

Table 51. End-stage renal disease patients, by selected characteristics: United States, selected years 1980-2008

(Data are based on the Centers for Medicare & Medicaid Services' Renal Beneficiary and Utilization System)

| Characteristic | Incidence | | | | | Prevalence | | | | |
|--------------------------------------|------------------------|--------|---------|---------|---------|---|---------|---------|---------|---------|
| | 1980 | 1990 | 2000 | 2007 | 2008 | 1980 | 1990 | 2000 | 2007 | 2008 |
| | Number of new patients | | | | | Number of patients alive on December 31 | | | | |
| Total..... | 17,337 | 49,759 | 92,050 | 109,098 | 110,175 | 58,258 | 182,609 | 383,824 | 515,290 | 535,166 |
| Age | | | | | | | | | | |
| Under 20 years..... | 738 | 1,050 | 1,172 | 1,251 | 1,277 | 2,368 | 4,485 | 6,287 | 7,205 | 7,216 |
| 20-44 years..... | 4,701 | 10,346 | 12,800 | 13,532 | 13,410 | 20,212 | 57,142 | 87,827 | 95,003 | 95,870 |
| 45-64 years..... | 6,949 | 17,156 | 32,126 | 41,340 | 42,081 | 23,683 | 67,095 | 156,691 | 228,592 | 239,158 |
| 65-74 years..... | 3,644 | 13,338 | 23,341 | 25,033 | 25,369 | 9,205 | 35,577 | 76,241 | 102,788 | 108,212 |
| 75 years and over..... | 1,305 | 7,869 | 22,611 | 27,942 | 28,038 | 2,790 | 18,310 | 56,778 | 81,702 | 84,710 |
| Sex | | | | | | | | | | |
| Male..... | 9,661 | 26,671 | 49,150 | 61,126 | 62,117 | 32,181 | 98,438 | 209,491 | 289,274 | 301,436 |
| Female..... | 7,676 | 23,088 | 42,900 | 47,972 | 48,058 | 26,077 | 84,171 | 174,333 | 226,016 | 233,730 |
| Race [†] | | | | | | | | | | |
| White..... | 12,295 | 33,133 | 61,043 | 71,544 | 72,391 | 41,051 | 118,535 | 237,068 | 316,938 | 328,250 |
| Black or African American..... | 4,814 | 14,831 | 26,659 | 31,429 | 31,620 | 16,432 | 57,368 | 126,137 | 166,249 | 172,719 |
| American Indian or Alaska Native.... | 124 | 599 | 1,201 | 1,250 | 1,261 | 374 | 2,175 | 5,393 | 7,045 | 7,220 |
| Asian or Pacific Islander..... | 104 | 1,196 | 3,147 | 4,875 | 4,903 | 401 | 4,531 | 15,226 | 25,058 | 26,977 |
| Hispanic origin ^{**} | | | | | | | | | | |
| Hispanic..... | --- | --- | 10,723 | 13,706 | 14,158 | --- | --- | 42,417 | 69,698 | 74,583 |
| Not Hispanic [‡] | --- | --- | 81,327 | 95,392 | 96,017 | --- | --- | 341,407 | 445,592 | 460,583 |
| Primary diagnosis | | | | | | | | | | |
| Diabetes..... | 2,590 | 17,708 | 41,108 | 47,904 | 48,303 | 5,580 | 46,943 | 135,995 | 192,645 | 201,003 |
| Hypertension..... | 3,092 | 15,195 | 24,686 | 30,485 | 31,085 | 9,425 | 47,246 | 94,728 | 126,299 | 131,585 |
| Glomerulonephritis..... | 2,725 | 6,913 | 8,433 | 7,462 | 7,350 | 13,359 | 39,704 | 67,650 | 79,745 | 81,253 |
| Cystic kidney..... | 756 | 1,550 | 2,137 | 2,612 | 2,648 | 3,625 | 9,969 | 17,856 | 24,456 | 25,713 |
| Other urologic..... | 460 | 1,261 | 2,669 | 1,516 | 1,533 | 1,586 | 6,087 | 11,652 | 12,830 | 12,776 |
| Other cause..... | 1,787 | 4,800 | 8,911 | 14,008 | 14,128 | 6,576 | 21,429 | 39,375 | 55,763 | 58,411 |
| Unknown cause..... | 1,512 | 1,857 | 3,662 | 4,608 | 4,355 | 5,852 | 8,212 | 13,868 | 19,933 | 20,556 |
| Missing disease..... | 4,415 | 475 | 444 | 503 | 773 | 12,255 | 3,019 | 2,700 | 3,619 | 3,869 |
| New patients per million population | | | | | | | | | | |
| Total..... | 76.3 | 199.3 | 326.2 | 362.1 | 362.4 | 255.0 | 726.7 | 1,353.4 | 1,702.5 | 1,752.1 |
| Age | | | | | | | | | | |
| Under 20 years..... | 10.2 | 14.6 | 14.6 | 15.2 | 15.5 | 32.7 | 62.1 | 78.0 | 87.4 | 87.1 |
| 20-44 years..... | 55.6 | 103.3 | 122.9 | 129.6 | 128.3 | 236.6 | 565.9 | 841.7 | 909.4 | 917.3 |
| 45-64 years..... | 156.2 | 370.5 | 514.8 | 539.7 | 539.1 | 530.9 | 1,440.2 | 2,471.1 | 2,956.1 | 3,035.4 |
| 65-74 years..... | 232.8 | 736.7 | 1,270.7 | 1,292.4 | 1,260.7 | 583.3 | 1,954.9 | 4,155.7 | 5,205.4 | 5,278.8 |
| 75 years and over..... | 129.8 | 598.7 | 1,353.3 | 1,504.5 | 1,495.6 | 273.4 | 1,373.5 | 3,367.9 | 4,378.5 | 4,497.8 |
| Sex | | | | | | | | | | |
| Male..... | 87.5 | 219.1 | 355.0 | 411.7 | 414.3 | 289.9 | 803.2 | 1,504.8 | 1,938.9 | 2,000.9 |
| Female..... | 65.7 | 180.5 | 298.5 | 313.9 | 311.8 | 222.1 | 653.8 | 1,207.4 | 1,472.6 | 1,510.0 |
| Race [†] | | | | | | | | | | |
| White..... | 63.0 | 158.3 | 264.7 | 293.9 | 295.2 | 209.5 | 563.2 | 1,023.8 | 1,297.2 | 1,333.5 |
| Black or African American..... | 179.8 | 483.9 | 726.0 | 788.2 | 783.3 | 609.0 | 1,852.4 | 3,413.6 | 4,143.8 | 4,252.9 |
| American Indian or Alaska Native.... | 86.7 | 291.0 | 404.3 | 372.0 | 368.5 | 255.7 | 1,039.3 | 1,799.3 | 2,077.5 | 2,091.1 |
| Asian or Pacific Islander..... | 27.1 | 158.4 | 265.1 | 332.7 | 326.2 | 99.9 | 584.4 | 1,259.5 | 1,688.3 | 1,772.4 |
| Hispanic origin ^{**} | | | | | | | | | | |

