NEW BLOOD

Introduction

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In this issue of Hypertension News we continue to publish interesting short papers by future leaders on timely topics spanning clinical and basic science.

First we have Nicolas Renna from UNCuyo-CONICET, Argentina who presents an article on adherence to hypertensive treatment. He discusses the importance of detection of non-adherence and presents medication event monitoring system (MEMS) as a useful tool for monitoring medication use. He concludes by discussing potential options to minimise non—adherence, such as single pill combination.

Moving to the Federal University of ABC, Brazil, Carolina Victoria Cruz Junho and Marcela Sorelli Carneiro-Ramos' paper describes the kidney-heart axis in relation to the immune system. They describe their work on acute kidney injury in an ischemia reperfusion model, detailing how this induces acute inflammation and cardiac hypertrophy as well

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as electrical changes. They go on to detail their findings linking specific cytokines to acute kidney injury-induced cardiac arrhythmia.

Lastly, an article on the emerging field linking the gut microbiota and hypertension. Rikeish R. Muralitharan, Monash University, Australia explains the complexity of gut microbiome research due to the impact of intrinsic and extrinsic factors. He argues the benefits of investigating functionality of microbes and presents the discovery of the absence of butyrate producing bacteria in hypertensive patients as an example. Rikeish presents potential approaches to further advance the field and highlights the need of research to focus on causal links between the gut microbiome and hypertension.

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