Supplemental File: Common Conditions in Primary Care

Inde

Search strategy	Page 1
Diagnostic coding legend for general conditions	Page 5
Diagnostic coding legend for specific conditions	Page 8
Characteristics of included studies	Page 13
Quality assessment of included studies	Page 14
Proportion of reasons for visits and problems managed	Page 15
Subgroup data	Page 16
Seasonality subgroups	Page 16
Clinician gender	Page 17
Patient gender	Page 18
Urban vs rural	Page 19
Ranking of general categories of conditions	Page 20

Supplement 1. Search strategy.

Databases searched:

OVID Medline (1946 to January 25, 2016), OVID EMBASE (1974 to January 25, 2016), SCOPUS, CINAHL (EBSCO, January 26, 2016), OVID EBM Reviews - Cochrane Database of Systematic Reviews (2005 to January 13, 2016), EBM Reviews - ACP Journal Club (1991 to February 2015), EBM Reviews - Database of Abstracts of Reviews of Effects (1st Quarter 2015), EBM Reviews - Cochrane Central Register of Controlled Trials (January 2015), EBM Reviews - Cochrane Methodology Register (3rd Quarter 2012), EBM Reviews - Health Technology Assessment (1st Quarter 2015), EBM Reviews - NHS Economic Evaluation Database (1st Quarter 2015) and Sociological Abstracts

Medline

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to 2016 January 25 Present> Search Strategy:

- 1 (office visit* or general practi* or primary care or primary health care or family medicine or family doctor* or family physician* or family practice* or medical office or medical clinic or primary medical care).ti,ab. (172818)
- 2 exp *Primary Health Care/ or *"Office Visits"/ (68696)
- 3 exp *Physicians, Family/ (10285)
- 4 exp *Family Practice/ or *"Ambulatory Care"/ (56144)
- 5 1 or 2 or 3 or 4 (239479)
- 6 ((reason* or why or causes or common or complaints or conditions or diseases or disorders or problems) adj2 (attend* or present* or visit* or consult* or using)).ti,ab. (65952)
- 7 (Statistics & Numerical Data or Utilization).fs. or utiliz*.ti,ab. [mp=title, abstract, original title, name of
- substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (1032867)
- 8 5 and 6 and 7 (998)
- 9 ((common or prevalent or frequent*) adj1 (diagnoses or complaints or conditions or diseases or disorders or problems)).ti. (1110)
- 10 5 and 9 (82)
- 11 National Ambulatory Medical Care Survey.ti. or (Poseidon study not marrow).ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (139)
- 12 ((reason* or why or cause or causes or common or complaint* or condition or conditions or disease* or disorder* or problem*) adj2 (attend* or visit* or consult* or see) adj2 (doctor* or physician*)).ti. (15)
- 13 8 or 10 or 11 or 12 (1222)
- 14 remove duplicates from 13 (1201)

EMBASE

Database: Embase <1974 to 2016 January 25> Search Strategy:

- 1 (office visit* or primary care or primary health care or family medicine or family doctor* or family physician* or family practice* or medical office or medical clinic).ti,ab. (151133)
- 2 exp primary health care/ or exp primary medical care/ or exp general practice/ or exp family medicine/ (189802)
- 3 *general practitioner/ (16704)
- 4 *"Ambulatory Care"/ (12167)
- 5 1 or 2 or 3 or 4 (267141)
- 6 ((reason* or why or cause or causes or common or complaint* or condition or conditions or disease* or disorder* or problem*) adj2 (attend* or present* or visit* or consult* or using)).ti,ab. (169419)
- 7 health care utilization/ or exp statistics/ or "utilization review"/ or utiliz*.ti,ab. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] (868029)
- 8 5 and 6 and 7 (725)
- 9 ((common or prevalent or frequent*) adj1 (diagnoses or complaints or conditions or diseases or disorders or problems)).ti. (1277)
- 10 5 and 9 (90)
- 11 National Ambulatory Medical Care Survey.ti. or (Poseidon study not marrow).ti,ab. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] (165)
- 12 ((reason* or why or cause or causes or common or complaint* or condition or conditions or disease* or disorder* or problem*) adj3 (attend* or visit* or consult* or see) adj3 (doctor* or physician*)).ti. (46)
- 13 8 or 10 or 11 or 12 (1010)

