Supplementary Material

Index

|  |  |
| --- | --- |
| **Supplementary Material** | **Page(s)** |
| Table S1. Article-level Information of articles include in scoping review | 2-13 |
| Table S2. Measure-level information of unique functional outcomes measures included in scoping review | 13-24 |
| Table S3. Most used and relevant functional outcomes measures | 25-28 |
| Table S4. PRISMA-ScR Checklist | 28-30 |
| References of all 301 articles included in functional outcomes domain of scoping review | 31-61 |

# Table S1. Article-level information of the 301 articles included in the functional outcomes domain.

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| **Authors** | **Language(s)** | **Sample Age** | **Clinical Groups** |
| Ahmed et al., 2023 | English | 18-65 | No special group |
| Aloi et al., 2020 | Italian | 18-65 | Binge Eating Disorder/Obesity/ Healthy Controls |
| Atkinson-Clement et al., 2019 | French | 45-84 | PD (w/DBS)/ Healthy controls |
| Attridge et al., 2019 | English/ Other- not indicated  | 18-74 | Chronic pain |
| Ayers et al., 2019 | English | 45-84 | Hoarding disorder |
| Baeza-Velasco et al., 2020 | French | 18-84 | MDD |
| Bakhtiari et al., 2020 | English | 54-81 | No special group |
| Bang et al., 2022 | Korean | 65-83 | Colon cancer |
| Banks et al., 2019 | English | 47-50 | No special group |
| Barch et al., 2023 | English | Not provided | Schizophrenia/ Schizoaffective disorder/Bipolar Disorder 1/ MDD/ Healthy controls |
| Becker et al., 2021 | German | 50-85 | AD/MCI/PD + normal cognition/ PD + MCI/ Healthy controls |
| Bedwell et al., 2023 | English | 25-70 | No special group |
| Berezuk et al., 2018 | English | 45-85+ | MCI |
| Bernard-Arevalo et al., 2023 | French | 18-84 | No special group |
| Best & Freund, 2018 | German | 19-80 | No special group |
| Betz et al., 2022 | English | 65-84 | No special group |
| Biernacki et al., 2023 | English | 18-84 | Nicotine addiction |
| Bjork et al., 2021 | English | 25-70 | Substance use disorder/ Healthy controls |
| Blume et al., 2018 | German | 18-60 | Obesity/ Binge eating disorder |
| Boubekri et al., 2020 | English | 21-65 | No special group |
| Bowren et al., 2018 | English | 45-84 | Focal vmPFC lesions/ Brain damage/ Healthy controls |
| Brady et al., 2021 | English | 65-96 | No special group |
| Briere et al., 2019 | French | 18-84 | Alcohol use disorder/ Healthy controls |
| Bruce et al., 2018 | English | 18-64 | Relapsing Remitting MS (RRMS) |
| Burgdorf & Amjad, 2022 | English | 65-84 | No special group |
| Burgio et al., 2022 | Italian | 56-85 | MCI |
| Buys et al., 2021 | English | 45-95 | Patients w/ stroke |
| Caballero et al., 2022 | English | Not provided | PD |
| Case & Brown, 2023 | English/ French | 18-64 | Depressed mood/ DUI convictions/ Healthy controls |
| Caudle et al., 2023 | English | 19-50 | No special group |
| Chang et al., 2020 | Chinese | 40-70 | Obstructive sleep apnea |
| Chen et al, 2018 | English | 18-85+ | No special group |
| Chiu et al., 2019 | Chinese/ Taiwanese  | 50-85+ | Dementia |
| Chu et al., 2022 | Chinese | 18-84 | Post-stroke CI/ Healthy controls |
| Colón-Semenza et al., 2021 | English | 45-84 | PD/ Healthy controls |
| Compagne et al, 2023 | French | 72-97 | Mild AD |
| Croft et al., 2022 | English | 18-77 | OCD |
| Culbreth et al., 2023 | English | 18-64 | Schizophrenia/ Schizoaffective disorder/ Healthy controls |
| Curley et al., 2019 | English | 18-64 | Psychiatric disorders |
| Cuypers et al., 2018 | Dutch/ French/ German | 45-76 | Prostate cancer/Healthy controls |
| Dammann et al., 2021 | German  | 18-72 | Brainstem cavernous malformations |
| Danesin et al., 2022 | English | 45-85+ | MCI/ PD/ Left Stroke/ Right Stroke/ Healthy controls |
| de Souza et al., 2022 | Portuguese | 50-92 | AD |
| de Vries et al, 2021 | Dutch | 65-84 | Head/ Neck Cancer |
| Deal et al., 2022 | English | 45-84 | PD |
| Del Missier et al., 2020 | Swedish | 60-85 | No special group |
| Dinesh et al., 2022 | English | 18-60 | Alcohol dependence w/ ADHD |
| Dos Santos et al., 2021 | French | 70-93 | Cancer |
| Drinkwater et al., 2022 | English | 18-87 | No special group |
| Elshout et al., 2018 | Dutch | 26-75 | Chiasmatic stroke |
| Emmert et al., 2021 | English | 60-93 | Dementia |
| Faulkner et al., 2021 | English | 18-64 | MDD/ Healthy controls |
| Feinstein et al., 2021 | English | 18-64 | MS |
| Fenton et al., 2023 | English | Not provided | MCI |
| Fernandez da Lama & Brenlla, 2023 | Spanish | 19-64 | No special group |
| Fernandez et al., 2021 | Spanish | 18-64 | MS/ Healthy controls |
| Flegar et al., 2021 | German | 57-71 | Low-risk prostate cancer  |
| Fowler et al., 2018 | English | 65-84 | CI/ Healthy controls |
| Fowler et al., 2021 | English | 18-84 | Metastatic cancer |
| Fujiyama et al., 2022 | English | 18-84 | No special group |
| Galandra et al., 2021 | Italian | Not provided | Alcohol use disorder |
| Gareri et al., 2020 | English | 65-84 | AD |
| Gaubert et al., 2022 | French | Not provided  | Alcohol dependence |
| Gaubert et al., 2023 | French | 18-87 | No special group |
| Geng et al., 2020 | Chinese | 45-85+ | AD/ MCI/ Healthy controls |
| Gerrans et al., 2021 | English | Not provided  | No special group |
| Gerstenecker et al., 2023 | English | Not provided  | MCI |
| Giannouli & Tsolaki, 2021 | Greek  | 45-84 | Vascular Dementia/ Depression/ Healthy controls |
| Giannouli & Tsolaki, 2022 | Greek  | 45-84 | No special group |
| Giannouli & Tsolaki, 2022 | Greek | 54-89 | aMCI/ Healthy controls |
| Giannouli & Tsolaki, 2022 | Greek  | 65-84 | Mild AD |
| Giannouli & Tsolaki, 2023 | Greek  | 65-84 | Mild AD/ aMCI |
| Giustiniani et al., 2019 | French | 21-59 | No special group |
| Gomez-Andres et al., 2019 | Spanish | 39-65 | Aneurysmal subarachnoid hemorrhage (SAH)  |
| Gowey et al., 2020 | English | 32-78 | Weight loss maintainers/ re-gainers |
| Grassi et al., 2018 | Dutch | 18-65 | OCD/ Healthy controls |
| Grassi et al., 2020 | Italian | 18-65 | OCD and GD |
| Gregorio et al., 2020 | Portuguese | 20-96 | No special group |
| Gu et al., 2022 | English | 45-85+ | AD/ LBD/ AD + LBD |
| Gungor et al., 2018 | Turkish | 18-65 | OCD/ Healthy controls |
| El Haj & Moustafa, 2023 | French | 45-84 | Korsakoff's syndrome/ Healthy controls |
| Hall et al., 2022 | English/ French | 18-54 | No special group |
| Hassani et al., 2022 | English | 60-84 | Pelvic organ prolapse surgery patients |
| Hayden et al., 2020 | English | 21-60 | No special group |
| Hegedus et al., 2021 | Hungarian | 18-65 | MDD/ Suicide attempters |
| Heim et al., 2020 | German | 18-84 | HD/ Healthy controls |
| Heintz et al., 2023 | English | 45-84 | No special group |
| Hidrus et al., 2021 | Malay | 18-84 | Type 2 diabetes mellitus |
| Ho et al., 2018 | Chinese | 20-60 | MDD |
| Hodgson et al., 2021 | English | 56-100 | Care home residents |
| Horne et al., 2020 | English | 45-84 | No special group |
| Hou et al., 2023 | Chinese  | 18-85+ | Bladder cancer |
| Huang & Yang, 2023 | Taiwanese | 65-85+ | MCI/ Healthy controls |
| Husain et al., 2021 | English | 21-50 | MDD |
| Ikeda et al., 2019 | Japanese | 45-85+ | No special group |
| Imai et al., 2020 | Japanese | 45-85+ | ALS/ Healthy controls |
| Irmen et al., 2019 | German | 52-75 | Idiopathic PD/ Healthy controls |
