

# CPCSSN Disease Definitions

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Canadian Primary Care Sentinel  
Surveillance Network

[www.cpcssn.ca](http://www.cpcssn.ca)



# CPCSSN Disease Definitions



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Acknowledgments: [CPCSSN Case Definitions Team, and other contributors]

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# Diabetes

## Text-based Definition

A CPCSSN diagnosis of diabetes includes diabetes mellitus type 1 and type 2, controlled or uncontrolled. Gestational diabetes, chemically induced (secondary) diabetes, or neonatal diabetes are not included as well as polycystic ovarian syndrome and hyperglycemia. The definition does not include pre-diabetes or similar states or conditions such as impaired fasting glucose or glucose intolerance.

## Operational Definition

Diabetes Mellitus (Occurrences of any of the following indicators is enough to index the disease.)																																														
Billing	OR	Problem List	OR	Medication	OR	Lab Result																																								
<p><u>Minimum Two occurrences</u> of the following codes <u>within two years</u>:</p> <p>1. 250, Diabetes mellitus</p>		<p><u>Any occurrence</u> of the following codes:</p> <p>1. 250, Diabetes mellitus</p>		<table border="0"> <tr> <td>DrugName</td> <td>ATC Code</td> </tr> <tr> <td>ACARBOSE</td> <td>A10BF01</td> </tr> <tr> <td>GLIBENCLAMIDE</td> <td>A10BB01</td> </tr> <tr> <td>GLICLAZIDE</td> <td>A10BB09</td> </tr> <tr> <td>GLIMEPIRIDE</td> <td>A10BB12</td> </tr> <tr> <td>INSULIN (HUMAN)</td> <td>A10AB01</td> </tr> <tr> <td>INSULIN (HUMAN)</td> <td>A10AC01</td> </tr> <tr> <td>INSULIN (HUMAN)</td> <td>A10AD01</td> </tr> <tr> <td>INSULIN (HUMAN)</td> <td>A10AE01</td> </tr> <tr> <td>INSULIN ASPART</td> <td>A10AB05</td> </tr> <tr> <td>INSULIN ASPART</td> <td>A10AD05</td> </tr> <tr> <td>INSULIN DETEMIR</td> <td>A10AE05</td> </tr> <tr> <td>INSULIN GLARGINE</td> <td>A10AE04</td> </tr> <tr> <td>INSULIN LISPRO</td> <td>A10AB04</td> </tr> <tr> <td>INSULIN LISPRO</td> <td>A10AD04</td> </tr> <tr> <td>METFORMIN</td> <td>A10BA02</td> </tr> <tr> <td>METFORMIN AND ROSIGLITAZONE</td> <td>A10BD03</td> </tr> <tr> <td>SITAGLIPTIN</td> <td>A10BH01</td> </tr> <tr> <td>TOLBUTAMIDE</td> <td>A10BB03</td> </tr> <tr> <td>INSULIN (PORK)</td> <td>A10AC03</td> </tr> </table> <p>The following diagnosis if exist in patient's problem list make <b>the medication criteria alone insufficient</b>:</p> <ul style="list-style-type: none"> <li>• 256.4, Polycystic Ovarian Syndrome</li> <li>• 648.8, Gestational Diabetes</li> <li>• 249, Secondary (chemical induced) Diabetes</li> <li>• 790.29, Hyperglycemia NOS</li> <li>• 775.1, Neonatal diabetes mellitus</li> </ul>	DrugName	ATC Code	ACARBOSE	A10BF01	GLIBENCLAMIDE	A10BB01	GLICLAZIDE	A10BB09	GLIMEPIRIDE	A10BB12	INSULIN (HUMAN)	A10AB01	INSULIN (HUMAN)	A10AC01	INSULIN (HUMAN)	A10AD01	INSULIN (HUMAN)	A10AE01	INSULIN ASPART	A10AB05	INSULIN ASPART	A10AD05	INSULIN DETEMIR	A10AE05	INSULIN GLARGINE	A10AE04	INSULIN LISPRO	A10AB04	INSULIN LISPRO	A10AD04	METFORMIN	A10BA02	METFORMIN AND ROSIGLITAZONE	A10BD03	SITAGLIPTIN	A10BH01	TOLBUTAMIDE	A10BB03	INSULIN (PORK)	A10AC03		<p>1. Any HbA1C <math>\geq 7</math></p> <p>2. <u>Two occurrences within one year</u> of Fasting Glucose <math>&gt;7</math></p>
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# Hypertension

