

Supplementary Table 1. ICD-9 and CPT codes for study variables

Variable	ICD-9 Code unless specified
Osteoporosis	733.0x
Dual Energy X-ray absorptiometry (DXA) scan	CPT Codes: 76075, 76076, 77079, 76499, 77080, 77081, 77082, 77083
Lifestyle Factors	
Alcohol Abuse	303.xx, 305.0x
Falling	E880-E888.xx
Vitamin D insufficiency	268.xx
Excess Vitamin A	278.2
Genetic factors	
Cystic fibrosis	277.0x
Homocystinuria	270.4
Osteogenesis imperfecta	756.51
Ehlers-Danos	756.83
Hypophosphatasia	275.3
Gaucher's disease	272.7
Idiopathic hypercalciuria	275.4
Porphyria	277.1
Glycogen storage diseases	271.0
Marfan syndrome	759.82
Riley-Day syndrome	742.8
Hemochromatosis	275.03
Menkes steely hair syndrome	759.89
Hypogonadal states	
Androgen insensitivity	259.5x
Anorexia nervosa and bulimia	307.1, 783.0, 307.51
Hyperprolactinemia	253.1
Premature ovarian failure	256.31
Athletic amenorrhea	626.0
Turner and Klinefelters's syndromes	758.6, 758.7
Panhypopituitarism	253.7
Endocrine disorders	
Adrenal insufficiency	255.4
Diabetes mellitus (Type 1 & 2)	250.xx
Cushing's syndrome	255.0
Hyperparathyroidism	252.0x
Central Adiposity	278.xx
Thyrotoxicosis	242.xx
Gastrointestinal disorders	
Celiac disease	579.0

Gastric bypass	CPT Codes: 43644, 43645, 43770, 43771, 43772, 43773, 43774, 43842, 43843, 43845, 43846, 43847, 43848, 43886, 43887, 43888
Inflammatory Bowel Disease	555-556.xx
Malabsorption	579.xx
Pancreatic disease	751.7, 577.xx
Primary biliary cirrhosis	571.6
Hematologic disorders	
Hemophilia	286.xx
Thalassemia	282.4x
Sickle cell disease	282.6x
Systemic mastocytosis	757.33, 202.6
Rheumatologic and autoimmune diseases	
Ankylosing spondylitis	720.xx
Lupus	710.0
Rheumatoid arthritis	714.xx
Central nervous system disorders	
Epilepsy	345.xx
Parkinson's disease	332.xx
Stroke	430-438.xx
Multiple sclerosis	340.xx
Spinal cord injury	806.xx, 952.xx
Alzheimers*	290.xx, 294.xx, 330-331.xx
Miscellaneous conditions and diseases	
AIDS/HIV	042-044.xx
Congestive Heart Failure	428.xx, 398.91, 402.01, 402.11, 402.91, 404.01, 404.11, 404.91
Muscular dystrophy	359.0-359.1x
Depression	311.xx, 295-298.xx
Amyloidosis	277.3x
End stage renal disease	585.6
Sarcoidosis	135.xx
Chronic metabolic acidosis	276.2
Hypercalciuria	245.40
Asthma/Chronic obstructive lung disease	496.xx, 491-493.xx, 514.xx, 511.9, 518.0, 793.1, 786.09, 491.21
Idiopathic scoliosis	737.xx
Cataracts*	366.1-366.9, 366.02, 366.03, 366.04, 366.09, 366.20, 379.31, V43.1
Glaucoma*	365.xx
Kyphosis*	737.1x, 737.41, 737.3x
Medications Classes	
Cyclosporine A and tacrolimus	

Proton pump inhibitors
Anticoagulants
Selective serotonin reuptake inhibitors
Anticonvulsants
Glucocorticoids
Aromatase inhibitors
GnRH (Gonadotropin releasing hormone)
antagonists and agonists
Thiazolidinediones
Barbiturates
Lithium
Methotrexate
Calcitonin
Hormone Replacement Therapy
Raloxifene

ICD-9: International Classification of Disease Version 9; CPT: Common Procedure Terminology; Medication Classes were based on National Drug Code (NDC) codes within each drug class; *: Conditions associated with falling