**Supplementary Material 5.** The number and age specific rate (ASR) of chronic kidney disease (CKD) bay sex, etiology, and age groups from 1990 to 2019 in Iran (Joinpoint regression model)

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| --- | --- | --- | --- |
|  | Case numbers (×1000) | ASR (×100,000) | AAPC ǂ (95% CI) of ASR |
| 1990 | 2019 | 1990 (95% CI) | 2019 (95% CI) | 1990-2019 |
| Sex |
| Both | 79.26 | 301.24 | 156.41 (152.20, 160.63) | 377.24 (373.03, 381.46) | 3.1 (3.0, 3.2) |
| Male | 36.28 | 128.26 | 138.59 (133.81, 143.37) | 317.21 (312.43, 321.99) | 2.9 (2.8, 3.0) |
| Female | 42.98 | 172.98 | 175.15 (170.00, 180.31) | 438.56 (433.41, 443.72) | 3.2 (3.1, 3.3) |
| Etiology  |
| Diabetes mellitus I | 1.02 | 2.44 | 1.91 (1.75, 2.07) | 3.01 (2.85, 3.16) | 1.6 (1.5, 1.7) |
| Diabetes mellitus II | 9.46 | 38.28 | 18.87 (18041, 19.34) | 47.99 (47.52, 48.46) | 3.3 (3.2, 3.4) |
| Hypertension | 5.13 | 23.03 | 10.42 (10.15, 10.69) | 28.93 (28.65, 29.20) | 3.6 (3.5, 3.7) |
| Glomerulonephritis | 5.21 | 11.16 | 9.53 (9.30, 9.77) | 13.77 (13.54, 14.00) | 1.3 (1.2, 1.4) |
| Other causes | 58.43 | 226.33 | 115.67 (112.54, 118.80) | 283.55 (280.42, 286.68) | 3.1 (3.0, 3.2) |
| Age groups (yr)b |
| 0-19 | 13.38 | 13.72 | 38.93 (36.45, 41.40) | 57.99 (55.51, 60.46) | 1.4 (1.3, 1.5) |
| 20-3 | 5.66 | 19.42 | 40.94 (39.37, 42.50) | 61.12 (59.55, 62.68) | 1.4 (1.3, 1.5) |
| 40-59 | 21.10 | 103.32 | 431.38 (423.09, 439.67) | 576.26 (567.97, 584.54) | 1.0 (0.9, 1.1) |
| ≥60 | 39.11 | 164.76 | 1631.60 (1569.45, 1693.76) | 2305.31 (2243.15, 2367.46) | 1.2 (1.1, 1.3) |

ǂ Average Annual Percent Change (AAPC)

P< 0.05.

a The 95% CIs of AAPC were calculated by using the Joinpoint regression model

b The incidence rates for age groups have not been standardized by age.