

# PCS Clinical Audit Tool – User Guide

Version 3\_10(1)

APPENDICES C

BEST PRACTICE DATA MAPPINGS v1\_16

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## Document Control

Version	Date	Modified By	Description
2.5	20/05/2009	Christine Chidgey	The CAT User Guide Appendices B, C and D have been split out into separate documents. These Appendices cover the Clinical Desktop System data mappings.  Add Waist and BSLF
2.5.2	20/07/2009	Christine Chidgey	Add Assigned Provider Mapping
2.6	15/09/2009	Christine Chidgey	Add Alcohol Update to assigned provider
2.9	29/06/2010	Christine Chidgey	New conditions: <ul style="list-style-type: none"> <li>Peripheral Vascular Disease</li> <li>Carotid Stenosis</li> <li>Renal Artery Stenosis</li> <li>Chronic Renal Failure</li> </ul> Revise condition CHD
2.9.3	17/08/2010	Christine Chidgey	CHD - add Coronary Artery spasm, Variant angina, Prinzmetal angina and Percutaneous Transluminal angioplasty  Mental Health – add Bipolar, ADHD, Autism, Dementia
2.10	06/09/2010	Christine Chidgey	Measurements: <ul style="list-style-type: none"> <li>Physical Activity</li> <li>INR</li> </ul> Medications <ul style="list-style-type: none"> <li>Add Asthma Medications</li> <li>Review all Medication lists</li> </ul> Update Vaccines list
2.10.1	06/10/2010	Christine Chidgey	Rename Gardasil Immunisation to HPV Add Pap Smear codes collected Updates to results for Microalbumin and ACR Add Conditions - STIs Add Pathology Results information
2.11	06/01/2011	Christine Chidgey	Hypertension – some old codes removed – Hypertension Borderline, White coat, Portal, Pregnancy and Preventative care
	31/03/2011	Christine Chidgey	Fix error in Appendix 1
2.12	18/7/2011	Christine Chidgey	Add additional terms to Hyperlipidaemia Add Gestational Diabetes Add medication Dabigatran BSLF - Check Pathology results as well as manual entry ACR – Add LOINC to pathology
3.1	03/11/2011	Christine Chidgey	Add ACR LOINC 14959-1 (lab SNP) Add FOBT pathology collection Appendix C-1-ii Screening exclusion conditions

<b>3.3</b>	13/02/2012	Christine Chidgey	<p>Add Diagnoses:</p> <ul style="list-style-type: none"> <li>• Musculoskeletal &gt; Inflammatory Arthritis</li> <li>• Musculoskeletal &gt; Other Musculoskeletal</li> </ul> <p>Add Medications</p> <ul style="list-style-type: none"> <li>• Pain Relief &gt; Narcotics/Opioids</li> <li>• Pain Relief &gt; Paracetamol</li> <li>• Musculoskeletal &gt; Gout preparations</li> <li>• Musculoskeletal &gt; Osteoporosis medications</li> <li>• Musculoskeletal &gt; DMARDs</li> </ul>
<b>3.3.1</b>	27/02/2012	Christine Chidgey	Add Childhood Immunisations mappings
<b>3.3.1.1</b>	14/03/2012	Christine Chidgey	Add Acute Renal Failure and Undefined Renal Failure
<b>3.3.2</b>	9/5/2012	Christine Chidgey	Update mappings for FOBT
<b>3.4</b>	23/7/2012	Christine Chidgey	Add eGFR to pathology codes
<b>3.4.3</b>	4/9/12	Christine Chidgey	<p>Review and make additions to childhood vaccinations list</p> <p>Update definition of a visit</p>
<b>3.4.3.3</b>	22/10/2012	Christine Chidgey	<p>Add additional pathology codes for Pap Smear, HbA1c code and BSLF</p> <p>Add Review Date documentation for smoking and alcohol</p>
<b>3.5</b>	8/11/2012	Christine Chidgey	Add Postnatal Depression to conditions
<b>3.5 (1)</b>	10/01/2013	Christine Chidgey	Update details of Assigned Provide algorithm
<b>3.10</b>	20/02/2014	Christine Chidgey	Update Antithrombotic medications
<b>3.10 (1)</b>	20/03/2014	Christine Chidgey	Amendment to Antithrombotic medications documentation to clearly note the parent category contains a broader set of medications than the set of sub-categories provided

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## INTRODUCTION

### Clinical Audit Tool (CAT)

The Clinical Audit Tool (CAT) analyses clinical information from GP Clinical Desktop Systems. It translates data into real statistical and graphical information that is easy to understand and action. This allows practitioners to assess and improve the quality and completeness of patient information. The benefit to the practice is to assist with its ongoing accreditation and provide opportunities to grow practice income. The emphasis of the tool is to help practice staff to take specific action to improve patient coverage in chronic disease management and prevention.

### User Guide

The purpose of the User Guide is to provide instructions on how to install and use the functionality provided by the CAT.

The User Guide is split into 2 parts:

Part 1: Installation and Configuration including how to collect data sets

Part 2: Functionality

The Appendices for each Clinical Desktop System's Data Mappings are provided separately.

This full User Guide is available from

<http://help.pencs.com.au/cat.htm>

The Appendices contained in this document are for the Best Practice clinical system.

### Pathology Results

Pathology Results must be received in atomised HL7 format in order for the results to be picked up by the CAT extractor. 'Atomised' format means that the HL7 results contain the data in predefined coded segments. The test name and LOINC (Logical Observation Identifiers Names & Codes) code are the important bits of data the extraction tool looks for.

Best Practice maintains a list of test names and LOINC codes that automatically populate results into the patient's file. Some additional codes are searched for by the extractor. This list is provided in Appendix C-6.

## APPENDIX C – BEST PRACTICE DATA CATEGORY MAPPINGS

### APPENDIX C-1 – CONDITIONS DATA CATEGORY MAPPINGS (BP)

The data collection process collects conditions that are found on the Best Practice 'Past History' screen in both the active and inactive parts of the screen. Chronic conditions are flagged as true for a patient if the condition is marked as **either active or inactive**.