## Text-based Definition

A CPCSSN diagnosis of hypertension includes essential hypertension, hypertensive heart disease, hypertensive chronic kidney disease, hypertensive heart and kidney disease, and secondary hypertension. It does not include myocardial infarction, CHF, angina, portal hypertension, white-coat hypertension, gestational hypertension or pregnancy-induced hypertension unless there was a pre-existing diagnosis of hypertension. Also, this definition does not include borderline hypertension, or a similar non-specific comment. There must be a clear diagnosis of hypertension. Elevated BP readings alone are insufficient without a diagnosis of hypertension.

## Operational Definition

Hypertension (Occurrences of any of the following indicators is enough to index the disease.)																																																																										
Billing	O R	Problem List	O R	Medication	O R	Lab Result																																																																				
<p><u>Minimum Two occurrences of the following codes within two years:</u></p> <ol style="list-style-type: none"> <li>401, Essential hypertension</li> <li>402, Hypertensive heart disease</li> <li>403, Hypertensive chronic kidney disease</li> <li>404, Hypertensive heart and chronic kidney disease</li> <li>405, Secondary hypertension</li> </ol>		<p><u>Any occurrence of the following codes:</u></p> <ol style="list-style-type: none"> <li>401, Essential hypertension</li> <li>402, Hypertensive heart disease</li> <li>403, Hypertensive chronic kidney disease</li> <li>404, Hypertensive heart and chronic kidney disease</li> <li>405, Secondary hypertension</li> </ol>		<table border="0"> <tr> <td>DrugName</td> <td>ATC Code</td> </tr> <tr> <td>ACEBUTOLOL</td> <td>C07AB04</td> </tr> <tr> <td>ALISKIREN</td> <td>C09XA02</td> </tr> <tr> <td>AMILORIDE</td> <td>C03DB01</td> </tr> <tr> <td>AMLODIPINE</td> <td>C08CA01</td> </tr> <tr> <td>ATENOLOL</td> <td>C07AB03</td> </tr> <tr> <td>ATENOLOL AND OTHER DIURETICS</td> <td>C07CB03</td> </tr> <tr> <td>BENAZEPRIL</td> <td>C09AA07</td> </tr> <tr> <td>CAPTOPRIL</td> <td>C09AA01</td> </tr> <tr> <td>CARVEDILOL</td> <td>C07AG02</td> </tr> <tr> <td>CHLORTALIDONE</td> <td>C03BA04</td> </tr> <tr> <td>CILAZAPRIL</td> <td>C09AA08</td> </tr> <tr> <td>ENALAPRIL</td> <td>C09AA02</td> </tr> <tr> <td>ENALAPRIL AND DIURETICS</td> <td>C09BA02</td> </tr> <tr> <td>EPROSARTAN</td> <td>C09CA02</td> </tr> <tr> <td>EPROSARTAN AND DIURETICS</td> <td>C09DA02</td> </tr> <tr> <td>FELODIPINE</td> <td>C08CA02</td> </tr> <tr> <td>FOSINOPRIL</td> <td>C09AA09</td> </tr> <tr> <td>HYDROCHLOROTHIAZIDE</td> <td>C03AA03</td> </tr> <tr> <td>HYDROCHLOROTHIAZIDE AND POTASS</td> <td>C03EA01</td> </tr> <tr> <td>INDAPAMIDE</td> <td>C03BA11</td> </tr> <tr> <td>IRBESARTAN</td> <td>C09CA04</td> </tr> <tr> <td>IRBESARTAN AND DIURETICS</td> <td>C09DA04</td> </tr> <tr> <td>LISINOPRIL</td> <td>C09AA03</td> </tr> <tr> <td>LISINOPRIL AND DIURETICS</td> <td>C09BA03</td> </tr> <tr> <td>LOSARTAN AND DIURETICS</td> <td>C09DA01</td> </tr> <tr> <td>METHYLDOPA (LEVOROTATORY) AND [</td> <td>C02LB01</td> </tr> <tr> <td>METOLAZONE</td> <td>C03BA08</td> </tr> <tr> <td>TELMISARTAN</td> <td>C09CA07</td> </tr> <tr> <td>TIMOLOL</td> <td>C07AA06</td> </tr> <tr> <td>TRANDOLAPRIL</td> <td>C09AA10</td> </tr> <tr> <td>TRIAMTERENE</td> <td>C03DB02</td> </tr> <tr> <td>VALSARTAN</td> <td>C09CA03</td> </tr> <tr> <td>VERAPAMIL</td> <td>C08DA01</td> </tr> </table> <p>The following diagnosis if exist in patient's problem list make <b><u>the medication criteria alone insufficient:</u></b></p> <ul style="list-style-type: none"> <li>346, Migraines</li> <li>428, CHF</li> <li>410, Myocardial Infarction</li> <li>412, Myocardial Infarction</li> <li>250, Diabetes</li> <li>427, Cardiac Arrhythmia</li> <li>333.1, Tremor</li> <li>456.0, Esophageal Varices</li> <li>456.1, Esophageal Varices</li> </ul>	DrugName	ATC Code	ACEBUTOLOL	C07AB04	ALISKIREN	C09XA02	AMILORIDE	C03DB01	AMLODIPINE	C08CA01	ATENOLOL	C07AB03	ATENOLOL AND OTHER DIURETICS	C07CB03	BENAZEPRIL	C09AA07	CAPTOPRIL	C09AA01	CARVEDILOL	C07AG02	CHLORTALIDONE	C03BA04	CILAZAPRIL	C09AA08	ENALAPRIL	C09AA02	ENALAPRIL AND DIURETICS	C09BA02	EPROSARTAN	C09CA02	EPROSARTAN AND DIURETICS	C09DA02	FELODIPINE	C08CA02	FOSINOPRIL	C09AA09	HYDROCHLOROTHIAZIDE	C03AA03	HYDROCHLOROTHIAZIDE AND POTASS	C03EA01	INDAPAMIDE	C03BA11	IRBESARTAN	C09CA04	IRBESARTAN AND DIURETICS	C09DA04	LISINOPRIL	C09AA03	LISINOPRIL AND DIURETICS	C09BA03	LOSARTAN AND DIURETICS	C09DA01	METHYLDOPA (LEVOROTATORY) AND [	C02LB01	METOLAZONE	C03BA08	TELMISARTAN	C09CA07	TIMOLOL	C07AA06	TRANDOLAPRIL	C09AA10	TRIAMTERENE	C03DB02	VALSARTAN	C09CA03	VERAPAMIL	C08DA01		N/A
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		<ul style="list-style-type: none"> <li>• 413, Angina</li> <li>• 592, Kidney Stones</li> <li>• 572.3, Portal Hypertension</li> </ul>	
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## COPD

