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Table S1. Potentially nephrotoxic medications queried

Medication Class	Medications Queried ^a		
PPI	Dexlansoprazole Esomeprazole	Lansoprazole Omeprazole	Pantoprazole Rabeprazole
Antibiotics	Amikacin Ciprofloxacin Colistimethate Gentamicin Nafcillin	Oxacillin Penicillin Polymyxin Rifampin	Tobramycin Trimethoprim / Sulfamethoxazole Vancomycin
Antifungals	Amphotericin B		
Antivirals	Abacavir Acyclovir Bictegravir Dolutegravir Efavirenz	Elvitegravir Emtricitabine Lamivudine Lopinavir Rilpivirine	Ritonavir Stavudine Tenofovir
NSAIDs	Celecoxib Diclofenac Ibuprofen	Indomethacin Ketorolac Meloxicam	Nabumetone Naproxen Sulindac
Chemotherapeutic agents	Carboplatin Cisplatin Cyclophosphamide Cytarabine Gemcitabine Ibrutinib	Ifosfamide Imatinib Irinotecan Lenalidomide Melphalan Methotrexate	Oxaliplatin Sorafenib Temozolomide Topotecan Temozolomide Topotecan
Immunosuppressants	Tacrolimus	Cyclosporine	

^a All medications queried were in in a systemic formulation. Inhalation and topical routes were not included in our analysis.

Table S2 Diagnosis codes utilized to assess for incident congestive heart failure, cardiovascular disease and peripheral vascular disease

Congestive Heart Failure	ICD-10	I50.1, I50.20, I50.21, I50.22, I50.23, I50.30, I50.31, I50.32, I50.33, I50.40, I50.41, I50.42, I50.43, I50.8, I50.81, I50.810, I50.811, I50.812, I50.813, I50.814, I50.82, I50.83, I50.84, I50.89, I50.9
	ICD-9	428, 428.0, 428.1, 428.2, 428.20, 428.21, 428.22, 428.23, 428.3, 428.30, 428.31, 428.32, 428.33, 428.4, 428.40, 428.41, 428.42, 428.43, 428.9
Cardiovascular Disease	ICD-10	I21.01, I21.02, I21.09, I21.11, I21.19, I21.21, I21.29, I21.3, I21.4, I21.9, I21.A, I21.A1, I21.A9, I22.0, I22.1, I22.2, I22.8, I22.9, I23.0, I23.1, I23.2, I23.3, I23.4, I23.5, I23.6, I23.7, I23.8, I25.2, I20.0, I20.1, I20.8, I20.9, I63.00, I63.011, I63.012, I63.013, I63.019, I63.02, I63.031, I63.032, I63.033, I63.039, I63.09, I63.10, I63.111, I63.112, I63.113, I63.119, I63.12, I63.131, I63.132, I63.133, I63.139, I63.19, I63.20, I63.211, I63.212, I63.213, I63.219, I63.22, I63.231, I63.232, I63.233, I63.239, I63.29, I63.30, I63.311, I63.312, I63.313, I63.319, I63.321, I63.322, I63.323, I63.329, I63.331, I63.332, I63.333, I63.339, I63.341, I63.342, I63.349, I63.39, I63.40, I63.411, I63.412, I63.413, I63.419, I63.421, I63.422, I63.423, I63.429, I63.431, I63.432, I63.433, I63.439, I63.441, I63.442, I63.449, I63.49, I63.50, I63.511, I63.512, I63.513, I63.519, I63.521, I63.522, I63.523, I63.529, I63.531, I63.532, I63.533, I63.539, I63.541, I63.542, I63.543, I63.549, I63.59, I63.6, I63.8, I63.81, I63.89, I63.9, I60.00, I60.01, I60.02, I60.10, I60.11, I60.12, I60.2, I60.20, I60.21, I60.22, I60.30, I60.31, I60.32, I60.4, I60.50, I60.51, I60.52, I60.6, I60.7, I60.8, I60.9, I61.0, I61.1, I61.2, I61.3, I61.4, I61.5, I61.6, I61.8, I61.9, I62.00, I62.01, I62.02, I62.03, I62.1, I62.9
	ICD-9	410, 410.0, 410.00, 410.01, 410.02, 410.1, 410.10, 410.11, 410.12, 410.2, 410.20, 410.21, 410.22, 410.3, 410.30, 410.31, 410.32, 410.4, 410.40, 410.41, 410.42, 410.5, 410.50, 410.51, 410.52, 410.6, 410.60, 410.61, 410.62, 410.7, 410.70, 410.71, 410.72, 410.8, 410.80, 410.81, 410.82, 410.9, 410.90, 410.91, 410.92, 412, 411.1, 413, 413.0, 413.1, 413.9, 433, 433.0, 433.01, 433.1, 433.10, 433.11, 433.2, 433.21, 433.3, 433.31, 433.8, 433.81, 433.9, 433.91, 434, 434.0, 434.01, 434.1, 434.11, 434.9, 434.91, 436, 997.02, 430, 431, 432, 432.0, 432.1, 432.9, 997.02

