1 Supplemental Appendix

- 2 This appendix has been provided by authors to give readers additional information
- 3 about their work.
- 4 Supplement to: Sharma A, Alvarez PJ, Woods SD, et al. A Model to Predict Risk of
- 5 Hyperkalemia in Patients With Chronic Kidney Disease Patients Using a Large
- 6 Administrative Claims Database.

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Appendix A . Table S1. Identifying and stage-assigning individuals with chronic kidney disease

18 (CKD)

19 Individuals in the study group were considered to have CKD if they had at least 1 claim

- with an International Classification of Diseases (ICD), 9th or 10th Revision, Clinical
- 21 Modification (CM; ICD-9-CM or ICD-10-CM); or a lab report containing a value for
- 22 estimated glomerular filtration rate (eGFR) by the Modification of Diet in Renal Disease
- 23 Study equation.¹ CKD stage was assigned by ICD-9-CM or ICD-10-CM code or by the
- eGFR according to the following scheme. An individual was assigned their highest CKD
- stage found in the baseline year (BY).

Stage	ICD-9-CM	ICD-10-CM	eGFR, mL/min/1.73 m ²
CKD stage 1	N18.1	585.1	≥90
CKD stage 2	N18.2	585.2	60–89
CKD stage 3	N18.3	585.3	30–59
CKD stage 4	N18.4	585.4	15–29
CKD stage 5	N18.5	585.5	<15
End-stage renal disease	N18.6	585.6	

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27

Notes: eGFR data from Stevens et al.¹ Copyright © 2007 National Kidney Foundation, Inc. Published by Elsevier Inc. All rights reserved.

Reference 1.

28 Stevens LA, Manzi J, Levey AS, et al. Impact of creatinine calibration on performance of GFR estimating equations in a pooled individual patient database.

²⁹ Am J Kidney Dis. 2007;50(1):21–35. Copyright © 2007 National Kidney Foundation, Inc. Published by Elsevier Inc. All rights reserved.

- 31 Appendix B. Table S2. Renin- aldosterone system inhibitors (RAASi's) and maximum
- 32 angiotensin-labeled doses

Angiotensin converting enzyme inhibitors (ACEi's)					
Benazepril 80 mg	Moexipril 30 mg				
Captopril 450 mg	Perindopril 8 mg				
Enalapril 40 mg	Quinapril 80 mg				
Fosinopril 40 mg	Ramipril 10 mg				
Lisinopril 40 mg	Trandolapril 8 mg				
Angiotensin II receptor blockers (ARBs)					
Azilsartan 80 mg	Losartan 100 mg				
Candesartan 32 mg	Olmesartan 40 mg				
Eprosartan 800 mg	Telmisartan 80 mg				
Irbesartan 300 mg	Valsartan 320 mg				
Mineralocorticoid receptor antagonists (MRAs)					
Eplerenone 100 mg	Spironolactone 200 mg				
Direct renin inhibitors (DRIs)					
Aliskiren 300 mg	Aliskiren-hydrochlorothiazide				
Aliskiren-valsartan (considered	Aliskiren-amlodipine-hydrochlorothiazide				
submaximum if taken as 150/160 mg)					
Aliskiren-amlodipine					

34 Appendix C. Table S3. Non-RAASi medications associated with hyperkalemia (HK)

Nonsteroidal anti-inflammatory drugs (NSAIDs)				
Beta-blockers				
Calcineurin inhibitors				
Cyclosporine				
Tacrolimus				
Potassium-sparing diuretics				
Amiloride				
Triamterene				

36 Appendix D. Table S4. Variables with significant univariate association to first identification of HK

37 in the prediction year

ACEi use	Diabetes mellitus	MRA use	
Age	Gender	Nonspecific	
Age	Gender	gastritis/dyspepsia	
Alleray	Glaucoma	Number of comorbid	
Allergy	Gladcoma	conditions	
Anxiety	Hepatitis	Obesity	
APB	Human immunodeficiency	Osteoarthritis	
	virus disease	Colodarininio	
Asthma	Hyperlipidemia	Osteoporosis	
Atrial fibrillation	Hypertension	Proportion of days covered	
		≥80%	
Beta-blocker use	Inflammatory bowel disease	Peripheral artery disease	
Business line (commercial vs	Innatient admission	Potassium-sparing diuretics	
Medicare Advantage)		use	
Calcineurin inhibitor use	Iron deficiency anemia	Primary care visit	
Cerebrovascular disease	Ischemic heart disease	RAASi at optimal dose	
Congestive heart failure	Kidney stone history	Geographic region	
CKD stage	Hemoglobin (lab)	Rheumatoid arthritis	
Chronic thyroid disorders	Serum/plasma potassium	Sacubitril-valsartan use	
	(lab)		
Congenital heart disease	Liver disease	Visit to a medical specialist	
Chronic obstructive	Malignant neonlasms	l Irban ve rural	
pulmonary disease			
Dementia	Metabolic syndrome		
Depression	Migraine		