UK BIOBANK

Assessment Centre Environment

Version 1.0

http://www.ukbiobank.ac.uk/ 13th May 2011

This manual contains background information on the computing system, facilities and history of changes at UK Biobank Assessment Centres

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1. History of changes to UK Biobank

Since the Pilot study in March-June 2006, some enhancements and additional measures were introduced to the UK Biobank Assessment Visit. The timing of these introductions is reflected in the number of data points available for each field. Table 1 shows the Version History of UK Biobank, listing the dates and measures introduced. Since each version was rolled out to Assessment Centres gradually the dates they were in use may overlap.

Table 1: History of changes to Assessment Visit:

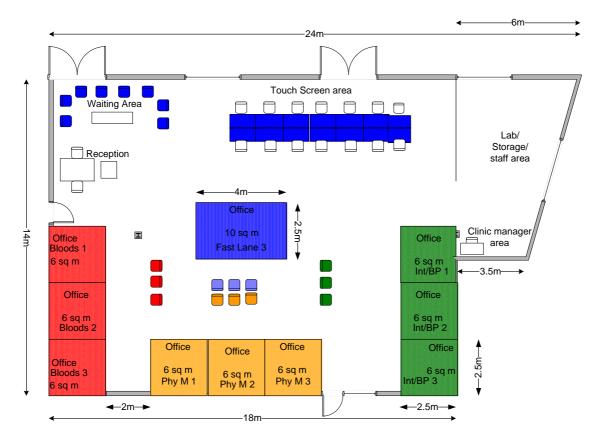
Version	When in use	Changes from previous version		
	March - June			
Pilot	2006.			
		Revisions to questionnaire		
		Windows visual memory test removed		
		Snap duration reduced		
		Verbal fluency replaced with equivalent test		
	April to	Spirometry enhanced, with added demo video		
V1.2.3	September 2007.	Blood station enhanced with alert for processing		
		Participants able to correct details during Welcome/Consent		
	July to September	Staff able to make notes resulting from Physical Measures,		
V1.3.3	2007.	Blood, and Conclude stations		
		Touch screen questionnaire:		
		Added questions on Depression & Bipolar disorder; Self-		
		reported happiness; Domestic Heating, Private healthcare,		
		Claudication, Number of older siblings; Sudden death in family;		
		Alcohol in average month; Email address check; Cochlear implant		
		Removal of questions on Parents' 1 st name and month/year of		
		their birth		
		Category 1 enhancements:		
		Hearing test using touchscreen questionnaire introduced		
		Numeric memory test introduced		
		Fluid intelligence test introduced		
		Prospective memory test introduced		
		Pulse wave velocity (arterial stiffness) measured		
V1.4.01	April to July 2009.	Heel bone ultrasound changed from one to both feet		

Version	When in use	Changes from previous version	
		Web-based diet questionnaire introduced	
		Numeric memory test removed	
		Linkage made from employment question (D9) in Touch screen	
		to Interviewer Questionnaire	
		Additional questions relating to eye conditions and disease:	
		Which eye affected and age when affected	
		Category 2 enhancements:	
		Eye related measures introduced: Refraction, IOP, Visual acuity	
	August 2009 to	RNA analysis of extra blood sample introduced	
V1.5.04	February 2010	Saliva sample introduced	
		Category 2 enhancements:	
V1.6.10	December 2009	OCT eye measure introduced	
	to October 2010	Physical fitness (cardio station) introduced	

2. Typical layout of Assessment Centre

A typical Assessment Centre contains the offices and stations shown in Figure 1:

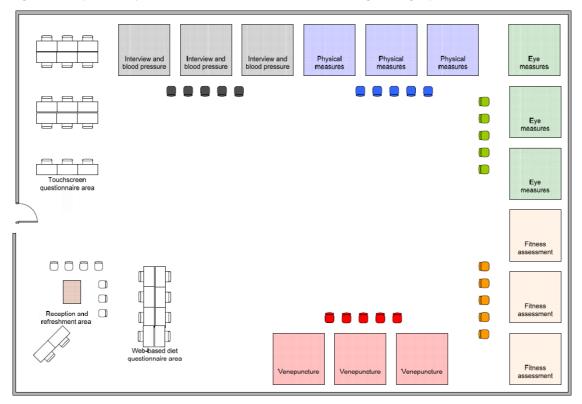
Figure 1: Typical layout of Assessment Centre



In addition, Centres contain a 'Super' station, which is an additional booth to facilitate wheelchair-bound participants and can be used for all stations except eye measurements. Also, a separate training booth is used to train staff, for all except eye measurements.

Following the Category 1 and 2 enhancements the number of offices and stations were increased to: 3-5 of each of the: Interview, Eye, Physical Measurements, Physical Fitness and Blood stations, and the added Web-based Diet Questionnaire station (figure 2):

Figure 2: Typical layout of Assessment Centre following Category 1 and 2 enhancements



3. Assessment Centre Environment (ACE) Software

Five separate 'configurations' of the ACE software each include different modules (table 2).

Table 2: ACE Functionality

Configuration	Stations	Modules included
Porto	Reception	Welcome
		Conclude
		Redo key
		Erase key
Tactus	Touchscreen	Cognitive
		Consent
		Questionnaire
Vox	Interview	Interview & BP
	Ocular	Ocular:
		- Visual acuity
		- Auto-refraction
		- Intra-ocular
		Biometrics
		Cardio
	Biometrics	Blood collection
	Cardio (ECG)	Urine collection
	Blood collection	Saliva collection
Spectare	Sample handling	Sample handling
Head	Head	Central synchronisation

4. Cleaning rules at Assessment Centres

At the end of the day all equipment and surfaces are cleaned with Azowipes.

If required to touch a participant the staff wear gloves, which are changed after each participant.