| James et al., 2018 | English | 66-100 | No special group |
| Jamieson et al, 2020 | English/ Other- not indicated | 65-85+ | Heart failure |
| Jebraeili et al., 2021 | Persian | 18-64 | No special group |
| Jehu et al., 2022 | English | 70-85+ | No special group |
| Karamaouna et al., 2023 | Greek | 18-57 | Schizotypal/ Healthy controls |
| Karyadi et al., 2022 | English | 21-85 | Psychiatric inpatients |
| Kim et al., 2020 | English | 40-75 | Aphasia (Anomic/Wernicke's/Broca's)/ Healthy controls |
| Kolva et al., 2020 | English | 50-89 | Advanced cancer |
| Kreis et al., 2022 | German  | 18-65 | Schizophrenia/ Healthy controls |
| Lai et al., 2023 | English | Not provided  | Cerebral ataxia |
| Lande et al., 2022 | English | 26-102 | No special group |
| Lau et al., 2023 | Chinese/ Taiwanese  | 20-65 | Chronic migraine/ Chronic migraine + medication overuse/ Healthy controls |
| Lebeau et al., 2022 | English | 45-84 | No special group |
| Lee et al., 2020 | Korean | 65-85+ | Dementia |
| Leo et al., 2019 | Italian | 65-84 | Metastatic breast cancer |
| Leon et al., 2023 | Spanish | Not provided | Impulsive compulsive diagnoses |
| Li et al., 2022 | German  | 75-85+ | Gastrointestinal malignancy |
| Li et al., 2022 | German | 75-88 | Colorectal cancer |
| Li et al., 2022 | English | 18-86 | No special group |
| Lichtenberg et al, 2021 | English | Not provided  | No special group |
| Limbrick-Oldfield et al., 2020 | English | 20-58 | GD/ Healthy controls |
| Ljunggren et al., 2023 | Swedish | 20-64 | Epilepsy |
| Lloyd et al., 2020 | English | 45-84 | Idiopathic PD |
| Logge et al., 2023 | English | 29-68 | Alcohol use disorder |
| Lohse et al., 2023 | Danish | 18-52 | No special group |
| Lotvonen et al., 2018 | Finnish | 59-93 | No special group |
| Lu, 2023 | Chinese | 45-85+ | No special group |
| Ma et al., 2021 | English | 18-62 | OCD/ Healthy controls |
| Mallorquí-Bagué et al., 2018 | Spanish | 18-65 | GD |
| Manguia et al., 2021 | Spanish | 18-64 | Binge eating disorder |
| Mao et al., 2023 | English | 21-50 | Sleep deprivation  |
| Marazia et al., 2022 | Not provided | 18-65 | Schizophrenia/ Schizoaffective Disorder  |
| Marques et al., 2022 | French | 45-84 | PD with and without REM sleep behavior disorder/ Healthy controls |
| Martin et al., 2019 | English | Not provided  | MCI/ Mild AD/ Healthy controls |
| Martini et al., 2018 | English | 45-85 | PD/ Impulse Control Disorder/ Healthy controls |
| Marton et al., 2019 | English | 18-64 | Obsessive Compulsive Disorder/ Healthy controls |
| Maurage et al., 2018 | French | Not provided | Alcohol use disorder |
| McCarthy et al., 2018 | English | 65-85+ | Patients w/ tumors |
| McDermott et al., 2022 | English | 18-64 | Anxiety/ Depression/ Healthy controls |
| McWilliams et al., 2021 | English | 40-79 | No special group |
| Metz et al., 2018 | Dutch | 18-83 | No special group |
| Millroth et al., 2019 | English/ Swedish | 18-75 | No special group |
| Mimmack et al., 2023 | English | Not provided  | MCI/ Healthy controls |
| Moccia et al., 2021 | Italian | 18-65 | GD/ Healthy controls |
| Moore et al., 2023 | English | 18-80 | No special group |
| Moran et al., 2023 | English | 18-64 | Schizophrenia/ Schizoaffective Disorder/ Healthy controls |
| Moreira et al., 2022 | Portuguese | 57-85 | MCI/Healthy controls |
| Moro et al., 2020 | Italian | 65-85 | AD/ Healthy controls |
| Moses-Payne et al., 2019 | English | 18-71 | No special group |
| Moynihan et al, 2018 | English | 22-73 | Schizophrenia/ Schizoaffective disorder |
| Mueller et al, 2019 | Spanish | 45-85+ | Mild AD/ Healthy controls |
| Mukherjee et al., 2020 | English | 18-84 | MDD/ Healthy controls |
| Muller et al., 2021 | German | 18-52 | No special group |
| Munir et al., 2022 | English | 65-89 | Non-metastatic breast cancer |
| Muslemani et al., 2022 | French | 23-57 | Myotonic dystrophy type 1 (DM1) |
| Nakamizo et al., 2020 | Japanese | 45-85+ | Patients w/ history of carotid endarterectomy |
| Nakao et al., 2020 | Japanese | 36-47 | HIV/ Healthy controls |
| Newton et al., 2023 | English | 45-84 | Arthritis and associated conditions |
| Nigro et al., 2021 | English | 22-51 | Cocaine users with HIV/ Cocaine users/ HIV/ Healthy controls |
| Noaman et al., 2019 | English | 60-85+ | No special group |
| Novais et al., 2021 | French | 65-84 | Advanced chronic kidney disease |
| Nowrangi et al., 2022 | English | 65-85+ | MCI/ Healthy controls |
| Noyes et al., 2022 | English | 18-84 | Patients w/ cancer |
| Nurmi et al., 2023 | English/ Spanish | 21-50 | Impulse control disorder/ Healthy controls |
| Oba et al., 2021 | Japanese | 64-94 | AD |
| Occhiogrosso et al., 2020 | English | 53-77 | Malignant Gliomas |
| Ojala et al., 2018 | Dutch | 18-52 | GD/ Healthy controls |
| Olie et al., 2023 | Spanish | 18-75 | Suicide attempters/ Healthy controls |
| Oliveira et al., 2018 | Danish | 18-84 | No special group |
| Ord et al., 2019 | English | 56-95 | CI |
| Orduz-Bastidas et al., 2020 | Spanish | 45-84 | PD/ Healthy controls |
| Ostendorf et al., 2020 | German | 16-56 | No special group |
| Ouerchefani et al., 2019 | English | 19-59 | Brain lesions (VMPFC/DLPFC)/ Healthy controls |
| Ouerchefani et al., 2022 | French | 19-57 | Frontal lobe lesions/ Healthy controls |
| Ouerfelli-Ethier et al., 2018 | English/ French | 19-85 | Mild to moderate idiopathic PD/ Healthy controls |
| Ozcan et al., 2020 | Turkish | 18-65 | Treatment resistant MDD |
| Ozdemir et al., 2023 | English/ Chinese/ Malay | 45-84 | Heart failure |
| Page et al., 2022 | English | 18-85+ | Chronic condition |
| Yusupova et al., 2023 | Uzbek/ Russian | 30-75 | Arterial hypertensions (grades 1-3) |
| Parr et al., 2023 | English | 43-85 | PD/ Healthy controls |
| Passler et al., 2020 | English | 45-85+ | No special group |
| Patai et al., 2022 | English | 44-70 | PD |
| Patt et al., 2023 | English | 51-79 | Hippocampal lesions/ Healthy controls |
| Paul et al., 2021 | English | 55-80 | HIV |
| Perez et al., 2018 | English | 28-79 | No special group |
| Pettorruso et al., 2019 | Italian | 18-65 | GD |
| Phan et al., 2023 | Vietnamese | 18-65 | No special group |
| Pikouli et al., 2023 | Greek | 62-80 | MCI |
| Prettyman et al., 2021 | English | 19-54 | Schizophrenia/ Healthy controls |
| Pugliese & Senne, 2018 | Portuguese | 27-58 | No special group |
| Pushkarskaya et al., 2018 | English | 18-64 | Hoarding Disorder/ Healthy controls |
| Quan et al., 2022 | English | 21-50 | No special group |
| Quinn et al., 2018 | English | Not provided | Rehab (PT) inpatients |
| Rabin et al., 2022 | English | 45-85+ | Subacute combined degeneration (SCD)/ MCI/ VaD/ AD/ bvFTD/ Mixed comorbidities |
| Raina et al., 2021 | English | Not provided  | PD/ Healthy controls |
| Rajan et al., 2018 | English | Not provided  | PD |
| Ramchandram et al., 2020 | English | 26-61 | Psychosis spectrum (PPS) |
| Ramchandran et al., 2020 | English | 55-89 | No special group |
| Reddy et al., 2018 | English | 18-60 | Schizophrenia |
| Renz & Lincoln, 2022 | German | 18-65 | Psychotic disorders |
| Rinaldi et al., 2020 | French | 18-60 | MDD |
| Rodriguez & Ellis, 2018 | English | 50-85 | No special group |
| Rogge, 2022 | Dutch/ French/ German | 18-72 | Autism/ Healthy controls |
