

**Supplemental Table S1. Computable phenotypes for each event using diagnosis codes, medications, labs, and vitals in electronic health records**

Hypertension	Criteria	- ≥2 elevated BP readings OR - Anti-hypertensive agents excluding ACEi and ARB OR - ICD-9/ICD-10 diagnosis codes EXCLUDE: "White-Coat" hypertension
	Elevated Blood Pressure	Age 0-18: ≥95 <sup>th</sup> percentile for age, sex, and height Age 18-65: ≥140/90 Age 65+: ≥150/90
	Anti-hypertensive agents	Alpha Blockers: Cardura, Carvedilol, Coreg, Doxazosin, Hytrin, Labetalol, Mecamylamine, Minipress, Prazosin, Reserpine, Terazosin, Vecamyl Beta Blockers: Acebutolol, Albuterol Sulfate, Atenolol, Betaxolol, Bisoprolol, Bisoprolol Fumarate, Blocadren, Brevibloc, Bystolic, Carvedilol, Coreg, Coreg Cr, Corgard, Esmolol, Inderal, Inderal La, Innopran XI, Kerlone, Labetalol, Lopressor, Metoprolol, Metoprolol Succinate, Metoprolol Succinate Er, Metoprolol Tartrate, Nadolol, Nebivolol, Normodyne, Pindolol, Propranolol, Sectral, Sotalol, Tenormin, Terbutaline, Timolol, Toprol, Toprol-Xl, Trandate, Visken Calcium Channel Blockers: Adalat Cc, Afeditab Cr, Amlodipine, Caduet, Calan, Calan Sr, Cardizem Cd, Cardizem La, Cartia Xt, Covera-Hs, Dilacor Xr, Diltia Xt, Diltiazem, Dilt-Xr, Diltzac, Felodipine, Isoptin Sr, Isradipine, Matzim La, Nifediac Cc, Nifedical XI, Nifedipine, Norvasc, Plendil, Procardia XI, Taztia Xt, Tiadylt Er, Tiazac, Verapamil, Verelan, Verelan Pm Central Agonists: Catapres, Catapres-Tts, Clonidine, Guanabenz, Guanfacine, Methyldopa, Nexiclon Xr, Tenex Vasodilators: Apresoline, Hydralizine, Isosorbide Mononitrate, Minoxidil
	Diagnosis codes	ICD-9: 401.0, 401.1, 401.9, 402.00, 402.01, 402.10, 402.11, 402.90, 402.91, 403.00, 403.10, 403.90, 404.00, 404.01, 404.10, 404.11, 404.90, 404.91, 405.01, 405.09, 405.11, 405.19, 405.91, 405.99, 437.2, 796.2 ICD-10: I15.9, I10, I11.0, I11.9, I12, I12.9, I13, I13.0, I13.1, I13.10, I15, I15.0, I15.1, I15.2, I15.8, I67.4
	"White-coat" hypertension	ICD-9: 796.2 ICD-10: R03.0
Hyperglycemia	Criteria	- ≥2 elevated glucose measurements <sup>6,7</sup> OR - ICD-9/ICD-10 diagnosis codes EXCLUDE: Sensor at date of diabetes onset (see diabetes criteria)
	Glucose	Fasting: Plasma: 100-125 mg/dL Serum: Age <1 year: >120 mg/dL Age 1-4 years: >130 mg/dL Age 5-11 years: >135 mg/dL Age 12+ years: >100 mg/dL Blood: 90-130 mg/dL Non-Fasting: Plasma: 180-200 mg/dL Serum: 140-200 mg/dL Blood: 160-180 mg/dL
	Diagnosis codes	ICD-9: 790.29 ICD-10: R73.03, R73.09, R73.9

Diabetes	Criteria	- Elevated glucose levels <sup>6,7</sup> OR - Elevated hemoglobin A1C levels <sup>8</sup> OR - Hypoglycemic agents OR - ICD-9/ICD-10 diagnosis codes
	Glucose	Fasting: Plasma: >125 mg/dL Blood: >130 mg/dL Non-Fasting: Plasma: >200 mg/dL Serum: >200 mg/dL Blood: >180 mg/dL
	Hemoglobin A1C	>6.4%
	Hypoglycemic Agents	Acarbose, Actoplus Met, Actoplus Met Xr, Actos, Adlyxin, Admelog, Afrezza, Albiglutide, Alogliptin, Alogliptin and Metformin, Alogliptin and Pioglitazone, Amaryl, Apidra, Avandamet, Avandaryl, Avandia, Basaglar, Bromocriptine, Bydureon, Bydureon Bcise, Byetta, Canagliflozin, Canagliflozin and Metformin, Chlorpropamide, Chromium Picolinate, Colesevelam, Cr-Gtf, Crm, Cycloset, Dapagliflozin, Dapagliflozin and Metformin, Dapagliflozin and Saxagliptin, Diabeta, Diabinese, Diazoxide, Duetact, Dulaglutide, Empagliflozin, Empagliflozin and Linagliptin, Empagliflozin and Metformin, Ertugliflozin, Ertugliflozin and Metformin, Ertugliflozin and Sitagliptin, Exenatide, Farxiga, Fiasp, Fortamet, Glimepiride, Glimepiride and Pioglitazone, Glimepiride and Rosiglitazone, Glipizide and Metformin, Glipizide XI, Glipizide, Glucagen, Glucagon, Glucophage, Glucophage Xr, Glucotrol, Glucotrol XL, Glucovance, Glumetza, Glyburide, Glyburide and Metformin, Glyceron, Glynase, Glynase Prestab, Glyset, Glyxambi, Humalog, Humalog