| | | | | | | | | | | |
|---------------------------------|------|------|-------|-------|-------|------|-------|---------|---------|---------|
| Hispanic..... | --- | --- | 300.8 | 301.4 | 301.6 | --- | --- | 1,167.0 | 1,508.4 | 1,564.3 |
| Not Hispanic ¹ | --- | --- | 329.9 | 372.9 | 373.4 | --- | --- | 1,380.8 | 1,737.4 | 1,786.8 |
| Primary diagnosis | | | | | | | | | | |
| Diabetes..... | 11.4 | 70.9 | 145.7 | 159.0 | 158.9 | 24.4 | 186.8 | 479.5 | 636.5 | 658.1 |
| Hypertension..... | 13.6 | 60.9 | 87.5 | 101.2 | 102.2 | 41.3 | 188.0 | 334.0 | 417.3 | 430.8 |
| Glomerulonephritis..... | 12.0 | 27.7 | 29.9 | 24.8 | 24.2 | 58.5 | 158.0 | 238.5 | 263.5 | 266.0 |
| Cystic kidney..... | 3.3 | 6.2 | 7.6 | 8.7 | 8.7 | 15.9 | 39.7 | 63.0 | 80.8 | 84.2 |
| Other urologic..... | 2.0 | 5.1 | 9.5 | 5.0 | 5.0 | 6.9 | 24.2 | 41.1 | 42.4 | 41.8 |
| Other cause..... | 7.9 | 19.2 | 31.6 | 46.5 | 46.5 | 28.8 | 85.3 | 138.8 | 184.2 | 191.2 |
| Unknown cause..... | 6.7 | 7.4 | 13.0 | 15.3 | 14.3 | 25.6 | 32.7 | 48.9 | 65.9 | 67.3 |
| Missing disease..... | 19.4 | 1.9 | 1.6 | 1.7 | 2.5 | 53.7 | 12.0 | 9.5 | 12.0 | 12.7 |

--Data not available.

¹The race groups, white, black or African American, American Indian or Alaska Native, and Asian or Pacific Islander, include persons of Hispanic and non-Hispanic origin. Persons of Hispanic origin may be of any race. See Appendix II, Hispanic origin; Race.

²Centers for Medicare & Medicaid Services began collecting Hispanic ethnicity data in April 1995.

³Not Hispanic includes unknown ethnicity.

NOTES: Persons with unknown age, gender, or race are excluded.

For incidence estimates, age is determined as of the date of end-stage renal disease initiation.

For prevalence estimates, age is calculated as of December 31 of each year.

Prevalence estimates are for patients alive on end-stage renal disease therapy and not lost to followup at any time during each year. Prevalence estimates include patients with a functioning transplant.

See Appendix I, United States Renal Data System (USRDS).

See Appendix II, End-stage renal disease (ESRD); Incidence; Prevalence.

Data for additional years are available. See Appendix III.

SOURCE: United States Renal Data System, USRDS 2010 Annual data report: Atlas of chronic kidney disease and end-stage renal disease in the United States, National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD, 2010. Available from: <http://www.usrds.org/reference.htm>. See Appendix I, United States Renal Data System (USRDS).

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