EBM Reviews

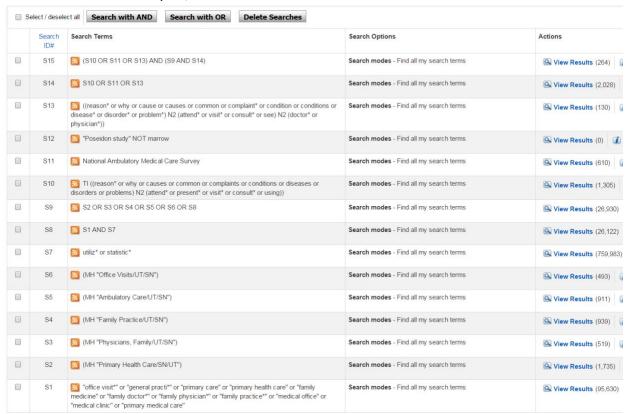
Database: EBM Reviews - Cochrane Database of Systematic Reviews <2005 to January 13, 2016>, EBM Reviews - ACP Journal Club <1991 to December 2015>, EBM Reviews - Database of Abstracts of Reviews of Effects <2nd Quarter 2015>, EBM Reviews - Cochrane Central Register of Controlled Trials <December 2015>, EBM Reviews - Cochrane Methodology Register <3rd Quarter 2012>, EBM Reviews - Health Technology Assessment <4th Quarter 2015>, EBM Reviews - NHS Economic Evaluation Database <2nd Quarter 2015> Search Strategy:

- 1 (office visit* or general practi* or primary care or primary health care or family medicine or family doctor* or family physician* or family practice* or medical office or medical clinic or primary medical care).ti,ab. (15600)
- 2 exp *Primary Health Care/ or *"Office Visits"/ (1154)
- 3 exp *Physicians, Family/ (1)
- 4 exp *Family Practice/ or *"Ambulatory Care"/ (2)
- 5 1 or 2 or 3 or 4 (15818)
- 6 ((reason* or why or causes or common or complaints or conditions or diseases or disorders

or problems) adj2 (attend* or present* or visit* or consult* or using)).ti,ab. (1826)

- 7 (Statistics & Numerical Data or Utilization).fs. or utiliz*.ti,ab. [mp=ti, ab, tx, kw, ct, ot, sh, hw] (14103)
- 8 5 and 6 and 7 (12)
- 9 ((common or prevalent or frequent*) adj1 (diagnoses or complaints or conditions or diseases or disorders or problems)).ti. (23)
- 10 5 and 9 (8)
- 11 National Ambulatory Medical Care Survey.ti. or (Poseidon study not marrow).ti,ab. [mp=ti, ab, tx, kw, ct, ot, sh, hw] (1)
- 12 ((reason* or why or cause or causes or common or complaint* or condition or conditions or disease* or disorder* or problem*) adj2 (attend* or visit* or consult* or see) adj2 (doctor* or physician*)).ti. (1)
- 13 8 or 10 or 11 or 12 (21)

CINAHL Searched January 26, 2016



Sociological Abstracts

ti(reason* OR why OR cause OR causes OR common OR complaint* OR condition OR conditions OR disease* OR disorder* OR problem) AND ti(attend* OR present* OR visit* OR consult* OR see OR utiliz*) AND ("primary care" OR "primary health care" OR "family physician" OR "family practi*" OR "family doctor*" OR "general practi*" OR "medical clinic*" OR "office visits" OR "primary medical care") = 22

SCOPUS

(TITLE("primary care" OR "primary health care" OR "family physician" OR "family practi*" OR "family doctor*" OR "general practi*" OR "medical clinic*" OR "office visits" OR "primary medical care")) and (TITLE(attend* OR present* OR visit* OR consult* OR see OR utiliz*)) and (TITLE(reason* OR why OR cause OR causes OR common OR complaint* OR condition OR conditions OR disease* OR disorder* OR problem*))

Google (Searched January 21, 2016) (reasons or causes) (visit* or attend*) (doctor* or physician* or "primary care")

Supplement 2. Diagnostic coding legend for general conditions.

General Diagnostic Code Given for Systematic Review	Diagnostic Codes Used in Individual Studies
Blood/blood-forming organs	blood, blood forming organs and immune system blood, blood forming organs and immune mechanism blood blood/blood-forming organs
Breast	breast
Cancer	cancer cancers/neoplasms neoplasm
Cardiovascular/circulatory	cardiovascular/circulatory cardiovascular circulatory systems circulatory
Nervous system/sense organs	central nervous system nervous system/sense organs nervous system and sense organs neurological ear eye
Congenital	congenital
Dental	dental
Digestive	digestive gastrointestinal digestive system
Endocrine	endocrine, nutritional, metabolic diseases immunity disorders endocrine, metabolic, nutritional endocrine endocrine/nutritional/metabolic/immunity
General/unspecified	general and unspecified general unspecified general