From the list below only Asthma and Depression are regarded as being recoverable. These conditions are flagged as true if they are marked as **active only**.

CAT Category	Best Practice Mapping
<b>Diabetes</b>	
<b>Type II</b>	
	Diabetes Mellitus, NIDDM Diabetes Mellitus, Type 2 NIDDM Non insulin dependent Diabetes Mellitus Type 2 Diabetes Mellitus
<b>Type I</b>	
	Diabetes mellitus, IDDM Diabetes mellitus, Type 1 IDDM Insulin dependent Diabetes mellitus Juvenile onset Diabetes mellitus Type 1 Diabetes mellitus
<b>Undefined diabetic</b>	
	Diabetes Diabetes - controlled Diabetes - Unstable Diabetes Mellitus Diabetic endarteritis
<b>Gestational Diabetes</b>	
	Diabetes Mellitus, Gestational Gestational Diabetes Mellitus Gestational diabetes

<b>Respiratory</b>	
<b>Asthma</b>	
[Active only conditions are collected]	Acute severe asthma Allergic asthma Allergy induced asthma Asthma Asthma review Asthma, allergy induced Asthma, exercise induced Asthma, infective exacerbation Bronchial asthma Exercise induced asthma Exertional asthma Infective exacerbation of asthma Status asthmaticus Wheezy bronchitis
<b>COPD</b>	
	Bronchitis, chronic Chronic bronchitis Chronic Obstructive Airways Disease Chronic Obstructive Pulmonary Disease COAD COAD - Infective exacerbation COPD Emphysema



Cardiovascular	
CHD	
	Acute coronary insufficiency Acute myocardial infarction AMI Angina Angina pectoris Angiogram, coronary Angioplasty Angioplasty, coronary Anterior myocardial infarct Anterolateral myocardial infarct Balloon coronary angioplasty CABG Coronary angiogram Coronary angiography Coronary Angiography - No significant obstr Coronary angioplasty Coronary angioplasty with stent Coronary artery bypass graft Coronary artery disease Coronary artery endarterectomy Coronary Artery spasm Coronary artery stent Coronary endarterectomy Coronary heart disease Coronary insufficiency Coronary occlusion Heart attack IHD Inferior myocardial infarction Ischaemic heart disease MI Myocardial infarction Myocardial infarction, anterior Myocardial infarction, anterolateral Myocardial infarction, inferior Myocardial infarction, posterior Myocardial infarction, subendocardial Myocardial infarction, superior Occlusion, Coronary artery Percutaneous Transluminal angioplasty Posterior myocardial infarct Preinfarction syndrome Prinzmetal angina PTA Stent, coronary artery Subendocardial infarct Subendocardial myocardial infarct

	Superior myocardial infarct Unstable angina Variant angina
<b>Acute Coronary Syndrome</b>	
	Acute coronary insufficiency Acute Coronary Syndrome Angina, unstable Preinfarction syndrome Unstable angina
<b>Myocardial Infarction</b>	
	Acute myocardial infarction AMI Anterior myocardial infarct Anterolateral myocardial infarct Heart attack Inferior myocardial infarction MI Myocardial infarction Myocardial infarction, anterior Myocardial infarction, anterolateral Myocardial infarction, inferior Myocardial infarction, posterior Myocardial infarction, subendocardial Myocardial infarction, superior Posterior myocardial infarct Subendocardial infarct Subendocardial myocardial infarct Superior myocardial infarct

Hypertension	
	Essential hypertension High blood pressure Hypertension Hypertension, Isolated systolic Hypertension, malignant Hypertension, pulmonary Hypertension, renovascular Idiopathic pulmonary hypertension Isolated systolic hypertension Labile Blood Pressure Labile BP Malignant hypertension Primary pulmonary hypertension Pulmonary hypertension Renal hypertension Renovascular hypertension Severe refractory hypertension

Heart Failure	
	Acute cardiac failure Acute heart failure Biventricular heart failure Cardiac failure Cardiac failure, acute CCF Congestive cardiac failure Congestive heart failure Cor pulmonale Heart failure Heart failure, acute Heart failure, high output Heart failure, left High output cardiac failure High output heart failure Hypertensive heart failure Left heart failure Left Ventricular Failure LHF LVF RHF Right heart failure Right ventricular failure RVF

Stroke	
	Cerebral haemorrhage Cerebral infarction Cerebrovascular Accident CVA Haemorrhage, intracerebral Haemorrhagic CVA Haemorrhagic stroke Intracerebral bleed Intracerebral haemorrhage Intracranial haemorrhage Ischaemic stroke Lacunar Stroke Migrainous stroke Stroke Stroke, haemorrhagic Stroke, ischaemic Stroke, lacunar Stroke, migrainous Stroke, thrombotic Thrombotic stroke

Peripheral Vascular Disease	
	Peripheral vascular disease Arteriosclerosis obliterans
Carotid Stenosis	
	Carotid Stenosis Carotid artery occlusion
Renal Artery Stenosis	
	Renal artery stenosis Stenosis of renal artery

Mental Health	
<b>Depression</b>	
[Active only conditions are collected]	Anxiety/Depression Depression Depression, endogenous Depression, Post Natal Depression, reactive Endogenous depression Neurotic depression Organic depression Post Natal Depression Reactive depression
<b>Anxiety</b>	
	Anxiety Anxiety disorder Anxiety neurosis Anxiety/Depression Fear, irrational GAD Generalised Anxiety Disorder Irrational fear Neurotic depression Phobia Phobic anxiety disorder Phobic disorder Social Anxiety Disorder Social phobia
<b>Schizophrenia</b>	
	Borderline schizophrenia Catatonic schizophrenia Chronic schizophrenia Paranoid schizophrenia Schizophrenia Schizophrenia, borderline Schizophrenia, catatonic Schizophrenia, chronic Schizophrenia, paranoid
<b>Bipolar</b>	
	Bipolar affective disorder Manic depressive illness Manic depressive psychosis Bipolar 1 disorder Bipolar 2 disorder