Peripheral Vascular Disease

ICD-10

E08.51, E08.52, E09.51, E09.52, E10.51, E10.52, E11.51, E11.52, E13.51, E13.52, I70.0, I70.1, I70.201, I70.202, I70.203, I70.208, I70.209, I70.211, I70.212, I70.213, I70.218, I70.219, I70.221, I70.222, I70.223, I70.228, I70.229, I70.231, I70.232, I70.233, I70.234, I70.235, I70.238, I70.239, I70.241, I70.242, I70.243, I70.244, I70.245, I70.248, I70.249, I70.25, I70.261, I70.262, I70.263, I70.268, I70.269, I70.291, I70.292, I70.293, I70.298, I70.299, I70.301, I70.302, I70.303, I70.308, I70.309, I70.311, I70.312, I70.313, I70.318, I70.319, I70.321, I70.322, I70.323, I70.328, I70.329, I70.331, I70.332, I70.333, I70.334, I70.335, I70.338, I70.339, I70.341, I70.342, I70.343, I70.344, I70.345, I70.348, I70.349, I70.35, I70.361, I70.362, I70.363, I70.368, I70.369, I70.391, I70.392, I70.393, I70.398, I70.399, I70.401, I70.402, I70.403, I70.408, I70.409, I70.411, I70.412, I70.413, I70.418, I70.419, I70.421, I70.422, I70.423, I70.428, I70.429, I70.431, I70.432, I70.433, I70.434, I70.435, I70.438, I70.439, I70.441, I70.442, I70.443, I70.444, I70.445, I70.448, I70.449, I70.45, I70.461, I70.462, I70.463, I70.468, I70.469, I70.491, I70.492, I70.493, I70.498, I70.499, I70.501, I70.502, I70.503, I70.508, I70.509, I70.511, I70.512, I70.513, I70.518, I70.519, I70.521, I70.522, I70.523, I70.528, I70.529, I70.531, I70.532, I70.533, I70.534, I70.535, I70.538, I70.539, I70.541, I70.542, I70.543, I70.544, I70.545, I70.548, I70.549, I70.55, I70.561, I70.562, I70.563, I70.568, I70.569, I70.591, I70.592, I70.593, I70.598, I70.599, I70.601, I70.602, I70.603, I70.608, I70.609, I70.611, I70.612, I70.613, I70.618, I70.619, I70.621, I70.622, I70.623, I70.628, I70.629, I70.631, I70.632, I70.633, I70.634, I70.635, I70.638, I70.639, I70.641, I70.642, I70.643, I70.644, I70.645, I70.648, I70.649, I70.65, I70.661, I70.662, I70.663, I70.668, I70.669, I70.691, I70.692, I70.693, I70.698, I70.699, I70.701, I70.702, I70.703, I70.708, I70.709, I70.711, I70.712, I70.713, I70.718, I70.719, I70.721, I70.722, I70.723, I70.728, I70.729, I70.731, I70.732, I70.733, I70.734, I70.735, I70.738, I70.739, I70.741, I70.742, I70.743, I70.744, I70.745, I70.748, I70.749, I70.75, I70.761, I70.762, I70.763, I70.768, I70.769, I70.791, I70.792, I70.793, I70.798, I70.799, I70.8, I70.90, I70.91, I70.92, I71.00, I71.01, I71.02, I71.03, I71.1, I71.2, I71.3, I71.4, I71.5, I71.6, I71.8, I71.9, I73.81, I73.89, I73.9