unspecified conditions all other diagnosis/unknown symptoms, signs, and ill-defined conditions symptoms non-specific hepatic Infectious/parasitic Injury/poisoning injury/poisoning injury/poisoning injury and poisoning Psychological mental disorders psychological musculoskeletal musculoskeletal musculoskeletal musculoskeletal musculoskeletal and connective tissue muscular Pregnancy/perinatal pregnancy, child bearing, family planning pregnancy/childbirth/puerperium perinatal Genitourinary urological urinary urinary tract genito-urinary genitourinary genitourinary genital tract gynaecology/infertility male genital female genital Respiratory respiratory respiratory system Skin/subcutaneous tissue skin and subcutaneous tissue Social problems		
Infectious/parasitic infectious and parasitic diseases infectious/parasitic infectious/parasitic infectious/parasitic infectious/parasitic infectious/parasitic injury/poisoning injury and poisoning injury and poisoning mental disorders psychological mental in musculoskeletal musculoskeletal musculoskeletal musculoskeletal musculoskeletal and connective tissue muscular in muscular pregnancy/child bearing, family planning pregnancy/childbirth/puerperium perinatal in pregnancy/childbirth/puerperium perinatal in rological urinary urinary tract genito-urinary genitourinary genitourinary genitourinary genital tract gynaecology/infertility male genital female genital in female genital in repair in the pregnancy system in the pregnancy system in skin/subcutaneous tissue skin/subcutaneous tissue infectious and parasitic diseases in jury/poisoning injury/poisoning injury		all other diagnosis/unknown symptoms, signs, and ill-defined conditions
infectious/parasitic Injury/poisoning injury/poisoning injury and poisoning Psychological mental disorders psychological mental Musculoskeletal musculoskeletal/connective tissue musculoskeletal and connective tissue muscular Pregnancy/perinatal pregnancy, child bearing, family planning pregnancy/childbirth/puerperium perinatal Genitourinary urinary urinary urinary tract genito-urinary genital tract gynaecology/infertility male genital female genital Renal Respiratory respiratory respiratory respiratory system Skin/subcutaneous tissue skin and subcutaneous tissue	Hepatic	hepatic
injury and poisoning mental disorders psychological mental Musculoskeletal musculoskeletal musculoskeletal/connective tissue musculoskeletal and connective tissue musculoskeletal and connective tissue musculoskeletal and connective tissue musculor pregnancy/child bearing, family planning pregnancy/childbirth/puerperium perinatal Genitourinary urological urinary urinary tract genito-urinary genital tract gynaecology/infertility male genital female genital Renal Respiratory respiratory respiratory system Skin/subcutaneous tissue skin and subcutaneous tissue	Infectious/parasitic	
psychological mental Musculoskeletal musculoskeletal/connective tissue musculoskeletal and connective tissue muscular Pregnancy/perinatal pregnancy, child bearing, family planning pregnancy/childbirth/puerperium perinatal Genitourinary urological urinary urinary tract genito-urinary genitourinary genital tract gynaecology/infertility male genital female genital Renal renal Respiratory respiratory respiratory system Skin/subcutaneous tissue skin and subcutaneous tissue	Injury/poisoning	
musculoskeletal/connective tissue muscular Pregnancy/perinatal pregnancy, child bearing, family planning pregnancy/childbirth/puerperium perinatal urological urinary urinary tract genito-urinary genital tract gynaecology/infertility male genital female genital female genital Respiratory respiratory respiratory system Skin/subcutaneous tissue skin and subcutaneous tissue	Psychological	psychological
pregnancy/childbirth/puerperium perinatal Genitourinary urological urinary urinary tract genito-urinary geniturinary genital tract gynaecology/infertility male genital female genital Renal Respiratory respiratory respiratory system Skin/subcutaneous tissue skin and subcutaneous tissue	Musculoskeletal	musculoskeletal/connective tissue musculoskeletal and connective tissue
urinary urinary tract genito-urinary genitourinary genital tract gynaecology/infertility male genital female genital Renal Respiratory respiratory respiratory system Skin/subcutaneous tissue skin and subcutaneous tissue	Pregnancy/perinatal	pregnancy/childbirth/puerperium
Respiratory respiratory respiratory system Skin/subcutaneous tissue skin/subcutaneous tissue skin and subcutaneous tissue	Genitourinary	urinary urinary tract genito-urinary genitourinary genital tract gynaecology/infertility male genital
Skin/subcutaneous tissue skin skin/subcutaneous tissue skin and subcutaneous tissue	Renal	renal
skin/subcutaneous tissue skin and subcutaneous tissue	Respiratory	l · · · ·
Social problems social	Skin/subcutaneous tissue	skin/subcutaneous tissue
	Social problems	social

	social problems
Supplementary classification	actions ("therapeutic procedures", "preventive procedures", "operations", "administration") supplementary classification (ICD-9 - "Factors Influencing Health Status and Contact with Health Services") check-up investigations ("examination", "history", "diagnostic procedures/lab test/radiology")
Vaccines	vaccines

Supplement 3. Diagnostic coding legend for specific conditions.

