

Supplementary Materials

Supplementary Table S1: Searching methodology

Date of search: 8/3/2020

Supplemental table S1a: Ovid MEDLINE (R): 1946 to 2020 March 08

#	Searches	Results
1	multimorbidity/ or multiple chronic conditions/	1081
2	(multimorbid* or multi-morbid* or comorbid* or co-morbid*).ab,ti,kw.	143825
3	((multiple or coexist* or co-exist* or concurrent* or simultaneous*) adj2 (disease* or illness* or diagnos* or condition* or morbid* or disorder*)).ab,ti,kw.	43585
4	1 or 2 or 3	183995
5	Electronic health records/	18600
6	((Electronic or computer* or administrative) adj2 (record* or data*)).ab,ti,kw.	76483
7	(Large database* or database*).ab,ti,kw.	341698
8	5 or 6 or 7	390501
9	Prevalence/	283624
10	(Prevalen* or epidemio*).ab,ti,kw.	913241
11	9 or 10	980075
12	4 and 8 and 11	4040
13	Limit 12 to (English language and humans)	3905

Supplemental table S1b: Embase: 1974 to 2020 March 08

#	Searches	Results
1	exp Multiple chronic conditions/	2801
2	(multimorbid* or multi-morbid* or comorbid* or co-morbid*).ab,ti,kw.	319120
3	((multiple or coexist* or co-exist* or concurrent* or simultaneous*) adj2 (disease* or illness* or diagnos* or condition* or morbid* or disorder*)).ab,ti,kw.	77586
4	1 or 2 or 3	388894
5	Electronic health record/ or electronic medical record/	68868
6	(Electronic or computer* or administrative*) adj2 (record* or data*).ab,ti,kw.	153076
7	(Large database* or database*).ab,ti,kw.	635643
8	5 or 6 or 7	741513
9	Prevalence/	694889
10	(Prevalen* or epidemio*).ab,ti,kw.	1465157
11	9 or 10	1596491
12	4 and 8 and 11	10464
13	limit 12 to (English language and humans)	9815
14	Limit 13 to (article or article in press)	4436

Supplemental table S1c: CINAHL: 1984 to 2020 March 08

#	Searches	Results
1	(MH "comorbidity")	56629
2	multimorbid* or multi-morbid* or comorbid* or co-morbid*	97530
3	(multiple or coexist* or co-exist* or concurrent* or simultaneous*) N2 (disease* or illness* or diagnos* or condition* or morbid* or disorder*)	18589
4	1 or 2 or 3	113365
5	(MH "electronic health records")	22313
6	(Electronic or computer* or administrative) N2 (record* or data*)	138566
7	Large database* or database*	168616
8	5 or 6 or 7	272365
9	(MH "prevalence")	85505
10	Prevalen* or epidemio*	553492
11	9 or 10	553492
12	4 and 8 and 11	5300
13	Limit 13 to (English language and humans)	4160

			ry diseases					extremity amputation
Chronic coronary syndrome	Hyperthyroidism/thyrotoxicosis	Gastroesophageal reflux	Pelvic inflammatory disease	Depression	Joint disease	Malignancy NOS	Insomnia	Mental retardation
Chronic heart disease, others	Hypothyroid	Haemorrhoids	Prostate disease	Depression and mood diseases	Low back pain	Malignancy other than prostate cancer	Ischemic stroke	Minor lower extremity amputation
Congestive heart failure	Hypothyroidism	Inflammatory bowel disease	Prostatic disorders	Depression or anxiety	Musculoskeletal disease, other	Malignant neoplasm bladder	Migraine	
Coronary artery bypass graft (CABG)	Hypothyroidism/edema	Irritable bowel syndrome	Prostatic hypertrophy	Depressive disorder	Neck pain	Malignant neoplasm blood other	Migraine and facial pain syndrome	
Coronary disease	Hypothyroidism	Oesophagus, stomach and duodenum disease	Renal disease	Dysthymia	Neck syndrome	Malignant neoplasm breast female	Migraine or frequent headaches	
Coronary heart disease	Lipid disorder	Other digestive disease	Renal failure	Generalised anxiety disease	Osteoarthritis	Malignant neoplasm bronchus, lung	Multiple sclerosis	
Heart disease	Lipid disorders	Peptic ulcer	Urinary disease, other	Long term use of antidepressants	Osteoarthritis and arthritis not otherwise specified (herein called arthritis)	Malignant neoplasm cervix	Nervous system disorders	
Heart disease, other	Obesity	Peptic ulcer disease	Urinary incontinence	Major depression	Osteoarthritis and degenerative joint disease	Malignant neoplasm colon/rectum	Neuraesthesia, surmenage	
Heart failure	Other metabolic disease	Peptic ulcer other	Urologic disease	Mental disorders	Osteoarthritis of hip	Malignant neoplasm genital female other	Neurological disease, other	
Heart valve disease NOS	Overweight	Peptide ulcer		Mood disorder	Osteoarthritis of knee	Malignant neoplasm kidney	Neurological infection, other	
Heart/arterial murmur NOS	Thyroid disease			Neurotic, stress-related and somatoform diseases	Osteoarthritis or rheumatism	Malignant neoplasm male genital, other	Other neurological diseases	
Hypertension	Thyroid disorders			Organic psychosis, other	Osteoarthritis, other	Malignant neoplasm nervous system	Other neurological disorders	
Hypertension, complicated	Thyroidal disease			Other mental disorders	Osteoarthritis/spine disorder	Malignant neoplasm of skin	Parkinson and parkinsonism	
Hypertension, uncomplicated				Other psych and behavioural diseases	Osteoporosis	Malignant neoplasm pancreas	Parkinsonism	
Ischaemic heart disease with angina				Other psychoactive substance misuse	Painful condition	Malignant neoplasm prostate	Parkinson's disease	
Ischaemic heart disease without angina				Personality disorder	Paralysis	Malignant neoplasm related to fertility	Parkinson's disease or syndrome	
Ischemic heart disease				Personality disorders	Paralysis or muscular dystrophy	Malignant neoplasm respiratory, other	Peripheral neuritis/neuropathy	

Myocardial infarction	Phobia/compulsive disorder	Shoulder syndrome	Malignant neoplasm stomach	Peripheral neuropathy
Other cardiovascular disease	Post-traumatic stress disorder	Spine fracture	Malignant neoplasm thyroid	Peripheral neuropathy, neuritis
Paroxysmal tachycardia	Psychological disorders, other	Tennis elbow	Malignant neoplasm, musculoskeletal	Sleep disorder
Percutaneous coronary intervention (PCI)	Psychosis NOS/other		Malignant neoplasm, urinary, other	Stroke
Postural hypotension	Schizophrenia		Malignant tumours	Stroke and transient ischemic attack
Pulmonary heart disease	Schizophrenia (and related non-organic psychosis)		Metastatic carcinoma	Stroke/cerebrovascular accident
Rheumatic fever/heart disease	Schizophrenia and delusional disease		Metastatic solid tumour	Transient cerebral ischaemia
Secondary hypertension	Schizophrenia and psychosis		Neoplasm endocrine other/uncertain	Trigeminal neuralgia
	Schizophrenia, affective psychosis or bipolar disorder		Neoplasm nervous system, unspecified	
	Somatisation disorder		Neoplasm of ear	
	Substance use disorders		Neoplasm of eye/adnexa	
			Neoplasm, cardiovascular	
			Prostate cancer	