

Technical Appendix

Table S1: Diagnosis and Procedure Codes Used to Ascertain Incident Hip Fracture and Associated Surgical Treatment

ICD 9 Code	Descriptions
<u>Hip Fracture</u>	
820.XX	Fracture neck of femur
821.XX	Fracture of other and unspecified parts of femur
<u>Surgical Repair of Hip Fracture</u>	
78.55, 79.15, 79.35	Internal fixation (without reduction, closed reduction, open reduction)
81.52	Partial hip replacement
81.51	Total hip replacement
79.05, 79.25, 81.40	Reduction without internal fixation (closed, open); Repair of hip not otherwise specified.

Table S2: Diagnosis and Procedure Codes Used to Ascertain Baseline Characteristics

Comorbidity	ICD-9 Codes
Prior myocardial infarction	410.x
Unstable angina	411.x, 413.x
Percutaneous coronary intervention	36.0x, 00.66
Valvular disease	394.x-397.1, 424.x, 746.3-746.6, v42.2, v43.3
Atrial fibrillation	427.3x
Ventricular fibrillation	427.1, 427.4x
Other arrhythmia	426.x, 427.0, 427.20, 427.81, 427.9
Implantable cardiac defibrillator	37.9x, 996.04, v53.32
Pacemaker	37.7x, 37.8x, 996.01, v45.00, v45.01, v45.02, v45.09, v53.31
Heart failure	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.13, 404.91, 428.x,
Hypertension	401.0, 401.1, 401.9, 402.x, 403.x, 404.x, 405.x
Peripheral vascular disease	38.03, 38.04, 38.05, 38.08, 38.33-38.48, 39.22-39.29, 440.2x, 440.3x, 440.4x, 441.x, 443.x, 445.x, 447.10, 557.10, 557.90, v43.4,
Pulmonary hypertension	416.x, 417.9
Stroke	433.x, 434.x, 436.00
Transient ischemic attack	435.x
Intracranial atherosclerotic disease	433.x, 434.x, 437.x, 438.x.
Intracranial hemorrhage	430, 431.00, 432.x
Diabetes mellitus	249.x, 250.x, 357.2, 362.0x
Obesity	278.0x, 649.1x, v85.3x, v85.4
Hyperlipidemia	272.x
Peptic ulcer disease	531.7, 531.0, 531.71, 531.9, 531.90, 531.91, 532.7, 532.70, 532.71, 532.9x, 533.7x, 534.7x, 534.9x
Gastrointestinal bleed	456.00, 456.0, 456.20, 530.21, 530.70, 530.82, 531.0x, 531.2x, 531.4x, 531.6x, 532.2x, 532.4x, 532.6x, 533.0x, 533.2x, 534.0x, 534.2x, 534.4x,

	534.6x, 535.x1, 537.83, 537.84, 562.02, 562.03, 562.12, 562.13, 569.3, 569.85, 578.x
Chronic liver disease	070.x, 456.1, 456.21, 570-573.x, v42.7
Systemic cancer	140.x-165.x, 170.x-172.x, 174.x, 175.x, 180.x-209.x, 238.6, 273.3
Chronic lung disease	490, 491.x-496, 500-505, 506.4, 516.x
Rheumatologic disease	701.x, 714.x, 720.x, 725.00
Dementia	290.x, 294.1x, 331.x
Depression	296.2x, 296.3x, 296.5x, 296.82, 300.40, 301.12, 309.0, 309.10, 311
Psychosis	295.x, 296.x, 297.x, 298.x, 299.1, 299.10, 299.11
Paralysis	342.x, 343.x, 344.x
Drug abuse	292.x, 304.x, 305.x,
Tobacco use	305.1x
Alcohol abuse	291.x, 303.x, 305.x
Human immunodeficiency virus	042, 043, 044
Hypothyroidism	243, 244.x
Hyper-/hyponatremia	276.0, 276.10
Phosphate disorders	275.30
Hyper-/hypocalcemia	275.4, 275.41
Hyperparathyroidism	252.0x
Magnesium disorder	275.20
Hyper-/hypokalemia	276.70, 276.80
Acid/base disorders	276.20, 276.30, 276.40

