

UK Biobank

Order of Data Collection

Version 1.0

<http://www.ukbiobank.ac.uk/>

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This document lists the points during the UK Biobank Assessment Centre visit when data are collected and stored. The purpose of this is to show the order in which data are collected and to demonstrate how they can inform later stages of the Assessment visit.

Order of data collection in a UK Biobank Assessment Centre visit

Stage	Visit station	Data received
1	Reception	<ul style="list-style-type: none"> Arrival is logged onto Porto using 9-digit participant ID Blank USB loaded with details and handed to participant <p>Consent</p> <ul style="list-style-type: none"> Participant agrees (or disagrees) with statements on consent screen Participant signs using signature pad (or paper form, or gives verbal, witnessed consent if unable to write) Staff signs off the consent form
2	Touch Screen	<p>Touch screen questionnaire</p> <ul style="list-style-type: none"> Participant completes questionnaire Participant selects whether they can hear on left only, right only, and whether they can or cannot do the hearing test <p>Hearing and Cognitive function tests</p> <ul style="list-style-type: none"> Test of hearing discrimination Touchscreen test of memory (shape) (answered after 'snap') Touchscreen test of memory (pairs) Touchscreen test of fluid-intelligence Touchscreen test of reaction time (snap) Touchscreen test of memory (shape) (answer given)
3	Interview & blood pressure	<p>1st Interviewer questionnaire</p> <ul style="list-style-type: none"> Record made of whether aide memoire questionnaire is completed Residence at birth recorded, if participant from Great Britain Country of birth recorded if outside Great Britain Birth weight recorded Job title recorded <p>1st Blood pressure measurement</p> <p>2nd Interviewer questionnaire</p> <ul style="list-style-type: none"> Cancers recorded with year / age at diagnosis Serious illnesses recorded with year / age at diagnosis Operations recorded with year / age at operation Current medications recorded <p>Pulse wave velocity measured (Arterial stiffness)</p> <p>2nd Blood pressure measurement</p>
4	Ocular	<ul style="list-style-type: none"> Reason recorded if eye measurement is not attempted Eye surgery within last 4 weeks recorded – if so no measurement is made Recorded whether left and / or right eyes present or missing Recorded whether infectious eye condition – if so only visual acuity is measured <p>Visual acuity</p> <ul style="list-style-type: none"> Smallest correct letter recorded LogMar measurement recorded <p>Auto-refraction</p> <ul style="list-style-type: none"> Right eye first, then left; no more than 3 attempts per eye, Data collected by direct entry <p>Intra-ocular pressure</p> <ul style="list-style-type: none"> Data collected by direct entry <p>Optic imaging (enhancement from end of 2009)</p>

		<ul style="list-style-type: none"> • Right eye imaged first ; exported to Vox • Left eye imaged; exported to Vox <p>Retinal photography</p> <ul style="list-style-type: none"> • Concomitant with optic imaging
5	Physical measurements	<p>Hand-grip strength</p> <ul style="list-style-type: none"> • 3-second grip measured for right hand in whole kg force units – entered into computer manually • Measurement is repeated for left hand <p>Hip & waist measurement</p> <ul style="list-style-type: none"> • Waist measurement– entered into computer manually • Hip measurement– entered into computer manually <p>Height</p> <ul style="list-style-type: none"> • Height measured to nearest centimetre– entered into computer manually • Sitting height measured using 30 cm, 40 cm or 50 cm seat. Measured to nearest centimetre and entered into computer manually with height of seat <p>Bio-impedance measurement (body composition)</p> <ul style="list-style-type: none"> • Recorded whether participant has pacemaker or is pregnant – if so standard scales only are used and weight entered into computer manually • Tanita results recorded directly in Vox <p>Heel-bone ultrasound</p> <ul style="list-style-type: none"> • Recorded on Vox whether participant can have both left and right measurements • Left heel ultrasound measured first • Right heel ultrasound is then done as for left <p>Spirometry</p> <ul style="list-style-type: none"> • Contra-indications for spirometry are recorded on Vox • Recorded whether participant has had a caffeine drink, used an inhaler or smoked in the last hour • Direct entry between spirometry device and Vox • 2 blows are initiated; Computer compares reproducibility of 2 blows, then if $\leq 5\%$ difference in FVC and FEV indicates 3rd blow not required • If necessary, flow curves are reviewed on screen, then 3rd blow initiated
6	Cardio (ECG)	<ul style="list-style-type: none"> • Recorded whether some prior stages have not been completed (necessary for calculating risk category) • Answers recorded to screening questions for calculation of risk category and target work rate by Vox • Reasons recorded why if resting ECG is performed rather than active ECG • Reasons recorded why if ECG is not performed • Risk category 1,2 or 3 participants attached to ECG and measurement recorded on bike; Data entry from ECG is direct to Vox • Risk category 4 participants attached to ECG and measurement recorded at rest direct to Vox • Risk category 5 participants and others not performing ECG proceed to Exit • Reasons why test was not completed are input as text into Vox
7	Sample collection & exit	<ul style="list-style-type: none"> • Blood sample collected • Urine sample sought • Saliva sample sought
8	Diet questionnaire	<ul style="list-style-type: none"> • Web-based questionnaire