Methods And Systems For Determining Vascular Velocity Using Ct Imaging

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The Invention

Systems and methods for estimating arterial flow information can include a processor generating a time attenuation sequence for each point of a pair of points along a segment of a coronary artery structure. The processor can determine the arterial flow velocity between the pair of points using the distance between the pair of points and the difference between average transit times associated with the pair of points. The one or more processors can determine the average transit times across the same time window. The processor can determine the arterial flow velocity between the pair of points using the distance between the pair of points and the difference between a first time duration that a number of particles take to pass by a first point of the pair of points and a second time duration that the number of particles take to pass by the other point.

Additional Information

For More Information About the Inventors

- Charles Mistretta

Tech Fields

- Medical Imaging : CT

For current licensing status, please contact Jeanine Burmania at jeanine@warf.org or 608-960-9846