

ABI + Aix 2.0

NEW FUNCTIONS

The VASCULAR EXPLORER is designed for performing easy and automated vascular diagnostics; it is used to optimize the management of hypertension and for detecting arteriosclerotic vascular lesions.

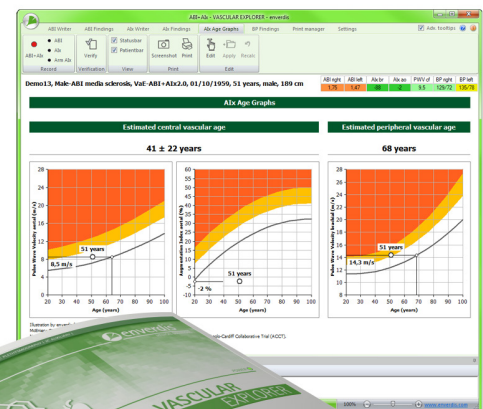
Introducing the new ABI + Aix 2.0 vascular analysis software: compared to the previous version, the new software features enhanced and extended user friendliness and high-performance analytical capabilities. Version 2.0 offers new and updated functions that simplify the examination and evaluation of patient data immensely.

The key functions of new software include:

- Age-curves plotting arterial stiffness parameters
- Color-coded blood pressure evaluation
- 2 modes: Research and clinic
- Step-by-step examination wizard

Whether new or experienced, all users will benefit from the extended functionalities.

The following describes these new functions and how they have changed in terms of application and automated interpretation.

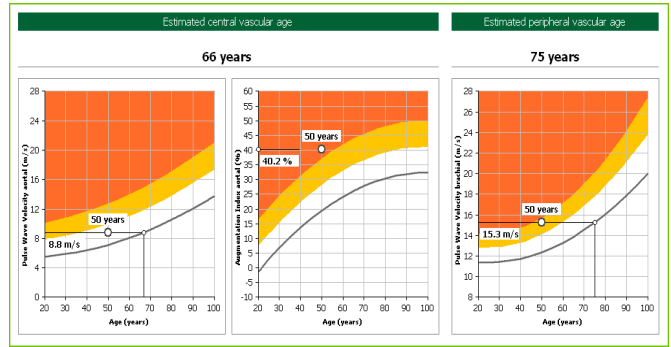


Age curves

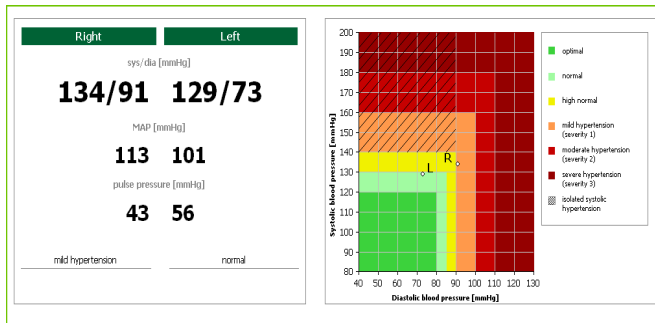
In addition to the already available function for evaluating parameters like cen-tral pulse wave velocity, brachial-ankle pulse wave velocity and central augmentation index in bar charts with normal ranges, the patient's values are now also displayed in age curves. These age curves give the examiner a quick and understandable overview to help him estimate whether the vascular values measured match the patient's age. By this method, the biological age of the vessels can be determined in relation to the patient's true age!

The age-dependent normal values were extracted from the following references and converted to internal graphs:

McEnery CM, Yasmin, Hall IR, Qasem A, Wilkinson IB, Cockcroft JR; ACCT Investigators. Normal vascular aging: differential effects on wave reflection and aortic pulse wave velocity: the Anglo-Cardiff Collaborative Trial (ACCT). *J Am Coll Cardiol.* 2005 Nov 1;46 (9):1753-60.



Graphical evaluation of blood pressure measurements



The blood pressure values measured on the patient's arm are entered into a color-coded diagram according to WHO Guidelines. This color-coded classification enables the physician to draw quicker conclusions about the necessity for therapy and predict therapeutic outcomes. During the doctor's consultation with the patient, the patient's values can be presented in a more simplified and understandable way.

References:

Khatib OMN, Clinical guidelines for the management of hypertension. EMRO Technical Publications Series (29), World Health Organization 2005.

Research and clinic modes

The new software additionally features two viewing modes. Users themselves decide which mode they want to work in. The research mode offers the user a detailed report on all the parameters and values measured and used for analysis. This mode is particularly suited for clinical studies and research work. The clinical mode is ideal for use in everyday clinical practice in hospitals and doctors' offices because the display is limited to the patient's most important parameters, displaying them in a clear and concise way. For example, this is very helpful for the doctor's consultation with the patient. Users can toggle between the two modes and configure how their findings are displayed to fit their needs.

Step-by-step examination wizard

The examination wizard in the new ABI+Alx 2.0 software has been designed to present the user with the results after each measuring step. That way, the user has the option to repeat the measurement, thus making each fast and reliable measurement that much more effective!

For more information on the new functions, please refer to the current ABI + Alx 2.0 Operating Manual.