Table S3: Detailed Characteristics of Study Patients, by Era

<i>N (%) or Median (IQR)</i>	<i>All Patients</i>		<i>1996-1999</i>		<i>2000-2004</i>		<i>2005-2009</i>	
<i>Total</i>	409040	(100.0)	105565	(25.8)	152790	(37.4)	150685	(36.8)
<i>Myocardial Infarction</i>	65379	(16.0)	16845	(16.0)	25296	(16.6)	23238	(15.4)
<i>Unstable Angina</i>	98539	(24.1)	30586	(29.0)	38335	(25.1)	29618	(19.7)
<i>Coronary artery bypass surgery</i>	30574	(7.5)	7286	(6.9)	11924	(7.8)	11364	(7.5)
<i>Percutaneous Coronary Intervention</i>	19446	(4.8)	3873	(3.7)	7481	(4.9)	8092	(5.4)
<i>Valvular Disease</i>	146943	(35.9)	34915	(33.1)	54468	(35.6)	57560	(38.2)
<i>Atrial fibrillation</i>	118556	(29.0)	26696	(25.3)	44422	(29.1)	47438	(31.5)
<i>Ventricular Fibrillation</i>	29569	(7.2)	6100	(5.8)	10786	(7.1)	12683	(8.4)
<i>Other arrhythmia</i>	84282	(20.6)	20734	(19.6)	31569	(20.7)	31979	(21.2)
<i>Implantable cardiac defibrillator</i>	6411	(1.6)	511	(0.5)	2256	(1.5)	3644	(2.4)
<i>Pacemaker</i>	18513	(4.5)	4306	(4.1)	7476	(4.9)	6731	(4.5)
<i>Heart failure</i>	272601	(66.6)	70941	(67.2)	102247	(66.9)	99413	(66.0)
<i>Hypertension</i>	381270	(93.2)	95667	(90.6)	141516	(92.6)	144087	(95.6)
<i>Peripheral vascular Disease</i>	148836	(36.4)	36686	(34.8)	55695	(36.5)	56455	(37.5)
<i>Pulmonary hypertension</i>	35232	(8.6)	7028	(6.7)	12384	(8.1)	15820	(10.5)
<i>Stroke</i>	65720	(16.1)	16534	(15.7)	24536	(16.1)	24650	(16.4)
<i>Transient Ischemic attack</i>	32913	(8.0)	9036	(8.6)	12588	(8.2)	11289	(7.5)
<i>Intracranial atherosclerotic disease</i>	98294	(24.0)	23446	(22.2)	35568	(23.3)	39280	(26.1)
<i>Intracranial hemorrhage</i>	5914	(1.4)	1722	(1.6)	2038	(1.3)	2154	(1.4)
<i>Diabetes</i>	237735	(58.1)	56420	(53.4)	88516	(57.9)	92799	(61.6)
<i>Obesity</i>	30005	(7.3)	4987	(4.7)	10423	(6.8)	14595	(9.7)
<i>Hyperlipidemia</i>	209973	(51.3)	31126	(29.5)	75405	(49.4)	103442	(68.6)
<i>Peptic Ulcer Disease</i>	20996	(5.1)	7129	(6.8)	8053	(5.3)	5814	(3.9)
<i>Gastrointestinal bleed</i>	87279	(21.3)	22534	(21.3)	33406	(21.9)	31339	(20.8)
<i>Chronic Liver Disease</i>	24998	(6.1)	4904	(4.6)	8819	(5.8)	11275	(7.5)
<i>Cancer</i>	83017	(20.3)	20132	(19.1)	30416	(19.9)	32469	(21.5)
<i>Chronic Lung Disease</i>	159547	(39.0)	37713	(35.7)	59076	(38.7)	62758	(41.6)
<i>Rheumatologic disease</i>	22142	(5.4)	5646	(5.3)	8064	(5.3)	8432	(5.6)
<i>Depression</i>	45961	(11.2)	9784	(9.3)	17295	(11.3)	18882	(12.5)
<i>Dementia</i>	36611	(9.0)	7616	(7.2)	13735	(9.0)	15260	(10.1)

