Integration of Home Blood Pressure Monitoring in Hypertension Management

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Background: White coat syndrome, masked hypertension, and poor technique may produce inaccurate office-based blood pressure (BP) readings and lead to over diagnosis and over treatment with antihypertensive agents. ...
Serum uric acid as a metabolic regulator of endothelial function in heart failure

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The development of heart failure (HF) associated with elevated level of serum uric acid (SUA). Additionally, the majority of individuals with traditional cardiovascular risk factors contributing in HF risk exhibited increased levels of SUA. ...

The Relation between the New Clinical Parameter “Oscillatory Gap” and Carotid Intima Media Thickness as a Marker for Atherosclerosis

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Introduction: Carotid intima media thickness (CIMT) is an early ultrasonographic marker of atherosclerosis. A new clinical marker “oscillatory gap” (OG) was found to increase with advanced atherosclerosis. ...

Mechanisms involved in regulation of Systemic Blood Pressure
Regulation of the circulatory system to maintain a constant arterial pressure is critical in ensuring adequate perfusion to meet metabolic requirements of tissues. Blood pressure (BP) can be considered in the context of Ohm’s law, whereby BP (analogous to voltage) is directly proportional to the product of cardiac output (current) and total vascular resistance (TPR). ...