### Text-based Definition

A CPCSSN diagnosis of COPD includes obstructive chronic bronchitis, emphysema, or chronic airway obstruction, ever. It excludes all types of asthma including chronic obstructive asthma. Classifications of COPD require more than a single x-ray or spirometry finding but require a diagnosis of COPD or similar. Only persons over the age of 35 are eligible for inclusion in this category.

### Operational Definition

COPD																
Age >= 35 for <u>any</u> of the below criteria																
Billing	OR	Problem List	OR	Medication	OR	Lab Result										
<u>Any occurrence</u> of the following codes:  1. 491.2, Chronic bronchitis 2. 492, Emphysema 3. 496, Chronic airway obstruction not elsewhere classified		<u>Any occurrence</u> of the following codes:  1. 491.2, Chronic bronchitis 2. 492, Emphysema 3. 496, Chronic airway obstruction not elsewhere classified		<table border="0"> <tr> <td><b>DrugName</b></td> <td><b>ATC Code</b></td> </tr> <tr> <td>TIOTROPIUM BROMIDE</td> <td>R03BB04</td> </tr> <tr> <td>IPRATROPIUM BROMIDE</td> <td>R01AX03</td> </tr> <tr> <td>IPRATROPIUM BROMIDE</td> <td>R03BB01</td> </tr> <tr> <td>SALBUTAMOL AND OTHEI</td> <td>R03AK04</td> </tr> </table> The following diagnosis if exist in patient's problem list make <b><u>the medication criteria alone insufficient:</u></b> <ul style="list-style-type: none"> <li>• 493, Asthma</li> </ul>	<b>DrugName</b>	<b>ATC Code</b>	TIOTROPIUM BROMIDE	R03BB04	IPRATROPIUM BROMIDE	R01AX03	IPRATROPIUM BROMIDE	R03BB01	SALBUTAMOL AND OTHEI	R03AK04		N/A
<b>DrugName</b>	<b>ATC Code</b>															
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IPRATROPIUM BROMIDE	R03BB01															
SALBUTAMOL AND OTHEI	R03AK04															