<i>N (%) or Median (IQR)</i>	<i>All Patients</i>		<i>1996-1999</i>		<i>2000-2004</i>		<i>2005-2009</i>	
<i>Psychosis</i>	17283	(4.2)	3850	(3.6)	6290	(4.1)	7143	(4.7)
<i>Paralysis</i>	15627	(3.8)	5511	(5.2)	5585	(3.7)	4531	(3.0)
<i>Drug Abuse</i>	4173	(1.0)	913	(0.9)	1539	(1.0)	1721	(1.1)
<i>Tobacco Use</i>	20013	(4.9)	3689	(3.5)	7645	(5.0)	8679	(5.8)
<i>Alcohol Use</i>	6307	(1.5)	1537	(1.5)	2373	(1.6)	2397	(1.6)
<i>Human Immunodeficiency Virus</i>	382	(0.1)	46	(0.0)	135	(0.1)	201	(0.1)
<i>Hypothyroidism</i>	75749	(18.5)	14856	(14.1)	28075	(18.4)	32818	(21.8)
<i>Hyponatremia</i>	50165	(12.3)	12502	(11.8)	16639	(10.9)	21024	(14.0)
<i>Hypernatremia</i>	10710	(2.6)	1851	(1.8)	3272	(2.1)	5587	(3.7)
<i>Phosphate Disorder</i>	11817	(2.9)	1815	(1.7)	3760	(2.5)	6242	(4.1)
<i>Hypocalcemia</i>	11280	(2.8)	1361	(1.3)	5182	(3.4)	4737	(3.1)
<i>Hypercalcemia</i>	8188	(2.0)	601	(0.6)	3208	(2.1)	4379	(2.9)
<i>Hyperparathyroidism</i>	13253	(3.2)	913	(0.9)	3338	(2.2)	9002	(6.0)
<i>Magnesium Disorders</i>	9441	(2.3)	1359	(1.3)	3232	(2.1)	4850	(3.2)
<i>Hypokalemia</i>	52767	(12.9)	13147	(12.5)	18875	(12.4)	20745	(13.8)
<i>Hyperkalemia</i>	114084	(27.9)	24239	(23.0)	42744	(28.0)	47101	(31.3)
<i>Acidosis</i>	71976	(17.6)	13035	(12.3)	24059	(15.7)	34882	(23.1)
<i>Alkalosis</i>	5495	(1.3)	931	(0.9)	1744	(1.1)	2820	(1.9)
<i>Mixed Acid Base Disorder</i>	4660	(1.1)	1032	(1.0)	1541	(1.0)	2087	(1.4)

