## **Supplementary Material**

## Medications in Patients with Dementia and Behavioral Disturbance

|                        |             | ICD 10 CM | description  |
|------------------------|-------------|-----------|--|
| Dementia codes with    |             | F01.51    | Vascular dementia with behavioral disturbance                                |
| behavioral disturbance |             |           | Dementia in other diseases classified elsewhere with                         |
|                        |             | F02.81    | behavioral disturbance   |
|                        |             | F03.91    | Unspecified dementia with behavioral disturbance                             |
| Dementia codes         |             | F01.5     | Vascular dementia  |
|                        |             | F02.8     | Dementia in other diseases classified elsewhere                              |
|                        |             | F03.9     | Unspecified dementia   |
|                        |             | G30       | Alzheimer's disease  |
|                        |             | G31.0     | Frontotemporal dementia  |
|                        |             | G31.83    | Dementia with Lewy bodies  |
| BD codes               | Agitation   | R45.1     | Restlessness and agitation   |
|                        | Aggression  | R45.6     | Violent behavior   |
|                        | Aggression  | F91.8     | Other conduct disorders  |
|                        |             |           | Psychotic disorder with hallucinations due to known                          |
|                        | Psychosis   | F06.0     | physiological condition  |
|                        |             |           | Psychotic disorder with delusions due to known                               |
|                        | Psychosis   | F06.2     | physiological condition  |
|                        | Psychosis   | F20       | Schizophrenia  |
|                        | Psychosis   | F23       | Brief psychotic disorder   |
|                        | Psychosis   | F24       | Shared psychotic disorder  |
|                        |             |           | Other psychotic disorder not due to a substance or                           |
|                        | Psychosis   | F28       | known physiological condition  |
|                        |             |           | Unspecified psychosis not due to a substance or known                        |
|                        | Psychosis   | F29       | physiological condition  |
|                        | Psychosis   | F30.2     | Manic episode, severe with psychotic symptoms                                |
|                        |             | 794.9     | Bipolar disorder, current episode manic severe with                          |
|                        | Psychosis   | F31.2     | psychotic features   |
|                        | D 1 '       | F21 5     | Bipolar disorder, current episode depressed, severe,                         |
|                        | Psychosis   | F31.5     | with psychotic features  |
|                        | Devehorie   | F31.64    | Bipolar disorder, current episode mixed, severe, with                        |
|                        | Psychosis   | 1'31.04   | psychotic features<br>Major depressive disorder, single episode, severe with |
|                        | Psychosis   | F32.3     | psychotic features   |
|                        | 1 590110515 | 1 52.5    | Major depressive disorder, recurrent, severe with                            |
|                        | Psychosis   | F33.3     | psychotic symptoms   |
|                        | Delirium    | F05       | Delirium due to known physiological condition                                |
|                        | Wandering   | Z91.83    | Wandering in diseases classified elsewhere                                   |

## Supplementary Table 1. ICD-10-CM codes for dementia and BD