## Depression

### Text-based Definition

A CPCSSN diagnosis of depression includes episodic mood disorders or a depressive disorder not elsewhere classified, it includes bipolar, manic affective disorder, manic episodes as well as mild depression (not just “clinical depression”). It does not include anxiety disorders, alcohol or drug induced mental disorders, schizophrenic disorders, delusional disorders, other non-organic psychoses, pervasive developmental disorders, or other intellectual disabilities.

### Operational Definition

Depression						
Billing	OR	Problem List	OR	Medication	OR	Lab Result



<p><u>Any occurrence</u> of the following codes:</p> <ol style="list-style-type: none"> <li>296, Episodic mood disorders</li> <li>311, Depressive disorder not elsewhere classified</li> </ol>	<p><u>Any occurrence</u> of the following codes:</p> <ol style="list-style-type: none"> <li>296, Episodic mood disorders</li> <li>311, Depressive disorder not elsewhere classified</li> </ol>	<table border="0"> <tr> <td>AMITRIPTYLINE AND PSYCHOLEPTICS</td> <td>N06CA01</td> </tr> <tr> <td>CITALOPRAM</td> <td>N06AB04</td> </tr> <tr> <td>ESCITALOPRAM</td> <td>N06AB10</td> </tr> <tr> <td>FLUOXETINE</td> <td>N06AB03</td> </tr> <tr> <td>FLUVOXAMINE</td> <td>N06AB08</td> </tr> <tr> <td>MIRTAZAPINE</td> <td>N06AX11</td> </tr> <tr> <td>MOCLOBEMIDE</td> <td>N06AG02</td> </tr> <tr> <td>SERTRALINE</td> <td>N06AB06</td> </tr> <tr> <td>TRANLYCYPROMINE</td> <td>N06AF04</td> </tr> </table> <p>The following diagnosis if exist in patient's problem list make <b><u>the medication criteria alone insufficient:</u></b></p> <ul style="list-style-type: none"> <li>300, Anxiety disorders</li> </ul>	AMITRIPTYLINE AND PSYCHOLEPTICS	N06CA01	CITALOPRAM	N06AB04	ESCITALOPRAM	N06AB10	FLUOXETINE	N06AB03	FLUVOXAMINE	N06AB08	MIRTAZAPINE	N06AX11	MOCLOBEMIDE	N06AG02	SERTRALINE	N06AB06	TRANLYCYPROMINE	N06AF04	<p>N/A</p>
AMITRIPTYLINE AND PSYCHOLEPTICS	N06CA01																				
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MOCLOBEMIDE	N06AG02																				
SERTRALINE	N06AB06																				
TRANLYCYPROMINE	N06AF04																				

## Osteoarthritis

### Text-based Definition

A CPCSSN diagnosis of osteoarthritis includes osteoarthritis and allied disorders as well spondylosis and allied disorders such as kissing spine and ankylosing vertebral hyperostosis anywhere in the chart regardless of when. It does not include intervertebral disc disorders, ankylosing spondylitis and other inflammatory spondylopathies, or spinal stenosis.

### Operational Definition

Osteoarthritis					
Billing	OR	Problem List	OR	Medication	Lab Result
<p><u>Any occurrence</u> of the following codes:</p> <ol style="list-style-type: none"> <li>715, Osteoarthritis and allied disorders</li> <li>721, Spondylosis and allied disorders</li> </ol>		<p><u>Any occurrence</u> of the following codes:</p> <ol style="list-style-type: none"> <li>715, Osteoarthritis and allied disorders</li> <li>721, Spondylosis and allied disorders</li> </ol>		<p>N/A</p>	<p>N/A</p>

## Epilepsy

### Text-based Definition

A CPCSSN diagnosis of epilepsy includes epilepsy and recurrent seizures or general convulsions. It includes Petit Mal (absence) seizures, Grand Mal (tonic-clonic) seizures, Dravet’s syndrome, Lennox-Gastaut syndrome, and Panayiotopoulos syndrome. It does not include provoked seizure, alcohol withdrawal seizure, hypoglycemic seizure or “possible” or “suspected” variants of the inclusions. Note that individuals diagnosed with a petit mal, grand mal or convulsions, which are not receiving AEDs, will not be included. Also, individuals with medications only will not be included.

