**Supplementary Material**

**Screening for Vision Impairments in Individuals with Dementia Living in Long-Term Care: A Scoping Review**

**MEDLINE Search Strategy**

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1 exp Vision Tests/

2 ((vision or visual or sight) adj2 (test\* or screen\* or assess\* or eval\*)).tw,kw.

3 exp Vision Disorders/di [Diagnosis]

4 exp Deaf-Blind Disorders/di

5 ("dual sensor\*" adj2 (test\* or screen\* or assess\* or eval\*)).tw,kw.

6 exp Visually Impaired Persons/

7 exp Diagnosis/

8 6 and 7

9 1 or 2 or 3 or 4 or 5 or 8

10 Long-Term Care/

11 long term care.tw,kw.

12 exp Nursing Homes/

13 nursing home\*.tw,kw.

14 Homes for the Aged/

15 old age home\*.tw,kw.

16 aged care facilit\*.tw,kw.

17 10 or 11 or 12 or 13 or 14 or 15 or 16

18 exp Dementia/

19 Delirium, Dementia, Amnestic, Cognitive Disorders/

20 (dement\* or alzheimer\*).mp,kw.

21 18 or 19 or 20

22 exp Neurodegenerative Diseases/

23 (degenerative adj2 neurologic adj2 (disorder\* or disease\*)).tw,kw.

24 (neurodegenerative adj2 (disorder\* or disease\*)).tw,kw.

25 22 or 23 or 24

26 exp aged/

27 (aged or elder or elderly or geriatric or older or senescent).tw,kw.

28 26 or 27

29 25 and 28

30 9 and 17

31 9 and 21

32 9 and 29

33 30 or 31 or 32

34 limit 33 to yr="1995 -Current"

**Supplementary Table 1**

Full list of studies included in the scoping review.