<b>Mental Health - Developmental</b>	
<b>ADHD</b>	
	ADD ADHD Attention Deficit Disorder Attention Deficit/Hyperactivity Disorder Hyperactivity r
<b>Autism</b>	
	Autism Autistic disorder Asperger's Syndrome Asperger's disorder
<b>Mental Health - Degenerative</b>	
<b>Dementia</b>	
	Alzheimer's Disease Confusion Dementia Dementia with Lewy Bodies Dementia, frontotemporal Dementia, multi infarct Dementia, Pick's Dementia, semantic Dementia, substance induced Dementia, vascular Diffuse degenerative cerebral disease Disturbance of mentation Frontotemporal dementia Lewy body dementia Lobar atrophy of the brain Mental deterioration Multi infarct dementia Para schizaphrenia Pick's disease Semantic dementia Senile psychosis Senility Substance induced dementia Vascular Dementia
<b>Mental Health – Other</b>	
<b>Postnatal Depression</b>	
[Active only conditions are collected]	Depression, Postnatal Postnatal depression

<b>Musculoskeletal</b>	
<b>Inflammatory Arthritis</b>	
	ankylosing spondylitis Arteritis - Giant cell Arthritis - Juvenile Rheumatoid Arthritis - Psoriatic Arthritis - Rheumatoid Arthritis - Seronegative Cranial arteritis CREST syndrome Disseminated Lupus Erythematosus Generalised Lupus Erythematosus Giant cell arteritis JRA (Juvenile Rheumatoid Arthritis) Juvenile Rheumatoid Arthritis Lupus Lupus Erythematosus Marie Strumpell disease MCTD Mixed connective tissue disease Polymyalgia rheumatica Polymyalgic Syndrome psoriatic arthritis RA (Rheumatoid Arthritis) Reiter's disease Reiter's syndrome Rheumatoid Arthritis Rheumatoid Arthritis – Juvenile Scleroderma Seronegative arthritis Sicca syndrome Sjogren's disease Sjogren's syndrome SLE (Systemic Lupus Erythematosus) Stills Disease Systemic Lupus Erythematosus Temporal arteritis

<b>Other Musculoskeletal</b>	
	Gout Hyperuricaemia Gouty Arthritis Pseudogout Calcium pyrophosphate deposition disease Fibromyalgia Fibromyositis Myofascial pain syndrome

<b>Musculoskeletal - Bone Disease</b>	
<b>Osteoporosis</b>	
	Osteopenia Osteoporosis Osteoporosis, steroid induced Steroid induced osteoporosis Steroid osteopathy
<b>Osteoarthritis</b>	
	Ankle osteoarthritis Cervical spine osteoarthritis Hip osteoarthritis Hip osteoarthrosis Knee osteoarthritis Knee osteoarthrosis Lumbar spine osteoarthritis OA Osteoarthritis Osteoarthritis in neck Osteoarthritis cervical spine Osteoarthritis in fingers Osteoarthritis in hand Osteoarthritis in lumbar spine Osteoarthritis of ankle Osteoarthritis of hip Osteoarthritis of knee Osteoarthrosis



<b>Renal</b>	
<b>Renal Impairment</b>	
	Acute renal failure Chronic renal failure Haemodialysis Hepatorenal syndrome Kidney failure, acute Kidney failure, chronic Kidney failure Renal artery stenosis Renal dialysis Renal failure Renal failure, acute Renal failure, chronic Stenosis of renal artery Uraemia Dialysis Renal impairment Chronic Kidney Disease, Chronic Kidney Disease, Stage 1-5
<b>Chronic Renal Failure</b>	
	Chronic renal failure Haemodialysis Kidney failure, chronic Renal dialysis Renal failure, chronic Dialysis Renal impairment Chronic Kidney Disease, Chronic Kidney Disease, Stage 1-5
<b>Acute Renal Failure</b>	
	Acute renal failure Hepatorenal syndrome Renal failure, acute
<b>Undefined Renal Failure</b>	
	Kidney failure Renal failure Uraemia

Other	
<b>Hyperlipidaemia</b>	
	Dyslipidaemia Familial hypercholesterolaemia Hyperlipidaemia Hyperlipidaemia type 2 Hyperlipoproteinaemia, Type 2 High cholesterol Hypercholesterolaemia
<b>Drug Abuse</b>	
[Active only conditions are collected]	Amphetamine abuse Amphetamine addiction Benzodiazepine abuse Benzodiazepine addiction Benzodiazepine dependence Benzodiazepine withdrawal Drug abuse Drug addict Drug addiction Drug dependence Drug seeking Drug withdrawal Heroin addiction Heroin dependence Intravenous drug use IV drug use Long term opiate use Morphine addiction Morphine dependence Narcotic abuse Narcotic addiction Narcotic dependence Narcotic withdrawal Opiate abuse Opiate addiction Opiate dependence Opiate withdrawal Petrol sniffing Seeking drugs Solvent abuse Solvent dependence Substance abuse Withdrawal, narcotic Withdrawal, opiate

<b>Atrial Fibrillation</b>	
	AF Arrhythmia, atrial fibrillation Atrial fibrillation Fibrillation, atrial Rapid AF Rapid atrial fibrillation
<b>STIs</b>	
<b>Chlamydia</b>	
[Active only conditions are collected]	Chlamydia Infection Chlamydia trachomatis infection Chlamydia urethritis Chlamydial PID PID, chlamydial Urethritis, chlamydial
<b>HIV</b>	
	Acquired immunodeficiency syndrome AIDS AIDS Related Complex ARC HIV HIV carrier HIV infection Human immunodeficiency virus carrier Human immunodeficiency virus infection Tuberculosis, AIDS
<b>Gonorrhoea</b>	
[Active only conditions are collected]	Gonococcal infection Gonococcal proctitis Gonorrhoea Gonorrhoea, rectal Proctitis, gonococcal Rectal gonorrhoea
<b>Syphilis</b>	
[Active only conditions are collected]	Spirochete infection Syphilis Treponema pallidum infection

### Appendix C-1-i - Pregnancy

Pregnancy is true if the patient has a current pregnancy under the Obstetrics tab.