Kwipen, Humalog Mix 50/50, Humalog Mix 50/50 Kwipen, Humalog Mix 75/25, Humalog Mix 75/25 Kwipen, Humulin 50/50, Humulin 70/30, Humulin 70/30 Kwipen, Humulin 70/30 Pen, Humulin N, Humulin N Pen, Humulin R, Humulin R U-500 (Concentrated), Humulin R U-500 Kwipen, Hyperstat, Insulin Aspart, Insulin Aspart and Insulin Aspart Protamine, Insulin Aspart and Insulin Degludec, Insulin Degludec, Insulin Degludec and Liraglutide, Insulin Degludec, Insulin Detemir, Insulin Glargine, Insulin Glargine and Lixisenatide, Insulin Glargine and Lixisenatide, Insulin Inhalation (Rapid Acting), Insulin Isophane, Insulin Isophane and Insulin Regular, Insulin Lispro, Insulin Lispro and Insulin Lispro Protamine, Insulin Regular, Invokamet, Invokamet Xr, Invokana, Janumet, Janumet Xr, Januvia, Jardiance, Jentadueto, Jentadueto Xr, Kazano, Kombiglyze Xr, Lantus, Lantus Solostar, Levemir, Linagliptin, Linagliptin and Metformin, Liraglutide, Lixisenatide, Metaglip, Metformin, Metformin and Pioglitazone, Metformin and Repaglinide, Metformin and Rosiglitazone, Metformin and Saxagliptin, Metformin and Saxagliptin Systemic, Metformin and Sitagliptin, Miglitol, Miglitol, Nateglinide, Nesina, Novolin 70/30, Novolin N, Novolin R, Novolog, Novolog Flexpen, Novolog Mix 70/30, Novolog Mix 70/30 Flexpen, Novolog Penfill, Octreotide, Onglyza, Oseni, Ozempic, Pioglitazone, Pramlintide, Prandimet, Prandin, Precose, Proglycem, Qtern, Relion and Humulin R, Relion Novolin N, Relion/Novolin 70/30, Repaglinide, Riomet, Rosiglitazone, Ryzodeg 70/30, Sandostatin, Sandostatin Lar Depot, Saxagliptin, Segluromet, Semaglutide, Sitagliptin, Soliqua, Starlix, Steglujan, Steglujan, Symlin, Symlin Pen, Symlinpen 120, Symlinpen 60, Synjardy, Synjardy Xr, Tanzeum, Toujeo, Toujeo Solostar, Tradjenta, Tresiba, Trulicity, Victoza, Welchol, Xigduo Xr, Xultophy
Diagnosis codes	ICD-9: 249.00, 249.01, 249.10, 249.11, 249.20, 249.21, 249.30, 249.31, 249.40, 249.41, 249.50, 249.51, 249.60, 249.61, 249.70, 249.71, 249.80, 249.81, 249.90, 249.91, 250.00, 250.01, 250.02, 250.03, 250.10, 250.11, 250.12, 250.13, 790.2, 790.29 ICD-10: E08.01, E08.10, E08.11, E08.21, E08.311, E08.319, E08.36, E08.37x1, E08.37x2, E08.37x3, E08.37x9, E08.39, E08.40, E08.41, E08.42, E08.43, E08.44, E08.49, E08.51, E08.610, E08.618, E08.620, E08.621, E08.622, E08.628, E08.630, E08.638, E08.641, E08.65, E08.69, E08.8, E08.9, E09.01, E09.10, E09.11, E09.21, E09.311, E09.319, E09.36, E09.37x1, E09.37x2, E09.37x3, E09.37x9, E09.39, E09.40, E09.41, E09.42, E09.43, E09.44, E09.49, E09.51, E09.610, E09.618, E09.620, E09.621, E09.622, E09.628, E09.630, E09.638, E09.641, E09.649, E09.65, E09.69, E09.8, E09.9, E10.10, E10.65, E10.9, E11.10, E11.65, E11.69, E11.9, E13.00, E13.10, E13.11, E13.39, E13.40, E13.41, E13.42, E13.43, E13.44, E13.49, E13.59, E13.620, E13.621, E13.622, E13.628 E13.638, E13.641, E13.649, E13.65, E13.69, E13.8, E13.9, R73.03, R73.09	
Overweight	Criteria	- Body mass index <sup>9</sup> OR - ICD-9/ICD-10 diagnosis codes EXCLUDE: Censor at date of obesity onset (see obesity criteria)
	Body mass index	Adults: 25-30 kg/m <sup>2</sup> Children: 85-95 <sup>th</sup> percentile for age and sex
	Diagnosis codes	ICD-9: 278.02, V85.21, V85.22, V85.23, V85.24, V85.25, V85.53 ICD-10: E66.3, Z68.25, Z68.26, Z68.27, Z68.28, Z68.29, Z68.53
Obesity	Criteria	- Body mass index <sup>9</sup> OR - ICD-9/ICD-10 diagnosis codes
	Body mass index	Adults: ≥30 kg/m <sup>2</sup> Children: ≥95 <sup>th</sup> percentile for age and sex
	Diagnosis codes	ICD-9: 278.0, 278.00, 278.01, 278.03 ICD-10: E66.0, E66.01, E66.09, E66.1, E66.2, E66.8, E66.9
Short Stature	Criteria	- Height percentile <sup>10</sup> OR - Growth hormone agents OR - ICD-9/ICD-10 diagnosis codes EXCLUDE: adult-onset kidney disease
	Height	<3 <sup>rd</sup> percentile for age and sex

