[ReadMe file](http://reshare.ukdataservice.ac.uk/help/index.html) for the entire collection

1. Individual interviews

PS3 demographic data:

Demographic data for 37 dyads who participated in individual and dyadic interviews at home. Participants labelled with 5 letter codes and corresponding data can be found in ‘ESRC ps3 field notes pt. 1’, ‘ESRC ps3 field notes pt. 2’, ‘PS3 individual scale items and neuropsych’ ‘PS3\_photosanon’ and ‘PS3 interviews.zip’.

PS3 individual scale items & neuropsych:

Data for 37 dyads on the following scales: QoL-AD, Johnson Activities of Daily Living, Dyadic Relationship Scale and Zarit Burden Interview and the following neuropsychology tests including the following: MMSE, short recognition memory test words/faces, concrete synonyms, naming, cognitive estimates, A cancellation, calculation, spelling, reading, gesture production, digit span, visual acuity, crowding, figure ground, shape discrimination, hue discrimination, number location, dot counting, object decision, fragmented letters, usual/unusual views. Participants labelled with 5 letter codes and corresponding data can be found in ‘ESRC ps3 field notes pt. 1’, ‘ESRC ps3 field notes pt. 2’, ‘PS3 demographic data’, ‘PS3\_photosanon’ and ‘PS3 interviews.zip’.

PS3 interviews.zip

Transcripts of 37 sets of individual and dyadic interviews. Files labelled PS3[number identifier]A/B/C. Numbers 800-819 are people with PCA, numbers 783-799 are people with typical Alzheimer’s disease. A=person with dementia, B=carer/family member and C=dyadic interview. All names and places names changed. Numbers correspond to 5 letter codes as follows:

|  |  |
| --- | --- |
| 799 | DOYDA |
| 798 | CASCO |
| 797 | THOMA |
| 796 | SHAGI |
| 795 | CRASA |
| 794 | GIBLE |
| 793 | HAGDA |
| 792 | MCIIA |
| 791 | HARRO |
| 790 | FRAEL |
| 789 | PADSY |
| 788 | CHADI |
| 787 | STACH |
| 786 | FRAPA |
| 785 | TOWRO |
| 784 | HARJA |
| 783 | PAGJE |
| 800 | CAREL |
| 801 | BREIR |
| 802 | BROAN |
| 803 | CONJO |
| 804 | STAPH |
| 805 | WILAN |
| 806 | LEVVI |
| 807 | ARMRO |
| 808 | ALBWE |
| 809 | WOOEL |
| 810 | MANBE |
| 811 | CAPLI |
| 812 | MOFGE |
| 813 | ODESH |
| 814 | DEWMO |
| 815 | JARTH |
| 816 | ADDCH |
| 817 | REPGE |
| 818 | UPTHO |
| 819 | KERKE |

Corresponding data can be found in ‘ESRC ps3 field notes pt. 1’, ‘ESRC ps3 field notes pt. 2’, ‘PS3 demographic data’ and ‘PS3 individual scale items & neuropsych’ and ‘PS3\_photosanon’.

1. Focus groups

PS3\_focusgroup\_carehome.zip: care home professionals focus groups

Professionals\_interviews.zip: professional focus groups involving the following:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **PROFESSION/****DISCIPLINE** | **INTERVIEW/ FOCUS GROUP** | **NUMBER OF PARTICIPANTS** | **ONLINE / FACE TO FACE** |
| NHFG1 | Nursing /care staff | Focus Group | 5 | Face to face |
| NHFG2 | Nursing /care staff | Focus Group | 9 | Face to face |
| SWFG3 | Social Work | Focus Group | 10 | Face to face |
| SWOTFG4 | Social Work/ Occupational Therapist | Focus Group | 9 | Face to face |
| OTFG5 | Occupational Therapist | Focus Group | 10 | Face to face |
| ROVIFG6 | Visual Impairment Rehabilitation Officers | Focus Group | 7 | Face to face |
| OTFG7 | Occupational Therapist | Focus Group | 2 | ONLINE |
| AC1 | Activities Co-ordinator | Interview | 1 | Face to face |
| OP1 | Optometrist | Interview | 1 | ONLINE |
| OP2 | Optometrist | Interview | 1 | ONLINE |
| OT1 | Occupational Therapist | Interview | 1 | ONLINE |
| OT2 | Occupational Therapist | Interview | 1 | ONLINE |
| OT3 | Occupational Therapist | Interview | 1 | ONLINE |
| ROVI1 | Visual Impairment Rehabilitation Officer | Interview | 1 | ONLINE |
| ROVI2 | Visual Impairment Rehabilitation Officer | Interview | 1 | ONLINE |
| AN1 | Admiral Nurse | Interview | 1 | ONLINE |
| AN2 | Admiral Nurse | Interview | 1 | ONLINE |

1. Questionnaire measures

200117 PS3 demographics scales neuropsych.xlsx: Activities of daily living, quality of life and carer burden questionnaire measures (see point 10. Questionnaire list).