ICD-9

440, 440.0, 440.1, 440.2, 440.20, 440.21, 440.22, 440.23, 440.24, 440.29, 440.3, 440.30, 440.31, 440.32, 440.4, 440.8, 440.9, 441, 441.0, 441.00, 441.01, 441.02, 441.03, 441.1, 441.2, 441.3, 441.4, 441.5, 441.6, 441.7, 441.9, 442, 442.0, 442.1, 442.2, 442.3, 442.8, 442.81, 442.82, 442.83, 442.84, 442.89, 442.9, 443, 443.0, 443.1, 443.2, 443.21, 443.22, 443.23, 443.24, 443.29, 443.8, 443.81, 443.82, 443.89, 443.9, 785.4, V43.4, 996.1

Diabetes Mellitus

ICD-10

E08.00, E08.01, E08.10, E08.11, E08.21, E08.22, E08.29,
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E08.3212, E08.3213, E08.3219, E08.329, E08.329,
E08.3291, E08.3292, E08.3293, E08.3299, E08.331,
E08.331, E08.3311, E08.3312, E08.3313, E08.3319,
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E08.3399, E08.341, E08.341, E08.3411, E08.3412,
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E08.3492, E08.3493, E08.3499, E08.351, E08.351,
E08.3511, E08.3512, E08.3513, E08.3519, E08.352,
E08.3521, E08.3522, E08.3523, E08.3529, E08.353,
E08.3531, E08.3532, E08.3533, E08.3539, E08.354,
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E08.3551, E08.3552, E08.3553, E08.3559, E08.359,
E08.359, E08.3591, E08.3592, E08.3593, E08.3599,
E08.36, E08.37, E08.37X1, E08.37X2, E08.37X3,
E08.37X9, E08.39, E08.40, E08.41, E08.42, E08.43,
E08.44, E08.49, E08.51, E08.52, E08.59, E08.610,
E08.618, E08.620, E08.621, E08.622, E08.628, E08.630,
E08.638, E08.641, E08.649, E08.65, E08.69, E08.8,
E08.9, E09.00, E09.01, E09.10, E09.11, E09.21, E09.22,
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E09.3399, E09.341, E09.341, E09.3411, E09.3412,
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E09.37X9, E09.39, E09.40, E09.41, E09.42, E09.43,
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E09.638, E09.641, E09.649, E09.65, E09.69, E09.8,
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E10.3591, E10.3592, E10.3593, E10.3599, E10.36,
E10.37, E10.37X1, E10.37X2, E10.37X3, E10.37X9,
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E10.51, E10.52, E10.59, E10.610, E10.618, E10.620,
E10.621, E10.622, E10.628, E10.630, E10.638, E10.641,
E10.649, E10.65, E10.69, E10.8, E10.9, E11.00, E11.01,
E11.1, E11.10, E11.11, E11.21, E11.22, E11.29, E11.311,
E11.319, E11.321, E11.321, E11.3211, E11.3212,
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E11.3552, E11.3553, E11.3559, E11.359, E11.359,
E11.3591, E11.3592, E11.3593, E11.3599, E11.36,
E11.37, E11.37X1, E11.37X2, E11.37X3, E11.37X9,
E11.39, E11.40, E11.41, E11.42, E11.43, E11.44, E11.49,
E11.51, E11.52, E11.59, E11.610, E11.618, E11.620,
E11.621, E11.622, E11.628, E11.630, E11.638, E11.641,
E11.649, E11.65, E11.69, E11.8, E11.9, E13.00, E13.01,
E13.10, E13.11, E13.21, E13.22, E13.29, E13.311,
E13.319, E13.321, E13.321, E13.3211, E13.3212,
E13.3213, E13.3219, E13.329, E13.329, E13.3291,
E13.3292, E13.3293, E13.3299, E13.331, E13.331,
E13.3311, E13.3312, E13.3313, E13.3319, E13.339,
E13.339, E13.3391, E13.3392, E13.3393, E13.3399,
E13.341, E13.341, E13.3411, E13.3412, E13.3413,
E13.3419, E13.349, E13.349, E13.3491, E13.3492,
E13.3493, E13.3499, E13.351, E13.351, E13.3511,
E13.3512, E13.3513, E13.3519, E13.352, E13.3521,
E13.3522, E13.3523, E13.3529, E13.353, E13.3531,
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E13.3542, E13.3543, E13.3549, E13.355, E13.3551,
E13.3552, E13.3553, E13.3559, E13.359, E13.359,
E13.3591, E13.3592, E13.3593, E13.3599, E13.36,
E13.37, E13.37X1, E13.37X2, E13.37X3, E13.37X9,