	Growth hormone agents	Egrifta, Genotropin, Geref, Humatrope, Macimorelin, Macrilen, Norditropin, Nutropin, Omnitrope, Saizen, Sermorelin, Serostim, Somatropin, Tesamorelin, Zomacton, Zorbtive
	Diagnosis codes	ICD-9: 783.40, 783.41, 783.43, 783.7 ICD-10: R62.5, R62.50, R62.51, R62.52, R62.59, R62.7
Cataracts	Criteria	- ICD-9/ICD-10 diagnosis codes
	Diagnosis codes	ICD-9: 366.0, 366.02, 366.45, 366.8, 366.9 ICD-10: H26.059, H26.069, H26.30, H26.31, H26.32, H26.33, H26.8, H26.9
Glaucoma	Criteria	- ICD-9/ICD-10 diagnosis codes
	Diagnosis codes	ICD-9: 365.0, 365.04, 365.3, 365.31, 365.32, 365.70, 365.71, 365.73, 365.74 ICD-10: H40.059, H40.60, H40.60x0, H40.60x1, H40.60x2, H40.60x3, H40.60x4, H40.61, H40.61x0, H40.61x1, H40.61x2, H40.61x3, H40.62, H40.62x0, H40.62x1, H40.62x2
Osteoporosis	Criteria	- ICD-9/ICD-10 diagnosis codes
	Diagnosis codes	ICD-9: 733.0, 733.00, 733.01, 733.02, 733.09, 733.10, 733.11, 733.12, 733.14, 733.15, 733.16, 733.19 ICD-10: M80, M80.0, M80.00, M80.00xA, M80.01, M80.011, M80.011A, M80.012, M80.012A, M80.019, M80.02, M80.021, M80.021A, M80.022, M80.022A, M80.029, M80.03, M80.031, M80.031A, M80.032, M80.032A, M80.039, M80.039A, M80.04, M80.041, M80.041A, M80.042, M80.042A, M80.049, M80.05, M80.051, M80.051A, M80.052, M80.052A, M80.059, M80.06, M80.061, M80.061A, M80.062, M80.062A, M80.069, M80.07, M80.071, M80.071A, M80.072, M80.072A, M80.079, M80.08, M80.08xA, M80.8, M80.80, M80.80xA, M80.80xD, M80.80xG, M80.80xP, M80.811, M80.811A, M80.811D, M80.811G, M80.812, M80.812A, M80.812D, M80.812G, M80.819, M80.819A, M80.819D, M80.819G, M80.819K, M80.819P, M80.82, M80.821, M80.821A, M80.821D, M80.821G, M80.822, M80.822A, M80.822D, M80.822G, M80.829, M80.829A, M80.83, M80.831, M80.831A, M80.832, M80.832A, M80.839, M80.839A, M80.841, M80.841A, M80.842, M80.842A, M80.849, M80.849A, M80.85, M80.851, M80.851A, M80.852, M80.852A, M80.859, M80.859A, M80.86, M80.861, M80.861A, M80.862, M80.862A, M80.869, M80.87, M80.871, M80.871A, M80.872, M80.872A, M80.879, M80.88, M80.88xA, M81.0, M81.8
Osteonecrosis	Criteria	- ICD-9/ICD-10 diagnosis codes
	Diagnosis codes	ICD-9: 731.8, 733.40, 733.41, 733.42, 733.43, 733.44, 733.45, 733.49 ICD-10: M87, M87.00, M87.029, M87.059, M87.076, M87.08, M87.1, M87.10, M87.11, M87.111, M87.112, M87.119, M87.12, M87.121, M87.122, M87.129, M87.13, M87.131, M87.132, M87.133, M87.134, M87.135, M87.136, M87.137, M87.138, M87.139, M87.14, M87.141, M87.142, M87.143, M87.144, M87.145, M87.146, M87.15, M87.150, M87.151, M87.152, M87.159, M87.16, M87.161, M87.162, M87.163, M87.164, M87.165, M87.166, M87.17, M87.171, M87.172, M87.173, M87.174, M87.175, M87.176, M87.177, M87.178, M87.179, M87.18, M87.180, M87.188, M87.19, M87.80, M87.81, M87.811, M87.812, M87.819, M87.82, M87.821, M87.822, M87.829, M87.83, M87.831, M87.832, M87.833, M87.834, M87.835, M87.836, M87.837, M87.838, M87.839, M87.84, M87.841, M87.842, M87.843, M87.844, M87.845, M87.849, M87.85, M87.850, M87.851, M87.852, M87.859, M87.86, M87.861, M87.862, M87.863, M87.864, M87.865, M87.869, M87.87, M87.871, M87.872, M87.873, M87.874, M87.875, M87.876, M87.877, M87.878, M87.879, M87.88, M87.89, M87.9, M90.50, M90.511, M90.512, M90.519, M90.521, M90.522, M90.529, M90.531, M90.539, M90.549, M90.559, M90.561, M90.562, M90.569, M90.57, M90.571, M90.572, M90.579, M90.59
Pneumonia	Criteria	- ICD-9/ICD-10 diagnosis codes
	Diagnosis codes	ICD-9: 052.1, 480.0, 480.1, 480.2, 480.8, 480.9, 482.0, 482.1, 482.2, 482.3, 482.30, 482.31, 482.32, 482.39, 482.4, 482.40, 482.41, 482.42, 482.49, 482.8, 482.81, 482.82, 482.83, 482.89, 482.9, 483, 483.0, 483.1, 483.8, 484.3, 484.7, 484.8, 485, 486, 487.0, 517.1 ICD-10: A37.91, B01.2, J11.00, J12.0, J12.1, J12.2, J12.89, J12.9, J12.9, J13, J14, J15.0, J15.1, J15.20, J15.211, J15.212, J15.29, J15.3, J15.4, J15.5, J15.6, J15.7, J15.8, J15.9, J16.0, J16.8, J17, J18.0, J18.1, J18.9