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| Authors | Year | Full citation (APA) |
| Cronin-Golomb | 1995 | Cronin-Golomb, A. (1995). Vision in Alzheimer's disease. The Gerontologist, 35(3), 370-376. |
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**Supplementary Table 3.** List of tests deemed unsuitable and the reasons why.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category of Test | Name of Test | Ability Tested | Citation Frequency | Reserved Act of Specialist | Specialized Equipment | Specialized Training | Complex Interpretation | Too Long | Not Commonly Used | Does Not Assess Vision | Research Only |
| Anatomy/Physiology | Ophthalmoscopy | Assessment of posterior and retinal structure and function, ideally through a dilated pupil but does not require a dilated pupil | 8 | X | X | X | X | X |  |  |  |
|  | Biomicroscopy | Assessment of anterior and posterior structures and function, ideally through a dilated pupil (mainly for anterior structures, does not require a dilated pupil for ant structures) | 12 | X | X | X | X | X |  |  |  |
|  | DFE (dilated fundus exam) | Assessment of posterior and retinal structure and function, through a dilated pupil | 5 | X | X | X | X | X |  |  |  |
|  | OCT/HRT/NFA | Medical imaging of the anterior and/or posterior structures | 10 |  | X | X | X | X |  |  |  |
|  | ERG | Measurement of electrical responses of retinal cells | 5 |  | X | X | X | X |  |  |  |
|  | VEP | Measurement of electrical responses (evoked potential) from brain in response to visual stimulus | 6 |  | X | X | X | X |  |  |  |
|  | A Scan | Ultrasound biometry used to determine axial length of eye | 1 |  | X | X | X |  |  |  |  |
|  | Pachymetry | Measurement of corneal thickness, requires anesthetic (some newer models do NOT require topical anesthetic) | 1 |  | X | X | X |  |  |  |  |
|  | Fundus photography | Photography of retinal and posterior structures | 1 |  | X | X | X |  |  |  |  |
|  | ICare | Measurement of intraocular pressure | 2 | X | X | X |  |  |  |  |  |
|  | Goldmann tonometry | Measurement of intraocular pressure, requires use of topical anesthetic | 6 | X | X | X |  |  |  |  |  |
|  | Tonopen | Measurement of intraocular pressure, requires use of topical anesthetic | 1 | X | X | X |  |  |  |  |  |
| Visual Acuity - Near | Reduced Snellen | Near vision at40cm, preferable with habitual refraction (with their glasses on), under good lighting and a glare-free condition | 5 |  |  |  |  |  |  |  |  |
|  | Sussex Vision Types | Near vision at 40cm, preferable with habitual refraction (with their glasses on), under good lighting and a glare-free condition | 1 |  | x |  |  |  | X |  |  |
|  | Jaeger acuity chart | Near vision at 40cm, preferable with habitual refraction (with their glasses on), under good lighting and a glare-free condition | 1 |  | X Not a standardized measure |  |  |  | x |  |  |
|  | Teller Cards | Near vision at 40cm, preferable with habitual refraction (with their glasses on), under good lighting and a glare-free condition | 1 |  | x |  |  |  | x |  |  |
|  | Lea Cards | Near vision at 40cm, preferable with habitual refraction (with their glasses on), under good lighting and a glare-free condition | 1 |  | x |  |  |  |  |  |  |
| Visual Acuity - Distance | Standard Clark Acuity Test | Distance vision, preferable with habitual refraction (with their glasses on), under good lighting and a glare-free condition, monocular ideal | 1 |  | x |  |  |  |  |  |  |
|  | Good Lite Sloan Letters | Distance vision, preferable with habitual refraction (with their glasses on), under good lighting and a glare-free condition, monocular ideal | 1 |  | x |  |  |  | X |  |  |
|  | Preschool Hand Chart | Distance vision, preferable with habitual refraction, under good lighting and glare free condition, monocular ideal, shows silhouettes of hands decreasing in size | 1 |  | X |  |  |  | X |  |  |
|  | Bailey-Lovie | Distance vision, preferable with habitual refraction (with their glasses on), under good lighting and a glare-free condition, monocular ideal | 1 |  | X |  |  |  |  |  |  |
|  | Stereo optical Optec 5500P  | Near or distance vision, preferable with habitual refraction (with their glasses on), under good lighting and a glare-free condition, monocular ideal, screener | 1 |  | X |  |  |  |  |  |  |
| Eye Movements | Saccades | Ability to visually jump from one target to another | 3 |  |  |  | X |  |  |  |  |
|  | Vergences | Ability to move eyes toward or away from each other | 1 |  | X | X | X |  |  |  |  |
|  | Cover tests | Assessment for strabismus or phorias | 1 |  |  | X | X |  |  |  |  |
|  | EMR-8 | Assessment of exploratory eye movements | 1 |  | X | X |  | X |  |  | X |
|  | Eyelink II: SR Research | Eye movement tracker | 1 |  | X | X |  | X |  |  | X |
|  | Lang I test | Assessment of stereopsis | 1 |  | X |  |  |  |  |  |  |
|  | Titmus Stereofly | Assessment of stereopsis | 2 |  | X |  |  |  |  |  |  |
