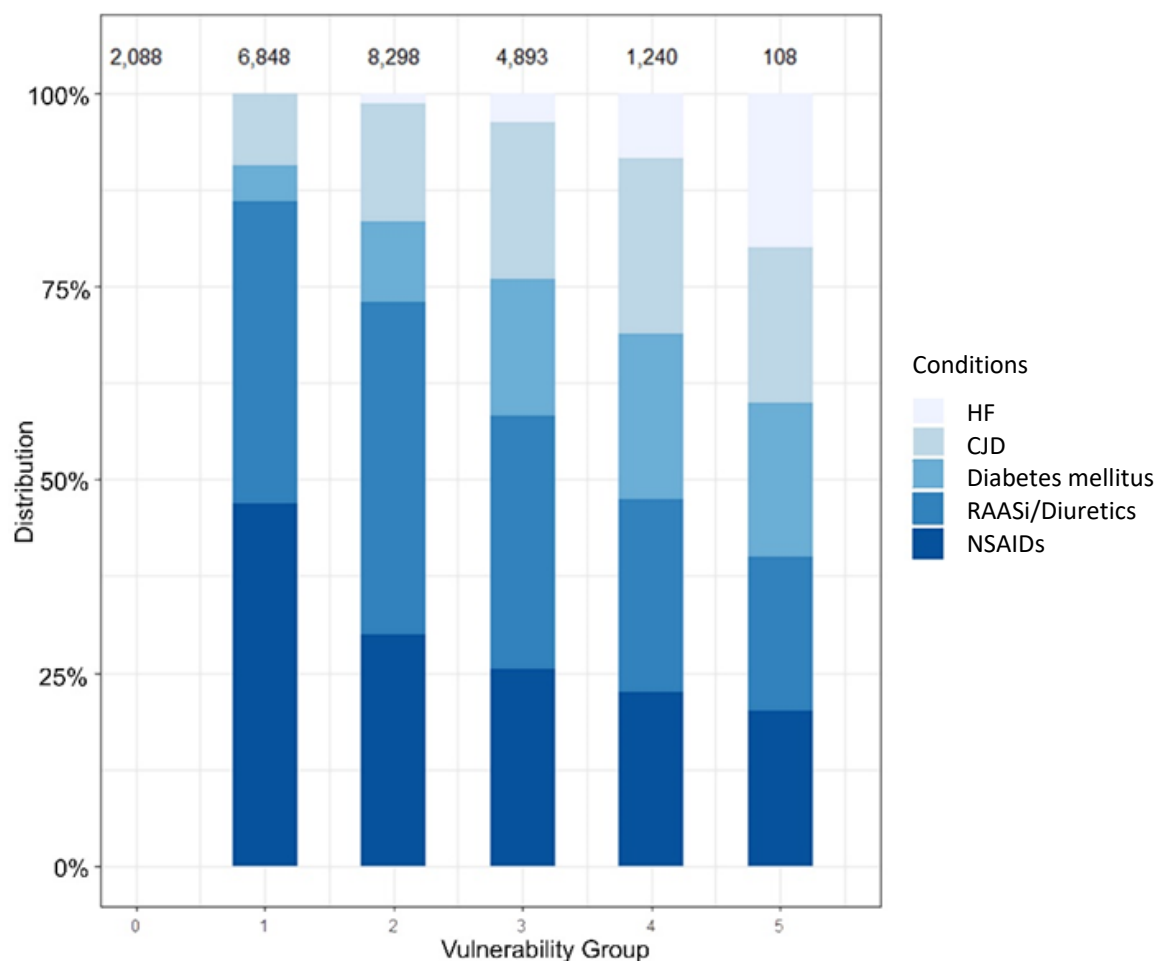
Flow chart shows total numbers (%) from initial screening to final inclusion for analysis. FIRE = family medicine ICPC research using electronic medical records, GP = general practitioner, eGFR = estimated glomerular filtration rate.

**Supplemental Figure 2.** Association between age and eGFR in our primary care cohort.



Solid line is a smoothed curve, dashed is a linear fit.

**Supplemental Figure 3.** Distribution of vulnerability conditions.



The numbers above the bars are the number of patients. In vulnerability group 1 each of the 6,848 patients has one of the 5 conditions. In group 2 each of the 8,298 patients has two of the 5 conditions etc. All of the 108 patients in group 5 have all five conditions. Abbreviations: HF = Heart failure, CKD = chronic kidney disease, RAASi/Diuretics = Renin-Angiotensin-Aldosterone-System inhibitors or diuretics, NSAIDs = non-steroidal anti-inflammatory/antirheumatic drugs.