Septicemia and bacteremia	Criteria	- ICD-9/ICD-10 diagnosis codes
	Diagnosis codes	ICD-9: 036.2, 038.0, 038.1, 038.10, 038.11, 038.12, 038.19, 038.2, 038.3, 038.40, 038.41, 038.42, 038.43, 038.44, 038.49, 038.8, 038.9, 054.5, 117.9, 449, 771.81, 771.83, 785.52, 790.7, 995.91 ICD-10: A39.4, A40.3, A40.9, A41.01, A41.02, A41.1, A41.2, A41.3, A41.4, A41.50, A41.51, A41.52, A41.53, A41.59, A41.8, A41.89, A41.9, B00.7, B49, I76, P36.9, R65.21, R78.81
Peritonitis	Criteria	- ICD-9/ICD-10 diagnosis codes
	Diagnosis codes	ICD-9: 567.0, 567.1, 567.2, 567.21, 567.22, 567.23, 567.29, 567.8, 567.89, 567.9 ICD-10: K65, K65.0, K65.1, K65.2, K65.8, K65.9, K67
Cellulitis	Criteria	- ICD-9/ICD-10 diagnosis codes
	Diagnosis codes	ICD-9: 373.13, 376.01, 681.00, 681.10, 681.9, 682, 682.0, 682.1, 682.2, 682.3, 682.4, 682.5, 682.6, 682.7, 682.8, 682.9 ICD-10: H05.01, H05.011, H05.012, H05.013, H05.019, H60.1, J34.0, K12.2, L03, L03.0, L03.01, L03.011, L03.012, L03.019, L03.029, L03.03, L03.031, L03.032, L03.039, L03.049, L03.1, L03.11, L03.111, L03.112, L03.113, L03.114, L03.115, L03.116, L03.119, L03.129, L03.2, L03.21, L03.211, L03.22, L03.221, L03.3, L03.31, L03.311, L03.312, L03.313, L03.314, L03.317, L03.319, L03.329, L03.8, L03.81, L03.811, L03.818, L03.891, L03.898, L03.9, L03.90, L03.91
Psychosis	Criteria	- ICD-9/ICD-10 diagnosis codes
	Diagnosis codes	ICD-9: 292.1, 292.11, 292.12, 368.16, 780.1 ICD-10: F15.150, F15.250, F15.251, F15.951, F19.151, F19.251, F19.94, F19.950, F19.951, F19.99, R44, R44.0, R44.1, R44.2, R44.3

	Criteria	- ICD-9/ICD-10 diagnosis codes
Fractures	Diagnosis codes	ICD-9: 733.10, 733.11, 733.12, 733.13, 733.16, 733.19, 733.82, 733.93, 733.94, 733.95, 733.96, 733.97, 733.98, 767.3, 800.0, 800.1, 800.2, 800.3, 800.4, 800.5, 800.6, 800.7, 800.8, 800.9, 801.0, 801.1, 801.2, 801.3, 801.4, 801.5, 801.6, 801.7, 801.8, 801.9, 802.0, 802.1, 802.20, 802.21, 802.22, 802.23, 802.24, 802.25, 802.26, 802.27, 802.28, 802.29, 802.30, 802.31, 802.32, 802.33, 802.34, 802.35, 802.36, 802.37, 802.38, 802.39, 802.4, 802.5, 802.6, 802.7, 802.8, 802.9, 803.0, 803.1, 803.2, 803.3, 803.4, 803.5, 803.6, 803.7, 803.8, 803.9, 804.1, 804.2, 804.3, 804.4, 804.5, 804.6, 804.7, 804.8, 804.9, 805.00, 805.01, 805.02, 805.03, 805.04, 805.05, 805.06, 805.07, 805.08, 805.10, 805.11, 805.12, 805.13, 805.14, 805.15, 805.16, 805.17, 805.18, 805.2, 805.3, 805.4, 805.5, 805.6, 805.7, 805.8, 805.9, 806.0, 806.1, 806.2, 806.3, 806.4, 806.5, 806.6, 806.61, 806.62, 806.69, 806.70, 806.71, 806.72, 806.79, 806.8, 806.9, 807.0, 807.1, 807.2, 807.3, 807.4, 807.5, 807.6, 808.0, 808.1, 808.2, 808.3, 808.41, 808.42, 808.43, 808.44, 808.49, 808.51, 808.52, 808.53, 808.54, 808.59, 808.8, 808.9, 809.0, 809.1, 810.00, 810.01, 810.02, 810.03, 810.11, 810.12, 810.13, 811.00, 811.01, 811.02, 811.03, 811.09, 811.10, 811.11, 811.12, 811.13, 811.19, 812.00, 812.01, 812.02, 812.03, 812.09, 812.10, 812.11, 812.12, 812.13, 812.19, 812.20, 812.21, 812.30, 812.31, 812.40, 812.41, 812.42, 812.43, 812.44, 812.49, 812.50, 812.51, 812.52, 812.53, 812.54, 812.59, 813.00, 813.01, 813.02, 813.03, 813.04, 813.05, 813.06, 813.07, 813.08, 813.10, 813.11, 813.12, 813.13, 813.14, 813.15, 813.16, 813.17, 813.18, 813.20, 813.21, 813.22, 813.23, 813.30, 813.31, 813.32, 813.33, 813.40, 813.41, 813.42, 813.43, 813.44, 813.45, 813.46, 813.47, 813.50, 813.51, 813.52, 813.53, 813.54, 813.80, 813.81, 813.82, 813.83, 813.90, 813.91, 813.92, 813.93, 814.00, 814.01, 814.02, 814.03, 814.04, 814.05, 814.06, 814.07, 814.08, 814.09, 814.10, 814.11, 814.12, 814.13, 814.14, 814.15, 814.16, 814.17, 814.18, 814.19, 815.00, 815.01, 815.02, 815.03, 815.04, 815.09, 815.10, 815.11, 815.12, 815.13, 815.14, 815.19, 816.00, 816.01, 816.02, 816.03, 816.10, 816.11, 816.12, 816.13, 817.0, 817.1, 818.0, 818.1, 819.0, 819.1, 820.00, 820.01, 