| Ronneikko et al., 2023 | Finnish | 80-104 | Patients hospitalized between 1/2014-12/31/2015 |
| Ronnlund et al., 2019 | Swedish | 60-90 | No special group |
| Rosario et al., 2019 | English | 65-85 | Cancer diagnosis |
| Rosi et al., 2019 | Italian | 20-85 | No special group |
| Ruppin et al., 2023 | English | 19-69 | No special group |
| Saleh et al., 2021 | English | 45-85+ | Small Vessel Cerebrovascular Disease  |
| Saleh et al., 2023 | English | 18-84 | Schizophrenia/ Healthy controls |
| Sandor et al., 2022 | Turkish | 18-64 | Mesial temporal lobe epilepsy w/ hippocampal sclerosis/ Posterior cortex epilepsy/ Healthy controls |
| Santos et al., 2022 | Portuguese | 45-85+ | Mild to moderate AD |
| Santoyo-Mora et al., 2022 | Spanish | 19-64 | COVID-19/ Healthy controls |
| Saragih et al., 2022 | English/ Dutch/ Korean/ Chinese/ Slovakian/ Taiwanese  | 45-85+ | AD/ MCI/ Some form of dementia |
| Sasaki et al., 2023 | Japanese | 20-70 | Alcohol use disorder  |
| Schellenberg & Bailis, 2018 | English | 18-65 | No special group |
| Schmicker et al., 2019 | German | 60-75 | No special group |
| Schmitz et al., 2021 | English | 18-55 | Cocaine-use disorder |
| Segura-Serralta et al., 2020 | Spanish | 18-64 | Eating disorders/ Healthy controls |
| Sehrig et al., 2021 | German | Not provided  | Alcohol use disorder |
| Serra et al., 2020 | Italian | 18-84 | Myotonic Dystrophy Type-1/ Healthy controls |
| Seubert-Ravelo et al., 2021 | Spanish | 45-84 | Early-onset PD/ Healthy controls |
| Sharma et al., 2020 | English | 45-84 | Acute ischemic stroke |
| Sharman et al., 2019 | English | Not provided | GD |
| Shaverdian et al., 2018 | English | 44-87 | Prostate cancer |
| Shepherd et al., 2022 | English | 18-84 | No special group |
| Shi et al., 2020 | English | 65-85+ | No special group |
| Sinclair et al., 2021 | English | 72-78 | No special group |
| Sinclair et al., 2023 | English | 72-78 | MCI/Healthy controls |
| Slaughter et al., 2019 | English | 18-84 | Primary intracerebral hemorrhage |
| Smith et al., 2020 | English | 18-55 | Substance use disorder/ Healthy controls |
| Smith et al., 2021 | English | 18-55 | Depression/ Anxiety/ Substance use disorder/ Healthy controls |
| Smith et al., 2022 | English | 18-80 | Brain lesions/ Healthy controls |
| Sobkow et al., 2020 | Polish | 18-55 | No special group |
| Song et al., 2019 | English | 45-85+ | Dementia |
| Spataro & La Bella, 2021 | Italian | 54-68 | ALS/ Healthy controls |
| Spohn et al., 2022 | English | 18-75 | No special group |
| Steffen et al., 2023 | German  | 17-75 | No special group |
| Steward et al., 2019 | English | 54-88 | MCI-ASD and MCI-AMD |
| Steward et al., 2019 | English | 54-88 | MCI/ Mild dementia |
| Steward et al., 2019 | English | 54-88 | MCI |
| Stewart et al., 2018 | English | Not provided | No special group |
| Stolz et al., 2021 | German  | 18-84 | Narcissistic personality disorder/ Healthy controls |
| Strikwerda-Brown et al., 2021 | English | Not provided  | bvFTD/ AD/ Healthy controls |
| Suetani et al., 2022 | English | 18-50 | Psychotic disorder/ Healthy controls |
| Sugden et al., 2019 | English | 18-55 | No special group |
| Sullivan et al., 2023 | English | 18-77 | No special group |
| Sulu et al., 2023 | English | 18-65 | Cushing's disease |
| Sun et al., 2020 | Mandarin | 55-85+ | AD/ MCI/ Healthy controls |
| Szanto et al., 2018 | English | 50-87 | Depression/ Suicide attempters/ Healthy controls |
| Tabira et al., 2022 | Japanese | 65-85+ | AD/ Healthy controls |
| Tannou et al., 2021 | English | 58-95 | PD |
| Tarantino et al., 2021 | Italian | 19-69 | No special group |
| Testa et al., 2021 | Spanish | 18-64 | Obesity/ Anorexia/ GD/ Healthy controls |
| Thiebaut et al., 2019 | French | 15-66 | Eating Disorders |
| Thrailkill et al., 2022 | English | 18-64 | Nicotine addiction/ Healthy controls |
| Tikasz et al., 2019 | English/ French | 18-64 | Schizophrenia/ Schizoaffective Disorder/ Healthy controls |
| Toi et al., 2022 | English/ French | 65-85+ | No special group |
| Tolbert et al., 2019 | English | 55-90 | MCI/ AD/ Healthy controls |
| Torroella Carney et al., 2018 | English | Not provided  | No special group |
| Tsuda et al., 2019 | Japanese | 85+ | Home medical care patients |
| Urbiete et al., 2020 | Lithuanian  | 65-85+ | No special group |
| van den Berg et al., 2020 | Dutch | 18-84 | AD/ FTD/ HD/ LBD/ Healthy controls |
| van den Berg et al., 2020 | Dutch | 43-76 | Stroke |
| van den Berk-Clark et al., 2018 | English | 19-64 | Psychological trauma/ Healthy controls |
| Ozdeniz Varan & Gurvit, 2023 | Turkish | 18-50 | Prolactinoma |
| Vella et al., 2018 | English | 16-65 | Autism Spectrum Disorder/ Healthy controls |
| Verrijp et al., 2022 | Dutch | 18-97 | No special group |
| Verveer et al., 2020 | Dutch | 18-65 | Cocaine users |
| Vila-Ballo et al., 2022 | Spanish | 21-71 | Epilepsy/ Healthy controls |
| Wadley et al., 2020 | English | 45-85+ | MCI |
| Wagenbreth et al., 2019 | German  | 36-74 | PD |
| Walker and Brown, 2018 | English/ Portuguese/ Farsi | 18-84 | HIV/ Healthy controls |
| Wang et al., 2021 | Chinese | 20-65 | DLPFC tumors/ VPFC tumors/ Healthy controls |
| Wang et al., 2022 | Chinese | Not provided  | Meth use disorder |
| Wei et al., 2022 | Mandarin/ Taiwanese | 20-84 | Some type of health condition/ Healthy controls |
| Weller et al., 2019 | English | 24-84 | No special group |
| Weygandt et al., 2018 | German | 18-84 | MS/ Healthy controls |
| Weygandt et al., 2019 | German  | 21-64 | MS/ Healthy controls |
| Wheaton & Topilow, 2020 | English | 18-84 | No special group |
| Wild et al., 2022 | English | 70-85+ | No special group |
| Wilson & Vassileva, 2018 | Bulgarian | 18-50 | Abstinent substance users/ Healthy controls |
| Wilson et al., 2023 | English | 20-83 | Chronic lower back pain  |
| Wolfling et al., 2020 | German | Not provided | GD/ Internet GD |
| Wong & Chow, 2021 | Chinese | 18-65 | Mild intellectual disabilities  |
| Wu et al., 2018 | English | 18-70 | Autism/ Healthy controls |
| Wyld et al., 2021 | English | 69-102 | Breast cancer/ Healthy controls |
| Xu et al., 2021 | Chinese/ Taiwanese | 20-69 | Schizophrenia/ Schizoaffective Disorder/ Healthy controls |
| Yamashita et al., 2020 | Japanese | 65-85+ | Patients w/ heart failure |
| Yang et al., 2021 | Chinese | 60-85+ | Chronic conditions |
| Yazdi et al., 2019 | English | 24-57 | No special group |
| Ye et al., 2020 | Chinese  | 50-80 | Age-related cataract/ Healthy controls |
| Yeo et al., 2021 | English/ Mandarin  | 45-84 | No special group |
| Yildirim et al., 2020 | Turkish | 45-84 | PD/ Healthy controls |
| Yuan et al., 2022 | Chinese | 60-85+ | No special group |
| Zakrzewski et al., 2020 | English | 18-85+ | Hoarding Disorder |
| Zamarian et al., 2020 | German | 30-55 | MS/ Healthy controls |
| Zhang et al., 2022 | Chinese | 60-85+ | MCI/ Healthy controls |
| Zhang et al., 2022 | English | 23-63 | Chronic pain/ Healthy controls |
| Zhao et al., 2023 | Chinese | 24-65 | Obstructive sleep apnea syndrome/ Healthy controls |
| Zhao et al., 2023 | Chinese | 45-84 | No special group |
| Zhao et al., 2023 | Chinese | 60-118 | No special group |
| Zhu et al., 2018 | Chinese | 70-88 | No special group |
| Zilbershlag & Josman, 2019 | English/ Hebrew | 65-92 | No special group |

