

**Health ABC Examination Measures and Frequency**  
(Revised 9/19/13)

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)	Year 10 (2006-2007)	Year 11 (2007-2008)	Year 12 (2008-2009)	Year 13 (2009-2010)	Year 14 <sup>7</sup> (2010-2011)	Year 15 <sup>7</sup> (2011-2012)	Year 16 (2012-2013)
<b>Anthropometry</b>																
- Circumferences																
- Abdominal circumference	X					X										
- Sagittal diameter	X															
- Thigh circumference	X					X										
- Height, sitting	X															
- Height, standing	X			X		X		X		X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
- Weight	X	X	X	X	X	X		X		X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
<b>Arterial venous blood gas</b>			X													
<b>Arterial pulse wave velocity</b>	X															
<b>Biospecimen collection</b>																
<b>Blood</b>																
<b>Assays</b> Refer to Biospecimen Tracking Log on internal Health ABC website for list of assays																
<b>Stored, blood</b>	X	X	X	X		X										
- Buffy coat	X					X		X		X						
- Citrate	X	X						X								
- Cryopreserved buffy coat		X	X <sup>6</sup>													
- DNA	X															
- EDTA plasma	X	X		X		X				X						X <sup>10</sup>
- PAXgene (for mRNA analysis)								X		X						
- Platelets		X														
- RBC	X															
- SCAT-1	X															
- Serum	X	X	X	X	X <sup>2/3</sup>	X				X	X					X <sup>10</sup>
<b>Urine collection and storage</b>																
- Urine, acidified	X	X														
- Urine, plain	X	X														
<b>Blood pressure</b>																
- Ankle-arm blood pressure	X			X							X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			
- Blood pressure, seated	X	X	X	X	X	X		X		X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
- Blood pressure, standing	X	X		X		X										
<b>Dental/periodontal exam</b>		X	X <sup>6</sup>													
<b>ECG, resting</b>	X			X												
<b>Energy expenditure</b>																
- Accelerometry										X <sup>1</sup>						X
- Doubly-labeled water		X <sup>1</sup>	X <sup>1/6</sup>							X <sup>1</sup>						
- Resting metabolic rate		X <sup>1</sup>	X <sup>1/6</sup>							X <sup>1</sup>						
<b>Hearing - audiometric testing</b>					X											

**Health ABC Examination Measures and Frequency**  
(Revised 9/19/13)

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)	Year 10 (2006-2007)	Year 11 (2007-2008)	Year 12 (2008-2009)	Year 13 (2009-2010)	Year 14 <sup>7</sup> (2010-2011)	Year 15 <sup>7</sup> (2011-2012)	Year 16 (2012-2013)
<b>Imaging</b>																
<b>- Computed tomography (CT)</b>																
- CT - abdominal fat and muscle	X					X				X <sup>1/5/8</sup>	X <sup>1/5/6/8</sup>					X <sup>10/11</sup>
- CT - thigh fat and muscle	X					X				X <sup>1/5/8</sup>	X <sup>1/5/6/8</sup>					X <sup>10/11</sup>
- CT - vertebral BMD	X <sup>5</sup>					X <sup>5</sup>				X <sup>1/5/8</sup>	X <sup>1/5/6/8</sup>					
<b>- DXA</b>																
- DXA, hip	X		X		X	X <sup>6</sup>		X		X						X <sup>11</sup>
- DXA, whole body	X	X	X	X	X	X		X		X						X <sup>11</sup>
<b>- MRI, brain</b>										X <sup>1/5/8</sup>	X <sup>1/5/6/8</sup>		X <sup>1/5/8</sup>			
<b>- MRI, knee</b>		X <sup>1</sup>	X <sup>1</sup>		X <sup>1</sup>	X <sup>1</sup>										
<b>- Ultrasound, heel</b>		X	X <sup>4</sup>	X <sup>4</sup>	X	X <sup>4</sup>										
<b>- X-ray, hip</b>								X <sup>1</sup>								
<b>- X-ray, knee</b>		X <sup>1</sup>	X <sup>1</sup>	X <sup>1</sup>	X <sup>1</sup>	X <sup>1</sup>										
<b>Joint evaluation</b>		X														
- Hands		X														
- Hip, internal rotation		X				X										
- Knee crepitus		X	X <sup>4</sup>	X <sup>4</sup>	X	X <sup>4</sup>										
<b>Muscle tissue collection</b>																X <sup>10</sup>
<b>Neurological examination</b>												X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			
<b>Parkinsons exam (UPDRS)</b>												X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			
<b>Performance measures</b>																
- 4-meter walk		X <sup>4</sup>	X <sup>4</sup>	X <sup>4</sup>	X <sup>3/4</sup>	X <sup>4</sup>		X <sup>4</sup>		X <sup>4</sup>	X <sup>4</sup>					X <sup>11</sup>
- 20-meter walk	X	X	X	X	X	X		X		X						X
- 2-minute walk	X	X		X		X		X		X						
- 400-meter walk (LDCW)	X	X		X		X		X		X						
- Balance walks	X			X		X				X	X					X
- Usual pace walk	X			X		X				X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
- 20 cm narrow walk	X			X		X				X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
- Chair stands	X	X <sup>4</sup>	X <sup>4</sup>	X	X <sup>3/4</sup>	X		X		X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
- Finger tapping	X															
- Flexibility "sit and reach"						X										
- Forceplate task												X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			
- GaitMat										X <sup>1/5/8</sup>	X <sup>1/5/6/8</sup>	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			
- Gait assessment (Clinical)												X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			
- Leg extensor power (Keiser)												X <sup>1/5/9</sup>	X <sup>1/5/9</sup>			
- Standing balance								X		X	X					X
- Semi-tandem stand	X	X <sup>4</sup>	X <sup>4</sup>	X	X <sup>3/4</sup>	X		X		X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
- Tandem stand	X	X <sup>4</sup>	X <sup>4</sup>	X	X <sup>3/4</sup>	X		X		X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
- One-leg stand	X	X <sup>4</sup>	X <sup>4</sup>	X	X <sup>3/4</sup>	X		X		X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X