820.02, 820.03, 820.09, 820.10, 820.11, 820.12, 820.13, 820.19, 820.20, 820.21, 820.22, 820.3, 820.31, 820.32, 820.8, 820.9, 821.00, 821.01, 821.10, 821.11, 821.20, 821.21, 821.22, 821.23, 821.29, 821.30, 821.31, 821.32, 821.33, 821.39, 822.0, 822.1, 823.00, 823.01, 823.02, 823.10, 823.11, 823.12, 823.20, 823.21, 823.22, 823.30, 823.31, 823.32, 823.40, 823.41, 823.42, 823.8, 823.81, 823.82, 823.90, 823.91, 823.92, 824.0, 824.1, 824.2, 824.3, 824.4, 824.5, 824.6, 824.7, 824.8, 824.9, 825.0, 825.1, 825.20, 825.21, 825.22, 825.23, 825.24, 825.25, 825.29, 825.30, 825.31, 825.32, 825.33, 825.34, 825.35, 825.39, 826.0, 826.1, 827.0, 827.1, 828.0, 828.1, 829.0, 829.1, 873.63, 873.73, 959.13
		ICD-10: M48.40xA, M48.41xA, M48.42xA, M48.43xA, M48.44xA, M48.45xA, M48.46xA, M48.47xA, M48.48xA, M48.50xA, M80.08xA, M84.30xA, M84.31A, M84.32A, M84.33A, M84.34A, M84.35A, M84.35A, M84.36A, M84.37A, M84.37A, M84.37A, M84.37A, M84.38xA, M84.40xA, M84.41A, M84.42A, M84.43A, M84.46A, M84.47A, M84.48xA, M84.68xA, P13.0, P13.2, P13.3, P13.8, S02.2xxA, S02.2xxB, S02.30xA, S02.30xB, S02.31xA, S02.31xB, S02.32xA, S02.32xB, S02.400A, S02.400B, S02.401A, S02.401B, S02.402A, S02.402B, S02.40A, S02.40AB, S02.40BA, S02.40BB, S02.40CA, S02.40CB, S02.40DA, S02.40DB, S02.40EA, S02.40EB, S02.40FA, S02.40FB, S02.42xA, S02.42xB, S02.5xxA, S02.5xxB, S02.600A, S02.600B, S02.601A, S02.601B, S02.602A, S02.602B, S02.609A, S02.609B, S02.610A, S02.610B, S02.611A, S02.611B, S02.612A, S02.612B, S02.620A, S02.620B, S02.621A, S02.621B, S02.622A, S02.622B, S02.630A, S02.630B, S02.631A, S02.631B, S02.632A, S02.632B, S02.640A, S02.640B, S02.641A, S02.641B, S02.642A, S02.642B, S02.650A, S02.650B, S02.651A, S02.651B, S02.652A, S02.652B, S02.66xA, S02.66xB, S02.670A, S02.670B, S02.671A, S02.671B, S02.672A, S02.672B, S02.69xA, S02.69xB, S02.91xK, S02.92xA, S02.92xB, S02.92xK, S12.000A, S12.000B, S12.001A, S12.001B, S12.001K, S12.100A, S12.100B, S12.100K, S12.101A, S12.101B, S12.101K, S12.200A, S12.200B, S12.200K, S12.201A, S12.201B, S12.201K, S12.300A, S12.300B, S12.300K, S12.301A, S12.301B, S12.301K, S12.400A, S12.400B, S12.400K, S12.401A, S12.401B, S12.401K, S12.500A, S12.500B, S12.500K, S12.501A, S12.501B, S12.501K, S12.600A, S12.600B, S12.600K, S12.601A, S12.601B, S12.601K, S12.8xxA, S12.9xxA, S14.109A, S22.009A, S22.009B, S22.20xA, S22.20xB, S22.49xA, S22.49xB, S22.5xxA, S22.5xxB, S22.9xxA, S22.9xxB, S22.9xxK, S24.109A, S32.009A, S32.009B, S32.019A, S32.019B, S32.029A, S32.029B, S32.039A, S32.039B, S32.049A, S32.049B, S32.059A, S32.059B, S32.10xA, S32.10xB, S32.2xxA, S32.2xxB, S32.309A, S32.309B, S32.409A, S32.409B, S32.501A, S32.501B, S32.502A, S32.502B, S32.509A, S32.509B, S32.609A, S32.609B, S32.810A, S32.810B, S32.811A, S32.811B, S32.82xA, S32.82xB, S32.89xA, S32.89xB, S32.9xxA, S32.9xxB, S34.101A, S34.102A, S34.103A, S34.104A, S34.105A, S34.109A, S34.111A, S34.112A, S34.113A, S34.114A, S34.115A, S34.119A, S34.121A, S34.122A, S34.123A, S34.124A, S34.125A, S34.129A, S34.131A, S34.132A, S34.139A, S34.3xxA, S39.840A, S42.009A, S42.009K, S42.013A, S42.013B, S42.016A, S42.016B, S42.019A, S42.019B, S42.023A, S42.023B, S42.026A, S42.026B, S42.033A, S42.033B, S42.036A, S42.036B, S42.109A, S42.109B, S42.113A, S42.113B, S42.116A, S42.116B, S42.123A, S42.123B, S42.126A, S42.126B, S42.133A, S42.133B, S42.136A, S42.136B, S42.143A, S42.143B, S42.146A, S42.146B, S42.153A, S42.153B, S42.156A, S42.156B, S42.199A, S42.199B, S42.209A, S42.209B, S42.209K, S42.213A, S42.213B, S42.216A, S42.216B, S42.253A, S42.253B, S42.256A, S42.256B, S42.293A, S42.293B, S42.295A, S42.296A, S42.296B, S42.309A, S42.309B, S42.399A, S42.399B, S42.409A, S42.409B, S42.413A, S42.413B, S42.416A, S42.416B, S42.433A, S42.436A, S42.443A, S42.446A, S42.453A, S42.453B, S42.456A, 