

**Year-by-Year Measurements in the Health ABC Study
(Revised 3/22/06)**

Exam Components	Year 1 (1997-1998)	Year 2 (1998-1999)	Year 3 (1999-2000)	Year 4 (2000-2001)	Year 5 (2001-2002)	Year 6 (2002-2003)	Year 7 (2003-2004)	Year 8 (2004-2005)	Year 9 (2005-2006)	Proposed Year 10 (2006-2007)
Anthropometry										
- Circumferences										
- Abdominal circumference	X					X				
- Sagittal diameter	X									
- Thigh circumference	X					X				
- Height, sitting	X									
- Height, standing	X			X		X		X		X
- Weight	X	X	X	X	X	X		X		X
Arterial venous blood gas			X							
Arterial pulse wave velocity	X									
Blood collection								X (fasting) (No central assays)		X (fasting)
Assays	X	X	X	X		X				
- 2-hour glucose (after gluco)la	X									
- Albumin	X									
- Alkaline phosphatase	X									
- Blood count			X							
- Cholesterol, total	X	X		X		X		Lipid panel, local		
- Cholesterol, HDL	X					X		Lipid panel, local		
- Cholesterol, LDL	X					X		Lipid panel, local		
- Creatinine	X									
- Cytokine assays										
- CRP	X					*X				
- IL-6	X					*X				
- IL-6sr	X (subset)									
- IL-2sr	X (subset)									
- Leptin	X									
- PAI-1	X									
- TNFa	X									
- TNF-RI	X (subset)									
- TNF-RII	X (subset)									
- Fasting glucose	X	X		X		X				
- Fasting insulin	X					*X				
- Free T4 value (sample assayed for when TSH value is an alert)		X								
- Hemoglobin A1C	X			X		X				
- o-LDL	X									
- Thyroid stimulating hormone		X								
- Triglycerides	X					X				
Stored	X	X	X	X		X				X (4 vials of 0.5 ml serum; 4 vials of 0.5 ml plasma)
- Buffy coat	X					X				
- Citrate	X	X								
- Cryopreserved buffy coat		X								
- EDTA plasma	X	X		X		X				
- PAXgene (for mRNA analysis)								X		X
- Platelets		X								
- RBC	X									
- SCAT-1	X									
- Serum	X	X	X	X	X (WCFU/FV)	X				
- Vitamin C		X								

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Blood pressure										
- Ankle-arm blood pressure	X			X						
- Blood pressure, seated	X	X	X	X	X	X		X		X
- Blood pressure, standing	X	X		X		X				
Brain MRI										**X (Pittsburgh only)
Cognitive assessment										
- CLOX 1			X		X			X		X
- Digit symbol substitution (DSST)	X				X		X (subset)	X	X (subset)	X
- Exit 15			X							
- Rapid Estimate of Adult Literacy in Medicine (REALM)			X							X
- Teng Mini-Mental State (3MS)	X		X		X		X (subset)	X	X (subset)	X
- Cognitive vitality substudy			X (subset)		X (subset)		X (subset)		X (subset)	
- Buschke Selective Reminder Test (SRT)			X (subset)		X (subset)		X (subset)		X (subset)	
- Activity assessment			X (subset)		X (subset)		X (subset)		X (subset)	
- Social contact			X (subset)		X (subset)		X (subset)		X (subset)	
- Personality assessment			X (subset)				X (subset)		X (subset)	
- Cognitive vitality questionnaire					X (subset)		X (subset)		X (subset)	
- Boxes test			X (subset)		X (subset)		X (subset)		X (subset)	
- Digit copying test			X (subset)		X (subset)		X (subset)		X (subset)	
- Pattern comparison test			X (subset)		X (subset)		X (subset)		X (subset)	
- Letter comparison test			X (subset)		X (subset)		X (subset)		X (subset)	
- Simple reaction time test			X (subset)		X (subset)		X (subset)		X (subset)	
- Digit digit test			X (subset)		X (subset)		X (subset)		X (subset)	
- Digit symbol test			X (subset)		X (subset)		X (subset)		X (subset)	
Computed tomography (CT)										
- CT - abdominal fat	X					X				X (Pittsburgh only)
- CT - thigh muscle	X					X				X (Pittsburgh only)
- CT - spine CT scout (T4 thru upper sacrum)	X					X				X (Pittsburgh only)
- CT - vertebral BMD	X (subset)					X (subset)				X (Pittsburgh only)
Dental/periodontal exam		X	X (con't)							
Dietary assessment (food freq)		X	X (subset)							
DXA										
- DXA, hip	X		X		X	X (if not obtained in Y5)		X		X
- DXA, whole body	X	X	X	X	X	X		X		X
ECG, resting	X			X						
Energy expenditure										
- Doubly-labeled water		X (subset)	X (subset)							**X (subset)
- Resting metabolic rate		X (subset)	X (subset)							**X (subset)
Flexibility "sit and reach"						X				
Flu substudy				X (subset)	X (subset)					
Hearing - audiometric testing					X					
Joint evaluation		X								
- Hands		X								
- Hip, internal rotation		X				X				
- Knee crepitus		X	X (HV only)	X (HV only)	X	X (HV only)				

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Medication inventory	X	X	X		X	X		X (prescription only; streamlined)		X (prescription only; OTC if funded?)
Olfaction			X							
Osteoarthritis assessment										
- Knee MRI		X (subset)	X (subset)		X (subset)	X (subset)				
- Knee x-ray		X (subset)	X (subset)	X (subset)	X (subset)	X (subset)				
Performance measures										
- 4-meter walk		X (HV only)	X (HV only)	X (HV only)	X(HV/FV only)	X(HV only)		X(HV only)		X(HV only)
- 20-meter walk	X	X	X	X	X	X		X		X
- Balance walks	X			X		X				X
- Usual pace walk	X			X		X				X
- 20 cm narrow walk	X			X		X				X
- Chair stands	X	X (HV only)	X (HV only)	X	X(HV/FV only)	X		X		X
- Finger tapping	X									
- Grip strength	X	X	X (HV only)	X	X(HV/FV only)	X		X		X
- Isokinetic ankle strength (Kin-Com)					X					
- Isokinetic muscle fatigue (Kin-Com)			X							
- Isokinetic quad strength (Kin-Com)	X	X		X		X		X		X
- Isometric strength (Litek chair)			X	X (HV only)	X(HV/FV only)	X (and HV)				
- Long distance corridor walk (400-m)	X	X		X		X		X		X
- Standing balance								X		X
- Semi-tandem stand	X	X (HV only)	X (HV only)	X	X(HV/FV only)	X		X		X
- Tandem stand	X	X (HV only)	X (HV only)	X	X(HV/FV only)	X		X		X
- One-leg stand	X	X (HV only)	X (HV only)	X	X(HV/FV only)	X		X		X
Peripheral neuropathy										
- Monofilament				X						**X
- Peroneal motor nerve conduction				X						**X
- Vibration perception				X						**X
Pulmonary function test	X				X			X (HV also)		X (HV also)
Radial pulse		X	X	X (HV only)	X(HV only)			X		X
Respiratory rate		X								
Temperature		X								
Ultrasound of heel		X	X (HV only)	X (HV only)	X	X (HV only)				
Urine collection and storage										
- Urine, acidified	X	X								
- Urine, plain	X	X								
Vision										
- Bailey-Lovie distance visual acuity			X							
- Frisby stereo test			X							
- Pelli-Robson contrast sensitivity			X							
Weight change substudy				X (subset)	X (subset f/u only)					