*Note. AD= Alzheimer’s Disease; FTD= Frontotemporal Dementia; HD= Huntington’s Disease; MCI= Mild Cognitive Impairment; CI= Cognitive Impairment; OCD= Obsessive Compulsive Disorder; GD= Gambling Disorder; PD= Parkinson’s Disease; MS= Multiple Sclerosis; vmPFC= ventromedial Prefrontal Cortex; DLPFC= Dorsolateral Prefrontal Cortex; MDD= Major Depressive Disorder; LBD= Lewy Body Dementia; ADHD= Attention Deficit Hyperactivity Disorder; MCI-ASD= Amnestic Single-domain Mild Cognitive Impairment; MCI-AMD= Amnestic Multiple-domain Mild Cognitive Impairment; VaD= Vascular Dementia; bvFTD= behavioral variant Frontotemporal Dementia; ALS= Amyotrophic Lateral Sclerosis.*

# Table S2. Measure-level information of 232 unique measures included in the functional outcomes domain (450 total).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Measure** | **Original Citation**  | **In-person vs. Remote** | **Administration** | **Technology** |
| 10-meter Walk Test | Kim et al., 2016 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Activities of Daily Living Hierarchy Scale (ADLHS) | Morris et al., 2013 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Adelaide Driving Self-Efficacy Scale (ADSES) | George et al., 2007 | In-person | Self-administered with no supervision | Not provided |
| Adherence Determination Questionnaire- modified | DiMatteo et al. 1993 | Remote | Self-administered with no supervision | Computer |
| Adjusting Amount Discounting Task | Du et al., 2002 | In-person | Not provided | Not provided |
| Adult Decision-making Competence Scale (A-DMC) (n=7) | Bruine de Bruin et al., 2007 | Hybrid | Self-administered with no supervision | Computer; Paper/pen |
| Adults and Older Adults Functional Assessment Inventory | Sousa et al., 2008 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Advance Care Planning Engagement Survey (ACP-ES)- modified to (ACP-TS) | Sudore et al., 2017 | In-person | Not provided | Not provided |
| Ambiguity Tolerance Task (Mukherjee et al., 2020) | Not provided | In-person | Self-administered under supervision | Computer |
| Amsterdam Instrumental Activities of Daily Living Questionnaire (A-IADL-Q) | Sikkes et al., 2012 | Remote | Self-administered with no supervision | Computer |
| Approach-Avoidance Conflict (AAC) Task (n=2) | Not provided | In-person | Self-administered under supervision | Computer |
| Assessment of Capacity for Everyday Decision Making (ACED) | Lai & Karlawish, 2007 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Assessment of Capacity for Everyday Decision Making- Shortened Version (SPACED) | Lai & Karlawish, 2007 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Attribute-Rating Task | Not provided | In-person | Self-administered under supervision | Computer |
| Balloon Analogue Risk Task (BART) (n=10) | Lejuez et al., 2002 | In-person | Self-administered under supervision | Computer |
| Balloon Task | Gold et al., 2013 | In-person | Self-administered under supervision | Computer |
| Bandit Task | Zhang and Yu, 2013 | In-person | Self-administered under supervision | Computer |
| Beads Task (n=2) | Djamshidian et al., 2012 | In-person | Administered by an examiner/researcher/clinician; Self-administered under supervision | Computer |
| Bedside Capacity Assessment Tool (BCAT) | Grisso & Appelbaum, 1988 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Behavior Rating Inventory of Executive Function - Adult (BRIEF-A) | Roth et al., 2005 | Not provided | Self-administered with no supervision | Not provided |
| Berg Balance Scale (BBS) (n=2) | Bilney et al., 2003 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Black Swan Decision Tasks | Perfors & van Dam, 2018 | Remote | Self-administered with no supervision | Computer |
| Blessed- Dementia Scale (BLS-D) | Blessed et al., 1968 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Cambridge Gambling Task (CGT) (n=8) | Rogers et al., 1999 | In-person | Self-administered under supervision | Computer |
| Capacity to Consent to Treatment Instrument (CCTI) | Marson et al., 1995 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| CAPER TREATMENT Survey | Not provided | Remote | Self-administered with no supervision | Computer |
| Cards and Lottery Task (CLT) | Müller et al., 2017 | Remote | Self-administered with no supervision | Computer |
| Career State Inventory (CSI) | Leierer et al ., 2017 | Remote | Self-administered with no supervision | Computer |
| Career Thoughts Inventory (CTI) | Sampson et al ., 1996 | Remote | Self-administered with no supervision | Computer |
| Choice Task | Not provided | In-person | Self-administered under supervision | Computer |
| Choice Task of Dell Computers | Not provided | Remote | Self-administered with no supervision | Computer |
| Clinical Dementia Rating (CDR) | Morris, 1993 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Cognistat | Matsuda et al., 2004 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Cognitive Abilities Screening Instrument (CASI) | Teng et al., 1994 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Cognitive Effort Discounting (COGED) Task | Westbrook et al., 2013 | In-person | Self-administered under supervision | Computer |
| Color Judgment Task | Sarig et al., 2012 | Remote | Self-administered with no supervision | Computer |
| Columbia Card Task (CCT) | Figner & Voelki, 2004 | In-person | Self-administered under supervision | Computer |
| Combined Scale for Proxy Informed Consent Decisions (CONCORD) Scale | Shepherd et al., 2022 | Remote | Self-administered under supervision | Computer |
| Confidence Task | Not provided | Remote | Self-administered with no supervision | Computer |
| Consideration of Future Consequences Scale (CFC) (n=2) | Strathman et al., 1994 | In-person | Administered by an examiner/researcher/clinician; Self-administered with no supervision | Paper/pen |
| Culture Fair Task | Institute for Personality and Ability Testing, 1973 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Daily Living of Older Adults with Disabilities (DIDLD) | Sagari et al., 2020 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Decision-making Quality Index- Financial Competence  | Ambuehl et al., 2014 | Remote | Self-administered with no supervision | Computer |
| Decision Making Tendency Inventory (DMTI) | Misuraca et al., 2015 | Remote | Self-administered with no supervision | Computer |
| Decision Readiness | Not provided | Hybrid  | Self-administered with no supervision | Paper/pen |
| Decision Regret Scale (DRS) (n=6) | Brehaut et al., 2003 | Hybrid | Administered by an examiner/researcher/clinician; Self-administered with no supervision  | Computer; Paper/pen |
| Decision to Drive (2 Scenarios) | Case & Brown, 2023 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Decisional Balance (DB) Scale | Plotnikoff et al., 2001 | Remote | Self-administered with no supervision | Paper/pen |
| Decisional Conflict Scale (DCS) (n=8) | O'Connor, 1995 | Hybrid | Administered by an examiner/researcher/clinician; Self-administered with no supervision | Computer; Telephone; Paper/pen |
| Decision-Making Patterns in (Dis)Agreement Situations | Wong et al., 2021 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Decision-Making Questionnaire (DMQ) | French et al., 1993 | Remote | Self-administered with no supervision | Computer |
| Social Cognition (COGSOC) Battery | Hernandez-Galvan & Yanez-Tellez, 2013 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Deck Choice Effort Task (n=2) | Reddy et al., 2015 | Hybrid  | Administered by an examiner/researcher/clinician | Computer |
| Delay Discounting Task (DDISC) | Westbrook et al., 2013 | Remote | Self-administered with no supervision | Computer |
| Delay Discounting Task (DDT) (n=4) | Koffarnus & Bickel, 2014; Richards et al., 1999; Kirby et al., 1999 | Hybrid  | Self-administered with no supervision; Self-administered under supervision | Computer |
| Dependence Scale (DS) | Stern et al., 1994 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Die Roll Decision-making Paradigm | Irmen et al., 2019 | In-person | Self-administered under supervision | Computer |
| Domain-Specific Risk-Taking Scale (DOSPERT) | Weber et al., 2002 | Remote | Self-administered with no supervision | Computer |
| DriveABLE Cognitive Assessment Tool (DCAT) | Dobbs et al., 1998 | In-person | Self-administered under supervision | Tablet |
| DriveABLE On-Road Evaluation (DORE) | Dobbs et al., 1998 | In-person | Administered by an examiner/researcher/clinician | Vehicle |
| Driving Behavior Questionnaire (DBQ) | Dula & Ballard, 2003 | Remote | Self-administered with no supervision | Computer |
| Driving Habits Questionnaire (DHQ) (n=2) | Owsley et al., 1999 | In-person | Self-administered under supervision; Self-administered with no supervision | Computer |
| Driving Scenarios Task | Andrews & Westerman, 2012 | In-person | Self-administered with no supervision | Computer |
| Driving Simulator Task | Dotzauer et al., 2013 | In-person | Self-administered under supervision | Computer |
| Dundrum Capacity Ladders (DCL) | Moynihan et al., 2018 | In-person | Self-administered with no supervision | Paper/pen |
| Eastern Cooperative Oncology Group (ECOG) Performance Status (n=3) | Oken et al., 1982 | In-person | Administered by an examiner/researcher/clinician | Paper/pen |
| Effort Expenditure for Reward Task (EEfRT) - modified | Treadway et al., 2009 | In-person | Self-administered under supervision | Computer/Stationary bike |
| Effort-based decision-making (EBDM) Apple Picking Task | Not provided | In-person | Self-administered under supervision | Computer |
| Emotional Arousal and Decision Strategies Questionnaire | Not provided | In-person | Self-administered under supervision | Computer |
| Emotional Go-No/Go Task (EGNG) (n=2) | Egashira et al., 2015; Tottenham et al., 2011 | In-person | Self-administered under supervision | Computer |
| Estate Planning Documents Questionnaire (EPDQ) | Sullivan et al., 2023 | Remote | Self-administered with no supervision | Computer |
