Approved patient-specific AAA rupture risk assessment with A4clinics™

VASCOPS GmbH, a software developer for vascular applications, announces a new release and CE-approval of its patented A4clinics™ software at the 2012 Charing Cross meeting in London.

A4clinics™ software assesses Computer Tomography-Angiography images from Abdominal Aortic Aneurysms (AAA) and basic patient data in order to provide physicians with additional information such as the Peak Wall Rupture Risk (PWRR) index. This patient-specific index reflects the ability of the aortic wall to carry the blood pressure for the given aneurysm anatomy. Its computation is based on the same mathematical models that have been applied for more than 50 years in other fields such as the aviation industry. The PWRR index can be translated into a rupture risk equivalent diameter, which is a powerful indicator with which to identify high risk patients within the pre-operative range of up to 5.5 cm.

Individual assessment
AAA repair is typically performed for aneurysms reaching 5.5 cm, but a single threshold diameter is not appropriate for every patient and the indication for repair should be individualized. Such an individual assessment is possible using the VASCOPS software, where known risk factors like high wall tension, asymmetric AAA geometry, high blood pressure, female gender and other wall weakening phenomena, are all considered.

The software is easy to handle and the final results are clearly displayed. A4clinics™ considers several patient-specific details and supports our daily decisions“, says Prof. Jesper Swedenborg.

For more information please visit the company at booth no. 209 in London or visit the website: www.vascops.com

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The colour-coded image expresses the risk for aneurysm wall rupture