

Disease associations with monoclonal gammopathy of undetermined significance can only be evaluated using screened cohorts: results from the population-based iStopMM study

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Supplementary table 1: Comorbidity categories, underlying medical disorders and diagnostic codes

Comorbidity	Included medical disorders	ICD-10 codes
Arrhythmia	Atrioventricular and left bundle-branch block, paroxysmal tachycardia, atrial fibrillation and flutter, sick sinus syndrome, other cardiac arrhythmias	I44, I47-I48, I49.5, I49.8, I49.9
Cancer	All malignant neoplasms, other than multiple myeloma	C00-C88, C91-C97
Cerebrovascular disease	Cerebral infarction, cerebral arterial diseases, transient ischemic attacks	I63-I66, I69.3, I69.4, G45
Chronic ischemic disease	Acute myocardial infarction, chronic ischemic heart disease, myocardial infarction following acute coronary disease	I21-I23, I24.8, I24.9, I25, Z95.5
Chronic kidney disease	Hypertensive chronic kidney disease, hypertensive heart and chronic kidney disease, glomerular diseases, chronic kidney disease, unspecified kidney failure, complications of kidney transplant	I12-I13, N0, N18-N19, T86.1, Z49.1, Z49.2, Z94.0
Chronic lung disease	Chronic bronchitis, emphysema, other chronic obstructive pulmonary disease, asthma, bronchiectasis, pneumoconiosis, interstitial lung diseases, respiratory failure	J41-J47, J60-J67, J68.4, J70.1, J70.3, J84.1, J84.8, J84.9, J92.0, J96.1, J98.2
Dementia	Dementia in Alzheimer's disease, vascular dementia, dementia in other diseases, unspecified dementia, delirium superimposed on dementia	F00-F03, F05.1, G30
Diabetes	Type 1 diabetes mellitus, type 2 diabetes mellitus, malnutrition-related diabetes mellitus, other specified diabetes mellitus, specified mellitus	E10-E14
Endocrine disease	Thyroid diseases, parathyroid diseases, hyper- and hypofunction of pituitary gland, Cushing's syndrome, adrenogenital disorders, hyperaldosteronism, other adrenal gland disorders, polyglandular dysfunction, diseases of thymus, other diseases of endocrine system	E03-E05, E06.2-E06.5, E06.9, E07, E20-E27, E31, E32.0, E32.8, E32.9, E34-E45
Heart failure	Hypertensive heart disease, hypertensive heart and chronic kidney disease, cardiomyopathy, heart failure	I11.0, I13.0, I13.2, I42, I50
Hypertension	Essential hypertension, hypertensive heart disease, hypertensive chronic kidney disease, hypertensive heart and chronic kidney disease	I10-I13
Inflammatory bowel disease	Crohn's disease, ulcerative colitis	K50-K51, M07.4, M07.5, M09.1, M09.2
Liver disease	Chronic viral hepatitis, unspecified viral hepatitis, esophageal varices, alcoholic liver disease, toxic liver disease, hepatic failure, chronic hepatitis, cirrhosis, inflammatory liver diseases, other liver diseases	B18-B19, I85, I98.3, K70-K74, K75.2-K75.4, K75.8, K75.9, K76, K77
Neurological disease	Tropical spastic paraplegia, Huntington's disease, hereditary ataxia, spinal muscular atrophy and related disorders, systemic atrophies affecting central nervous system, postpolio syndrome, extrapyramidal disorders, other degenerative diseases of nervous system, multiple sclerosis, demyelinating diseases, epilepsy, polyneuropathies, disorders of myoneural junction and muscles, cerebral palsy and other paralytic syndromes	G04.1, G10-G12, G13.1, G13.2, G13.8, G14, G20-G23, G26, G32, G35-G37, G40-G41, G60-G62, G63.1-G63.6, G70-G72, G80-G83
Obesity	Localized adiposity, overweight and obesity	E65-E66
Pancreatic disease	Diseases of pancreas	K86
Peripheral vascular disease	Atherosclerosis, peripheral vascular disease, stricture of artery, peripheral angiopathy, vascular diseases of intestines	I70, I73.8, I73.9, I77.1, I79.2, K55.0, K55.1
Psychological disease	Dementia, anxiety disorders, dissociated and conversion disorders, somatoform disorders, somatoform disorders, eating disorders, personality disorders, unspecified mental disorder	F01-F03, F40-F45, F50, F60-F62, F69, F99
Rheumatological disease	Llupus erythomatosus, scleroderma, reactive arthritis, rheumatoid arthritis, psoriatic arthritis, juvenile arthritis, systemic connective tissue disorders, ankylosing spondylitis, other inflammatory spondylopathies	I73.1, L93, L94.0-L94.3, M02.3, M05-M06, M07.0-M07.3, M08, M09.0, M30-M35, M45, M46.0, M46.1, M46.8, M46.9

Overview of the comorbidity categories compared between individuals diagnosed with MGUS in the clinical setting and those diagnosed through systematic screening, included medical disorders and their diagnostic codes.

Abbreviations: ICD-10, International Classifications of Diseases, Tenth Revision