|  | Randot | Assessment of stereopsis | 4 |  | X |  |  |  |  |  |  |
|  | TruTrack eye-tracking technology | Assessment of eye movements | 1 |  | X | X | X | X |  |  | X |
|  | Ocular motility assessment  |  |  |  |  |  |  |  |  |  |  |
| Refraction | Auto-refraction | Instrument to assess refractive error, objective assessment only | 2 |  | X |  | X |  |  |  |  |
|  | Refraction | Assessment of refractive error, typically obtaining both objective and subjective measures | 10 | X | X | X | X | X |  |  |  |
|  | Lensometry | Instrument to assess spectacle prescription in a pair of glasses | 2 |  | X | X | X |  |  |  |  |
| Visual Field | Double Confrontation | Visual field face to face using hands and objects presented in both fields simultaneously, also a test for extinction | 1 |  |  |  |  |  |  |  |  |
|  | Amsler | Central visual field assessment | 1 |  | X | X |  |  |  |  |  |
|  | Goldmann | Kinetic visual field assessment, manual assessment | 5 |  | X | X | X | X |  |  |  |
|  | FDT | Static visual field assessment, automated, screener  | 2 |  | X | X | X | X |  |  |  |
|  | Humphrey | Static visual field assessment, automated  | 8 |  | X | X | X | X |  |  |  |
|  | Octopus | Kinetic or static visual field assessment, manual and/or automated assessment | 2 |  | X | X | X | X |  |  |  |
|  | UFOV | Assessment of visual extent without eye or head movements, computer software | 4 |  | X | X | X |  |  |  |  |
| Color Vision  | PV-16 Choice test | Color arrangement test to detect color deficiencies | 1 |  | X |  | X |  |  |  |  |
|  | Hardy-Rand-Ritter Pseudometric plates | Assesses for presence of color deficiencies, congenital and acquired | 1 |  | X |  | X | X |  |  |  |
|  | Farnsworth D-15 | Color arrangement test to detect color deficiencies | 3 |  | X |  | X |  |  |  |  |
|  | Standard Pseudoisochromatic plates-2 | Assess for presence of color deficiencies, congenital | 1 |  | X |  |  |  |  |  |  |
|  | Lanthony New Color Test | Color arrangement test to detect color deficiencies | 2 |  | X |  | X | X |  |  |  |
|  | Colour Perception using Natural Color System Atlas plates | Assessment of color types | 1 |  | X |  |  |  |  | X |  |
|  | FM-100 | Color arrangement test to detect color deficiencies | 4 |  | X | X | X | X |  |  | X |
| Contrast Sensitivity | Pelli-Robson | Assesses the threshold between visible and invisible, letter chart of varying contrasts, 1m | 16 |  | X |  | X |  |  |  |  |
|  | Mars Perceptrix | Assesses the threshold between visible and invisible, letter chart of varying contrasts, 40cm | 4 |  | X |  | X |  |  |  |  |
|  | Vistech | Assesses the threshold between visible and invisible, grating chart of varying spatial frequencies, near or distance | 15 |  | X |  | X | X |  |  |  |
|  | Functional Acuity Contrast Test (FACT) | Assesses the threshold between visible and invisible, grating chart of varying spatial frequencies, distance | 2 |  | X |  | X | X |  |  |  |
|  | Regan Low Contrast | Assesses the threshold between visible and invisible, letter chart of varying contrasts, distance | 2 |  | X |  | X |  |  |  |  |
|  | Nicolet Vision Tester | Automated assessment of contrast sensitivity (Assesses the threshold between visible and invisible objects | 2 |  | X | X | X | X |  |  | X |
|  | Computerized Program - Unnamed |  | 3 |  | X | X | X |  |  |  | X |
|  | Freiburg Visual Acuity Test (VA and CSF) | Assesses the threshold between visible and invisible objects, Landolt-C chart of varying contrasts | 2 |  | X |  | X |  |  |  |  |
|  | Computerized VisTech | Assesses the threshold between visible and invisible objects, grating chart of varying spatial frequencies, near or distance | 1 |  | X | X | X |  |  |  | X |
|  | Melbourne Edge test | Assesses the threshold between visible and invisible, circular object with varied darkness on one half forming an edge | 1 |  | X |  | X |  |  |  |  |
| Critical Flicker Fusion | Leeds Psychometer | Critical flicker fusion threshold evaluation | 2 |  | X | X | X | X |  |  | X |
| Questionnaire | Neuropsychiatric Inventory Questionnaire | Assess dementia-related behavioral symptoms | 1 |  |  | X | X |  | X | X | X |
|  | NEVHI | Assess visual hallucinations in older people with eye disease and cognitive impairment | 2 |  |  | X | X |  | X |  | X |
|  | SSQoL | Assess health related quality of life in patients who have had a stroke, visual function asked | 2 |  |  | X | X |  | X |  | X |
|  | VVIQ | Vividness of Visual Imagery Questionnaire | 1 |  |  | X | X |  | X |  | X |
|  | Vision Scale | Designed to assess the severity of a patient's vision problems | 1 |  |  | X | X |  | X |  | X |
|  | Health Resources Measure | Assess the level of health-related resources among elderly | 1 |  |  |  |  |  |  | X | X |
|  | QWB-SA questionnaire | Quality of well-being self-administered questionnaire | 1 |  |  | X | X |  |  | X | X |
