

## Supplementary Appendix

Table S1. HCUP comorbidity software variable names, descriptions and ICD codes. (This paper uses HCUP comorbidity software versions 3.0 and 3.1, which cover claims from 2005 and 2006).

	<b>Description</b>	<b>ICD codes 2005<sup>1</sup></b>	<b>ICD codes 2006<sup>2</sup></b>
<b>CHF</b>	Congestive Heart Failure	39891, 4280 - 4289	39891, 4280 - 4289
<b>PULMCIRC</b>	Pulmonary circulation disorders	4160 - 4169, 4179	4160 - 4169, 4179
<b>PERIVASC</b>	Peripheral vascular disorders	4400 - 4409, 44100 - 4419, 4420 - 4429, 4431 - 4439, 4471, 5571, 5579, V434	4400 - 4409, 44100 - 4419, 4420 - 4429, 4431 - 4439, 4471, 5571, 5579, V434
<b>HTN</b>	Hypertension, uncomplicated	4011, 4019, 64200 - 64204	4011, 4019, 64200 - 64204
<b>NEURO</b>	Other neurological disorders	7803, 78039, 7843	3300 - 3319, 3320, 3334, 3335, 3337, 3340 - 3359, 340, 3411, 3419, 34500 - 34511, 3452 - 3453, 34540 - 34591, 34700 - 34701, 34710 - 34711, 7803 - 78031, 78039, 7843
<b>CHRNLUNG</b>	Chronic pulmonary disorders	490 - 4928, 49300 - 49392, 494 - 4941, 4950 - 505, 5064	490 - 4928, 49300 - 49392, 494 - 4941, 4950 - 505, 5064
<b>DM</b>	Diabetes w/o chronic complications	25000 - 25033, 64800 - 64804	25000 - 25033, 64800 - 64804
<b>DMCX</b>	Diabetes w/ chronic complications	25040 - 25093, 7751	25040 - 25093, 7751
<b>RENLFAIL</b>	Renal failure	585, 586, V420, V451, V560 - V5632, V568	5853, 5854, 5855, 5856, 5859, 586, V420, V451, V560 - V5632, V568
<b>OBESE</b>	Obesity	2780, 27800, 27801	2780, 27800, 27801
<b>LYTES</b>	Fluid and electrolyte disorders <i>note: this comorbidity should be dropped when used with the AHRQ Patient Safety Indicators</i>	2760 - 2769	2760 - 2769
<b>BLDLOSS</b>	Blood loss anemia	2800, 64820 - 64824	2800, 64820 - 64824
<b>ANEMDEF</b>	Deficiency anemias	2801 - 2819, 28521 - 28529, 2859	2801 - 2819, 28521 - 28529, 2859

<sup>1</sup> <https://www.hcup-us.ahrq.gov/toolssoftware/comorbidity/comformat2005-010405.txt>

<sup>2</sup> <https://www.hcup-us.ahrq.gov/toolssoftware/comorbidity/comformat2006-011207.txt>

Table S2. ICD-9 codes used to identify Chronic Kidney Disease (CKD) stages.

<b>CKD Stage</b>	<b>ICD-9 code</b>
<b>I</b>	585.1
<b>II</b>	585.2
<b>III</b>	585.3
<b>IV</b>	585.4
<b>V</b>	585.5
<b>End Stage Renal Disease (ESRD)</b>	585.6
<b>Unspecified</b>	585.9