Specific Diagnostic Code Given for	Diagnostic Codes Used in Individual Studies
Systematic Review	
Abdominal unspecified	Gastroenteritis/diarrhea
	Stomach pain, cramps
	Pain in the abdomen
	Intestines and peritoneum disease other
	Gastroenteritis
	Intestinal infectious disease
	Other localized abdominal pain
	Abdominal pain/cramps general
	Abdominal pain epigastric
	Diarrhoea
	Vomiting
	Nausea
	Abdominal complain/cramps
Acute MSK injury	Sprains strains joints and adjacent muscles
Acute otitis media	Ear and mastoid process diseases
	Otitis media
	Acute sup. otitis media
	Earache or ear infection
	Acute otitis media
	Ear pain/earache
Admin	Administrative procedure
Administrative medical	Physical for school or employment
Anemia	Anaemias
	Anaemia
Arthritis (not back)	Rheumatism excluding the back
	Arthritis
	Arthropathies and related disorders
	Pain in joint
	Osteoarthritis
	Arthritis/joint Swelling
	Knee symptoms
	Degenerative joint disease
	Knee symptoms/complaints
	Joint pain or symptoms
	Hand and finger pain or symptom
Asthma	Asthma
Back pain/spinal pain	Back complaint
	Dorsopathies
	Back symptoms

	Dorsalgia
	Low back symptoms
	Low back complaint excl radiation
	Neck pain
	Neck symptom/neck complaint excl headache
	Shoulder symptoms/complaints
	Shoulder pain or symptom
Bronchitis/bronchiolitis	Bronchitis
bronchius/ bronchionus	Bronchiolitis
Candianaanlan	Acute bronchitis/bronchiolitis
Cardiovascular	Ischaemic heart diseases
	Congestive heart failure
	Stroke/cerebrovascular accidents
	Coronary artery disease
	Chest pain and related symptoms
	Veins, lymphatic, and other circulatory diseases
	Pressure/tightness of heart
	Chest symptoms/complaints
Cellulitis	Skin and subcutaneous tissue infections
	Nonfungal skin infection
COPD	Obstructive airway diseases
	Pulmonary disease chronic obstructive and allied
	conditions
Cough	Coughing
	Cough
Depression/anxiety	Depression or anxiety
	Depression
	Anxiety
	Anxiety and nervousness
	Neurotic personality and other mental disorders
	Psychological disturbances
	Counselling
	Feeling anxious/nervous/tense
Dermatitis	Contact dermatitis
	Skin and subcutaneous tissues other inflammatory
	conditions
	Skin itch/eczema
	Skin rash
	Eczema
	Pruritus
	Rash generalized
	Local redness/erythema/rash
Diabetes	Type 2 diabetes

	Diabetes mellitus		
	Diabetes		
Dyspepsia	Gastro-esophageal reflux disease		
Бузрерзій	Peptic disease		
	Dyspepsia/ulcers		
	Esophagus stomach duodenal disease		
Epilepsy	Epilepsy		
Eye	Eye and adnexa disorders		
2,0	Red eye		
	Eye pain		
Fatigue	Malaise and fatigue		
Tungue	General weakness/tiredness		
Fever	Fever		
Gynecology	Genital disease, other		
Cynecology	Female genital tract disorders, other		
	Vaginal discharge		
Headache	Headache, pain in head		
	Headache		
Hepatitis	Hepatitis		
HIV	HIV/AIDS		
Hypertension	Hypertension		
, ·	Hypertension/high blood pressure		
	Essential hypertension		
	Hypertensive disease		
	Blood pressure test		
	Hypertension, complicated		
	Hypertension, uncomplicated		
Hypothyroidism/endocrine	Hypothyroidism		
	Endocrine gland disease, other		
Immunization	Immunization/vaccination		
Impacted cerumen	Impacted cerumen		
	Hearing complaints excl H84		
Infection unspecified	Virosis		
	Infectious disease, other		
	Mycoses		
Influenza	Influenza		
Leg symptoms	Leg symptoms		
	Leg/thigh symptoms/complaints		
	Foot and toe symptoms/complaints		
Lipid	Lipid Disorder		
	Hyperlipidemia		
	Obesity/lipid disorders		

	Dyslipidemia				
Medication	Medication				
	Prescription				
Metabolic immunity disorders	Metabolic immunity disorders				
Myalgia	Myalgia				
	Muscle pain				
Nutritional deficiency	Vitamin/nutritional deficiency				
Pain not specified	Generalised body pain				
	Pain, not specified				
	Generalized aches and pains				
Parasites	Helminthiasis				
	Worms, other parasites				
	Scabies and other acariases				
Pharyngitis	Throat symptoms				
	Acute sore throat				
	Pharyngitis				
	Symptom/complaint throat				
	Swallowing problems				
Pneumonia	Lower respiratory tract infections/pneumonia				
	Lower respiratory infection				
	Pneumonia				
	Acute lower respiratory infection				
	Resp infection other				
Pregnancy	Pregnancy-related				
Progress visit	Progress visit				
Respiratory unspecified	Pain in respiratory system				
	Shortness of breath/dyspnea				
	Respiratory/pleuritic pain				
	Health maintenance and prevention				
	General medical examination				
Routine health maintenance	Check up				
	Routine health maintenance				
	Well-baby examination				
	Observation/health education/advice/diet				
Sinusitis	Sinusitis				
	Sinus problems				
	Rhinitis				
Chin	Sneezing/nasal congestion				
Skin unspecified	Skin lesion, not specified				
	Skin and subcutaneous tissue diseases other				
	Local swelling/papule/lump/mass				
Cloop disturbence	Skin symptom/complaint, other				
Sleep disturbance	Sleep disturbance				