		E13.39, E13.40, E13.41, E13.42, E13.43, E13.44, E13.49, E13.51, E13.52, E13.59, E13.610, E13.618, E13.620, E13.621, E13.622, E13.628, E13.630, E13.638, E13.641, E13.649, E13.65, E13.69, E13.8, E13.9
	ICD-9	250, 250.0, 250.00, 250.01, 250.02, 250.03, 250.1, 250.10, 250.11, 250.12, 250.13, 250.2, 250.20, 250.21, 250.22, 250.23, 250.3, 250.30, 250.31, 250.32, 250.33, 250.4, 250.40, 250.41, 250.42, 250.43, 250.5, 250.50, 250.51, 250.52, 250.53, 250.6, 250.60, 250.61, 250.62, 250.63, 250.7, 250.70, 250.71, 250.72, 250.73, 250.8, 250.80, 250.81, 250.82, 250.83, 250.9, 250.90, 250.91, 250.92, 250.93
	ICD-10	I67.4, I16.9, I16.1, I16.0, I16, I15.9, I15.8, I15.2, I15.1, I15.0, I13.2, I13.11, I13.10, I13.0, I12.9, I12.0, I11.9, I11.0, I10, H35.039, H35.033, H35.032, H35.031
Hypertension	ICD-9	437.2, 405.99, 405.91, 405.9, 405.19, 405.11, 405.1, 405.09, 405.01, 405.0, 405, 404.93, 404.92, 404.91, 404.90, 404.9, 404.13, 404.12, 404.11, 404.10, 404.1, 404.03, 404.02, 404.01, 404.00, 404.0, 404, 403.91, 403.90, 403.9, 403.11, 403.10, 403.1, 403.01, 403.00, 403.0, 403, 402.91, 402.90, 402.9, 402.11, 402.10, 402.1, 402.01, 402.00, 402.0, 402, 401.9, 401.1, 401.0, 401, 362.11
Pulmonary Hypertension	ICD-10	I27.29, I27.24, I27.23, I27.22, I27.21, I27.20, I27.2, I27.0
	ICD-9	416.0
Cirrhosis	ICD-10	K74.69, K74.60, K74.5, K74.4, K74.3, K70.31, K70.30
	ICD-9	571.6, 571.5, 571.2, 571

Table S3 Diagnosis codes utilized to assess for incident chronic kidney disease, end-stage renal disease and kidney transplantation

	ICD-10	I12.0, I12.9, I13.0, I13.10, I13.11, I13.2, N18.1, N18.2, N18.3, N18.4, N18.5, N18.6, N18.9, D63.1, E08.22, E09.22, E10.22, E11.22, E13.22, O10.211, O10.212, O10.213, O10.219, O10.22, O10.23, O10.311, O10.312, O10.313, O10.319, O10.32, O10.33
Chronic Kidney Disease	ICD-9	250.40, 250.41, 250.42, 250.43, 249.40, 285.21, 403, 403.0, 403.00, 403.01, 403.1, 403.10, 403.11, 403.9, 403.90, 403.91, 404, 404.0, 404.00, 404.01, 404.02, 404.03, 404.1, 404.10, 404.11, 404.12, 404.13, 404.9, 404.90, 404.91, 404.92, 404.93, 585, 585.1, 585.2, 585.3, 585.4, 585.5, 585.6, 585.9, 642.1, 642.10, 642.11, 642.12, 642.13, 642.14
End-stage Renal Disease	ICD-10	N18.6, T85.691A, T85.691D, T85.691S, T85.71XA, T85.71XD, T85.71XS, Z48.22, Z49.01, Z49.02, Z49.31, Z49.32, Z91.15, Z94.0, Z99.2
	ICD-9	34151110, 09964120, 09997110, 34503110, 34503111, 34199716
Kidney Transplantation	ICD-10	T86.10, T86.11, T86.12, T86.13, T86.19, Z48.22, Z94.0
	ICD-9	V42.0, 996.81

