**Supplementary Material 1.** **Definition of colorectal cancer and cognitive disorders by ICD-10 diagnostic codes.**

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| **ICD-10 codes** | **Diseases** |
| **Colorectal cancer** | |
| C18 | Malignant neoplasm of colon |
| C19 | Malignant neoplasm of rectosigmoid junction |
| C20 | Malignant neoplasm of rectum |
| **Cognitive disorders** |  |
| F00 | Dementia in Alzheimer disease |
| F01 | Vascular dementia |
| F02 | Dementia in other diseases classified elsewhere |
| F03 | Unspecified dementia |
| F06.7 | Mild cognitive impairment |
| G30 | Alzheimer disease |
| G31.00 | Behavioral variant frontotemporal dementia |
| G31.82 | Dementia with Lewy bodies |