Social problems	Social problems
Symptoms unspecified	Symptoms, signs and illdefined
	Feeling ill
	Loss of appetite
	Other referrals not elsewhere classified
	Weight loss
Tuberculosis	ТВ
	Tuberculosis
Test follow-up	Other and unspecified test results
	Test results
	Blood test
Tonsillitis	Acute tonsillitis
	Recurrent tonsillitis
Upper respiratory tract infection,	Common cold, rhinosinusitis
unspecified	Acute upper respiratory infection
	Upper respiratory infection
	Upper respiratory tract infections
	Upper respiratory tract infection
	URTI acute
	Upper respiratory tract diseases other
	Respiratory infections acute
Urinary tract infection	Urinary tract infection
	Cystitis
	Urinary system diseases, other
	Acute cystitis
	Recurrent UTI
	Acute urethritis
	Pyelonephritis
	Fungal UTI
	Catheter-associated UTI
	Urinary frequency/urgency
	Dysuria/painful urination
	Dysuria
Vertigo/dizziness	Vertigo/dizziness

Supplement 4. Characteristics of included studies.

Citation	Years of data collection	Total sampling duration (number of weeks)	Country	Specific area	Total patient population served	Total number of visits included	Genera I system (SY) or specific (DX)	Patient reporte d (PT) or clinician reporte d (DR)	Name of coding syste m used	Results as number (N), percent (P), or rate (R)	Qualit y Score (out of 5)
Binns, 2007	2002	32 (continuous)	USA	national	N/A	597,176	SY, DX	DR	ICD-9- CM, PRINS	Р	4
Britt, 1996	1990-1991	2 (per physician, over 12 months)	Australia	national	N/A	113,468	SY	PT, DR	ICPC	R	5
Britt, 2015	2014-2015	n/a (up to 100 encounters)	Australia	national	N/A	98,728	DX	PT, DR	ICPC-2	N, P, R	5
Brueton, 2010	2001-2002	26	South Africa	Eastern Cape	250,000	4,383	SY, DX	PT, DR	ICPC-2	N, P	3
Fleming, 2005	2001	52 (continuous)	England, Wales	national	325,850	N/A	DX	DR	ICD-9	R	3
Harrison, 2011	2009-2010	n/a (up to 100 encounters)	Australia	national	N/A	101,349	SY	PT, DR	ICPC-2	R	5
Mash, 2012	2010	1 (5 days over 1 year)	South Africa	national	2,780,270	18,856	SY, DX	PT, DR	ICPC-2	N, P	4
Ministry of Health, 2004	2001-2002	2 (per physician, over 18 months)	New Zealand	national	N/A	8258	SY	PT, DR	READ2	P (not practice subgroups) , R (not season subgroups)	5
Mohan, 2003	2000	52 (continuous)	India	Mysore	N/A	N/A	DX	DR	N/A	Р	1
Murphy, 2015	2008-2010	n/a (up to 100 encounters)	Ireland	national	503,823	16,899	SY	PT	N/A	N, P (not subgroups)	3
National Center for Health Statistics , 2014	2014	52 (1 week per physician)	USA	national	N/A	6,386	DX	DR	ICD-9- CM	N, P	5
Pace, 2004	1995-1998	208 (continuous)	USA	national	N/A	13,149	DX	DR	ICD-9	N (not subgroups)	5
Pearson, 1996	1994-1995	52 (continuous)	England	Somerset	65,000	4,685	SY	DR	ICD-9	R	5
Probst, 2002	1996-1997	104 (continuous)	USA	national	N/A	19,409	DX	PT	ICD-10	Р	5
Salvi, 2015	2011	1 day	India	national	N/A	204,912	DX	DR		Р	2
Sayer, 1996	1990-1991	2 (per physician, over 12 months)	Australia	national	N/A	96,144	SY	PT, DR	ICPC	N	5
Soler, 2012	1995-2005 (Amsterdam) , 2001-2005 (Malta), 2003 (Serbia)	(Amsterdam) , 60 (Malta), 12 (Serbia) (all continuous)	Amsterdam , Malta, Serbia	national	15,318 (Netherlands) , 9896 (Malta), 72,673 (Serbia)	838,896 (Netherlands) , 70,177 (Malta), 207,323 (Serbia)	DX	PT	ICPC, ICPC-2	R	4
Wandell, 2013	2009-2011	104 (continuous)	Sweden	Stockhol m County	1,987,827	3,810,843	DX	DR	ICD-10	N, P	1

Supplement 5. Quality assessment of included studies.