| European Organisation for Research and Treatment of Cancer- QoL Questionnaire (EORTC- QLQC30) (n=2) | Aaronson et al., 1993 | Hybrid  | Self-administered with no supervision | Paper/pen |
| EuroQol 5-dimensional questionnaire (EQ5D-5L) | Herdman et al., 2011 | Hybrid  | Self-administered with no supervision | Tablet |
| Everyday Decision-making Competence task (EDMC) | Rosi et al. 2019 | Remote | Self-administered under supervision | Computer |
| Expanded Judgment Task | Leimbach et al., 2018 | In-person | Administered by an examiner/researcher/clinician | Computer; Whole-head magnetoencephalography (MEG) System |
| Experimental Effort Based Task | Atkinson-Clement et al., 2019 | In-person | Administered by an examiner/researcher/clinician | Tablet; Pressure bulb |
| Failure to Minimize Risk Assessment | Not provided | Remote | Self-administered with no supervision | Computer |
| Falls Efficacy Scale International (FES) Questionnaire | Figueiredo & Neves, 2018 | In-person | Not provided | Not provided |
| Fatigue Impact Scale (FIS) | Fisk et al., 1994 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Financial Capacity Instrument (FCI) (n=2) | Marson et al., 2000 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Financial Capacity Instrument-Short Form (FCI-SF) (n=7) | Marson et al., 2000; Gerstenecker et al., 2016 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Financial Competence Measure | Ambuehl et al., 2014 | Remote | Self-administered with no supervision | Computer |
| Financial Decision Tracker (FDT) | Lichtenberg et al., 2015 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Financial Judgment Scale | Earl et al., 2015 | In-person | Self-administered with no supervision | Computer |
| Financial Risky Choice Paradigm | De Martino et al., 2006 | In-person | Self-administered under supervision | Computer |
| Flashing Grid Task | Garton et al., 2019 | In-person | Self-administered under supervision | Computer |
| fMRI Effort-Discounting Task (EDT) | Not provided | In-person | Administered by an examiner/researcher/clinician | Computer; fMRI |
| fMRI Reward Task | Clark et al., 2009 | In-person | Self-administered under supervision | Computer; fMRI |
| Forced Choice Problems Task | Not provided | Remote | Self-administered with no supervision | Computer |
| Forced-Choice Preference Task | Not provided | In-person | Administered by an examiner/researcher/clinician | Computer |
| FRAIL Scale | Morley et al., 2012 | In-person | Self-administered with no supervision | Computer |
| Frenchay Activities Index (FAI) | Holbrook & Skilbeck, 1983 | Not provided | Self-administered with no supervision | Not provided |
| Functional Ability Index (n=3) | Not provided | Not provided | Not provided | Not provided |
| Functional Assessment of Cancer Therapy- Bladder Cancer (FACT-BL) | Chen et al., 2020 | Remote | Self-administered with no supervision | Computer |
| Functional Assessment of Verbal Reasoning and Executive Strategies (FAVRES) | MacDonald, 2010 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Functional Activities Questionnaire (FAQ) (n=5) | Pfeffer et al., 1982 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Functional Cognitive Evaluation (FCE) | Not provided | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Functional Composite Score | Not provided | In-person | Self-administered with no supervision | Not provided |
| Functional Independence Measure (FIM) | Granger et al., 1986 | Not provided | Not provided | Not provided |
| G-8 Questionnaire | Bellera et al., 2012 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| GAITRite Assessment (n=2) | Bilney et al., 2003 | In-person | Administered by an examiner/researcher/clinician | Moving walkway |
| Gambling Task (Ojala et al., 2018) | Abdellaoui et al., 2008 | In-person | Self-administered under supervision | Computer |
| Gambling Task (Gomez-Andres et al., 2019) | Camara et al., 2010; Marco-Pallarés et al., 2008; Padrão et al., 2013 | In-person | Self-administered under supervision | Computer |
| Game of Dice Task (GDT) (n=13) | Brand et al., 2005 | Hybrid | Self-administered under supervision; Self-administered with no supervision | Computer |
| General Decision-Making Scale (GDMS) | Scott & Bruce, 1995 | Remote | Self-administered with no supervision | Computer |
| Geriatric Assessment (GA) | Klepin et al., 2011 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Goal Attainment Scaling (GAS) | Not provided | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Go-NoGo Task | Luijten et al., 2011 | Remote | Self-administered with no supervision | Computer |
| Decision-making Competence Assessment Tool (DMCAT) (12-item Assessment) | Finucane & Gullion, 2010 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Hotel Task | Smith et al., 2022 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Hyogo Activities of Daily Living Scale (HADLS) | Nobutsugu et al., 1997 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Indecisiveness Scale-Frost and Shows (IS-FS) | Frost & Shows, 1993 | Remote | Self-administered with no supervision | Computer |
| Independent Living Scale (ILS) (n=3) | Loeb, 1996. | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Index of Recognition Memory | Sobkow et al., 2020 | In-person | Self-administered with no supervision | Computer |
| Information Sampling Task | Clark et al., 2006 | In-person | Self-administered under supervision | Computer |
| Informed Consent (IC) | Moro et al., 2020 | In-person | Administered by an examiner/researcher/clinician | Paper/pen |
| Interleaved Pro- Anti-Saccade Task | Not provided | In-person | Self-administered under supervision | Computer |
| interRAI Home Care (HC) Assessment Tool (n=2) | Hirdes et al., 1999 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Intertemporal Choice Task (Geng et al., 2020) | Figner et al., 2010 | In-person | Self-administered under supervision | Computer |
| Intertemporal Choice Task (Li et al., 2021) | Toubia et al., 2013 | Remote | Self-administered with no supervision | Computer |
| Experiential Intertemporal Choice Task | Kwan et al., 2012; Palombo et al., 2015 | In-person | Self-administered under supervision | Computer |
| Hypothetical Intertemporal Choice Task | Kwan et al., 2012; Palombo et al., 2015 | In-person | Self-administered under supervision | Computer |
| Iowa Gambling Task (IGT) (n=74) | Bechara et al., 1994 | Hybrid | Self-administered with no supervision; Self-administered under supervision | Computer; fMRI |
| Item Response Task | Not provided | Remote | Self-administered with no supervision | Computer |
| Judgment Assessment Tool (JAT) | Escudier et al., 2016 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Karnofsky Performance Scale (KPS) | Karnofsky & Burchenal, 1949 | Not provided | Self-administered with no supervision | Paper/pen |
| Katz Index of Independence in Activities of Daily Living (ADL) Scale (n=6) | Katz et al., 1963 | Hybrid | Administered by an examiner/researcher/clinician | Not provided |
| Legal Capacity for Property Law Transactions Assessment Scale (LCPLTAS) (n=4) | Giannouli et al., 2018 | In-person | Administered by an examiner/researcher/clinician | Paper/pen |
| Legal Capacity for Property Law Transactions Assessment Scale-Short Form (LCPLTAS-SF) (n=2) | Giannouli et al., 2018 | In-person | Administered by an examiner/researcher/clinician | Paper/pen |
| Lexical Decision Task (LDT) | Not provided | In-person | Self-administered under supervision | Computer |
| Loss Aversion Task | Tom et al., 2007 | In-person | Self-administered under supervision | Computer |
| Lottery Task (Phan et al., 2023) | Not provided | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Lottery Task (Sobkow et al., 2020) | Cokely & Kelley, 2009 | Remote | Self-administered with no supervision | Computer |
| Lottery Task (Sugden et al., 2019) | Not provided | In-person | Self-administered under supervision | Computer |
| MacArthur Competence Assessment Tool for Clinical Research (MacCAT-CR) | Appelbaum & Grisso, 2001 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| MacArthur Competence Assessment Tool for Treatment (MacCAT-T) (n=8) | Grisso et al., 1997 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Matching Pennies Task | Barraclough et al., 2004 | In-person | Self-administered under supervision | Computer |
| Maximization Scale | Nenkov et al., 2008 | Remote | Self-administered with no supervision | Computer |
| Medical Decision-making Task (MDMT) | Not provided | Remote | Self-administered with no supervision | Computer |
| Melbourne Decision Making Questionnaire (MDMQ) | Mann et al., 1997 | Remote | Self-administered with no supervision | Not provided |
| Minimum Data Set for Home Care (MDS-HC) | Morris et al., 1997 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Mobility Composite Score | Not provided | In-person | Self-administered with no supervision | Computer |
| Modified Rankin Scale (mRS) (n=2) | Not provided | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Monetary Choice Questionnaire (MCQ) (n=3) | Kirby et al., 1999 | Hybrid | Self-administered with no supervision; Self-administered under supervision | Computer |
| Moral Reasoning Task | Koenigs et al., 2007 | In-person | Administered by an examiner/researcher/clinician | Computer |
| Motor Gambling Task | Not provided | Remote | Self-administered with no supervision | Smartphone; Tablet (App-based) |
| Multi-step Decision-making Task | Huys et al., 2012 | In-person | Not provided | Not provided |
| Neuropsychological Assessment Battery Daily Living Module (NAB-DLM) | Stern & White, 2003. | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Numerical Activities of Daily Living–Financial (NADL-F) | Arcara et al., 2019 |  | Not provided | Not provided |
| Object Size Comparison Task | Panichello et al., 2017 | In-person | Administered by an examiner/researcher/clinician | Computer; fMRI |
| On-Road Driving Assessment (n=3) | Wadley et al., 2009 | In-person | Administered by an examiner/researcher/clinician | Vehicle |
