

List of physical measurements, devices and methods used in CARTaGENE phase A

| Measurement | Device | Method |
|-----------------------------------|--|--|
| Sitting/standing height | SECA 214 Portable Stadiometer | Measured as an average of two measurements |
| Waist/hip circumference | SECA 200 circumference measuring tape | Measured as an average of two measurements |
| Grip strength | Baseline®, Digital Hydraulic Hand Dynamometer | Measured in both hands alternatively as an average of two measurements |
| Bio-impedance | TANITA, TBF-310 | Electrodes and digital scale for leg-to-leg impedance and body weight |
| Partial electrocardiogram | GE HealthCare PC-based ECG | A partial ECG with 4 electrodes to detect gross arrhythmias (such as atrial fibrillation and heart block). |
| Central arterial stiffness | Atcor Medical, SCOR- Px Sphygmocor | Pulse wave analysis measured by applanation tonometry. The sensor detects the force on the artery wall and derives the central aortic pressure waveform. |
| Blood pressure | Omron IntelliSense® Blood Pressure Monitor HEM-907XL | Measured with automated device that uses the oscillometric method for assessing blood pressure. Mean of 3 measurements. |
| Bone density | Aymes Medical/GE LUNAR, Lunar Achilles Express | Ultrasound in the heel |
| Respiratory volume | MIR, portable USB spirometer (MiniSpir) | Flow-sensing with infrared light to measure inspiratory and expiratory flows |
| Cognitive function | Touch screen computer | Self-administered tests for: reaction time, working memory and executive function |