### Appendix C-1-ii Screening exclusion Conditions

<b>Hysterectomy</b>	
Excluded from Pap Smear	Abdominal hysterectomy Hysterectomy Hysterectomy, abdominal Hysterectomy, subtotal Hysterectomy, vaginal Partial hysterectomy Subtotal hysterectomy TAH Total Abdominal Hysterectomy
<b>Cancer of the Bowel</b>	
Excluded from FOBT	Anal carcinoma Cancer of the anus Carcinoma of the anus Squamous cell carcinoma of anus Adenocarcinoma of the colon Bowel cancer Cancer of the colon Carcinoma of the colon Colon carcinoma Colonic cancer Colonic carcinoma Cancer of the rectum Carcinoma of the rectum Rectal adenocarcinoma Rectal cancer Rectal carcinoma Genetic tendency to Hereditary nonpolyposis colorectal cancer Hereditary nonpolyposis colorectal carcinoma Lynch syndrome Carcinosarcoma of the colon Colon carcinosarcoma Signet ring cell carcinoma of bowel Signet ring cell carcinoma of rectum

Polyps	
Excluded from FOBT	Familial adenomatous polyposis Familial polyposis coli Gardner's syndrome Hereditary polyposis coli Multiple colonic polyps Polyposis coli Adenomatous colonic polyp Adenomatous colonic polyps Colonic polyp Colonic polyps Polyp, colonic Polyps, colonic Polyp, rectal Polyps, rectal Rectal polyp Rectal polyps Polyposis coli Rectal polyp removal Removal of rectal polyp Rectal polyp, removal Rectal polypectomy Removal of rectal polyp Colonic polyp, removal Colonic polypectomy Removal of colonic polyp

## APPENDIX C-2 – MEDICATIONS DATA CATEGORY MAPPINGS (BP)

### Medications - Heart

CAT Category	Best Practice Mapping
<p><b>ACE or ARB</b></p> <p>ARB</p>	<p>Generic names:</p> <p>Candesartan Cilexetil                      Candesartan Cilexetil, Hydrochlorothiazide                      Eprosartan Mesylate                      Eprosartan Mesylate, Hydrochlorothiazide                      Irbesartan                      Irbesartan, Hydrochlorothiazide                      Losartan Potassium                      Olmesartan medoxomil                      Olmesartan medoxomil, Hydrochlorothiazide                      Telmisartan                      Telmisartan, Hydrochlorothiazide                      Valsartan                      Amlodopine, Valsartan                      Valsartan, Hydrochlorothiazide</p>
<p>ACE Inhibitors</p>	<p>Generic names:</p> <p>Captopril                      Enalapril Maleate                      Enalapril Maleate, Hydrochlorothiazide                      Fosinopril Sodium                      Fosinopril Sodium, Hydrochlorothiazide                      Lisinopril                      Perindopril Arginine                      Perindopril arginine, Indapamide hemihydrate                      Perindopril Erbumine                      Perindopril erbumine, Indapamide hemihydrate                      Quinapril                      Quinapril, Hydrochlorothiazide                      Ramipril                      Ramipril, Felodipine                      Trandolapril                      Trandolapril, Verapamil</p>

<b>Antithrombotics</b>	
<p>ALL Antithrombotics</p> <p>(the parent category contains a broader set of medications than the set of subcategories provided)</p>	<p>Generic Names (Anticoagulants):</p> <p><i>Included in Subcategories provided in CAT:</i>                      Dabigatran etexilate                      Warfarin Sodium</p> <p><i>Others:</i>                      Apixaban                      Bivalirudin                      Rivaroxaban</p> <p>Generic Names (Antiplatelets):</p> <p><i>Included in Subcategories provided in CAT:</i>                      Aspirin                      Aspirin, Glycine                      Dipyridamole, Aspirin                      Clopidogrel                      Clopidogrel, Aspirin                      Clopidogrel Hydrogen Sulfate</p> <p><i>Others:</i>                      Abciximab                      Dipyridamole                      Eptifibatide                      Prasugrel                      Ticlopidine                      Ticagrelor                      Tirofiban</p>
<p>Aspirin</p>	<p>Generic names:</p> <p>Aspirin                      Aspirin, Glycine                      Dipyridamole, Aspirin</p>
<p>Warfarin</p>	<p>Generic names:</p> <p>Warfarin Sodium</p>
<p>Clopidogrel</p>	<p>Generic names:</p> <p>Clopidogrel                      Clopidogrel, Aspirin                      Clopidogrel Hydrogen Sulfate</p>

Dabigatran	<p>Generic Names:</p> <p>Dabigatran etexilate</p>
<b>Beta Blockers</b>	
Beta Blockers - Antihypertensive	<p>Generic names:</p> <p>Atenolol                      Bisoprolol fumarate                      Carvedilol                      Labetalol Hydrochloride                      Metoprolol Succinate                      Metoprolol Tartrate                      Oxprenolol Hydrochloride                      Pindolol                      Propranolol Hydrochloride</p>
Beta Blockers – Chronic heart failure	<p>Generic names:</p> <p>Bisoprolol fumarate                      Carvedilol</p> <p>Product names:</p> <p>Toprol-XL                      Toprol-XL Titration pack</p>
Beta Blockers – Myocardial Infarction	<p>Generic names:</p> <p>Atenolol                      Betaxolol hydrochloride                      Bisoprolol fumarate                      Carvedilol                      Esmolol hydrochloride                      Labetalol Hydrochloride                      Metoprolol Succinate                      Metoprolol Tartrate                      Oxprenolol Hydrochloride                      Pindolol                      Sotalol                      Sotalol Hydrochloride</p>