Table S4. Outpatient serum creatinine measurements in the 6 months to 7 days prior to index hospitalization by baseline eGFR category

	Baseline GFR Category							p value
	G1 (N=316)	G2 (N=804)	G3A (N=951)	G3B (N=236)	G4 (N=145)	G5 (N=9)	Total (N=2461)	
Median (IQR)	1 (1, 2)	1 (0, 2)	0 (0, 1)	2 (1, 4)	2 (1, 4)	2 (2, 3)	1 (0, 2)	<0.001
Range	(0-14)	(0-32)	(0-20)	(0-12)	(0-13)	(0-5)	(0-32)	
Count								
0	58 (18.4%)	277 (34.5%)	655 (68.9%)	30 (12.7%)	23 (15.9%)	1 (11.1%)	1044 (42.4%)	
1	120 (38.0%)	255 (31.7%)	137 (14.4%)	73 (30.9%)	40 (27.6%)	1 (11.1%)	626 (25.4%)	
2	66 (20.9%)	138 (17.2%)	76 (8.0%)	41 (17.4%)	22 (15.2%)	4 (44.4%)	347 (14.1%)	
3	29 (9.2%)	49 (6.1%)	31 (3.3%)	21 (8.9%)	22 (15.2%)	1 (11.1%)	153 (6.2%)	
4	15 (4.7%)	27 (3.4%)	16 (1.7%)	31 (13.1%)	10 (6.9%)	0 (0.0%)	99 (4.0%)	
5	8 (2.5%)	19 (2.4%)	7 (0.7%)	11 (4.7%)	11 (7.6%)	2 (22.2%)	58 (2.4%)	
6	3 (0.9%)	13 (1.6%)	4 (0.4%)	11 (4.7%)	5 (3.4%)	0 (0.0%)	36 (1.5%)	
7	4 (1.3%)	10 (1.2%)	7 (0.7%)	6 (2.5%)	3 (2.1%)	0 (0.0%)	30 (1.2%)	
8	6 (1.9%)	6 (0.7%)	8 (0.8%)	3 (1.3%)	1 (0.7%)	0 (0.0%)	24 (1.0%)	
9	0 (0.0%)	3 (0.4%)	5 (0.5%)	3 (1.3%)	2 (1.4%)	0 (0.0%)	13 (0.5%)	
10+	7 (2.2%)	7 (0.9%)	5 (0.5%)	6 (2.5%)	6 (4.1%)	0 (0.0%)	31 (1.3%)	

Table S5. Potentially nephrotoxic medications prescribed during the 3-year follow up

Medication Classes Prescribed	Patients Prescribed Medication in Class (%), n=2461	Medications prescribed	Patients Prescribed Medication (%)
PPI	1556 (63)	Omeprazole	1135 (46)
		Pantoprazole	529 (21)
		Lansoprazole	71 (3)
		Esomeprazole	62 (3)
		Rabeprazole	13 (0)
		Dexlansoprazole	3 (0)
Antibiotics	1160 (47)	Ciprofloxacin	773 (31)
		SMX/TMP	543 (22)
		Vancomycin	127 (5)
		Rifampin	17 (1)
		Trimethoprim	16 (1)
		Gentamicin	7 (0)
		Nafcillin	5 (0)
		Penicillin	1 (0)
		Oxacillin	1 (0)
NSAIDs	600 (24)	Ibuprofen	327 (13)
		Naproxen	203 (8)
		Indomethacin	58 (2)
		Celecoxib	39 (2)
		Nabumetone	29 (1)
		Diclofenac	20 (1)
		Ketorolac	19 (1)
		Meloxicam	13 (1)
Sulindac	3 (0)		
Antivirals	233 (9)	Valacyclovir	120 (5)
		Acyclovir	105 (4)
		Valganciclovir	24 (1)
		Tenofovir	7 (0)
		Ribavirin	6 (0)
		Emtricitabine	3 (0)
		Ganciclovir	5 (0)
		Lamivudine	5 (0)
		Abacavir	3 (0)
		Entecavir	2 (0)
		Raltegravir	2 (0)
		Efavirenz	1 (0)
		Lopinavir	1 (0)
		Dolutegravir	1 (0)
Ritonavir	1 (0)		
Chemotherapy	105 (4)	Methotrexate	36 (1)
		Cyclophosphamide	27 (1)
		Lenalidomide	13 (1)
		Carboplatin	12 (0)
		Gemcitabine	9 (0)
		Oxaliplatin	8 (0)
		Sorafenib	7 (0)
		Cisplatin	5 (0)
		Melphalan	4 (0)
Temozolomide	4 (0)		