Table S4: Comparison of Results from Main and Sensitivity Analyses

Outcome: Time to first hip fracture

Year of ESRD	Complete Case Analysis (N=283,907)			Using multiple imputation (N=409,040)		
	Cause specific HR (95% CI)					
	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3
1996	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]
1997	1.01 [0.90,1.13]	1.00 [0.89,1.11]	0.99 [0.89,1.10]	1.01 [0.92,1.10]	0.99 [0.91,1.08]	0.99 [0.90,1.08]
1998	1.11 [1.00,1.24]	1.08 [0.97,1.20]	1.09 [0.97,1.21]	1.13 [1.03,1.23]	1.09 [1.00,1.19]	1.10 [1.00,1.19]
1999	1.13 [1.02,1.26]	1.08 [0.97,1.20]	1.11 [1.00,1.27]	1.11 [1.02,1.21]	1.06 [0.98,1.16]	1.09 [1.00,1.19]
2000	1.27 [1.14,1.40]	1.19 [1.07,1.32]	1.25 [1.13,1.38]	1.24 [1.14,1.35]	1.18 [1.08,1.28]	1.23 [1.13,1.34]
2001	1.35 [1.22,1.49]	1.26 [1.14,1.39]	1.31 [1.19,1.45]	1.33 [1.22,1.44]	1.25 [1.15,1.35]	1.29 [1.19,1.40]
2002	1.48 [1.35,1.63]	1.37 [1.24,1.51]	1.42 [1.29,1.57]	1.43 [1.32,1.55]	1.32 [1.22,1.43]	1.36 [1.25,1.48]
2003	1.44 [1.30,1.58]	1.32 [1.20,1.46]	1.39 [1.25,1.53]	1.45 [1.34,1.57]	1.34 [1.24,1.45]	1.39 [1.29,1.51]
2004	1.51 [1.37,1.66]	1.37 [1.24,1.51]	1.43 [1.30,1.58]	1.45 [1.34,1.57]	1.32 [1.22,1.43]	1.37 [1.26,1.49]
2005	1.34 [1.21,1.47]	1.21 [1.10,1.34]	1.29 [1.16,1.42]	1.35 [1.25,1.46]	1.23 [1.14,1.33]	1.30 [1.19,1.41]
2006	1.27 [1.15,1.40]	1.14 [1.04,1.26]	1.23 [1.11,1.36]	1.28 [1.18,1.39]	1.16 [1.07,1.25]	1.23 [1.13,1.34]
2007	1.37 [1.24,1.52]	1.23 [1.11,1.36]	1.31 [1.18,1.46]	1.38 [1.27,1.50]	1.24 [1.14,1.34]	1.32 [1.21,1.44]
2008	1.33 [1.19,1.49]	1.17 [1.05,1.31]	1.25 [1.12,1.41]	1.33 [1.22,1.46]	1.18 [1.08,1.29]	1.25 [1.14,1.38]
2009	1.32 [1.13,1.53]	1.16 [1.00,1.35]	1.25 [1.07,1.46]	1.27 [1.12,1.45]	1.13 [1.00,1.29]	1.20 [1.05,1.37]
Subdistribution HR (95% CI)						
1996	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]
1997	0.99 [0.89,1.11]	0.98 [0.88,1.10]	0.98 [0.88,1.10]	0.99 [0.90,1.08]	0.98 [0.90,1.10]	0.98 [0.89,1.07]
1998	1.08 [0.97,1.20]	1.05 [0.95,1.17]	1.07 [0.96,1.19]	1.10 [1.01,1.20]	1.08 [0.99,1.18]	1.09 [1.00,1.19]
1999	1.10 [0.99,1.23]	1.07 [0.96,1.19]	1.10 [0.98,1.22]	1.09 [1.00,1.19]	1.06 [0.97,1.16]	1.08 [0.99,1.18]
2000	1.23 [1.12,1.37]	1.18 [1.07,1.31]	1.25 [1.12,1.38]	1.21 [1.12,1.32]	1.18 [1.08,1.28]	1.23 [1.13,1.33]
2001	1.32 [1.20,1.46]	1.27 [1.15,1.40]	1.32 [1.20,1.46]	1.31 [1.20,1.42]	1.26 [1.16,1.36]	1.30 [1.20,1.41]
2002	1.44 [1.31,1.59]	1.37 [1.25,1.52]	1.43 [1.30,1.58]	1.40 [1.30,1.52]	1.35 [1.24,1.46]	1.38 [1.27,1.50]
2003	1.40 [1.27,1.54]	1.33 [1.21,1.47]	1.40 [1.27,1.55]	1.42 [1.31,1.54]	1.36 [1.26,1.47]	1.41 [1.30,1.53]

2004	1.47 [1.34,1.62]	1.39 [1.26,1.53]	1.46 [1.32,1.61]	1.43 [1.32,1.55]	1.36 [1.26,1.47]	1.41 [1.30,1.53]
2005	1.31 [1.18,1.44]	1.23 [1.12,1.36]	1.31 [1.18,1.44]	1.33 [1.22,1.44]	1.26 [1.17,1.37]	1.32 [1.21,1.43]
2006	1.24 [1.12,1.37]	1.16 [1.05,1.28]	1.24 [1.12,1.37]	1.25 [1.16,1.36]	1.19 [1.09,1.29]	1.24 [1.14,1.35]
2007	1.34 [1.22,1.49]	1.26 [1.14,1.39]	1.34 [1.21,1.49]	1.36 [1.25,1.48]	1.29 [1.18,1.40]	1.35 [1.24,1.47]
2008	1.32 [1.18,1.47]	1.22 [1.10,1.37]	1.31 [1.17,1.47]	1.33 [1.21,1.46]	1.24 [1.13,1.36]	1.30 [1.18,1.43]
2009	1.30 [1.12,1.51]	1.21 [1.04,1.40]	1.30 [1.11,1.51]	1.27 [1.12,1.44]	1.19 [1.05,1.35]	1.25 [1.10,1.43]

Outcome: 30-Day Case fatality

Complete Cases N=12,623

Using multiple imputation (N=17,887)

Risk Ratio (95% CI)