<b>Calcium Antagonists</b>	
Calcium Antagonists	Generic names:  Amlodipine Amlodipine Besylate Amlodipine besylate, atorvastatin Amlodipine Maleate Diltiazem Hydrochloride Diltiazem Hydrochloride (Controlled Delivery) Felodipine Lercanidipine Hydrochloride Nifedipine Ramipril, Felodipine Trandolapril, Verapamil Verapamil Hydrochloride
<b>Diuretics</b>	
Diuretics	Generic names:  Bendrofluazide Bumetanide Candesartan Cilexetil Candesartan Cilexetil, Hydrochlorothiazide Diazoxide Enalapril Maleate, Hydrochlorothiazide Eprosartan Mesylate Eprosartan Mesylate, Hydrochlorothiazide Ethacrynic Acid Fosinopril Sodium, Hydrochlorothiazide Frusemide Hydrochlorothiazide Hydrochlorothiazide, Amiloride Hydrochlorothiazide, Triamterene Hydrochlorothiazide/Amiloride Hydrochlorothiazide/Triamterene Indapamide Hemihydrate Irbesartan, Hydrochlorothiazide Olmesartan medoxomil, Hydrochlorothiazide Perindopril arginine, Indapamide hemihydrate Quinapril, Hydrochlorothiazide Telmisartan, Hydrochlorothiazide

Lipid M/fying - Statins	<p>Generic names:</p> <p>Amlodipine besylate, atorvastatin                  Atorvastatin                  Ezetimibe, Simvastatin                  Fluvastatin                  Pravastatin Sodium                  Rosuvastatin                  Simvastatin</p>
Lipid M/fying - Other	<p>Generic names:</p> <p>Cholestyramine                  Colestipol Hydrochloride                  Ezetimibe                  Ezetimibe, Simvastatin                  Fenofibrate                  Gemfibrozil                  Nicotinic Acid</p>

### Medications Respiratory

<b>Respiratory</b>	
<b>Steroids</b>	
Steroid – Inhaled	<p>Generic Names:</p> <p>Beclomethasone Dipropionate                  Budesonide                  Budesonide, Eformoterol fumarate dihydrate                  Ciclesonide                  Fluticasone Propionate                  Fluticasone Propionate, Salmeterol xinafoate</p>
Steroid - Oral	<p>Generic Names:</p> <p>Cortisone Acetate                  Prednisolone                  Prednisolone Acetate                  Prednisolone Hexanoate                  Prednisolone Sodium Phosphate                  Prednisone</p>
<b>COPD</b>	
COPD	<p>Generic Names:</p> <p>Tiotropium</p>

<b>Antiasthmatic</b>	
Asthma - Relievers	<p>Generic Names:</p> <p>Salbutamol Sulfate Terbutaline Sulfate</p> <p>Product Names:</p> <p>Atrovent</p>
Asthma – Symptom Controllers	<p>Generic Names:</p> <p>Eformoterol Fumarate Dihydrate Slameterol Xinafoate</p>
Asthma - Preventers	<p>Product Names:</p> <p>Accolate Alvesco Flixotide Intal Pulmicort Qvar Singulair Tilade</p>
Asthma - Combination	<p>Product Names:</p> <p>Seretide Symbicort</p>

Medications Other

<b>Antidiabetics</b>	
H/glycaemics – Insulin	<p>Generic names:</p> <p>Insulin Aspart                      Insulin aspart                      Insulin aspart rys                      Insulin Aspart, Insulin Aspart Protamine Suspension                      Insulin detemir                      Insulin glargine                      Insulin glulisine                      Insulin Isophane (N.P.H.) Bovine                      Insulin Isophane (N.P.H.) Human                      Insulin lispro                      Insulin Lispro                      Insulin lispro, Insulin lispro Protamine Suspension                      Insulin Lispro, Insulin Lispro Protamine Suspension                      Insulin Neutral (Bovine)                      Insulin Neutral (Human)                      Insulin Neutral 20%, Isophane 80% Human                      Insulin Neutral 30%, Isophane 70% Human                      Insulin Neutral 30%, Isophane 70% Human                      Insulin Neutral Bovine                      Insulin Neutral, Isophane (Human)                      Insulin Neutral/Isophane (Human)                      Insulin Zinc Suspension (Human)                      Neutral Insulin (Human)</p>
H/glycaemics – Oral	<p>Generic names:</p> <p>Glibenclamide                      Gliclazide                      Glimepiride                      Glipizide                      Metformin Hydrochloride                      Metformin Hydrochloride, Glibenclamide                      Metformin Hydrochloride, Glibenclamide                      Metformin, Glibenclamide                      Metformin, Glibenclamide                      Pioglitazone Hydrochloride                      Rosiglitazone                      Rosiglitazone Maleate, Metformin Hydrochloride                      Rosiglitazone Maleate, Metformin Hydrochloride</p>

Metformin	<p>Generic names:</p> <p>Metformin Hydrochloride                  Metformin Hydrochloride, Glibenclamide                  Metformin, Glibenclamide                  Rosiglitazone Maleate, Metformin Hydrochloride                  Sitagliptin, Metformin</p>
Glitazones	<p>Generic names:</p> <p>Pioglitazone Hydrochloride                  Rosiglitazone                  Rosiglitazone Maleate, Metformin Hydrochloride</p>

**Mental Health**

Antipsychotics	<p>Generic names:</p> <p>Amisulpride                  Aripiprazole                  Chlorpromazine Hydrochloride                  Clozapine                  Droperidol                  Flupenthixol Decanoate                  Fluphenazine Decanoate                  Fluphenazine Hydrochloride                  Haloperidol                  Haloperidol Decanoate                  Levomepromazine                  Olanzapine                  Paliperidone                  Pericyazine                  Pimozide                  Quetiapine                  Quetiapine fumarate                  Risperidone                  Thioridazine                  Thioridazine Hydrochloride                  Thiothixene                  Trifluoperazine Hydrochloride                  Ziprasidone                  Zuclopenthixol Acetate                  Zuclopenthixol Decanoate                  Zuclopenthixol Dihydrochloride</p>
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<p>Antipsychotics – Typical</p>	<p>Generic names:</p> <ul style="list-style-type: none"> <li>Chlorpromazine Hydrochloride</li> <li>Droperidol</li> <li>Flupenthixol Decanoate</li> <li>Fluphenazine Decanoate</li> <li>Fluphenazine Hydrochloride</li> <li>Haloperidol</li> <li>Haloperidol Decanoate</li> <li>Levomepromazine</li> <li>Pericyazine</li> <li>Pimozide</li> <li>Thioridazine</li> <li>Thioridazine Hydrochloride</li> <li>Thiothixene</li> <li>Trifluoperazine Hydrochloride</li> <li>Zuclopenthixol Acetate</li> <li>Zuclopenthixol Decanoate</li> <li>Zuclopenthixol Dihydrochloride</li> </ul>
<p>Antipsychotics - Atypical</p>	<p>Generic names:</p> <ul style="list-style-type: none"> <li>Amisulpride</li> <li>Aripiprazole</li> <li>Clozapine</li> <li>Olanzapine</li> <li>Paliperidone</li> <li>Quetiapine</li> <li>Quetiapine fumarate</li> <li>Risperidone</li> <li>Ziprasidone</li> </ul>