| Outcome Assessment: Decision-making | Zhu et al., 2018 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Outcome-Specific Devaluation Task | Morris et al., 2015 | In-person | Self-administered under supervision | Computer |
| Parkinson's Disease Activities of Daily Living, Interference, and Dependence (PD-AID) | Deal et al. 2019 | Hybrid | Administered by an examiner/researcher/clinician; Self-administered with no supervision | Tablet |
| Parkinson's Disease Questionnaire-39 (PDQ-39) | Peto et al., 1998 | Hybrid | Self-administered with no supervision | Computer; Tablet  |
| Perceptual and Value-Based Decision-Making Task (PVDM) | Not provided | In-person | Self-administered under supervision | Computer |
| Performance Assessment of Self-Care Skills- Home (PASS-H) | Holm & Rogers, 1989 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| "Pig" Dice Game | Scarne, 1945; Meder et al., 2016 | In-person | Self-administered under supervision | Computer |
| Post-decision Evidence Integration Task | Not provided | Remote | Self-administered with no supervision | Computer |
| Prediction Question (Mukherjee et al., 2020) | Not provided | In-person | Self-administered under supervision | Computer |
| Price Search Task | Not provided | In-person | Self-administered under supervision | Computer |
| Probabilistic Gambling Task | Marco-Pallares et al., 2008 | In-person | Self-administered under supervision | Computer |
| Probabilistic Prediction Task | Kreis et al., 2020 | In-person | Self-administered under supervision | Computer |
| Probabilistic Reversal Learning (PRL) Task | Not provided | In-person | Self-administered under supervision | Computer |
| Probabilistic Reward Task (PRT) | Pizzagalli et al., 2005 | In-person | Self-administered under supervision | Computer |
| Problem Solving Decision Making (PSDM) Scale | Kraetschmer, 1994 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Process Analysis of Daily Activity for Dementia (PADA-D) (n=2) | Tabira et al., 2020 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Pro-social Decision-making Task | Stolz et al., 2021 | In-person | Self-administered under supervision | Computer |
| Prostate Cancer Decision-making Questionnaire | Shaverdian et al., 2018 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Punishment Learning Task | Not provided | In-person | Self-administered under supervision | Computer |
| Questionnaire for History of Mental Activity (QHMA) | Not provided | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Random Dot Motion (RDM) Task | Banca et al., 2015 | In-person | Self-administered under supervision | Computer |
| Relapse Analogue Task (RAT) | McKee, 2009 | In-person | Self-administered under supervision | Not provided |
| Reversal Learning Task (RLT) | Fellows & Farah, 2003 | In-person | Self-administered with no supervision | Computer |
| Reward Learning Task | Not provided | In-person | Self-administered under supervision | Computer |
| Risk Choice Experiment Survey (25-items) | Carvalho & Silverman, 2017 | Remote | Self-administered with no supervision | Computer |
| Risk Discounting Task (RDISC) | Yu et al., 2017 | Remote | Self-administered with no supervision | Computer |
| Risk Tolerance Task | Not provided | In-person | Not provided | Not provided |
| Risk-Based Decision-making Task | Hagiwara et al., 2022 | In-person | Self-administered under supervision | Computer |
| Risky Decision Scenario Task | Not provided | Remote | Self-administered with no supervision | Computer |
| Risky Decision-Making Task | Lane et al., 2005 | In-person | Self-administered under supervision | Computer |
| Road Sign Test | Ball et al., 2002 | In-person | Self-administered with no supervision | Computer |
| Rookwood Driving Battery (RDB) | McKenna et al., 2007 | Not provided | Not provided | Not provided |
| Self-Assessment Questionnaire | Not provided | In-person | Not provided | Not provided |
| Self-Care Decisions Inventory | Not provided | Remote | Self-administered with no supervision | Computer |
| Self-Care Heart Failure Index (SCHFI) | Riegel et al., 2004 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Shopping-decisions Task | UK Money Advice Service, 2016 | In-person | Self-administered with no supervision | Not provided |
| Decision Outcomes Inventory (DOI) | Bruine de Bruin et al., 2007 | In-person | Self-administered with no supervision | Not provided |
| Short Physical Performance Battery (SPPB) | Guralnik et al., 1994 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Situations Task | Not provided | In-person | Self-administered under supervision | Computer |
| Space Adventure Task (SAT) | Huys et al., 2015 | In-person | Self-administered under supervision | Computer |
| Standard Gamble (SG) | Not provided | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Stockings of Cambridge (SoC) | Robbins et al., 1998 | In-person | Self-administered under supervision | Computer |
| Strategic Management Simulation Assessment | Streufert, 1988 | In-person | Self-administered under supervision | Computer |
| Switch Time Task | Not provided | In-person | Self-administered under supervision | Computer |
| Temporal Discounting Task | Boyle et al., 2012 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Test of Practical Judgment (TOP-J) (n=3) | Rabin et al., 2007 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Texas Functional Living Scale (TFLS) | Cullum et al., 2009 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| The Action Selection Test (AST) (n=2) | Vlakveld, 2011 | In-person | Administered by an examiner/researcher/clinician | Computer |
| The Activities of Daily Living (ADL) Profile | Bottari et al., 2020 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| The Barthel Index for Activities of Daily Living (ADL) Scale (n=12) | Mahoney & Barthel, 1965 | In-person | Administered by an examiner/researcher/clinician; Self-administered with no supervision | Paper/pen |
| The Cups Task | Weller et al., 2007 | In-person | Self-administered under supervision | Computer |
| The Current Medical Decision-making Capacity Rating (CMDC) | Marson et al., 2002 | In-person | Self-administered under supervision | Not provided |
| The Decision Self-Efficacy Scale (DSE) (n=3) | O'Connor, 1995 | Hybrid | Administered by an examiner/researcher/clinician | Computer; Paper/pen |
| The Effort-Expenditure for Reward Task (EEfRT) (n=2) | Treadway et al., 2009 | In-person | Self-administered under supervision | Computer |
| The Functional Assessment of Cancer Therapy - General (FACT-G) | Cella et al., 1993 | Hybrid | Administered by an examiner/researcher/clinician | Telephone |
| The Functional Comorbidity Index (FCI) | Fortin et al., 2005 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| The Functioning Assessment Short Test (FAST) | Moser et al., 2013; Rosa et al., 2007 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| The Lawton Instrumental Activities of Daily Living (IADL) Scale (n=25) | Lawton & Brody, 1969 | Hybrid | Administered by an examiner/researcher/clinician; Self-administered with no supervision; Self-administered under supervision | Paper/pen |
| The Montreal Cognitive Assessment (MoCA) | Nasreddine et al., 2005 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| The Numerical Activities of Daily Living- Financial (NADL-F) Short Version | Arcara et al., 2017 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| The Outcome and Assessment Information Set (OASIS) | O’Connor & Davitt, 2012 | Not provided | Not provided | Not provided |
| The Past and Present Financial Capacity Form (PPFCF) | Wadley, et al., 2003 | In-person | Self-administered under supervision | Computer |
| Three Domains of Judgment Test (3DJT) | Not provided | In-person | Self-administered under supervision | Computer |
| Time Preference Elicitation Task (DEEP Time) | Toubia et al. 2013 | Remote | Self-administered with no supervision | Computer |
| Timed Instrumental Activities of Daily Living (TIADL) (n=4) | Owsley et al., 2001 | In-person | Administered by an examiner/researcher/clinician | Not provided |
| Tokyo Metropolitan Institute of Gerontology Index of Competence (TMIG-IC) (n=2) | Koyano et al., 1991 | Hybrid | Administered by an examiner/researcher/clinician; Self-administered with no supervision; Self-administered under supervision | Paper/pen |
| Trail-Making Test (TMT) | Reitan et al., 1958 | In-person | Self-administered under supervision | Paper/pen |
| Two-Alternative Forced Choice (2AFC) Task  | Santoyo-Mora et al., 2022 | In-person | Self-administered under supervision | Computer |
| Two-Choice Gambling Task (TCGT) | Schuermann et al., 2012 | Remote | Self-administered with no supervision | Computer |
| Two-Stimulus Visual Oddball Task | Herrmann & Knight, 2001 | Hybrid | Self-administered under supervision; Self-administered with no supervision | Tablet |
| Ultimatum Game | Guth et al., 1982 | In-person | Self-administered under supervision | Computer |
| Unified Parkinson’s Disease Rating Scale (MDS-UPDRS) | Goetz et al., 2007 | Hybrid | Administered by an examiner/researcher/clinician; Self-administered with no supervision | Tablet |
| University of Alabama at Birmingham (UAB) Life Space Questionnaire | Baker et al., 2003 | In-person | Self-administered with no supervision | Not provided |
| Useful Field of View (UFOV) (n=2) | Edwards et al., 2005 | In-person | Self-administered with no supervision | Computer |
| Visual Analogue Preference Task | Not provided | In-person | Self-administered under supervision | Computer |
| Vividness of Decision Outcomes | Not provided | Remote | Self-administered with no supervision | Computer; fMRI |
| WAIS-IV Matrix Reasoning Test | Wechsler, 2008 | In-person | Administered by an examiner/researcher/clinician | Computer; fMRI |
| Walking Task | Oliveira et al., 2018 | In-person | Self-administered under supervision | Tablet; Walking Pad |
| Willingness-to-Wait (WTW) Task (Mukherjee et al., 2020) | Not provided | In-person | Self-administered under supervision | Computer |
| Wisconsin Card Sorting Test (WCST) (n=3) | Heaton et al., 1993 | In-person | Self-administered under supervision | Computer |