## Operational Definition

### Epilepsy

**These terms assume pre-processing of the EMR data to transform text entries in billing, problem list and/or encounter diagnosis fields into ICD9 equivalents before a case finding algorithm is applied.**

**Inclusion text terms are “epilepsy” and “seizure disorder” and the following variants:**

- Epilep\*
- Seizure
- Siezure (included as often misspelled)
- Sezure (included as often misspelled)
- Petit mal
- Grand mal
- Convul\*
- Dravet syndrome
- Lennox-Gastaut syndrome
- Panayiotopoulos syndrome

**Exclusion text terms are “alcohol withdrawal seizure”, “provoked seizure”, “hypoglycemic seizure”, and “possible”, “suspect”, “?”, etc. related to the variants cited above.**

Billing	Problem List	Medication	Encounter Diagnosis																																						
<p><b>Include:</b> 345.*- Epilepsy and recurrent seizures 780.3- Convulsions</p> <p><b>Then exclude:</b> 345.2- Petit mal status <b>(without AED)</b> 345.3- Grand mal status <b>(without AED)</b> 780.3 <b>(without AED)</b></p> <p><b>*AED =Antiepileptic drug</b></p>	<p><b>Include:</b> 345.* 780.3</p> <p><b>Then exclude:</b> 345.2 <b>without AED</b> 345.3 <b>without AED</b> 780.3 <b>without AED,</b></p>	<table border="0"> <tr> <td><b>Drug Name</b></td> <td><b>ATC Code</b></td> </tr> <tr> <td>CARBAMAZEPINE</td> <td>N03AF01</td> </tr> <tr> <td>CLOBAZAM</td> <td>N05BA09</td> </tr> <tr> <td>Clonazepam</td> <td>N03AE01</td> </tr> <tr> <td>Gabapentin</td> <td>N03AX12</td> </tr> <tr> <td>Lamotrigine</td> <td>N03AX09</td> </tr> <tr> <td>Levetiracetam</td> <td>N03AX14</td> </tr> <tr> <td>Oxcarbazepine</td> <td>N03AF02</td> </tr> <tr> <td>Phenobarbital</td> <td>N03AA02</td> </tr> <tr> <td>Phenytoin</td> <td>N03AB02</td> </tr> <tr> <td>Pregabalin</td> <td>N03AX16</td> </tr> <tr> <td>Primidone</td> <td>N03AA03</td> </tr> <tr> <td>Topiramate</td> <td>N03AX11</td> </tr> <tr> <td>Valproic acid</td> <td>N03AG01</td> </tr> <tr> <td>Vigabatrin</td> <td>N03AG04</td> </tr> <tr> <td>Lacosamide</td> <td>N03AX18</td> </tr> <tr> <td>Ethosuximide</td> <td>N03AD01</td> </tr> <tr> <td>Felbamate</td> <td>N03AX10</td> </tr> <tr> <td>Rufinamide</td> <td>N03AF03</td> </tr> </table> <p><b>Exclusion:</b> <b>Exclude any case identified <u>ONLY</u> through medication criteria</b></p>	<b>Drug Name</b>	<b>ATC Code</b>	CARBAMAZEPINE	N03AF01	CLOBAZAM	N05BA09	Clonazepam	N03AE01	Gabapentin	N03AX12	Lamotrigine	N03AX09	Levetiracetam	N03AX14	Oxcarbazepine	N03AF02	Phenobarbital	N03AA02	Phenytoin	N03AB02	Pregabalin	N03AX16	Primidone	N03AA03	Topiramate	N03AX11	Valproic acid	N03AG01	Vigabatrin	N03AG04	Lacosamide	N03AX18	Ethosuximide	N03AD01	Felbamate	N03AX10	Rufinamide	N03AF03	<p><b>Include:</b> 345.* 780.3</p> <p><b>Then exclude:</b> 345.2 <b>without AED</b> 345.3 <b>without AED</b> 780.3 <b>without AED,</b></p>
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# Parkinson's Disease

## Text-based Definition

A CPCSSN diagnosis of Parkinson's disease includes Parkinson's disease, paralysis agitans, and parkinsonism. However, the definition explicitly excludes tremor, wolf Parkinson white and suspected or possible variants of the inclusions.