Antidepressants	<p>Generic names</p> <p>Amitriptyline Hydrochloride  Carbamazepine  Citalopram Hydrobromide  Clomipramine Hydrochloride  Desvenlafaxine  Dothiepin Hydrochloride  Doxepin Hydrochloride  Duloxetine  Escitalopram Oxalate  Fluoxetine Hydrochloride  Fluvoxamine Maleate  Imipramine Hydrochloride  Mianserin Hydrochloride  Mirtazapine  Moclobemide  Nortriptyline Hydrochloride  Paroxetine Hydrochloride  Phenelzine Sulfate  Procarbazine Hydrochloride  Reboxetine Mesilate  Selegiline Hydrochloride  Sibutramine Hydrochloride  Tranlycypromine Sulfate  Trimipramine Maleate</p>
Mood Stabiliser – Lithium	<p>Generic names:</p> <p>Lithium carbonate</p>
Anti-anxiety	<p>Generic names:</p> <p>Alprazolam  Bromazepam  Clobazam  Clonazepam  Diazepam  Flunitrazepam  Lorazepam  Midazolam  Nitrazepam  Oxazepam  Temazepam  Triazolam</p>

Stimulants	<p>Generic names:</p> <ul style="list-style-type: none"> <li>Atomoxetine hydrochloride</li> <li>Dexamphetamine Sulfate</li> <li>Methylphenidate</li> <li>Methylphenidate Hydrochloride</li> </ul>
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Corticosteroids	
Glucocorticoids	<p>Generic names:</p> <ul style="list-style-type: none"> <li>Beclomethasone Dipropionate</li> <li>Betamethasone acetate, Betamethasone sodium phosphate</li> <li>Budesonide</li> <li>Budesonide, Eformoterol fumarate dihydrate</li> <li>Ciclesonide</li> <li>Cortisone Acetate</li> <li>Dexamethasone</li> <li>Fluticasone Propionate</li> <li>Fluticasone Propionate, Salmeterol xinafoate</li> <li>Hydrocortisone</li> <li>Hydrocortisone Acetate</li> <li>Hydrocortisone Sodium Succinate</li> <li>Hydrocortisone, Cinchocaine Hydrochloride</li> <li>Methylprednisolone Acetate</li> <li>Methylprednisolone Sodium Succinate</li> <li>Prednisolone</li> <li>Prednisolone Hexanoate, Cinchocaine</li> <li>Prednisolone Sodium Phosphate</li> <li>Prednisone</li> <li>Triamcinolone Acetonide</li> </ul>



<b>Pain Relief</b>	
Nsaids	<p>Generic names:</p> <p>Diclofenac Potassium                      Diclofenac Sodium                      Diclofenac Sodium, Misoprostol                      Ibuprofen                      Ibuprofen, Codeine                      Ibuprofen, Codeine Phosphate                      Ibuprofen, Pseudoephedrine Hydrochloride                      Indomethacin                      Ketoprofen                      Ketorolac Trometamol                      Mefenamic Acid                      Naproxen                      Naproxen Sodium                      Piroxicam                      Pseudoephedrine hydrochloride, Ibuprofen                      Sulindac                      Tiaprofenic Acid</p> <p>Celecoxib                      Etoricoxib                      Lumiracoxib                      Meloxicam                      Parecoxib Sodium                      Rofecoxib</p>
Cox2	<p>Generic names:</p> <p>Celecoxib                      Etoricoxib                      Lumiracoxib                      Meloxicam                      Parecoxib Sodium                      Rofecoxib</p>
Narcotics/Opioids	<p>Class:                      Nervous System &gt; Analgesics &gt; Opiods</p> <p>Generic Names:                      Codeine                      Tramadol</p>
Paracetamol	<p>Generics:                      Paracetamol</p>

<b>Musculoskeletal</b>	
Gout preparations	Class: Musculoskeletal system > Antigout preparations
Osteoporosis medications	Class: Musculoskeletal system > Drugs for treatment of bone disease > Drugs affecting bone structure and mineralization > Biphosphonates  Generics: Raloxifene Strontium ronelate Teriparatide
DMARDS > Conventional	Generics: aurorofin azothiaprine cyclosporin cyclophosphamide hydroxychloroquine leflunomide methotrexate mycophenolate penicillamine sulfasalazine
DMARDS > Biological (Cytokine modulators)	Generics: Abatacept Adalimumab Anakinra Etanacept Inflimaxib Rituximab Tocilizumab

## Appendix C-2-1 Immunisations

Immunisations are collected if they have been entered in the Best Practice Immunisations screen.  
The values collected for each type of immunisation are:

<b>Influenza</b>	<b>Pneumococcal</b>	<b>HPV</b>	<b>Pertussis</b>	<b>Swine Flu</b>
FLUAD FLUVAX FLUARIX FLUVAX JUNIOR FLUVIRIN INFLUENZA INFLUVAC INTANZA VAXIGRIP VAXIGRIP JUNIOR	PNEUMOVAX 23 PNEUMOCOCCUS PREVENAR PREVENAR 13	HPV GARDASIL CERVARIX	ADACEL ADACEL POLIO BOOSTRIX BOOSTRIX IPV INFANRIX INFANRIX HEXA INFANRIX IPV INFANRIX PENTA INFANRIX-HEP B PEDIACEL PERTUSSIS PERTUSSIS (MONOVALENT) POLIACEL QUADRACEL TRIPACEL TRIPLE ANTIGEN	Panvax H1N1 Influenza Panvax Junior

