

Table S1: Disease Definitions

Variable	Data Source	Definition
CKD (diagnostic claim)	VA, M-CARE	<p>At least one inpatient or outpatient claim for one of the following ICD-9-CM codes:</p> <p>016, 095.4, 189.0, 189.1, 189.9, 236.91, 250.40, 250.41, 250.42, 250.43, 271.4, 274.1, 283.11, 403.00, 403.01, 403.10, 403.11, 403.90, 403.91, 404.00, 404.01, 404.02, 404.03, 404.10, 404.11, 404.12, 404.13, 404.90, 404.91, 404.92, 404.93, 405.01, 440.1, 442.1, 447.3, 453.3, 572.4, 580.0, 580.4, 580.81, 580.89, 580.9, 581.0, 581.1, 581.2, 581.3, 581.81, 581.89, 581.9, 582.0, 582.1, 582.2, 582.4, 582.81, 582.89, 582.9, 583.0, 583.1, 583.2, 583.4, 583.6, 583.7, 583.81, 583.89, 583.9, 584.5, 584.6, 584.7, 584.8, 584.9, 585.x, 586, 587, 588.0, 588.1, 588.81, 588.89, 588.9, 589, 590.0, 590.8, 591, 593.1, 593.3, 593.4, 593.5, 593.6, 593.7, 593.81, 593.89, 593.9, 642.1, 646.2, 753.0, 753.10, 753.11, 753.12, 753.13, 753.14, 753.15, 753.16, 753.17, 753.19, 753.20, 753.21, 753.22, 753.23, 753.29, 753.3, 794.4</p>
Dialysis	VA, M-CARE	<p>Any one of the following:</p> <ol style="list-style-type: none"> 1. An outpatient CPT4 procedure code for 90921 or 90925 2. An outpatient ICD9 diagnosis code for V56, V451 or E8791 3. An inpatient or outpatient ICD9 diagnosis code for 585.6 4. Clinic stop codes 602-611 (VA only)
Kidney Transplant	VA, M-CARE	<p>Any one of the following:</p> <ol style="list-style-type: none"> 1. An inpatient or outpatient ICD-9-CM diagnosis code for V42.0 2. An inpatient ICD-9-CM procedure code for 55.69

Diabetes Mellitus	NHANES	<p>As verified by interviewer, any one of the following:</p> <ol style="list-style-type: none"> 1. Patient self-report of doctor's diagnosis of diabetes 2. Medication use for diabetes: Metformin HCL, Insulin, Glimepiride, Glipizide, Glyburide, Pioglitazone, Rosiglitazone
	VA, M-CARE	<p>Any one of the following:</p> <ol style="list-style-type: none"> 1. An inpatient or outpatient ICD-9-CM diagnosis code for 250.xx, 357.2, 362.01, 362.02, 366.41 2. A pharmacy claim for a medication used to treat diabetes (VA only) 3. Outpatient serum glucose > 200 mg/dl
Hypertension	NHANES	<p>As verified by interviewer, any one of the following:</p> <ol style="list-style-type: none"> 1. Patient self-report of doctor's diagnosis of hypertension 2. A mean (of three) measured systolic blood pressure ≥ 140 mmHg, and/or mean diastolic blood pressure ≥ 90 mmHg 3. Medications used for treatment of hypertension: Amlodipine, Amlodipinebesylate, Atenolol, Benazepril, Benazeprilhydrochloride, Candesartan, Candesartancilexetil, Captopril, Carvedilol, Chlorthalidone, Clonidine, Clonidinehydrochloride, Diltiazem, Diltiazemhydrochloride, Doxazosin, Doxazosinmesylate, Enalapril, Enalaprilmaleate, Felodipine, Fosinopril, Fosinopril sodium, Hydralazine, Hydralazinehydrochloride, Hydrochloride, Hydrochlorothiazide, Indapamide, Irbesartan, Labetalol, Labetalolhydrochloride, Lisinopril, Losartan, Losartanpotassium, Methyldopa, Metoprolol, Metoprololtartrate, Minoxidil, Moexipril, Moexiprilhydrochloride, Olmesartan, Prazosin,

		Prazosinhydrochloride, Propranolol, Quinapril, Quinaprilhydrochloride, Ramipril, Reserpine, Spironolactone, Telmisartan, Terazosin, Terazosinhydrochloride, Triamterene, Valsartan, Verapamil, Verapamilhydrochloride
	VA, M-CARE	Any one of the following: 1. An inpatient or outpatient ICD9 diagnosis code for 401-405 2. A pharmacy claim for a medication used to treat diabetes (VA only)
Anemia	NHANES	Hemoglobin result < 12 g/dL for females or < 13.5 g/dL for males
	M-CARE	At least one outpatient claim for one of the following ICD-9-CM codes: 280 – 285 (Lab results were unavailable)
	VA	Any one of the following: 1. An outpatient hemoglobin result < 12 g/dL for females or < 13.5 g/dL for males 2. At least one outpatient claim for one of the following ICD-9-CM codes: 280 - 285
Pregnancy (diagnostic claim)	VA, M-CARE	At least one inpatient or outpatient claim for one of the following ICD-9-CM codes: 630 – 679, V22, V23

NHANES: National Health and Nutrition Examination Survey

VA: Veterans Affairs Health System

ICD-9-CM: International Classification of Diseases, 9th revision

CPT: Current Procedural Terminology

Model:

$$\text{logmodel} = \text{EXP}(-(-10.1546 + 0.1145 * \text{AGE} + 1.4033 * \text{ANEMIA} + 0.6175 * \text{HYPERTENSION} + -0.9142 * \text{DIABETES} + 1.3983 * \text{ANEMIA} * \text{HYPERTENSION} + -0.0205 * \text{ANEMIA} * \text{AGE} + 1.4192 * \text{DIABETES} * \text{HYPERTENSION}));$$