1996	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]	1.00 [Referent]
1997	0.96 [0.77, 1.21]	0.98 [0.79, 1.24]	0.98 [0.79, 1.24]	0.94 [0.78, 1.13]	0.96 [0.80, 1.15]	0.94 [0.79, 1.13]
1998	1.07 [0.87, 1.34]	1.06 [0.86, 1.32]	1.04 [0.84, 1.30]	1.01 [0.84, 1.20]	1.00 [0.84, 1.18]	0.97 [0.82, 1.16]
1999	0.96 [0.77, 1.21]	0.94 [0.76, 1.19]	0.94 [0.76, 1.18]	0.93 [0.78, 1.11]	0.91 [0.76, 1.09]	0.89 [0.74, 1.06]
2000	0.86 [0.70, 1.08]	0.84 [0.68, 1.05]	0.84 [0.68, 1.05]	0.89 [0.75, 1.06]	0.87 [0.73, 1.03]	0.85 [0.71, 1.01]
2001	0.98 [0.81, 1.23]	0.95 [0.80, 1.19]	0.95 [0.78, 1.18]	1.00 [0.85, 1.18]	1.00 [0.82, 1.14]	0.94 [0.79, 1.11]
2002	0.98 [0.81, 1.21]	0.93 [0.77, 1.15]	0.94 [0.77, 1.17]	0.94 [0.80, 1.11]	0.90 [0.76, 1.06]	0.87 [0.74, 1.03]
2003	0.88 [0.73, 1.10]	0.84 [0.69, 1.04]	0.84 [0.69, 1.04]	0.86 [0.72, 1.01]	0.82 [0.69, 0.97]	0.80 [0.67, 0.95]
2004	0.87 [0.72, 1.07]	0.82 [0.68, 1.01]	0.82 [0.67, 1.02]	0.85 [0.72, 1.01]	0.81 [0.69, 0.95]	0.78 [0.66, 0.93]
2005	0.80 [0.66, 1.00]	0.75 [0.61, 0.94]	0.75 [0.61, 0.94]	0.78 [0.66, 0.93]	0.73 [0.62, 0.87]	0.70 [0.59, 0.84]
2006	0.79 [0.64, 0.99]	0.73 [0.60, 0.91]	0.74 [0.60, 0.92]	0.83 [0.70, 0.98]	0.77 [0.64, 0.91]	0.74 [0.62, 0.89]
2007	0.82 [0.66, 1.02]	0.76 [0.61, 0.95]	0.76 [0.61, 0.96]	0.79 [0.66, 0.95]	0.73 [0.61, 0.88]	0.70 [0.58, 0.85]
2008	0.87 [0.69, 1.11]	0.79 [0.62, 1.01]	0.78 [0.61, 1.01]	0.80 [0.65, 0.98]	0.73 [0.59, 0.89]	0.69 [0.56, 0.85]
2009	0.82 [0.57, 1.12]	0.73 [0.51, 1.00]	0.72 [0.50, 1.00]	0.81 [0.61, 1.07]	0.72 [0.55, 0.96]	0.68 [0.51, 0.90]

Model 1 unadjusted

Model 2-Adjusted for demographic variables

Model 3-further adjusted for body mass index, serum albumin concentration, estimated glomerular filtration rate at initiation of dialysis, and all comorbidities listed in Supplemental Table S3. Individual estimates of association for all covariates are shown in Table S5.

Table S5: Estimated Associations Between Model Covariates and Study Outcomes*

Outcome		Incident Hip Fracture	30-Day Mortality after Hip Fracture
Covariable		HR (95% CI)	RR (95% CI)
Sex			
	Male	1.00	1.00
	Female	1.50 (1.45, 1.55)	0.78 (0.73, 0.84)
Age (per year)		1.03 (1.03, 1.03)	1.03 (1.02, 1.04)
Race			
	White	1.00	1.00
	Black	0.51 (0.48, 0.53)	0.84 (0.76, 0.94)
	Asian	0.70 (0.63, 0.78)	0.72 (0.55, 0.96)
	Other	0.96 (0.85, 1.10)	0.86 (0.61, 1.22)
Ethnicity			
	Non-Hispanic	1.00	1.00
	Hispanic	0.86 (0.81, 0.91)	0.77 (0.66, 0.89)
BMI			
	Underweight	1.00	1.00
	Normal	0.88 (0.83, 0.93)	0.9 (0.8, 1.01)
	Overweight	0.72 (0.67, 0.76)	0.87 (0.77, 0.99)
	Obese	0.55 (0.51, 0.59)	0.88 (0.76, 1.01)
Albumin (per 1 mg/dL)		1.05 (1.01, 1.08)	0.95 (0.89, 1.01)
eGFR (per 1 mL/min/1.73m2)		1.00 (1.00, 1.00)	1.01 (1, 1.02)
Comorbidities			
	Cerebrovascular bleed	1.08 (0.96, 1.22)	1.28 (1.02, 1.60)
	Cerebrovascular	1.02 (0.98, 1.06)	0.99 (0.91, 1.07)

