

## Appendix 1

### Criteria for dementia cases identification

Patients who meet one of the following criteria are selected:

- From Hospital Discharge Registry (HDR), inclusive of passive mobility, the discharge (ordinary or DH regimen), in the year of estimate or in the four previous years with main or secondary diagnosis of the conditions listed below (ICD-IX-CM): 290, 291.2, 292.82, 294.1, 046.1, 331.0, 331.1, 331.2, 331.82, 331.89, 331.9;
- from Drug Claims Registry (PHARM) reversible acetylcholinesterase inhibitor drugs and N-Methyl-D-Aspartate receptor antagonist prescriptions (ATC codes: N06D) in the year of estimate or in the previous four years;
- from Ticket Exemption Registry (TER) an exemption code for dementia or Alzheimer's disease (codes: 011 and 029 respectively) activated prior to the year of estimate are selected

## Appendix 2

### ATC codes for antipsychotic drug exposure

- Typical antipsychotics:

N05AA	Phenothiazines (chlorpromazine, levomepromazine, promazine)
N05AD	Butyrophenone derivatives (haloperidol, bromperidol, droperidol)
N05AL	Benzamides (amisulpride, levosulpiride, Sulpiride, Tiapride)
N05AF	Thioxanthene derivatives ( Zuclopentixolo)
N05AG	Diphenylbutylpiperidine derivatives (pimozide)
N05AH06	Clotiapine

- Atypical antipsychotics:

N05AH02	Clozapine
N05AH03	Olanzapine
N05AX08	Risperidone
N05AH04	Quetiapine
N05AX12	Aripipazole
N05AE04	Ziprasidone
N05AL05	Amisulpride

### Appendix 3

#### ICD-9-CM codes for cardiovascular risk factors and comorbidities , registered in the 24 months preceding the enrolment date

Cardiovascular risk factor	ICD-9-CM codes
<b>Disorders of lipid metabolism</b>	272
<b>Hypertension</b>	401-405
<b>Ischemic heart disease<sup>^</sup></b>	410-414, 429.7, V45.81, 36.1, V45.82, 00.66, 36.0
<b>Heart failure</b>	428
<b>Cerebrovascular diseases'</b>	430-434, 436-438, 435, 00.61, 00.62, 38.01, 38.02, 38.11, 38.12,38.31, 38.32
Comorbidity	ICD-9-CM codes
Malignant neoplasm	140.0-208.9, V10
Diabetes	250
<b>COPD</b>	491-492, 494,496,518.82,518.83,518.84
<b>Fluid, electrolytes and base-acid balance disorders</b>	276
Chronic kidney diseases	584-586
Kidney and urinary tract infections	590, 595,597
Pneumonia	480-486
Gastric, duodenal, peptic, gastrojejunal ulcer	531-534
Disease of the blood and blood-forming organs	280-289
Chronic liver, chronic pancreas and intestine diseases	571-572,577.1-577.9
Fracture of neck of femur	820.0-820.9
Schizophrenia	295
Bipolar disorder	296.00-296.06, 296.40-296.46, 296.50-296.56, 296.60-296.66, 296.80, 296.89, 296.7
Depression	296.20-296.26, 296.30-296.36

## Appendix 4

### ATC codes for drugs other than antipsychotics

Antidepressants	N06A
Anti-dementia drugs	N06D