1. Neuropsychological assessments

SWTS\_psych.xlsx

* MiniMental State; MMSE (Folstein & McHugh, 1975)
* Short Recognition Memory Test for faces/words (Warrington, 1996): task involved 1) learning of faces through visual presentation and words through joint auditory and visual presentation and 2) subsequent identification of faces/words from 1) paired with distractor faces/words.
* Concrete Synonyms (Warrington et al., 1998): for each target word participants were requested to identify which of two semantically-related words were closest in meaning to the target. All words were of high concreteness.
* Graded Naming Test: all participants were requested to name objects of decreasing frequency from their verbal description.
* Cognitive estimates (Shallice & Evans, 1978): this task involved participants estimating answers to questions which can be effectively guessed using general knowledge.
* Calculation (Graded Difficulty Arithmetic: Jackson & Warrington, 1986)
* Spelling (Graded Difficulty Spelling Test: Baxter & Warrington, 1994)
* Gesture production test (Crutch, unpublished): this task involved pantomiming the use of objects (joint auditory and visual presentation) and replicating experimenter’s gestures.
* Digit Span (forwards/backwards)
* Single Word recognition from the Cortical Visual Screening Test (CORVIST; James et al., 2001)
* Visual acuity test (CORVIST): task required discrimination of squares, circles and triangles at decreasing stimulus sizes corresponding to Snellen form acuity levels ranging from visual acuity of 6/9 to 6/36.
* Shape detection test from the Visual Object and Shape Perception battery (VOSP; Warrington and James, 1991): Figure-ground discrimination task involving random black pattern stimuli (N=20), half with a degraded ‘X’ superimposed. Patients were requested to state whether an “X” was present.
* Shape discrimination: The stimuli (N = 60) for this boundary detection task, adapted from Efron (1968), were a square (50 x 50 mm) or an oblong matched for total flux. There were three levels of difficulty: oblong edge ratio 1:1.63 (Level I), 1:1.37 (Level II), and 1:1.20 (Level III). The task was to discriminate whether each shape presented was a square or an oblong.
* Hue discrimination (CORVIST): The stimuli (N=4) comprised nine colour patches, eight of the same hue but varying luminance and one target colour patch of a different hue.
* Object Decision (VOSP): Stimuli (N=20) each comprise of four silhouette images, one of a real object (target) plus three non-object distractors.
* Fragmented Letters (VOSP): Participants were asked to identify visually degraded letters (N=20).
* Unusual and usual views (Warrington and James, 1988): Participants were asked to identify photographs of real objects (N=20) pictured from an ‘unusual’, non-canonical perspective. Items not identified from the non-canonical perspective are subsequently re-presented photographed from a more ‘usual’, canonical perspective.
* Number location (VOSP): Stimuli (N=10) consist of two squares, the upper square filled with Arabic numerals in different positions, and the lower square with a single black dot. Participants are requested to identify the Arabic numeral whose spatial position corresponds to that of the target dot.
* Dot counting (VOSP): Stimuli (N=10) are arrays of 5-9 black dots on white background. Participants were asked to count the dots as quickly as possible without touching stimuli.
* A Cancellation (Willison and Warrington, 1992): Participants were requested to mark as quickly as possible with a pencil the location of 19 targets (letter As) presented among distractors (letters B-E) in a grid on an A4 sheet.
1. Eye tracking data

Ph1 Biao's fixation analysis

Matlab codes and tables used for fixation analysis in phase 1 experiment.

Ph1 Data processing from raw data

Matlab codes and tables used for preliminary analysis from raw data (Xsens and ETG) in phase 1 experiment.

Ph1 Discrepancy value for synchronising

Matlab codes and results used for synchronising Xsens and ETG data of phase 1 experiment.

1. Home based photographs

PS3\_photosanon

Photos from series of 37 sets of individual and dyadic interviews in participants’ homes. Files named with 5 letter code and corresponding data can be found in ‘ESRC ps3 field notes pt. 1’, ‘ESRC ps3 field notes pt. 2’ and ‘PS3 demographic data’, ‘PS3 individual scale items & neuropsych’ and ‘PS3 interviews.zip’.