## Operational Definition

Parkinson's Disease			
<p><b>These terms assume pre-processing of the EMR data to transform text entries in billing, problem list and/or encounter diagnosis fields into ICD9 equivalents before a case finding algorithm is applied.</b></p> <ul style="list-style-type: none"> <li><b>Inclusion text term is "parkinson"</b></li> <li><b>Exclusion text terms are "tremor", "wolf parkinson white", "suspected " and variants (eg "possible", "?", etc)</b></li> </ul>			
Billing	Problem List	Medication	Encounter Diagnosis
<p><b>Include:</b> 332.*- Parkinson's disease</p>	<p><b>Include:</b> 332.*</p>	<p><b>Drug Name            ATC Code</b> Rasagiline N04BD02 Selegiline N04BD01 Levodopa N04BA01 levodopa, decarboxylase inhibitor and COMT inhibitor N04BA03</p> <p><b>Exclusion:</b> <b>Cases identified <u>ONLY</u> through medication criteria are excluded</b></p>	<p><b>Include:</b> 332.*</p>

# Dementia

## Text-based Definition

A CPCSSN diagnosis of dementia includes Alzheimer’s disease, frontotemporal dementia, Pick’s disease, senile degeneration of the brain, corticobasal degeneration, cerebral degeneration, dementia with lewy bodies, mild cognitive impairment, senile dementia, presenile dementia, vascular dementia, and senility without mention of psychosis.

## Operational Definitions

<b>Dementia</b>															
<p><b>These terms assume pre-processing of the EMR data to transform text entries in billing, problem list and/or encounter diagnosis fields into ICD9 equivalents before a case finding algorithm is applied.</b></p> <ul style="list-style-type: none"> <li><b>Inclusion text terms are “alzheim”, “dementia”, “lewy”</b></li> <li><b>Exclusion text terms are “suspected” and variants (eg “possible”, “?”, etc)</b></li> </ul>															
<b>Billing</b>	<b>Problem List</b>	<b>Medication</b>	<b>Encounter Diagnosis</b>												
<p><b>Include:</b>            290.* - Dementias psychosis            331.*- Other cerebral degenerations            294.1- Dementia in conditions classified            294.8- Other persistent mental disorders due to            797.*- Senility without mention of psychosis            438.*- Late effects of cerebrovascular disease psychosis  <b>Then exclude:</b>            797.* <b>(without med)</b>            438.* <b>(without med)</b>            290.8- Other specified senile psychotic conditions            290.9- Unspecified senile psychotic condition            331.3- Communicating hydrocephalus            331.4- Obstructive hydrocephalus            331.5- Idiopathic normal pressure hydrocephalus (INPH)            331.81- Reye's syndrome</p>	<p><b>Include:</b>            290.*            331.*            294.1            294.8            797.*            438.*  <b>Then exclude:</b>            797.*  <b>(without med)</b>            438.*  <b>(without med)</b>            290.8            290.9            331.3            331.4            331.5            331.81</p>	<table border="0"> <tr> <td><b>Drug Name</b></td> <td><b>ATC</b></td> </tr> <tr> <td><b>Code</b></td> <td></td> </tr> <tr> <td>Memantine</td> <td>N06DX01</td> </tr> <tr> <td>Rivastigmine</td> <td>N06DA03</td> </tr> <tr> <td>Galantamine</td> <td>N06DA04</td> </tr> <tr> <td>Donepezil</td> <td>N06DA02</td> </tr> </table>	<b>Drug Name</b>	<b>ATC</b>	<b>Code</b>		Memantine	N06DX01	Rivastigmine	N06DA03	Galantamine	N06DA04	Donepezil	N06DA02	<p><b>Include:</b>            290.*            331.*            294.1            294.8            797.*            438.*  <b>Then exclude:</b>            797.*  <b>(without med)</b>            438.*  <b>(without med)</b>            290.8            290.9            331.3            331.4            331.5            331.81</p>
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