

Supplementary Material

Lessons from Detecting Cognitive Impairment Including Dementia (DetectCID) in Primary Care

Data Harmonization Dictionary

A. Dementia, Mild Cognitive Impairment, and other cognitive impairment diagnoses (ICD-10)

A.1 Dementia

Dementia

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|--------|---|
| F01.50 | Vascular dementia without behavioral disturbance |
| F01.51 | Vascular dementia with behavioral disturbance |
| F02.80 | Dementia in other diseases classified elsewhere without behavioral disturbance |
| F02.81 | Dementia in other diseases classified elsewhere with behavioral disturbance |
| F03.90 | Unspecified dementia without behavioral disturbance |
| F03.91 | Unspecified dementia with behavioral disturbance |
| F10.27 | Alcohol dependence with alcohol-induced persisting dementia |
| F19.17 | Other psychoactive substance abuse with psychoactive substance-induced persisting dementia |
| F19.27 | Other psychoactive substance dependence with psychoactive substance-induced persisting dementia |
| F19.97 | Other psychoactive substance use, unspecified with psychoactive substance-induced persisting dementia |
| G23.1 | Progressive supranuclear ophthalmoplegia |
| G30.0 | Alzheimer's disease with early onset |
| G30.1 | Alzheimer's disease with late onset |
| G30.8 | Other Alzheimer's disease |
| G30.9 | Alzheimer's disease, unspecified |
| G31.01 | Pick's disease |
| G31.09 | Other frontotemporal dementia |
| G31.1 | Senile degeneration of brain, not elsewhere classified |
| G31.2 | Degeneration of nervous system due to alcohol |
| G31.83 | Dementia with Lewy bodies |
| G31.85 | Corticobasal degeneration |
| G31.9 | Degenerative disease of nervous system, unspecified |
| R41.0 | Disorientation, dementia with delirium |

A.2 Mild cognitive impairment

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| G31.84 | Mild cognitive impairment |
|--------|---------------------------|

A.3 Other cognitive disorders

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| F05 | Delirium due to known physiological condition |
| F06.8 | Other specified mental disorders due to known physiological condition |
| F09 | Unspecified mental disorder due to known physiological condition |
| G10 | Huntington's Disease |

| | |
|---------|--|
| G20 | Parkinson's disease |
| G31.89 | Other specified degenerative diseases of nervous system |
| R41.1 | Anterograde amnesia |
| R41.2 | Retrograde amnesia |
| R41.3 | Other amnesia |
| R41.4 | Neurologic neglect syndrome |
| R41.81 | Age-related cognitive decline |
| R41.82 | Altered mental status, unspecified |
| R41.83 | Borderline intellectual functioning |
| R41.840 | Attention and concentration deficit |
| R41.841 | Cognitive communication deficit |
| R41.842 | Visuospatial deficit |
| R41.843 | Psychomotor deficit |
| R41.844 | Frontal lobe and executive function deficit |
| R41.89 | Other symptoms and signs involving cognitive functions and awareness |
| R41.9 | Unspecified symptoms and signs involving cognitive functions and awareness |

B. Tests ordered for reversible causes of cognitive impairment

CT brain scan
MRI brain scan
Thyroid-stimulating hormone (TSH) test
Folate panel
Vitamin B12
HemoglobinA1c test
Complete blood count (CBC) test
Comprehensive metabolic panel (CMP) test
HIV test
Rapid plasma reagin (RPR) or other syphilis test

C. New prescriptions for dementia medications prescribed

Aricept/Donepezil
Rivastigmine
Memantine
Galantamine

D. Referral for cognitive impairment or dementia evaluation by specialists

Neurologist
Geriatrician
Psychiatrist
Neuropsychologist

Standards for Reporting Qualitative Research (SRQR)

<http://www.equator-network.org/reporting-guidelines/srqr/>

Page no(s).