1. Movement and location sensor data

Ph2 Script

Matlab codes and tables used for extracting time factors from Xsens and lightgate data in phase 2 experiment.

Ph2-3 Lightgate arduino script

Arduino code used for measuring time when participant crossing lightgate in phase 2 experiment.

Ph3 packing script

Matlab codes used for preliminary data processing and storing in matlab data format for phase 3 experiment.

Xsens2\_in.m

Inputs Xsens data from text files and passes values for x, y and z acceleration, and roll, pitch and yaw to the main program

Rotation.m

applies a 3D rotational matrix to raw acceleration data to convert acceleration from local coordinates to laboratory coordinates

Steps.m

Defines swing and stance phases of walking from the resultant acceleration

Vel\_drift.m

corrects velocity for drift by identifying zero velocity periods when foot is at rest.

1. Home based observational and Empatica data.

Home observation field notes:

Typed up observational field notes from the all-day observation including time log (brief version and detailed version), miscellaneous extras, room layout, field notes, reflexivity notes for the 20 participants who took part in a one day all-day home-based observation. Files named using 5 letter code and corresponding data can be found in ‘Photos for ESRC upload’, ‘SWTS home observations neuropsych’ and ‘SWTS home observations scale data demographics luminance room dimensions and Empatica IDs’.

Empatica data home observations:

Zip files of heart rate, electro-dermal activity, accelerometer and temperature data from Empatica E4 wristbands for 20 participants who took part in a one day all-day home-based observation. Files named with session IDs which are indexed on a tab of the spreadsheet ‘SWTS home observations scale data demographics luminance room dimensions and Empatica IDs’ (detailed below).

SWTS home observations neuropsych:

Data for 20 individuals who took part in one day all-day home-based observation on neuropsychology tests including: MMSE, short recognition memory test for words, naming, dot counting, digit span, visual acuity, figure ground, fragmented letters. Participants labelled with 5 letter codes and corresponding data can be found in: ‘Empatica data home observations’, ‘Home observation field notes’, ‘Photos for ESRC upload’ and ‘SWTS home observations scale data demographics luminance room dimensions and Empatica IDs’.

Photos for ESRC upload:

Photos from series of 20 one day all-day home-based observations. Files named with 5 letter code and corresponding data can be found in ‘Home observation field notes’, ‘SWTS home observations neuropsych’ and ‘SWTS home observations scale data demographics luminance room dimensions and Empatica IDs’.

SWTS home observations scale data demographics luminance room dimensions and Empatica IDs:

Demographic data for 20 individuals who took part in a one day all-day home-based observation. Data for the same participants on the following questionnaires: QoL-AD, Johnson Activities of Daily Living, 2 items of Bristol Activities of Daily Living (mobility and transfers) and Neuropsychiatric Inventory Questionnaire. Room dimensions and luminance levels measured at two time points during the all-day observations for all participants. Index of session IDs for Empatica data to be used in reference to ‘Empatica data home observations’. Participants labelled with 5 letter codes and corresponding data can be found in: ‘Empatica data home observations’, ‘Home observation field notes’, ‘Photos for ESRC upload’ and ‘SWTS home observations neuropsych’.

1. Empatica pilot data for gallery tour.

Empatica data gallery tour pilots:

Zip files of heart rate, electro-dermal activity, accelerometer and temperature data from Empatica E4 wristbands for 4 participants (2 people with dementia and 2 carers) who completed a tour of the Wellcome Collection Medicine Man gallery in pairs. Files names with Empatica device IDs.

1. Questionnaire list.

Home observation scales:

Questionnaires (blank) used for home-based observations (QoL-AD, Johnson Activities of Daily Living, 2 items of Bristol Activities of Daily Living (mobility and transfers) and Neuropsychiatric Inventory Questionnaire).

PS3 Scales:

Questionnaires (blank) used for data collection in individual and dyadic interviews (QoL-AD, Johnson Activities of Daily Living, Dyadic Relationship Scale and Zarit Burden Interview).

1. Information sheets and consent forms.

Patient and carer PIS and consent forms for principal and sub studies

Professionals’ information sheet and consent form:

1. Datalist.

PS3 and home observations data list:

Identifiers and key information for participants who took part in dyadic interviews and home-based observations.

1. ReadMe file.