42.456B, S42.463A, S42.463B, S42.466A, S42.466B, S42.473A, S42.473B, S42.476A, S42.476B, S42.493A, S42.493B, S42.496A, S42.496B, S42.90xA, S42.90xB, S42.90xA, S42.91xA, S42.91xB, S42.92xA, S42.92xB, S52.009A, S52.009B, S52.009C, S52.011A, S52.012A, S52.019A, S52.023A, S52.023B, S52.023C, S52.026A, S52.026B, S52.026C, S52.043A, S52.043B, S52.043C, S52.046A, S52.046B, S52.046C, S52.099A, S52.099B, S52.099C, S52.109A, S52.109B, S52.109C, S52.111A, S52.112A, S52.119A, S52.123A, S52.123B, S52.123C, S52.126A, S52.126B, S52.126C, S52.133A, S52.133B, S52.133C, S52.136A, S52.136B, S52.136C, S52.189A, S52.189B, S52.189C, S52.209A, S52.209B, S52.209C, S52.279A, S52.279B, S52.279C, S52.309A, S52.309B, S52.309C, S52.509A, S52.509B, S52.509C, S52.521A, S52.522A, S52.529A, S52.539A, S52.539B, S52.539C, S52.549A, S52.609A, S52.609B, S52.609C, S52.621A, S52.622A, S52.629A, S52.90xA, S52.90xB, S52.90xC, S52.90xK, S52.90xM, S52.90xN, S52.91xA, S52.91xB, S52.92xA, S52.92xB, S59.109A, S62.009A, S62.009B, S62.109A, S62.109B, S62.113A, S62.113B, S62.116A, S62.116B, S62.123A, S62.123B, S62.126A, S62.126B, S62.133A, S62.133B, S62.136A, S62.136B, S62.143A, S62.143B, S62.146A, S62.146B, S62.153A, S62.153B, S62.156A, S62.156B, S62.163A, S62.163B, S62.166A, S62.166B, S62.173A, S62.173B, S62.176A, S62.176B, S62.183A, S62.183B, S62.186A, S62.186B, S62.233A, S62.233B, S62.236A, S62.236B, S62.309A, S62.309B, S62.319A, S62.319B, S62.329A, S62.329B, S62.339A, S62.339B, S62.349A, S62.349B, S62.359A, S62.359B, S62.369A, S62.369B, S62.399A, S62.399B, S62.509A, S62.509B, S62.513A, S62.513B, S62.516A, S62.516B, S62.523A, S62.523B, S62.526A, S62.526B, S62.609A, S62.609B, S62.609C, S62.629A, S62.629B, S62.639A, S62.639B, S62.649A, S62.649B, S62.659A, S62.659B, S62.669A, S62.669B, S62.90xA, S62.90xB, S62.90xK, S62.909A, S62.909B, S62.909C, S62.919A, S62.919B, S62.919C, S62.919D, S62.919E, S62.919F, S62.919G, S62.919H, S62.919I, S62.919J, S62.919K, S62.919L, S62.919M, S62.919N, S62.919O, S62.919P, S62.919Q, S62.919R, S62.919S, S62.919T, S62.919U, S62.919V, S62.919W, S62.919X, S62.919Y, S62.919Z, S62.919AA, S62.919AB, S62.919AC, S62.919AD, S62.919AE, S62.919AF, S62.919AG, S62.919AH, S62.919AI, S62.919AJ, S62.919AK, S62.919AL, S62.919AM, S62.919AN, S62.919AO, S62.919AP, S62.919AQ, S62.919AR, S62.919AS, S62.919AT, S62.919AU, S62.919AV, S62.919AW, S62.919AX, S62.919AY, S62.919AZ, S62.919BA, S62.919BB, S62.919BC, S62.919BD, S62.919BE, S62.919BF, S62.919BG, S62.919BH, S62.919BI, S62.919BJ, S62.919BK, S62.919BL, S62.919BM, S62.919BN, S62.919BO, S62.919BP, S62.919BQ, S62.919BR, S62.919BS, S62.919BT, S62.919BU, S62.919BV, S62.919BW, S62.919BX, S62.919BY, S62.919BZ, S62.919CA, S62.919CB, S62.919CC, S62.919CD, S62.919CE, S62.919CF, S62.919CG, S62.919CH, S62.919CI, S62.919CJ, S62.919CK, S62.919CL, S62.919CM, S62.919CN, S62.919CO, S62.919CP, S62.919CQ, S62.919CR, S62.919CS, S62.919CT, S62.919CU, S62.919CV, S62.919CW, S62.919CX, S62.919CY, S62.919CZ, S62.919DA, S62.919DB, S62.919DC, S62.919DD, S62.919DE, S62.919DF, S62.919DG, S62.919DH, S62.919DI, S62.919DJ, S62.919DK, S62.919DL, S62.919DM, S62.919DN, S62.919DO, S62.919DP, S62.919DQ, S62.919DR, S62.919DS, S62.919DT, S62.919DU, S62.919DV, S62.919DW, S62.919DX, S62.919DY, S62.919DZ, S62.919EA, S62.919EB, S62.919EC, S62.919ED, S62.919EE, S62.919EF, S62.919EG, S62.919EH, S62.919EI, S62.919EJ, S62.919EK, S62.919EL, S62.919EM, S62.919EN, S62.919EO, S62.919EP, S62.919EQ, S62.919ER, S62.919ES, S62.919ET, S62.919EU, S62.919EV, S62.919EW, S62.919EX, S62.919EY, S62.919EZ, S62.919FA, S62.919FB, S62.919FC, S62.919FD, S62.919FE, S62.919FF, S62.919FG, S62.919FH, S62.919FI, S62.919FJ, S62.919FK, S62.919FL, S62.919FM, S62.919FN, S62.919FO, S62.919FP, S62.919FQ, S62.919FR, S62.919FS, S62.919FT, S62.919FU, S62.919FV, S62.919FW, S62.919FX, S62.919FY, S62.919FZ, S62.919GA, S62.919GB, S62.919GC, S62.919GD, S62.919GE, S62.919GF, S62.919GG, S62.919GH, S62.919