*Note. Some measures were not strictly relevant to the functional outcomes domain, however, they were included in articles that focused on functional outcomes (e.g., lab based tasks such as the Iowa Gambling Task (IGT), Game of Dice Task (GDT), and Balloon Analogue Risk Task (BART) were measures included in articles that focused on older-adult decision-making and their independent activities of daily living (IADLs).*

# Table S3. Characteristics of most frequent and most relevant functional outcomes measures.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Measure** | **Measure Frequency** | **Citing Articles**  | **Original Citation** | **Clinical Groups** | **Age Range Covered** | **Psychometric Properties** | **Format** | **In-person vs. Remote** | **Examiner vs. Self-administered** |
| Lawton IADL |  25 (5.6%) | Bang et al., 2022; Burgio et al., 2022; Buys et al., 2021; de Vries et al., 2021; Dos Santos et al., 2021; Emmert et al., 2021; Gareri et al., 2020; Geng et al., 2020; James et al., 2018; Leo et al., 2019; Li et al., 2022; Li et al., 2022; Lotvonen et al., 2018; McCarthy et al., 2018; Moro et al., 2020; Munir et al., 2022; Novais et al., 2021; Oba et al., 2021; Passler et al., 2020; Steward et al., 2019; Tabira et al., 2022; Wyld et al., 2021; Yuan et al., 2022; Saragih et al., 2022; Shi et al., 2020  |  Lawton & Brody, 1969 | MCI; AD; Various forms of dementia; Stroke; Various cancers (colon, breast, pancreatic, head and neck, prostate); Advanced chronic kidney disease | 45-102 | Cronbach’s alpha= 0.86Inter-rater reliability r= 0.85(Older cancer patients; McCarthy et al., 2018) | Semi-structured interview; Paper/pen | Hybrid | Administered by examiner Self-administered no supervision Self-administered under supervision  |
| FAQ | 5 (1.1%) | Becker et al., 2021; Berezuk et al., 2018; Fowler et al., 2018; Nowrangi et al., 2022; Wadley et al., 2020 | Pfeffer et al., 1982 | MCI; AD | 45-85+ | Not reported | Semi-structured interview | In-person  | Administered by examiner  |
| Barthel ADL | 12 (2.7%) | Chu et al., 2022; Gareri et al., 2020; Hodgson et al., 2021; Lee et al., 2020; Leo et al., 2019; Li et al., 2022; Li et al., 2022; Munir et al., 2022; Saragih et al., 2022; Shi et al., 2020; Wyld et al., 2021; Yang et al., 2021  | Mahoney & Barthel, 1965 | MCI; AD; Dementia; Care home residents; Various cancers (colon, head and neck, breast); Stroke; Unspecified chronic conditions | 18-102 | Test-retest k coefficients= 0.63-1(Older adults; Lee et al., 2020) | Semi-structured interview; Paper/pen  | In-person  | Administered by examiner Self-administered no supervision  |
| Katz ADL | 6 (1.3%) | Bang et al., 2022; de Vries et al., 2021; James et al., 2018; Moro et al., 2020; Novais et al., 2021; Tsuda et al., 2019 | Katz et al., 1963 | AD; Various cancers (head and neck cancer, colon); chronic kidney disease; Home medical care patients  | 65-100 | Not reported | Semi-structured interview | Hybrid | Administered by examiner  |
| TMIG-IC | 2 (0.4%) | Oba et al., 2021; Yamashita et al., 2020 | Koyano et al., 1991 | AD; Patients hospitalized with heart failure  | 64-94 | Not reported | Semi-structured interview; Paper/pen  | Hybrid | Administered by an examiner/ researcher/clinicianSelf-administered with no supervisionSelf-administered under supervision |
| A-IADL | 1 (0.2%) | Verrijp et al., 2022 | Sikkes et al., 2012 | N/A | 18-97 | Not reported | Computer | Remote  | Self-administered no supervision  |
| TOP-J | 3 (0.7%) | Ord et al., 2019; Quinn et al., 2018; Rabin et al., 2022  | Rabin et al., 2007 | Subjective cognitive decline; MCI; Vascular dementia (VaD); Frontotemporal dementia; Primary progressive aphasia; patients referred for neuropsychological assessments; Older adult rehabilitation inpatients | 45-95 | Cronbach’s alpha= 0.95 (Informants and patients w/ MCI and various dementias; Rabin et al, 2021)Cronbach’s alpha= 0.63Inter-rater reliability k= 0.95Test-retest r=0.78 (Older adults; Ord et al., 2021) | Semi-structured interview  | In-person  | Administered by examiner  |
| ACED/SPACED | 2 (0.4%) | Fenton et al., 2023; Zilbershlag & Josman, 2019 | Lai et al., 2008 | MCI | 60-92 | Not reported | Semi-structured interview  | In-person  | Administered by examiner  |
| EDMC | 1 (0.2%) | Pikouli et al., 2023 | Rosi et al. 2019 | MCI | 62-80 | Not reported | Computer  | Remote  | Self-administered under supervision  |
| TIADL | 4 (0.9%) | Steward et al., 2019; Steward et al., 2019; Wadley et al., 2020;  | Owsley et al., 2001 | MCI-ASD; MCI-AMD; MCI; AD | 45-85+ | Test-retest r= 0.85 (Older adults; Wadley et al., 2020) | Semi-structured interview; Performance-based task | In-person  | Administered by examiner |
| ILS | 3 (0.7%) | Emmert et al., 2021; Lande et al., 2022; Muslemani et al., 2022;  | Loeb, 1996 | Various dementias; Myotonic Dystrophy Type 1 (DM1) | 23-102 | Inter-rater reliability k=0.99Test-retest r=0.80(Muslemani et al., 2022)  | Semi-structured interview; Performance-based task | In-person  | Administered by examiner  |
| PADA-D | 2 (0.4%) | Ikeda et al., 2019; Tabira et al., 2022 | Tabira, 2019 | AD | 45-85+ | Cronbach’s alpha= 0.96 (Patients with AD; Tabira et al., 2022) | Semi-structured interview  | In-person | Administered by examiner  |
| Texas Functional Living Scale | 1 (0.2%) | Ord et al., 2019 | Cullom et al., 2009 | Patients referred for neuropsychological assessments | 56-95 | Not reported | Semi-structured interview;Performance-based task | In-person  | Administered by examiner  |
| PASS-H |  1 (0.2%) | Zilbershlag & Josman, 2019 | Holm & Rogers, 2008 | N/A | 65-92 |  Cronbach’s alpha subscale range=0.80-0.99Test-retest subscale range r=0.82-0.97 (Zilbershlag & Josman, 2019) | Semi-structured interview;Performance-based task | In-person  | Administered by examiner  |