**Health ABC Examination Measures and Frequency  
(Revised 9/19/13)**

<b>Exam Components</b>	<b>Year 1 (1997-1998)</b>	<b>Year 2 (1998-1999)</b>	<b>Year 3 (1999-2000)</b>	<b>Year 4 (2000-2001)</b>	<b>Year 5 (2001-2002)</b>	<b>Year 6 (2002-2003)</b>	<b>Year 7 (2003-2004)</b>	<b>Year 8 (2004-2005)</b>	<b>Year 9 (2005-2006)</b>	<b>Year 10 (2006-2007)</b>	<b>Year 11 (2007-2008)</b>	<b>Year 12 (2008-2009)</b>	<b>Year 13 (2009-2010)</b>	<b>Year 14<sup>7</sup> (2010-2011)</b>	<b>Year 15<sup>7</sup> (2011-2012)</b>	<b>Year 16 (2012-2013)</b>
<b>Strength, muscle</b>																
- Grip strength (Jamar)	X	X	X <sup>4</sup>	X	X <sup>3/4</sup>	X		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		X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
- Isometric knee strength (Litek chair)			X	X <sup>4</sup>	X <sup>3/4</sup>	X										
<b>Peripheral neuropathy</b>																
- Monofilament				X							X					
- Peroneal motor nerve conduction				X							X		X <sup>1/5/8</sup>			
- Vibration perception				X							X		X <sup>1/5/8</sup>			
<b>Pulmonary function test</b>	X				X			X		X						
<b>Pulse, radial</b>		X	X	X <sup>4</sup>	X <sup>4</sup>	X		X		X	X	X <sup>1/5/8</sup>	X <sup>1/5/8</sup>			X
<b>Respiratory rate</b>		X														
<b>Smell</b>			X													
<b>Temperature</b>		X														
<b>Vision</b>																
- Bailey-Lovie distance visual acuity			X													
- Frisby stereo test			X													
- Pelli-Robson contrast sensitivity			X													

<sup>1</sup>Subset

<sup>2</sup>Weight Change Substudy

<sup>3</sup>Flu Substudy

<sup>4</sup>Home/Proxy Home Visit only (Y2 Home Visit only; no Proxy Home)

<sup>5</sup>Pittsburgh only

<sup>6</sup>Continued from previous year

<sup>7</sup>Telephone interview only; refer to Health ABC Questionnaire Measures and Frequency Log

<sup>8</sup>Health Brain Substudy

<sup>9</sup>LEP Substudy

<sup>10</sup>Pittsburgh subset

<sup>11</sup>Memphis subset