	Low quality				High quality		
Representative sample of clinicians*	7				11		
Representative sample of patients [†]	1	1			17		
Used a defined coding system	3			15			
Prolonged data collection (≥1 year)	4			14			
Data collected prospectively (vs. retrospectively)	3			15			

^{*}Considered a representative sample of clinicians if there was evidence for at least 2/3 of the following: mixture of male/female clinicians, mixture of years in practice, mixture of practice sizes.

[†]Considered a representative sample of patients if there was evidence for at least 2/3 of the following: mixture of male/female patients, mixture of urban/rural, range in patient age.

Citation	Representative sample of clinicians	Representative sample of patients	Defined coding	Prolonged data collection	Retrospective or prospective	Total score
Binns, 2007	1	1	1	0	1	4
Britt, 1996	1	1	1	1	1	5
Britt, 2015	1	1	1	1	1	5
Brueton, 2010	0	1	1	0	1	3
Fleming, 2005	0	1	1	1	0	3
Harrison, 2011	1	1	1	1	1	5
Mash, 2012	0	1	1	1	1	4
Ministry of Health, 2004	1	1	1	1	1	5
Mohan, 2003	0	0	0	1	0	1
Murphy, 2015	0	1	0	1	1	3
National Center for Health Statistics, 2014	1	1	1	1	1	5
Pace, 2004	1	1	1	1	1	5
Pearson, 1996	1	1	1	1	1	5
Probst, 2002	1	1	1	1	1	5
Salvi, 2015	0	1	0	0	1	2
Sayer, 1996	1	1	1	1	1	5
Soler, 2012	0	1	1	1	1	4
Wandell, 2013	1	1	1	1	0	4

Supplement 6. Proportion of reasons for visits and problems managed.

Reasons for	Тор 3	Top 20	Top 30	Top 80	
visits	(Britt, 2015)	(Probst, 2002)	(Britt, 2015)	(Mash, 2012)	
Percent of	23%	46%	59%	83%	
visits	23/0	4070	3970	65/0	
Problems	Top 10	Top 10	Top 23	Top 25	Top 35
managed	(Britt, 2015)	(Brueton, 2010)	(Pace, 2004)	(Mash, 2012)	(Britt, 2015)
Percent of	29%	52%	76%	53%	54%
problems	2970	3270	70%	33%	34%

Supplement 7. Subgroup data.