Title and abstract

| | |
|---|---|
| Title - Concise description of the nature and topic of the study Identifying the study as qualitative or indicating the approach (e.g., ethnography, grounded theory) or data collection methods (e.g., interview, focus group) is recommended | 1 |
| Abstract - Summary of key elements of the study using the abstract format of the intended publication; typically includes background, purpose, methods, results, and conclusions | 4 |

Introduction

| | |
|--|-----|
| Problem formulation - Description and significance of the problem/phenomenon studied; review of relevant theory and empirical work; problem statement | 5-7 |
| Purpose or research question - Purpose of the study and specific objectives or questions | 7 |

Methods

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|--|---|
| Qualitative approach and research paradigm - Qualitative approach (e.g., ethnography, grounded theory, case study, phenomenology, narrative research) and guiding theory if appropriate; identifying the research paradigm (e.g., postpositivist, constructivist/interpretivist) is also recommended; rationale** | 8 |
| Researcher characteristics and reflexivity - Researchers' characteristics that may influence the research, including personal attributes, qualifications/experience, relationship with participants, assumptions, and/or presuppositions; potential or actual interaction between researchers' characteristics and the research questions, approach, methods, results, and/or transferability | 8 |
| Context - Setting/site and salient contextual factors; rationale** | 7 |
| Sampling strategy - How and why research participants, documents, or events were selected; criteria for deciding when no further sampling was necessary (e.g., sampling saturation); rationale** | 7 |
| Ethical issues pertaining to human subjects - Documentation of approval by an appropriate ethics review board and participant consent, or explanation for lack thereof; other confidentiality and data security issues | 8 |
| Data collection methods - Types of data collected; details of data collection procedures including (as appropriate) start and stop dates of data collection and analysis, iterative process, triangulation of sources/methods, and modification of procedures in response to evolving study findings; rationale** | 7 |
| Data collection instruments and technologies - Description of instruments (e.g., interview guides, questionnaires) and devices (e.g., audio recorders) used for data collection; if/how the instrument(s) changed over the course of the study | 7 |
| Units of study - Number and relevant characteristics of participants, documents, or events included in the study; level of participation (could be reported in results) | 7 |
| Data processing - Methods for processing data prior to and during analysis, including transcription, data entry, data management and security, verification of data integrity, data coding, and anonymization/de-identification of excerpts | 8 |
| Data analysis - Process by which inferences, themes, etc., were identified and developed, including the researchers involved in data analysis; usually references a specific paradigm or approach; rationale** | 8 |
| Techniques to enhance trustworthiness - Techniques to enhance trustworthiness and credibility of data analysis (e.g., member checking, audit trail, triangulation); rationale** | 8 |

Results/findings

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|---|-------------|
| Synthesis and interpretation - Main findings (e.g., interpretations, inferences, and themes); might include development of a theory or model, or integration with prior research or theory | 9-16 |
| Links to empirical data - Evidence (e.g., quotes, field notes, text excerpts, photographs) to substantiate analytic findings | 9-16, 27-29 |

Discussion

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| Integration with prior work, implications, transferability, and contribution(s) to the field - Short summary of main findings; explanation of how findings and conclusions connect to, support, elaborate on, or challenge conclusions of earlier scholarship; discussion of scope of application/generalizability; identification of unique contribution(s) to scholarship in a discipline or field | 16-19 |
| Limitations - Trustworthiness and limitations of findings | 18 |

Other

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|---|-------|
| Conflicts of interest - Potential sources of influence or perceived influence on study conduct and conclusions; how these were managed | 20-21 |
| Funding - Sources of funding and other support; role of funders in data collection, interpretation, and reporting | 20 |

Reference:

O'Brien BC, Harris IB, Beckman TJ, Reed DA, Cook DA. **Standards for reporting qualitative research: a synthesis of recommendations.** *Academic Medicine*, Vol. 89, No. 9 / Sept 2014. DOI: 10.1097/ACM.0000000000000388