Supplemental Online Content

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This supplemental material has been provided by the authors to give readers additional information about their work.
eFigure 1. Patient Sampling Frame

Subjects from USRDS
N=3,081,768

Incident ESKD 2006-2016
N=1,295,935

Age at 1st ESKD service >0 and ≤100
N=1,294,627

Alive > 90 days after 1st ESKD service
N=1,193,887

No kidney transplant ≤ 90 days from 1st ESKD service
N=1,155,349

Not missing treatment history
N=1,145,728

Did not recover renal function ≤ 180 days from 1st ESKD service
N=1,082,939

Known dialysis modality at day 90
N=1,079,075

Has ≥ 1 medical evidence form
N=1,068,670

Has ≥ 1 medical evidence form date
N=1,068,005

Medical evidence form completed ≤ 90 days of 1st ESKD service
N=1,023,454

INCIDENT PATIENTS
N=988,153

1. Incident ESKD <2006 or > 2016
N=1,785,833

2. Incident age = 0, > 100, or Missing
N=1,308

3. Date of death ≤ 90 days from 1st ESKD service
N=100,740

4. Kidney transplant ≤ 90 days from 1st EKRD service
N=38,538

5. Missing treatment history
N=9,261

6. Recovered renal function ≤ 180 days from 1st ESKD service
N=62,789

7. Unknown/Uncertain dialysis modality at day 90
N=3,864

8. No medical evidence form
N=10,405

9. Unknown medical evidence form date
N=665

10. Medical evidence form completed >90 days after 1st ESKD service
N=56,775

11. No or bad zip code match or zip code in Puerto Rico
N=16,964
INCIDENT PATIENTS age 18-64
“at risk” for Medicare enrollment
N=335,157

Timing of Medicare Enrollment Decision

Day 1 of Dialysis Initiation
“at risk” for Medicare enrollment
N=335,157

Status on Day 1
Pending Medicare  N=205,671
Other Coverage       N=129,486

Days 2-365 of Dialysis Initiation
“at risk” for Medicare enrollment
N=129,486

12. Age ≥65 and/or Medicare at dialysis initiation
    Age ≥ 65  N= 477,131
    Age 18-64, Medicare enrolled  N= 175,865
    N= 652,996

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eFigure 2. Sample: Patients With Incident End-Stage Kidney Disease, by Insurance Status at Dialysis Initiation 2006-2016

Note: Lines for all 3 time periods of those Pending Medicare at dialysis initiation overlap because those with Pending Medicare undergo a 90-day waiting period before enrollment is activated. By the end of the 90 days, these patients are actively enrolled in Medicare.
eTable. Characteristics of Patients Age 18-64 With Other Insurance Coverage at Dialysis Initiation (Days 2-365 of Dialysis Analysis), 2006-2016