S7a. Seasonality subgroups

, , , , , , , , , , , , , , , , , , , ,				United States of America – Specific (Pace, 2004)			
Autumn	Winter	Spring	Summer	Autumn	Winter	Spring	Summer
Supplementary classification	Respiratory	Supplementary classification	Supplementary classification	Hypertension	Upper respiratory tract infection, unspecified	Upper respiratory tract infection, unspecified	Hypertension
Respiratory	Supplementary classification	Respiratory	Respiratory	Upper respiratory tract infection, unspecified	Hypertension	Hypertension	Routine Health Maintenance
Cardiovascular/ circulatory	Cardiovascular/ circulatory	Cardiovascular/ circulatory	Cardiovascular/ circulatory	Routine Health Maintenance	Routine Health Maintenance	Sinusitis	Diabetes
Nervous/ sense organs	Nervous/ sense organs	Nervous/ sense organs	Skin/ subcutaneous tissue	Sinusitis	Sinusitis	Routine Health Maintenance	Lipid
Injury/ poisoning	Injury/ poisoning	Injury/ poisoning	Nervous/ sense organs	Diabetes	Bronchitis/ bronchiolitis	Bronchitis/ bronchiolitis	Upper respiratory tract infection, unspecified
Skin/ subcutaneous tissue	Skin/ subcutaneous tissue	Musculoskeletal	Injury/ poisoning	Lipid	Asthma	Diabetes	Sinusitis
General/ unspecified	Psychological	Skin/ subcutaneous tissue	General/ unspecified	Bronchitis/ bronchiolitis	Acute otitis media	Lipid	Back pain/spinal pain
Musculoskeletal	Endocrine	General/ unspecified	Musculoskeletal	Arthritis (not back)	Diabetes	Back pain/spinal pain	Depression/ anxiety
Psychological	Musculoskeletal	Digestive	Psychological	Back pain/spinal pain	Depression/ anxiety	Depression/ anxiety	Arthritis (not back)
Digestive	Genitourinary	Genitourinary	Genitourinary	Depression/ anxiety	Arthritis (not back)	Arthritis (not back)	Asthma
Genitourinary	General/ unspecified	Infectious/ parasitic	Infectious/ parasitic	Asthma	Lipid	Asthma	Bronchitis/ bronchiolitis
Endocrine	Infectious/ parasitic	Psychological	Digestive	Acute otitis media	Back pain/spinal pain	Acute otitis media	Urinary tract infection
Infectious/ parasitic	Digestive	Endocrine	Endocrine	Pregnancy	Pregnancy	Urinary tract infection	Pregnancy
Cancer	Cancer	Cancer	Cancer	Headache	Headache	Dermatitis	Cardiovascular
Blood/ blood- forming organs	Blood/ blood- forming organs	Blood/ blood- forming organs	Blood/ blood- forming organs	Urinary tract infection	Urinary tract infection	Headache	Acute otitis media
Pregnancy/ perinatal	Pregnancy/ perinatal	Pregnancy/ perinatal	Pregnancy/ perinatal	Cardiovascular	Cardiovascular	COPD	COPD
Congenital	Congenital	Congenital	Congenital	COPD	COPD	Hypothyroid	Dermatitis
				Dermatitis	Dermatitis	Pregnancy	Headache
				Hypothyroid	Hypothyroid	Cardiovascular	Hypothyroid
	New Zealand - Autumn Supplementary classification Respiratory Cardiovascular/ circulatory Nervous/ sense organs Injury/ poisoning Skin/ subcutaneous tissue General/ unspecified Musculoskeletal Psychological Digestive Genitourinary Endocrine Infectious/ parasitic Cancer Blood/ blood-forming organs Pregnancy/ perinatal	Autumn Winter Supplementary classification Respiratory Respiratory Supplementary classification Cardiovascular/ circulatory Cardiovascular/ circulatory Nervous/ sense organs Nervous/ sense organs Injury/ poisoning Injury/ poisoning Skin/ subcutaneous tissue Skin/ subcutaneous tissue General/ unspecified Psychological Musculoskeletal Endocrine Psychological Musculoskeletal Digestive Genitourinary Genitourinary General/ unspecified Endocrine Infectious/ parasitic Infectious/ parasitic Digestive Blood/ blood- forming organs Pregnancy/ perinatal Pregnancy/ perinatal Pregnancy/ perinatal	New Zealand – General (Ministry of Health, 2 Autumn Winter Spring Supplementary classification Respiratory Supplementary classification Respiratory Supplementary classification Respiratory Cardiovascular/ circulatory Cardiovascular/ circulatory Cardiovascular/ circulatory Nervous/ sense organs Nervous/ sense organs Nervous/ sense organs Injury/ poisoning Injury/ poisoning Injury/ poisoning Skin/ subcutaneous tissue Skin/ subcutaneous tissue Skin/ subcutaneous tissue General/ unspecified Psychological Skin/ subcutaneous tissue Musculoskeletal Endocrine General/ unspecified Psychological Musculoskeletal Digestive Digestive Genitourinary Genitourinary Genitourinary Genitourinary Genitourinary Genitourinary Digestive Endocrine Digestive Endocrine Endocrine Infectious/ parasitic Psychological Infectious/ parasitic Pregnancy/ perinatal Pregnancy/ perinatal	New Zealand – General (Ministry of Health, 2004) Autumn Winter Spring Summer Supplementary classification Respiratory Supplementary classification Supplementary classification Respiratory Supplementary classification Respiratory Supplementary classification Cardiovascular/ circulatory Cardiovascular/ circulatory Cardiovascular/ circulatory Cardiovascular/ circulatory Nervous/ sense organs Nervous/ sense organs Skin/ subcutaneous tissue Skin/ subcutaneous tissue Injury/ poisoning Injury/ poisoning Injury/ poisoning Nervous/ sense organs Skin/ subcutaneous tissue Skin/ subcutaneous tissue Injury/ poisoning General/ unspecified Psychological Musculoskeletal Musculoskeletal Endocrine General/ unspecified Psychological Musculoskeletal Digestive Digestive Genitourinary Genitourinary Genitourinary Genitourinary Genitourinary Genitourinary Genitourinary Genitourinary Digestive Psychological Digestive Infectious/ parasi	New Zealand - General (Ministry of Health, 2004) United States	New Zealand - General (Ministry of Health, 2004) United States of America - Autumn Winter Spring Summer Autumn Winter	Nervous Sense organs Sense organs Injury poisoning Diabetes Sinustits Sinu

S7b. Clinician gender subgroups

	Male Clinician – General	Female Clinician – General		
	Australia (Britt, 1996 and Harrison 2011)	Australia (Britt, 1996 and Harrison 2011)		
1	Respiratory	Respiratory		
2	Musculoskeletal	Genitourinary		
3	Skin/subcutaneous tissue	Cardiovascular/circulatory		
4	Cardiovascular/circulatory	General/unspecified		
5	General/unspecified	Skin/subcutaneous tissue		
6	Nervous system/sense organs	Musculoskeletal		
7	Digestive	Nervous system/sense organs		
8	Endocrine	Digestive		
9	Psychological	Psychological		
10	Genitourinary	Endocrine		
11	Pregnancy/perinatal	Pregnancy/perinatal		
12	Blood/blood-forming organs	Blood/blood-forming organs		
13	Social problems	Social problems		