*Note. (1) Measure frequency, shown in the third column, indicates how often a measure was mentioned among the 450 total measures identified in the scoping review. (2) Psychometric properties were not reported for most measures. While certain measures appeared across multiple articles, very few articles mentioned internal consistency, test-retest reliability, and inter-rater reliability. (3) See Table S2 for full measure name.*

**Table S4.** Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) Checklist which indicates where each PRISMA-ScR item can be found in the manuscript and published scoping review protocol (Ho et al., 2024).

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **ITEM** | **PRISMA-ScR CHECKLIST ITEM** | **REPORTED ON PAGE #** |
| **TITLE** |
| Title | 1 | Identify the report as a scoping review. | 1 |
| **ABSTRACT** |
| Structured summary | 2 | Provide a structured summary that includes (as applicable): background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions that relate to the review questions and objectives. | 2 |
| **INTRODUCTION** |
| Rationale | 3 | Describe the rationale for the review in the context of what is already known. Explain why the review questions/objectives lend themselves to a scoping review approach. | 2 and 3 |
| Objectives | 4 | Provide an explicit statement of the questions and objectives being addressed with reference to their key elements (e.g., population or participants, concepts, and context) or other relevant key elements used to conceptualize the review questions and/or objectives. | 3 |
| **METHODS** |
| Protocol and registration | 5 | Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number. | 3 |
| Eligibility criteria | 6 | Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale. |  4 and Table 1 |
| Information sources\* | 7 | Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed. |  4 and Ho et al.. 2024 (see references)  |
| Search | 8 | Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated. |  Ho et al., 2024 (see references) |
| Selection of sources of evidence† | 9 | State the process for selecting sources of evidence (i.e., screening and eligibility) included in the scoping review. | 4 and 5 |
| Data charting process‡ | 10 | Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been tested by the team before their use, and whether data charting was done independently or in duplicate) and any processes for obtaining and confirming data from investigators. | 5 |
| Data items | 11 | List and define all variables for which data were sought and any assumptions and simplifications made. | 5 |
| Critical appraisal of individual sources of evidence§ | 12 | If done, provide a rationale for conducting a critical appraisal of included sources of evidence; describe the methods used and how this information was used in any data synthesis (if appropriate). |  N/A  |
| Synthesis of results | 13 | Describe the methods of handling and summarizing the data that were charted. | 5 |
| **RESULTS** |
| Selection of sources of evidence | 14 | Give numbers of sources of evidence screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally using a flow diagram. | 5 |
| Characteristics of sources of evidence | 15 | For each source of evidence, present characteristics for which data were charted and provide the citations. | 6 and 7 |
| Critical appraisal within sources of evidence | 16 | If done, present data on critical appraisal of included sources of evidence (see item 12). |  N/A  |
| Results of individual sources of evidence | 17 | For each included source of evidence, present the relevant data that were charted that relate to the review questions and objectives. | 6 and 7 |
| Synthesis of results | 18 | Summarize and/or present the charting results as they relate to the review questions and objectives. | 6 and 7 |
| **DISCUSSION** |
| Summary of evidence | 19 | Summarize the main results (including an overview of concepts, themes, and types of evidence available), link to the review questions and objectives, and consider the relevance to key groups. | 7 and 8 |
| Limitations | 20 | Discuss the limitations of the scoping review process. | 8 and 9 |
| Conclusions | 21 | Provide a general interpretation of the results with respect to the review questions and objectives, as well as potential implications and/or next steps. | 8 and 9 |
| **FUNDING** |
| Funding | 22 | Describe sources of funding for the included sources of evidence, as well as sources of funding for the scoping review. Describe the role of the funders of the scoping review. | 10 |

JBI = Joanna Briggs Institute; PRISMA-ScR = Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews.

\* Where *sources of evidence* (see second footnote) are compiled from, such as bibliographic databases, social media platforms, and Web sites.

† A more inclusive/heterogeneous term used to account for the different types of evidence or data sources (e.g., quantitative and/or qualitative research, expert opinion, and policy documents) that may be eligible in a scoping review as opposed to only studies. This is not to be confused with *information sources* (see first footnote).

‡ The frameworks by Arksey and O’Malley (6) and Levac and colleagues (7) and the JBI guidance (4, 5) refer to the process of data extraction in a scoping review as data charting*.*

§The process of systematically examining research evidence to assess its validity, results, and relevance before using it to inform a decision. This term is used for items 12 and 19 instead of "risk of bias" (which is more applicable to systematic reviews of interventions) to include and acknowledge the various sources of evidence that may be used in a scoping review (e.g., quantitative and/or qualitative research, expert opinion, and policy document).

*PRISMA-ScR Checklist:* Tricco AC, Lillie E, Zarin W, O'Brien KK, Colquhoun H, Levac D, et al. PRISMA Extension for Scoping Reviews (PRISMAScR): Checklist and Explanation. Ann Intern Med. 2018;169:467–473. [doi: 10.7326/M18-0850](http://annals.org/aim/fullarticle/2700389/prisma-extension-scoping-reviews-prisma-scr-checklist-explanation).

*Protocol:* Ho, E. H., Ece, B., Novack, M. A., Pila, S., Karpouzian-Rogers, T., Mather, M. A., et al. (2024). Protocol for a multi-domain scoping review to identify measures of decision-making ability in an ageing population. *BMJ Open* 14, e084178. doi: 10.1136/bmjopen-2024-084178

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