<b>CHILDHOOD IMMUNISATIONS</b>				
<b>HepB</b>	<b>DTPa</b>	<b>Hib</b>	<b>IPV (Polio)</b>	<b>Pneumococcal - conjugate</b>
Engerix B Paediatric HBVax II Paediatric Hepatitis B Infanrix Hexa Infanrix-Hep B Infanrix Penta Comvax Twinrix Junior	Infanrix Infanrix Hexa Infanrix IPV Infanrix Penta Infanrix-Hep B Tripacel Triple Antigen Pediaceal Poliaceal Quadracel	ActHib HIB Hiberix HibTITER Infanrix Hexa PedvaxHIB ProHIBit Comvax Pediaceal Poliaceal	Adacel Polio Boostrix-IPV Infanrix Hexa Infanrix IPV Infanrix Penta IPOL Pediaceal Poliaceal Polio Sabin (Oral) Poliomyelitis Quadracel	Pneumococcus (7 valent) Prevenar Synflorix Pneumococcus (13 valent) Prevenar 13
<b>Rotavirus</b>	<b>MMR</b>	<b>MenCCV</b>	<b>HepA</b>	<b>VZV</b>
Rotarix RotaTeq Rotavirus	MMR II Priorix	Meningitec Menjugate NeisVac-C	Avaxim Havrix 1440 Havrix Junior Hepatitis A Twinrix (720/20) Twinrix Junior (360/10) VAQTA Adult VAQTA Paediatric Vivaxim	Varicella-Zoster Varilrix Varivax

### APPENDIX C-3 – GENERAL DATA CATEGORY MAPPINGS (BP)

Demographic	Best Practice Mapping
Gender	Open > Demographics screen > Sex
Ethnicity	Open > Demographics screen > Drop down list for Aboriginal / TSI
DVA	Open > Demographics screen > DVA No. has a value
Age	Open > Demographics screen > DOB
Last Visit / Activity	<p>Past Visits screen &gt; Checks most recent date in the list</p> <p><b>Visits flagged as Type = Non Visit are excluded.</b></p> <p>Last Visit = the most recent date recorded Active = 3 or more visits recorded in the last 2 years</p> <p>Note: The past visits screen in Best Practice can be used by practices to record non clinical contacts, for example, when a recall letter is sent. These contacts must be flagged a type <b>Non Visit</b> to be excluded by CAT.</p>
Postcode	Open > Demographics screen > Postcode

Allergy	Best Practice Mapping
	<b>Main Patient Screen &gt; Allergies / Adverse Drug Reactions Box</b>
Allergy Recorded	An Allergy Item is present
No Known Allergies	The 'Nil Known' check box is checked
Nothing Recorded	No Allergy Items are present and the 'Nil Known' check box is unchecked

<b>Smoking</b>	<b>Best Practice Mapping</b>
	<b>Main Patient screen &gt; Open &gt; Alcohol and Smoking History &gt; Tobacco</b>
Daily Smoker	Smoker = Smoker is selected
Irregular Smoker	This option is not captured in Best Practice
Ex Smoker	Smoker = Ex-Smoker is selected
Never Smoked	Smoker = Never smoked is selected
Nothing Recorded	Smoker has nothing selected
Review Date	This will be the date something in the 'Family & Social History' section is changed. It is not possible to isolate Smoking changes.

<b>Alcohol</b>	<b>Best Practice Mapping</b>
	<b>Main Patient screen &gt; Open &gt; Alcohol and Smoking History &gt; Alcohol</b>
	<b>Frequency = days a week patient usually drinks alcohol</b>
Drinker	Frequency = any except Never
Non Drinker	Frequency = Never
Nothing Recorded	Alcohol tab has nothing selected
Review Date	This will be the date something in the 'Family & Social History' section is changed. It is not possible to isolate Alcohol changes.

Measurements /Pathology *	Best Practice Mapping
BMI	Patient Record > Main Patient Screen > Observations screen
Waist	Patient Record > Main Patient Screen > Observations screen
BSLF	Patient Record > Main Patient Screen > Observations screen OR Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen. OR Pathology HL7 results with LOINC codes 14771-0, 14996-3
Cholesterol	Lipids data :
HDL	Patient Record > Main Patient screen > Enhanced Primary Care >
LDL	Diabetes Cycle of Care screen.
Triglycerides	OR Pathology HL7 results OR manually entered result
Creatinine	Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen. OR Pathology HL7 results OR manually entered result
Urinary creatinine	Pathology HL7 results with LOINC code 14683-7
Microalbumin	Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen. OR Pathology HL7 results
ACR (Microalbumin Creatinine Ratio)	Pathology HL7 results with LOINC code 32294-1, 30000-4, 9318-7 or 14959-1 (units mg/mmol or g/mol) OR calculated from Microalbumin and Urinary Creatinine if results are on the same day OR manually entered result
HbA1c	Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen. OR Pathology HL7 results OR manually entered result OR Additional test name 'Blood haemoglobin A 1 c'

BP	Patient Record > Main Patient screen either - opening the Observations screen, or - opening the Enhanced Primary Care > Diabetes Cycle of Care screen.
Respiratory - Spirometry	Clinical > Respiratory function OR  Today's Notes > History and Examination > Respiratory > Calculator > FEV1 and FVC
INR	Clinical > INR Manager
Physical Activity	Clinical > Physical Activity Prescription The prescription must be printed for it to be saved. A selected 'current physical activity level' of moderate or active meets the physical activity guidelines, otherwise they do not meet the guidelines
FOBT	Pathology HL7 results with LOINC code 2335-8, 27396-1, 14563-1, 14564-9, 14565-6, 12503-9, 12504-7, 27401-9, 27925-7, 27926-5 or with test names Faecal Occult Blood ,Faecal occult blood screening ,Faecal Occult Blood Test, FOB, FOBT, Occult blood – faeces, Stool occult blood test, OCCULT BLOOD, faecal human haemoglobin, Insure FOBT, FOBT1, FOBT2, FOBT3, FOB1, FOB2, FOB3  FOBT Orders are extracted with any of the test names above.
eGFR	Pathology HL7 results with LOINC code 33914-3 OR Calculation (Refer Clinical Audit User Guide – Part 2 Functionality)

