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(54) **Title**: METHOD OF DERIVING CENTRAL AORTIC SYSTOLIC PRESSURE VALUES AND METHOD FOR ANALYSING AN ARTERIAL DATASET TO DERIVE THE SAME

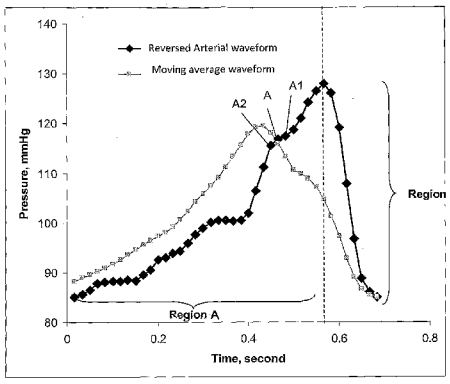


FIGURE 3b

(57) **Abstract**: A method, system and computer readable medium for deriving central aortic systolic pressure by reversing the order of a set of predetermined number of blood pressure measurements to obtain a reversed blood pressure set; averaging the reversed blood pressure set such that the average set represents a moving average waveform; overlaying the reversed blood pressure set and the moving average waveform; identifying a point of intersection on the reversed arterial waveform and the moving average waveform, and setting the central aortic systolic pressure as a reversed blood pressure value in the reversed blood pressure set nearest to the point of intersection.

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