### CAVI **CAVI Clinical Report**





### **CAVI Clinical Report** Effectiveness of CAVI and IMT Vol. 1











## **CAVI: ABNORMAL / IMT: NORMAL**

**Diagnostic Values of Coronary Angiography (CAG)** and Arteriosclerosis Index (Cardio-Ankle Vascular Index, CAVI) in the Cases with Coronary Lesion Suspected

High CAVI and Intima-Medial Thickness (IMT) ultrasonography

Ultrasonography is used in many institutions to assess IMT as an arteriosclerosis index. However, the approach is local assessment, since the target region is limited to the carotid artery. Recently, the arteriosclerosis index CAVI (cardio-ankle vascular index) is favorably evaluated, as many studies have reported that the index presents arteriosclerotic degrees involving the aorta while promptly revealing functional changes in the arteries. In addition to such an excellent performance, the good reproducibility and easy examination method have made the index widely used.

Here, I am showing the importance of early detection of functional changes of the arteriosclerosis by comparing between CAVI, coronary angiography and carotid echography of the organic and functional changes of the arteriosclerosis.



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(Ultrasound)

(Arteriosclerosis Index)

+ CAVI

Early detection of organic and functional changes in blood vessels

CAVI criteria	
CAVI < 8.0	In normal range
8.0 ≦ CAVI < 9.0	Border line
9.0 ≦ CAVI	Possible Arteriosclerosis



RCA Stenosis

Outpatient with diabetes, hyperlipemia and hyper-

involving not only IMT but also CAVI enabled more conclusive judgment of the arteriosclerotic degree and considerably contributed to prevention of

Clinical application of IMT and CAVI at the forefront in regional healthcare is desired for early finding and early treatment.

## CAVI: ABNORMAL / IMT: NORMAL





Early 60s Male

**RCA** Stenosis

LAD Complete occlusion cx Stenosis

**RCA** Stenosis

Recommended to receive a specific test of angina pectoris, the patient was attacked by an acute myocardial infarction during traveling and underwent emergency

LAD Stenosis CX Stenosis

# CAVI: ABNORMAL / IMT: ABNORMAL



RCA Stenosis

LAD Stenosis CX Stenosis

**RCA** Complete occlusion

Sent from a nearby clinic for the purpose of further investigation of exertional dyspnea. Cardiac ultrasonography revealed kinetic disorder in the wall, letting us hospitalize the patient for the purpose of further investigation of ischemic heart disease and conduct cardiac catheterization.





LAD Stenosis CX Stenosis