\* Refer to pathology note at the start of this manual and Appendix C-6



Pap Smear	Best Practice Mapping
	<b>Female Patient Record &gt; Main Patient Screen &gt; Cervical Smears tab (Manual entry or Pathology HL7 results)</b>
Recorded	A smear test is listed
Smear Date	Date of most recent entry
<b>Best Practice Pap Smear HL7 Mapping TEST NAME</b>  Best Practice automatically recognises HL7 items as pap smear results if they are this list.	CCSR CERVICAL CONVENTIONAL SMEAR CERVICAL CYTOLOGY CERVICAL SMEAR CERVICAL SMR CYTOLOGY GYNAECOLOGICAL CYTOLOGY GYNAECOLOGICAL (PAP-0) GYNAE CYTOLOGY GYNAECOLOGICAL CYTOLOGY GYNEA CYTOLOGY NON SCREENING PAP NON SCREENING SMEAR PAP PAP (BALLARAT) PAP (GEELONG) PAP NS PAP SMEAR PAP SMEAR (PAN-0) PAP SMEAR +/- THIN PREP PAP SMEAR OLD PAP SMEARS PAP TEST PAP-0 (PAP SMEAR) PAPFU PAPR PAPR NS THIN PREP ONLY THINP VAG SM VAGINAL SMR VAULT CYTOLOGY VAULT SMEAR  Practices should check the test names appearing in the results tab and advise PCS if there is a test name that should be added to this list.
<b>Pap Smear Ineligible</b>	<b>Best Practice Mapping</b>
	1) Cervical Smears screen - tick-box 'Not Required' checked 2) Coded condition of Hysterectomy: - See Appendix B-1-ii – Screening exclusions

<b>Disease</b>	<b>Best Practice Mapping</b>
Condition	<p>Past History screen &gt; Checks the condition selected on history items, where Conditions are selected from a coded list.</p> <p>Refer to Appendix C-1 for a list of conditions mapping to each CAT condition.</p>

<b>Medications</b>	<b>Best Practice Mapping</b>
Medication	<p>Current Rx screen &gt; Checks the Drugs listed as current medications, where Drugs are selected from a coded list.</p> <p>Refer to Appendix C-2 for a list of medications mapping to each CAT medication.</p>
Medication Count	<p>Current Rx screen &gt; Counts All Drugs listed as current medications</p>

## APPENDIX C-4 – DIABETES SIP DATA CATEGORY MAPPINGS (BP)

Item	Best Practice Mapping
HbA1c	Patient Record > Main Patient screen > Enhanced Primary Care > Diabetes Cycle of Care screen. OR Pathology HL7 results OR manually entered result OR Additional test name 'Blood haemoglobin A 1 c'
Eye Exam	Enhanced Primary Care > Diabetes Cycle of Care
BMI	Observations
Waist	Observations Or Enhanced Primary Care > Diabetes Cycle of Care
BSLF	Observations screen OR Enhanced Primary Care > Diabetes Cycle of Care screen. OR Pathology HL7 results with LOINC codes 14771-0, 14996-3
BP	Observations Or Enhanced Primary Care > Diabetes Cycle of Care
Foot Exam	Enhanced Primary Care > Diabetes Cycle of Care
Cholesterol	Enhanced Primary Care > Diabetes Cycle of Care OR Pathology HL7 results
Triglycerides	Enhanced Primary Care > Diabetes Cycle of Care OR Pathology HL7 results
HDL	Enhanced Primary Care > Diabetes Cycle of Care OR Pathology HL7 results
Microalbumin	Enhanced Primary Care > Diabetes Cycle of Care OR Pathology HL7 results
Smoking	Open > Alcohol and Smoking History > Tobacco

## **APPENDIX C-5 – ASSIGNED PROVIDERS (BP)**

### Assigned Provider Mapping in Best Practice

Best Practice uses the 'Usual Doctor' field in the patient demographics as the patients assigned provider.

Where a 'Usual Doctor' is not selected, patients will be assigned to a particular provider based on which provider they were most frequently seen by in recent consultations. Providers that are inactive are excluded.

- Patients will be assigned to the active provider who saw them for the highest number of consultations in the previous 18 months.
- Where there is no consultation recorded in the previous 18 months, the patient will be assigned to the active provider who saw them most recently, up to 5 years ago.
- Where there is no consultation recorded in the previous 5 years, no provider will be assigned.

### APPENDIX C-6 – PATHOLOGY MAPPINGS (BP)

CAT Pathology Result Collected	Best Practice HL7 Mapping TEST NAME OR LOINC CODE
ACR	32294-1 30000-4 9318-7
BSL	14749-6
BSLF	14771-0
CREATININE	CREATININE SCREATININE SECREATININE 14682-9 14683-7
CHOLESTEROL	CHOLESTEROL SCHOLESTEROL SECHOLESTEROL TOTCHOLESTEROL 14647-2
HBA1C	HBA1C GLYCOSYLATEDHB GLYCATEDHB HAEMOGLOBINA1C HBA HBA(HPLC) HBA1CFRACTION 17856-6 4548-4
HDL	HDL HDLCHOLESTEROL CHOLESTEROLHDL HDL(PROTECTIVE) 14646-4
LDL	LDL LDLCHOLESTEROL CHOLESTEROLLDL LDL(ATHEROGENIC) 22748-8

MICROALBUMIN	14957-5 1754-1 1755-8
TRIGLYCERIDES	TG TRIG TRIGLYCERIDES STRIGLYCERIDES SETRIGLYCERIDES TRIGLYCTOT 14927-8 30524-3