



Optimization of Paced AV Delay Using Atrial Contribution Index

By Miroslav Mestan, Jiri Kvasnicka

Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Optimization of Paced AV Delay Using Atrial Contribution Index, Miroslav Mestan, Jiri Kvasnicka, The hemodynamic effect of the atria on the net performance of the heart is called atrial contribution (AC). AC is either linked to ventricular filling or to the systolic function of the heart, i.e. to the systolic volume or cardiac output. Several noninvasive methods for the quantification of AC are described in literature but none of them are routinely used in cardiac pacing centres due to the time-consuming nature of the methods, the limited reproducibility of measured values and observer dependency. The aim of these studies was to develop a method for determining optimal AV delay in patients treated by dual chamber pacing using an index (ACSp) that quantifies atrial contribution to the systolic volume of the left ventricle. The new method is based on the quantitative analysis of a beat to beat decrease in the amplitude of the pulse oximetry signal (SpO₂). The change in the amplitudes is induced by a sudden drop of the stimulus to the right atrium, while maintaining the rate of ventricular stimuli at a constant level. The obtained ACSp is given...



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