| Patient Characteristics, at Dialysis Initiation | OVERALL (n= 129,486) | 2006-2010 (n=49,466) | 2011-2013 (n=34,091) | 2014-2016 (n=45,929) |
|-----------------------------------------------|----------------------|----------------------|----------------------|----------------------|
| Age (Mean, SD)                                | 49.8 (11.1)          | 49.7 (11.0)          | 49.9 (11.1)          | 49.9 (11.1)          |
| 18-44                                         | 35,739 (27.6)        | 13,707 (27.7)        | 9,236 (27.1)         | 12,796 (27.9)        |
| 45-54                                         | 39,160 (30.2)        | 15,328 (31.0)        | 10,273 (30.1)        | 13,559 (29.5)        |
| 55-64                                         | 54,587 (42.2)        | 20,431 (41.3)        | 14,582 (42.8)        | 19,574 (42.6)        |
| Male (N, %)                                   | 74,345 (57.4)        | 27,429 (55.5)        | 19,766 (58.0)        | 27,150 (59.1)        |
| Race & ethnicity (N, %)                       |                      |                      |                      |                      |
| White                                         | 71,366 (55.1)        | 26,114 (52.8)        | 19,000 (55.7)        | 26,252 (57.2)        |
| Black                                         | 46,869 (36.2)        | 19,139 (38.7)        | 12,238 (35.9)        | 15,492 (33.7)        |
| Other                                         | 11,251 (8.7)         | 4,213 (8.5)          | 2,853 (8.4)          | 4,185 (9.1)          |
| Hispanic Ethnicity (N, %)                     | 24,591 (19.0)        | 9,455 (19.1)         | 6,609 (19.4)         | 8,527 (18.6)         |
| Employed full or part-time (N, %)             | 32,411 (25.0)        | 11,757 (23.8)        | 8,188 (24.0)         | 12,466 (27.1)        |
| Urban residential status (N, %)               | 112,668 (87.2)       | 43,507 (88.1)        | 29,652 (87.2)        | 39,509 (86.3)        |
| Region (N, %)                                 |                      |                      |                      |                      |
| South                                         | 44,069 (34.0)        | 15,813 (32.0)        | 11,437 (33.5)        | 16,819 (36.6)        |
| Midwest                                       | 25,992 (20.1)        | 10,336 (20.9)        | 6,790 (19.9)         | 8,866 (19.3)         |
| Northeast                                     | 26,507 (20.5)        | 10,653 (21.5)        | 7,190 (21.1)         | 8,664 (18.9)         |
| West                                          | 32,918 (25.4)        | 12,664 (25.6)        | 8,674 (25.4)         | 11,580 (25.2)        |
| Dialysis modality (N, %)                      |                      |                      |                      |                      |
| In-Center Hemodialysis                        | 115,274 (89.0)       | 45,318 (91.6)        | 30,290 (88.9)        | 39,666 (86.4)        |
| Home Hemodialysis                             | 369 (0.3)            | 113 (0.2)            | 123 (0.4)            | 133 (0.3)            |
| Peritoneal Dialysis                           | 13,843 (10.7)        | 4,035 (8.2)          | 3,678 (10.8)         | 6,130 (13.3)         |
| Cause of ESKD (N, %)                          |                      |                      |                      |                      |
| Diabetes                                      | 59,192 (45.7)        | 22,292 (45.1)        | 15,410 (45.2)        | 21,490 (46.8)        |
| Hypertension                                  | 34,008 (26.3)        | 12,132 (24.5)        | 9,221 (27.0)         | 12,655 (27.6)        |
| Diagnosis                   | OVERALL (n= 129,486) | 2006-2010 (n=49,466) | 2011-2013 (n=34,091) | 2014-2016 (n=45,929) |
|-----------------------------|-----------------------|----------------------|----------------------|----------------------|
| Glomerulonephritis          | 15,728 (12.1)         | 6,294 (12.7)         | 4,185 (12.3)         | 5,249 (11.4)         |
| Other                       | 17,082 (13.2)         | 6,909 (14.0)         | 4,334 (12.7)         | 5,839 (12.7)         |
| Unknown                     | 3,476 (2.7)           | 1,839 (3.7)          | 941 (2.8)            | 696 (1.5)            |
| Comorbidities (N, %)        |                       |                      |                      |                      |
| Hypertension                | 112,989 (87.3)        | 42,724 (86.4)        | 29,936 (87.8)        | 40,329 (87.8)        |
| Diabetes                    | 68,839 (53.2)         | 25,616 (51.8)        | 18,069 (53.0)        | 25,154 (54.8)        |
| Congestive heart failure    | 27,155 (21.0)         | 11,304 (22.9)        | 6,972 (20.5)         | 8,879 (19.3)         |
| Atherosclerotic heart disease| 12,159 (9.4)          | 5,636 (11.4)         | 3,211 (9.4)          | 3,312 (7.2)          |
| Peripheral vascular disease | 9,250 (7.1)           | 4,065 (8.2)          | 2,384 (7.0)          | 2,801 (6.1)          |
| Pre-ESKD nephrology care (N, %) |                       |                      |                      |                      |
| Yes                         | 73,196 (56.5)         | 26,481 (53.5)        | 19,273 (56.5)        | 27,442 (59.7)        |
| No                          | 38,666 (29.9)         | 16,564 (33.5)        | 10,239 (30.0)        | 11,863 (25.8)        |
| Unknown                     | 17,624 (13.6)         | 6,421 (13.0)         | 4,579 (13.4)         | 6,624 (14.4)         |
| BMI, (Mean, SD)             | 30.0 (8.5)            | 29.7 (8.6)           | 30.2 (8.6)           | 30.3 (8.4)           |
| eGFR b, mL/mn/1.73m2 (Mean, SD) | 10.3 (11.3)          | 10.7 (12.3)          | 10.4 (11.1)          | 9.8 (10.2)           |
| Market characteristics (Hospital Service Area) |                       |                      |                      |                      |
| % Freestanding facilities (Mean, SD) | 91.3 (16.9)          | 88.9 (19.0)          | 91.6 (16.6)          | 93.6 (14.1)          |
| % For-profit owned (Mean, SD) | 84.7 (22.9)          | 81.7 (25.0)          | 85.2 (22.5)          | 87.6 (20.4)          |
| % Chain affiliated (Mean, SD) | 86.0 (21.3)          | 82.5 (23.7)          | 85.6 (21.4)          | 89.9 (17.6)          |
| % Urban facility location (Mean, SD) | 89.1 (29.3)          | 90.0 (28.2)          | 89.2 (29.2)          | 88.1 (30.5)          |
| Dialysis market competition (Mean, SD) | 37.1 (34.1)          | 35.7 (33.6)          | 37.2 (34.1)          | 38.7 (34.5)          |
| % Urban general population (Mean, SD) | 86.2 (19.2)          | 86.9 (18.9)          | 86.3 (19.2)          | 85.4 (19.6)          |
| Per capita income (Median, IQR) | $42,235               | $38,773              | $42,897              | $45,824              |
|                              | ($36,300, $49,623)    | ($33,352, $45,113)   | ($37,263, $48,943)   | ($39,893, $53,805)   |

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Note: Unadjusted annual rates of Medicare enrollment by the end of the first year of dialysis shows a general downward trend for patients’ decision points for enrolling in Medicare: on Day 1 of Dialysis Initiation or Days 2-365 of Dialysis Initiation. This figure also extrapolates the 2006-2010 trends over the years 2011-2016 to that interpretation of our approach of modeling 3 policy periods is consistent with results that would generated from other models that specify time linearly in years (e.g., interrupted time series).