|  |  OARS Functional Impairment Measure | Older Adults and Resources | 1 |  |  |  |  |  |  | X | X |
|  | Activities of Daily Vision Scale | Assess visual function in respondents with cataracts | 1 |  |  | X | X |  | X |  | X |
|  | Disability Classification Index | Predictors of loneliness for those with low vision | 1 |  |  | X | X |  | X |  | X |
|  | NHV QoL | Vision-Targeted Health Related Quality of Life | 1 |  |  | X | X |  | X |  | X |
| Visual Perceptual Tests | Rey-Osterrieth | Neuropsychological assessment |  |  |  | X | X |  |  | X | X |
|  | 15-OT | Neuropsychological assessment | 6 |  |  | X | X |  |  | X | X |
| Uncommon in Optometry Use or as a Screening Tool  | OT-APST | Assessment of visual perception; particularly post-stroke | 1 |  |  | X | X |  |  | X | X |
|  | VOSP battery | Visual Object and Space Perception | 1 |  |  | X | X |  |  | X | X |
|  | Graded Naming test | Neuropsychological assessment; assess for impairment following brain injury | 2 |  |  | X | X |  |  | X | X |
|  | BORB | Birmingham Object recognition battery; Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | DTVP | Developmental Test of Visual Perception; for children | 1 |  |  | X | X |  |  | X | X |
|  | Visual Efficiency Scale | Assesses visual discrimination and visual perception, to determine the level of efficiency at which visual stimuli can be discriminated and perceived accurately | 1 |  |  | X | X |  |  | X | X |
|  | SFM | Perceived structure from motion | 4 |  |  | X | X |  |  | X | X |
|  | Multi-Target Visual Cancellation Test | Visual search; spatial attention; neglect | 4 |  |  | X | X |  |  |  |  |
|  | Benton Face Recognition | Neuropsychological assessment | 2 |  |  | X | X |  |  | X | X |
|  | Money Road-Map | Neuropsychological assessment | 2 |  |  | X | X |  |  | X | X |
|  | Luria Mental Rotation | Neuropsychological assessment | 2 |  |  | X | X |  |  | X | X |
|  | Stick Test | Neuropsychological assessment | 2 |  |  | X | X |  |  | X | X |
|  | Discrimination of Spatial Position | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Mooney Closure Faces | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | WAIS-R Picture Arrangement | Weschler Adult Intelligence Scale; neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Discrimination of Complex Figures | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Clock Drawing | assessment for cognitive impairment/dementia, spatial attention; neglect | 1 |  |  | X | X |  |  |  |  |
|  | Object recognition portion of CAMCOG | Cambridge cognition evaluation; neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Newcastle visuoperceptual battery | Neuropsychological assessment; assessment for dementia | 1 |  |  | X | X |  |  | X | X |
|  | Ghent’s overlapping figure test | Neuropsychological assessment | 4 |  |  | X | X |  |  | X | X |
|  | Gottschaldts hidden figure | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Columbia Mental Maturity | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Visual Motion Coherence Thresholds | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Judgement of Line orientation | visuospatial perception; neglect | 1 |  |  | X | X |  |  |  |  |
|  | Facial recognition-unspecified | Neuropsychological assessment | 2 |  |  | X | X |  |  | X | X |
|  | Figural Memory Test | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Real World navigation | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Boston Naming Test | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Block Design of WAIS-R | Weschler Adult Intelligence Scale; neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Benton Visual Retention | Neuropsychological assessment | 4 |  |  | X | X |  |  | X | X |
|  | Trail-making | Neuropsychological assessment; visual attention; driving ability | 1 |  |  | X | X |  |  | X | X |
|  | Cortical vision screening tool | CORVIST; detects visual impairments in individuals with normal vision | 3 |  |  | X | X |  |  | X | X |
|  | Backward Masking | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Gollin Incomplete Pictures | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Contour Integration Tests- Gabor | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Line Bisection | visuospatial perception; neglect | 2 |  |  | X | X |  |  |  |  |
|  | Wepman’s visual discrimination | Neuropsychological assessment | 2 |  |  | X | X |  |  | X | X |
|  | Stoop color and word test | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |
|  | Cancellation Tasks- unspecified | Visual search; spatial attention; neglect | 3 |  |  | X | X |  |  |  |  |
|  | Starry Night Task | Visual search; spatial attention; neglect | 2 |  |  | X | X |  |  |  |  |
|  | Visual Discrimination- unspecified | Neuropsychological assessment | 4 |  |  | X | X |  |  | X | X |
|  | Space and motion Perception - unspecified | Neuropsychological assessment | 1 |  |  | X | X |  |  | X | X |