S7c. Patient gender subgroups

	Male Patient – General	Male Patient – Specific	Female Patient – General	Female Patient – Specific
	Ireland (Murphy, 2015), England (Pearson, 1996), Australia (Sayer, 1996)	England and Wales (Fleming, 2005)	Ireland (Murphy, 2015), England (Pearson, 1996), Australia (Sayer, 1996)	England and Wales (Fleming, 2005)
1	Respiratory	Symptoms Respiratory 5		Symptoms unspecified
2	Skin/subcutaneous tissue			Upper respiratory tract infection, unspecified
3	Musculoskeletal	Arthritis (not back)	Skin/subcutaneous tissue	Arthritis (not back)
4	Digestive	Acute otitis media	Musculoskeletal	Gynecology
5	Nervous system/sense organs	Dermatitis	Cardiovascular/circulatory	Acute otitis media
6	General/unspecified	Hypertension	Genitourinary	Skin unspecified
7	Cardiovascular/circulatory	Back pain/spinal pain	Digestive	Hypertension
8	Genitourinary	Eye	General/unspecified	Back pain/spinal pain
9	Endocrine	Skin unspecified	Endocrine	Eye
10	Psychological	COPD	Psychological	Depression/anxiety
11	Supplementary classification	Depression/anxiety	Supplementary classification	Dermatitis
12	Injury/poisoning	Cellulitis	Blood/blood-forming organs	Urinary tract infection
13	Cancer	Acute MSK injury	Cancer	Abdominal unspecified
14	Infectious/parasitic	Infection unspecified	Injury/poisoning	COPD
15	Blood/blood-forming organs	Gynecology	Vaccines	Cellulitis
16	Vaccines	Dyspepsia	Breast	Infection unspecified
17	Social problems	Cardiovascular	Social problems	Acute MSK injury
18	Dental	Endocrine/ hypothyroidism	Dental	Dyspepsia
19	Renal	Abdominal unspecified	Hepatic	Cardiovascular
20	Hepatic	Metabolic immunity disorders other	Pregnancy/perinatal	Cancer

S7d. Urban vs. rural subgroups

	United States of America – Specific (Probst, 2002)				
	Urban	Rural			
1	Routine health maintenance	Routine health maintenance			
2	Cough	Cough			
3	Pharyngitis	Hypertension			
4	Hypertension	Back pain/spinal pain			
5	Fever	Progress visit			
6	Progress visit	Pharyngitis			
7	Acute otitis media	Dermatitis			
8	Dermatitis	Acute otitis media			
9	n/a*	Administrative medical			
10	Abdominal unspecified	Medication			
11	Upper respiratory tract	Arthritis (not back)			
	infection, unspecified				
12	Back pain/spinal pain	Upper respiratory tract			
		infection, unspecified			
13	Headache	Fever			
14	Cardiovascular	Headache			
15	Administrative medical	Abdominal unspecified			
16	Medication	Cardiovascular			
17	Diabetes	Diabetes			
18	n/a*				
19	n/a*				
20	Arthritis (not back)				

^{*}Not available - information in article was based on rural rankings and some urban conditions were not given.

Supplement 8. Ranking of general categories of conditions presenting to primary care.

Rank	Condition	Rank Score* (maximum score 17)	Number of Studies Included in (out of 6)	Highest Rank	Lowest Rank
1	Respiratory	16.8	6	1	2
2	Nervous system/sense organs	14.3	6	2	6
3	Cardiovascular/circulatory	12.8	6	3	10
4	Skin/subcutaneous	12.2	6	2	10
5	Musculoskeletal	11.7	6	3	8
6	General/unspecified	10.8	5	2	7
7	Digestive	10.3	6	5	11
8	Genitourinary	9.3	6	4	13
9	Endocrine	9.2	6	3	13
10	Supplementary classification	8	3	1	3
11	Psychological	7.2	5	7	12
12	Pregnancy/perinatal	3.8	3	7	16
13	Blood/blood-forming organs	3.7	4	11	13
14	Injury/poisoning	3.2	2	5	12
15	Social problems	2.8	3	12	13
16	Cancer	2.5	3	11	14
17	Infectious/parasitic	2.5	2	9	12

^{*}Higher scores mean the condition was reported as a more common reason for visits in more studies

[†]Studies included in this analysis were Binns et al. 2007, Brueton et al. 2010, Mash et al. 2012, Ministry of Health 2004, Murphy et al. 2015, Sayer & Britt 1996.