Gastrointestinal bleed	1.03 (0.99, 1.07)	1.04 (0.96, 1.12)
HIV positive	1.47 (0.92, 2.33)	1.52 (0.03, 68.15)
Hyponatremia	1.05 (1.00, 1.09)	0.92 (0.84, 1.02)
Peptic ulcer disease	1.04 (0.97, 1.11)	0.96 (0.84, 1.11)
Acidosis	0.99 (0.95, 1.03)	1.01 (0.93, 1.11)
Atrial fibrillation	0.96 (0.93, 1.00)	1.11 (1.03, 1.19)
Alcohol abuse	1.15 (1.02, 1.30)	0.97 (0.74, 1.27)
Alkalosis	0.94 (0.82, 1.08)	0.93 (0.68, 1.25)
Myocardial infarction	0.90 (0.86, 0.94)	1.07 (0.98, 1.17)
Arrhythmia (non atrial or ventricular fibrillation)	0.98 (0.94, 1.02)	1.00 (0.92, 1.08)
Coronary artery bypass grafting	1.00 (0.94, 1.06)	0.88 (0.77, 1.00)
Cancer	0.95 (0.91, 0.98)	1.03 (0.95, 1.11)
Dementia	0.98 (0.93, 1.03)	0.98 (0.87, 1.10)
Depression	1.08 (1.03, 1.13)	0.99 (0.89, 1.09)
Diabetes mellitus	1.18 (1.14, 1.22)	1.03 (0.96, 1.11)
Intravenous drug abuse	1.00 (0.87, 1.16)	1.09 (0.82, 1.46)
Heart failure	1.01 (0.98, 1.05)	1.16 (1.06, 1.26)
Hypertension	1.63 (1.51, 1.76)	0.88 (0.75, 1.03)
Hypercalcemia	0.93 (0.83, 1.03)	0.99 (0.77, 1.28)
Hyperkalemia	0.99 (0.96, 1.03)	1.00 (0.93, 1.08)
Hypernatremia	1.01 (0.92, 1.11)	0.91 (0.74, 1.13)
Hyperparathyroidism	1.00 (0.92, 1.09)	1.12 (0.93, 1.35)
Hypocalcemia	1.00 (0.91, 1.09)	1.07 (0.88, 1.30)
Hypokalemia	1.05 (1.01, 1.10)	0.97 (0.88, 1.06)
Hypothyroidism	0.99 (0.96, 1.03)	1.03 (0.95, 1.12)
Implantable cardioverter defibrillator	1.01 (0.88, 1.16)	1.11 (0.85, 1.43)
Hyperlipidemia	1.02 (0.99, 1.06)	0.95 (0.89, 1.02)
Liver disease	1.00 (0.94, 1.06)	1.06 (0.92, 1.21)
Chronic lung disease	1.03 (0.99, 1.06)	1.13 (1.05, 1.21)
Magnesium disorder	1.03 (0.93, 1.13)	0.96 (0.77, 1.20)

Mixed acidosis	0.92 (0.79, 1.06)	0.78 (0.53, 1.15)
Obesity	0.88 (0.82, 0.94)	0.82 (0.68, 0.97)
Pacemaker	0.93 (0.86, 1.01)	1.10 (0.95, 1.28)
Paralysis	0.97 (0.89, 1.05)	0.94 (0.78, 1.13)
Percutaneous coronary intervention	1.07 (0.99, 1.15)	0.80 (0.68, 0.94)
Hypo/hyperphosphatemia	1.04 (0.95, 1.14)	1.07 (0.88, 1.30)
Psychosis	0.95 (0.88, 1.03)	0.92 (0.78, 1.10)
Pulmonary hypertension	1.02 (0.97, 1.08)	1.07 (0.96, 1.19)
Peripheral vascular disease	0.96 (0.93, 0.99)	1.09 (1.02, 1.16)
Rheumatic disease	1.09 (1.02, 1.15)	0.99 (0.87, 1.14)
Ischemic stroke	1.01 (0.96, 1.06)	0.96 (0.87, 1.07)
Transient ischemic attack	1.03 (0.98, 1.09)	1.12 (1.00, 1.25)
Tobacco abuse	1.18 (1.10, 1.26)	1.25 (1.10, 1.42)
Unstable angina	0.97 (0.94, 1.01)	1.04 (0.96, 1.13)
Valvular disease	0.97 (0.94, 1.01)	1.12 (1.04, 1.20)
Ventricular fibrillation	0.93 (0.87, 0.99)	1.06 (0.93, 1.20)