GI, S62.919GJ, S62.919GK, S62.919GL, S62.919GM, S62.919GN, S62.919GO, S62.919GP, S62.919GQ, S62.919GR, S62.919GS, S62.919GT, S62.919GU, S62.919GV, S62.919GW, S62.919GX, S62.919GY, S62.919GZ, S62.919HA, S62.919HB, S62.919HC, S62.919HD, S62.919HE, S62.919HF, S62.919HG, S62.919HH, S62.919HI, S62.919HJ, S62.919HK, S62.919HL, S62.919HM, S62.919HN, S62.919HO, S62.919HP, S62.919HQ, S62.919HR, S62.919HS, S62.919HT, S62.919HU, S62.919HV, S62.919HW, S62.919HX, S62.919HY, S62.919HZ, S62.919IA, S62.919IB, S62.919IC, S62.919ID, S62.919IE, S62.919IF, S62.919IG, S62.919IH, S62.919II, S62.919IJ, S62.919IK, S62.919IL, S62.919IM, S62.919IN, S62.919IO, S62.919IP, S62.919IQ, S62.919IR, S62.919IS, S62.919IT, S62.919IU, S62.919IV, S62.919IW, S62.919IX, S62.919IY, S62.919IZ, S62.919JA, S62.919JB, S62.919JC, S62.919JD, S62.919JE, S62.919JF, S62.919JG, S62.919JH, S62.919JI, S62.919JJ, S62.919JK, S62.919JL, S62.919JM, S62.919JN, S62.919JO, S62.919JP, S62.919JQ, S62.919JR, S62.919JS, S62.919JT, S62.919JU, S62.919JV, S62.919JW, S62.919JX, S62.919JY, S62.919JZ, S62.919KA, S62.919KB, S62.919KC, S62.919KD, S62.919KE, S62.919KF, S62.919KG, S62.919KH, S62.919KI, S62.919KJ, S62.919KK, S62.919KL, S62.919KM, S62.919KN, S62.919KO, S62.919KP, S62.919KQ, S62.919KR, S62.919KS, S62.919KT, S62.919KU, S62.919KV, S62.919KW, S62.919KX, S62.919KY, S62.919KZ, S62.919LA, S62.919LB, S62.919LC, S62.919LD, S62.919LE, S62.919LF, S62.919LG, S62.919LH, S62.919LI, S62.919LJ, S62.919LK, S62.919LL, S62.919LM, S62.919LN, S62.919LO, S62.919LP, S62.919LQ, S62.919LR, S62.919LS, S62.919LT, S62.919LU, S62.919LV, S62.919LW, S62.919LX, S62.919LY, S62.919LZ, S62.919MA, S62.919MB, S62.919MC, S62.919MD, S62.919ME, S62.919MF, S62.919MG, S62.919MH, S62.919MI, S62.919MJ, S62.919MK, S62.919ML, S62.919MM, S62.919MN, S62.919MO, S62.919MP, S62.919MQ, S62.919MR, S62.919MS, S62.919MT, S62.919MU, S62.919MV, S62.919MW, S62.919MX, S62.919MY, S62.919MZ, S62.919NA, S62.919NB, S62.919NC, S62.919ND, S62.919NE, S62.919NF, S62.919NG, S62.919NH, S62.919NI, S62.919NJ, S62.919NK, S62.919NL, S62.919NM, S62.919NN, S62.919NO, S62.919NP, S62.919NQ, S62.919NR, S62.919NS, S62.919NT, S62.919NU, S62.919NV, S62.919NW, S62.919NX, S62.919NY, S62.919NZ, S62.919OA, S62.919OB, S62.919OC, S62.919OD, S62.919OE, S62.919OF, S62.919OG, S62.919OH, S62.919OI, S62.919OJ, S62.919OK, S62.919OL, S62.919OM, S62.919ON, S62.919OO, S62.919OP, S62.919OQ, S62.919OR, S62.919OS, S62.919OT, S62.919OU, S62.919OV, S62.919OW, S62.919OX, S62.919OY, S62.919OZ, S62.919PA, S62.919PB, S62.919PC, S62.919PD, S62.919PE, S62.919PF, S62.919PG, S62.919PH, S62.919PI, S62.919PJ, S62.919PK, S62.919PL, S62.919PM, S62.919PN, S62.919PO, S62.919PP, S62.919PQ, S62.919PR, S62.919PS, S62.919PT, S62.919PU, S62.919PV, S62.919PW, S62.919PX, S62.919PY, S62.919PZ, S62.919QA, S62.919QB, S62.919QC, S62.919QD, S62.919QE, S62.919QF, S62.919QG, S62.919QH, S62.919QI, S62.919QJ, S62.919QK, S62.919QL, S62.919QM, S62.919QN, S62.919QO, S62.919QP, S62.919QQ, S62.919QR, S62.919QS, S62.919QT, S62.919QU, S62.919QV, S62.919QW, S62.919QX, S62.919QY, S62.919QZ, S62.919RA, S62.919RB, S62.919RC, S62.919RD, S62.919RE, S62.919RF, S62.919RG, S62.919RH, S62.919RI, S62.919RJ, S62.919RK, S62.919RL, S62.919RM, S62.919RN, S62.919RO, S62.919RP, S62.919RQ, S62.919RR, S62.919RS, S62.919RT, S62.919RU, S62.919RV, S62.919RW, S62.919RX, S62.919RY, S62.919RZ, S62.919SA, S62.919SB, S62.919SC, S62.919SD, S62.919SE, S62.919SF, S62.919SG, S62.919SH, S62.919SI, S62.919SJ, S62.919SK, S62.919SL, S62.919SM, S62.919SN, S62.919SO, S62.919SP, S62.919SQ, S62.919SR, S62.919SS, S62.919ST, S62.919SU, S62.919SV, S62.919SW, S62.919SX, S62.919SY, S62.919SZ, S62.919TA, S62.919TB, S62.919TC, S62.919TD, S62.919TE, S62.919TF, S62.919TG, S62.919TH, S62.919TI, S62.919TJ, S62.919TK, S62.919TL, S62.919TM, S62.919TN, S62.919TO, S62.919TP, S62.919TQ, S62.919TR, S62.