		Etoposide	3 (0)
		Irinotecan	3 (0)
		Topotecan	3 (0)
		Ibrutinib	2 (0)
		Imatinib	1 (0)
Immunosuppressants	44 (2)	Tacrolimus	32 (1)
		Cyclosporine	17 (1)

PPI: Proton pump inhibitor, SMX/TMP: sulfamethoxazole/trimethoprim NSAID: Non-steroidal anti-inflammatory drug

Table S6. Multivariable analysis inclusive of variables thought to be potentially associated with long-term kidney dysfunction risk

	De novo or progressive CKD by either diagnosis code or eGFR decline^a		Composite of de novo or progressive CKD, readmission with AKI or death^b	
	Hazard Ratio (95% CI)	P value	Hazard Ratio (95% CI)	P value
Nephrotoxin count (per 1 (t.d.))	1.26 (1.18-1.35)	<0.001	1.28 (1.21-1.36)	<0.001
Male Sex	0.93 (0.83-1.04)	0.21	1.04 (0.94-1.15)	0.43
Age (per decade)	1.07 (1.03-1.12)	0.002	1.13 (1.09-1.18)	<0.001
Hospital length of stay (per week)	1.08 (1.03-1.14)	0.001	1.09 (1.05-1.14)	<0.001
In ICU during hospitalization	0.94 (0.83-1.06)	0.29	0.98 (0.87-1.10)	0.71
BMI (per 5 kg/m ²)	0.99 (0.96-1.03)	0.60	0.95 (0.92-0.98)	0.001
Baseline eGFR (per 5 mL/min/1.73m ²)	0.97 (0.95-0.98)	<0.001	0.97 (0.96-0.98)	<0.001
Cardiovascular disease	1.11 (0.96-1.28)	0.16	1.13 (0.99-1.28)	0.065
Congestive heart failure	1.48 (1.30-1.70)	<0.001	1.40 (1.24-1.58)	<0.001
Peripheral vascular disease	1.30 (1.14-1.47)	<0.001	1.17 (1.04-1.31)	0.009
Maximum AKI severity				
1	1.10 (0.89-1.36)	0.40	0.95 (0.79-1.15)	0.60
2	1.05 (0.83-1.33)	0.70	0.96 (0.77-1.19)	0.68
3	Reference		Reference	
Persistent AKI	0.86 (0.75-0.98)	0.021	0.83 (0.74-0.93)	0.002
Δ eGFR during hosp. (per +5 mg/dL)	0.88 (0.86-0.90)	<0.001	0.91 (0.89-0.92)	<0.001

CKD: chronic kidney disease; eGFR: estimated glomerular filtration rate; AKI: acute kidney injury; t.d.: time-dependent; ICU: intensive care unit; BMI: body mass index; hosp.: hospitalization

^a: C-statistic = 0.658 (standard error = 0.008)

^b: C-statistic = 0.648 (standard error = 0.007)

Table S7. Unadjusted relative contribution to *de novo* or progressive CKD of each potentially nephrotoxic medication class ranked by highest to lowest c-statistic.

Medication Class	Hazard Ratio ^a	P-value	C-statistic ^b
PPI	1.35 (1.20-1.52)	<0.001	0.53 (0.007)
Antibiotic	1.91 (1.56-2.34)	<0.001	0.52 (0.004)
Immunosuppressant	2.47 (1.62-3.77)	<0.001	0.51 (0.002)
NSAID	0.91 (0.74-1.13)	0.39	0.51 (0.004)
Antiviral	1.32 (0.93-1.86)	0.12	0.50 (0.003)
Chemotherapy	1.28 (0.78-2.09)	0.33	0.50 (0.002)

PPI: proton pump inhibitor; NSAID: non-steroidal anti-inflammatory drug

^a: Reported as hazard ratio (95% confidence interval)

^b: Reported as c-statistic (standard error)