* Note: All estimates from fully adjusted model using multiple imputation (estimates of exposure in previous table). These covariables were used for adjustment and served to maximize comparability of annual cohorts; these covariables were not evaluated for the purpose of inference or evidence generation and the estimated associations should not be directly interpreted.

Figure S1: Flow Diagram of Cohort Derivation

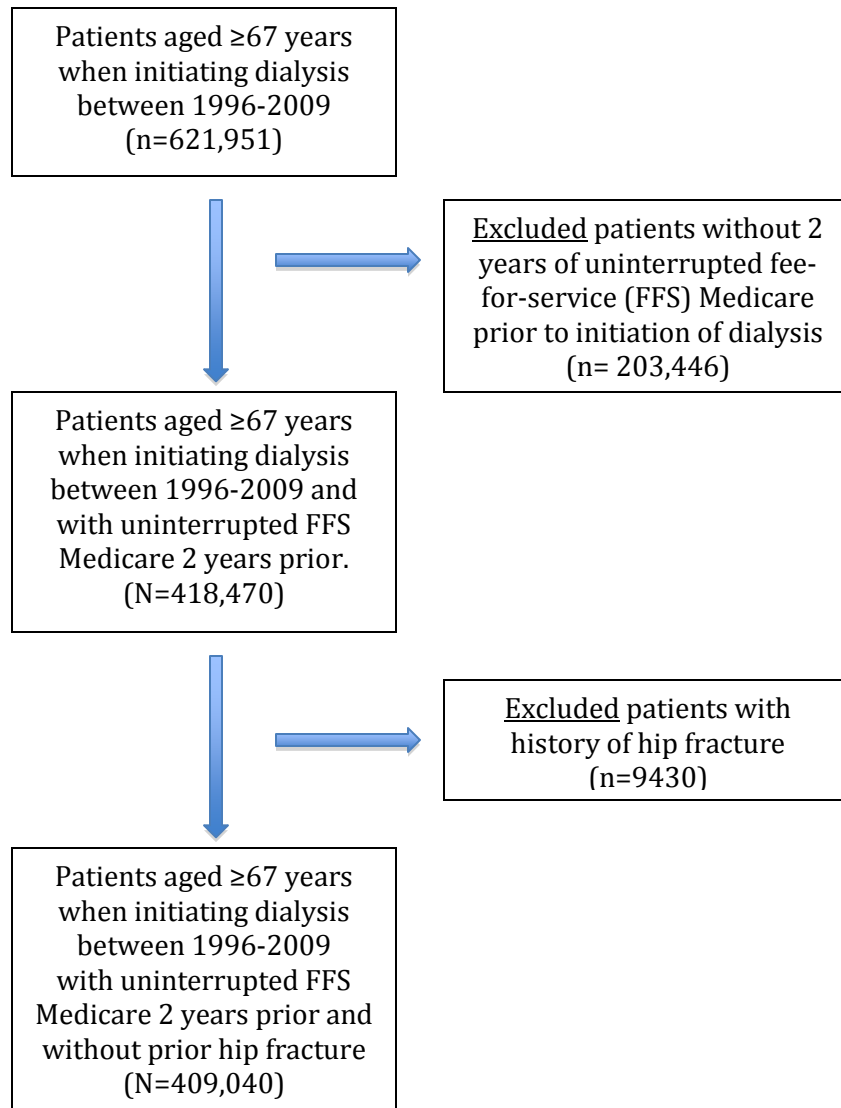


Figure S2: Temporal Trends in the Causes of Death after Hip Fracture