**Supplemental Table S2.** Event frequencies among those exposed or not exposed to steroids.

	Included in analysis		Excluded from analysis			Total number of patients contributing to analysis
	Never had SAAE n (row %)	Had SAAE n (row %)	Excluded: SAAE prior to kidney disease onset n (row %)	Excluded: missing date of SAAE n (row %)	Excluded: other reason <sup>1</sup> n (row %)	
Any SAAE						
Single-occurrence events	375 (42.4)	509 (57.6)	0 (0)	0 (0)	0 (0)	884
Hypertension	220 (24.9)	448 (50.7)	135 (15.3)	24 (2.7)	57 (6.5)	668
Hyperglycemia	756 (85.5)	60 (6.8)	63 (7.1)	5 (0.6)	0 (0)	816
Diabetes	604 (68.3)	224 (25.3)	50 (5.7)	6 (0.7)	0 (0)	828
Overweight	573 (64.8)	199 (22.5)	112 (12.7)	0 (0)	0 (0)	772
Obese	571 (64.6)	244 (27.6)	63 (7.1)	6 (0.7)	0 (0)	815
Short Stature	315 (35.6)	59 (6.7)	19 (2.2)	0 (0)	491 (55.5)	374
Cataracts	856 (96.8)	18 (2.0)	6 (0.6)	4 (0.5)	0 (0)	874
Glaucoma	878 (99.3)	6 (0.7)	0 (0)	0 (0)	0 (0)	884
Osteoporosis	871 (98.5)	9 (1.0)	0 (0)	4 (0.5)	0 (0)	880
Osteonecrosis	881 (99.7)	3 (0.3)	0 (0)	0 (0)	0 (0)	884
Psychosis	880 (99.6)	3 (0.3)	1 (0.1)	0 (0)	0 (0)	883
Multiple-occurrence events						
Fractures	860 (97.3)	24 (2.7)	0 (0)	0 (0)	0 (0)	884
Any Infection	797 (90.2)	87 (9.8)	0 (0)	0 (0)	0 (0)	884
Pneumonia	831 (94.0)	53 (6.0)	0 (0)	0 (0)	0 (0)	884
Septicemia/bacteremia	865 (97.9)	19 (2.1)	0 (0)	0 (0)	0 (0)	884
Peritonitis	872 (98.6)	12 (1.4)	0 (0)	0 (0)	0 (0)	884
Cellulitis	854 (96.6)	30 (3.4)	0 (0)	0 (0)	0 (0)	884

<sup>1</sup> For the hypertension analysis, patients with a diagnosis of “white coat” hypertension were excluded; for the short stature analysis, patients with adult-onset kidney disease were excluded  
Abbreviations: SAAE=steroid-associated adverse event

**Supplemental Table S3.** Person-time comparison of risk of experiencing selected adverse events: comparisons by age and diagnosis limited to those treated with steroids

	Unadjusted Relative Risk <sup>1</sup> (95% CI) Children vs. Adults	p-value	Unadjusted Relative Risk <sup>2</sup> (95% CI) FSGS/MCD vs. MN	p-value
Any SAAEs (n=535)	0.9 [0.8 to 1.1]	0.429	1.0 [0.8 to 1.4]	0.920
Single-occurrence events				
Hypertension (n=337)	0.8 [0.6 to 1.2]	0.360	0.6 [0.3 to 1.0]	0.057
Hyperglycemia (n=535)	0.6 [0.3 to 1.0]	0.062	0.7 [0.3 to 1.6]	0.410
Diabetes (n=493)	0.7 [0.5 to 1.0]	0.053	1.2 [0.7 to 2.1]	0.535
Overweight (n=493)	0.8 [0.5 to 1.2]	0.239	1.0 [0.5 to 2.1]	0.980
Obese (n=470)	1.0 [0.7 to 1.4]	0.843	0.6 [0.3 to 1.0]	0.042
Short Stature (n=274)	---	---	1.0 [0.1 to 9.0]	0.981
Cataracts (n=535)	2.2 [0.6 to 8.1]	0.243	---	---
Glaucoma (n=535)	---	---	---	---
Osteoporosis (n=535)	0.3 [0.1 to 1.5]	0.141	0.4 [0.1 to 2.0]	0.254
Osteonecrosis (n=535)	0.4 [0.0 to 4.1]	0.414	0.2 [0.0 to 3.0]	0.239
Psychosis (n=535)	---	---	---	---
Multiple-occurrence events				
Fractures (n=535)	1.2 [0.5 to 3.1]	0.669	---	---
Any Infection (n=535)	1.1 [0.6 to 1.9]	0.791	1.0 [0.4 to 2.5]	0.990
Pneumonia (n=535)	1.5 [0.8 to 3.1]	0.219	0.9 [0.3 to 2.8]	0.905
Septicemia/Bacteremia (n=535)	0.7 [0.2 to 2.1]	0.513	2.5 [0.3 to 20.4]	0.382
Peritonitis (n=535)	---	---	---	---
Cellulitis (n=535)	0.6 [0.3 to 1.6]	0.339	0.6 [0.2 to 2.7]	0.532

<sup>1</sup>RR estimates are derived from a Poisson GEE model that accounts for the repeated measures of subjects  
Abbreviations: SAAE=steroid-associated adverse event