

## Multidisciplinary Approach To Reveal Young Athlete Syncope

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### Abstract

Laboratory medicine, along with genetic investigations in sports medicine, is taking on an increasingly important role in monitoring athletes' health conditions. Acute or intense exercise can result in metabolic imbalances, muscle injuries or reveal cardiovascular disorders. This study aimed to monitor the health status of a basketball player with an integrated approach, including biochemical and genetic investigations and advanced imaging techniques, to shed light on the causes of recurrent syncope he experienced during exercise. Biochemical analyses showed that the athlete had abnormal iron, ferritin and bilirubin levels. Coronary Computed Tomographic Angiography highlighted the presence of an intra-myocardial bridge, suggesting this may be the cause of the observed syncopes. The athlete was excluded from competitive activity

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### Biography

Dr. Brancaccio Mariarita. During her bachelor's degree in Health Biotechnology, she took part in study on the enhancement of new pulsed UV laser technologies for the development of immunosensors (March 2012) at the Physics department of the University of Naples "Federico II", in the laboratory of prof. Carlo Altucci.

She then earned a master's degree in Medical Biotechnology (June 2014) with a thesis entitled "The activation of COX-2 induced by LPS in human intestinal epithelial cells is accompanied by a specific epigenetic modification", attending the Department of Molecular Medicine and medical biotechnology, at the laboratory of prof. Raffaella Pero.