Figure S1. CDS recommendation to order UACR and serum phosphorus for a patient who had not received these tests in the past 12 months.



oad CCD CKD Risk App Setting	About	
This patient has Stage 3a chronic kidney on calculated]	isease with [albuminuria	
▲ 5-Year Kidney Failure Risk: 1.1 to 3.	5%	
Recommendation 1: Order urine albumin	and creatinine to	
calculate ACR		
Recommendation 2: Order serum phosp	norous	
Recommendation 2: Order serum phosp Patient's Last Name:	MGHLMRECRSTEST	
Patient's Last Name:	MGHLMRECRSTEST	
Patient's Last Name: Age (years):	MGHLMRECRSTEST 105	
Patient's Last Name: Age (years): Gender:	MGHLMRECRSTEST 105 male	
Patient's Last Name: Age (years): Gender: eGFR (mL/min/1.73m2):	MGHLMRECRSTEST 105 male 47	
Patient's Last Name: Age (years): Gender: <u>eGFR (mL/min/1.73m2):</u> Urine Albumin:Creatinine Ratio (mg/g):	MGHLMRECRSTEST 105 male 47 Not Present	
Patient's Last Name: Age (years): Gender: <u>eGFR (mL/min/1.73m2):</u> <u>Urine Albumin:Creatinine Ratio (mg/g):</u> <u>Calcium (mg/dL):</u>	MGHLMRECRSTEST 105 male 47 Not Present 8.1	

Figure S2. No CDS recommendation for a patient who had received all of the labs necessary to calculate KFRE in the past 12 months. This patient would have been excluded from the analysis of the primary outcome because no action was recommended to the PCP.

oad CCD CKD Risk App Settings	About	
his patient has Stage 2 chronic kidney dis ncreased albuminuria (A2).	sease with moderately	
5-Year Kidney Failure Risk: 1.9%		
Patient's Last Name:	Partnerstest	
Age (years):	87	
Gender:	Male	
Is African-American?:	No	
eGFR (mL/min/1.73m2):	60	(Creatinine: 1.1)
<u> Urine Albumin:Creatinine Ratio (mg/g):</u>	50	
Calcium (mg/dL):	7.8	
Phosphorous (mg/dL):	5.6	
Albumin (g/dL):	2.9	
	17	

Figure S3. CDS recommendation to refer patient to nephrology due to risk estimate >10%.



Load CCD	CKD Risk	App Settings	About		
	has Stage 3b ch ouminuria (A3).	nronic kidney di	sease with se	everely	i e
	dation 1: Seek r (idney Failure I		rologist		
Patient's Las	st Name:		BWHCKDRISH	KTEST	
Age (years):			73		
Gender:			Female		
Is African-A			No		\ osn 24\
<u>Creatinine (</u>	- T		1.5		(eGFR: 34)
Urine Album	nin:Creatinine I	<u>Ratio (mg/g):</u>	467		
Calcium (mg	<u>g/dL):</u>		9.4		
Phosphorou	<u>s (mg/dL):</u>		4.3		
Albumin (g/	<u>'dL):</u>		2.4		
Bicarbonate	<u>(meq/L):</u>		23		
Recalculat	re				

Figure S4. Two CDS recommendations to 1) refer patient to nephrology due to estimated range of risk which exceeds 10% and 2) order lab tests necessary to calculate KFRE.

PARTNERS Chronic Kidney Disease (CKD) Risk Tool

This patient has Stage 3b chronic kidney d	lisease with moderate	ely
ncreased albuminuria (A2).		_
▲ 5-Year Kidney Failure Risk: 8.6 to 12	2.1%	
Recommendation 1: Seek referral to nepl	hrologist	
Recommendation 2: Order serum phosph	norous	
Patient's Last Name:	BWHCKDRISKTEST	
Age (years):	73	
Gender:	Female	
Is African-American?:	No	
<u>Creatinine (mg/dL):</u>	1.3	(eGFR: 41)
Urine Albumin:Creatinine Ratio (mg/g):	235	
	9.4	
Calcium (mg/dL):	N. B	
Calcium (mg/dL): Phosphorous (mg/dL):	Not Present	
	Not Present 2.4	
Phosphorous (mg/dL):		

Figure S5. CONSORT flowchart: Participant enrollment, allocation, exclusion, and analysis for secondary outcome of nephrology referral

