## Contents

## I. Introduction

Used in different contexts, several bibliographic references consider heart rate variability both as a diagnostic and outcome estimator of neurological conditions due to the alterations induced by cardiac

pathologies in the cardiovascular control mechanisms [1]-[4]. Not only the beat-to-beat HRV is important, but also BPV is a parameter that provides important evidences regarding autonomic cardiovascular regulation [4]. Besides, beinnointhe for the form of the indications in respect to cardiovascular risks [1], [3], thus requiring truthful measurement of these parameters to avoid misdiagnosis. In recent years, HRV and BPV have been increasingly studied in order to search correspondences between them and the existence of maladies associated with sympathetic and parasympathetic branches of the autonomic nervous system [2], [5], [6].

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