Coronary Flow Reserve (CFR) is the ability of coronary blood flow to increase substantially when metabolic requirements demand it.

cfrQuant, CFR quantification software, quantifies blood flow in the myocardial wall of the heart’s left ventricle in diagnostic cardiac Positron Emission Tomography (PET) imaging. CFR measurement is a key clinical application and diagnostic tool that assists in: functional assessment of intermediate stenosis, detection of critical stenosis, specific coronary artery stenosis localization, monitoring of coronary flow after revascularization procedures, quantifying post infarct blood flow, assessing coronary graft patency, identifying early or asymptomatic coronary artery disease in patients at risk and following progression or regression of CAD.*
Positron’s proprietary cardiac software package is based on topographic cardiac maps which reflect the coronary artery’s distribution down to secondary or tertiary branches. The cfrQuant software package accommodates cardiac images produced with Nitrogen-13 Ammonia or Rubidium-82 Chloride taken up by myocardium during two physiologic states: baseline (rest) and increased blood flow (stress). A mathematical model computes absolute myocardial perfusion (flow per mass of tissue, or cc/min/gm) at rest and stress. The ratio of stress-to-rest flow is termed the Coronary Flow Reserve or CFR. Visual displays of absolute flow and CFR, with their numeric quantification are presented to aid diagnostic interpretation of myocardial PET images.

**FEATURES**

1. Simplified acquisition enhances signal/noise characteristics since cfrQuant requires only one frame image for the arterial input function.
2. Flow data is displayed in topographic projections of specific coronary artery distribution to assist with interpretation.
3. Automount interconnect provides effortless communication with the Attrius scanner for speeding image transfers.
4. Processing time is only 5 minutes with no additional protocol time required for acquisitions.

Positron currently offers the cfrQuant software package in conjunction with their Attrius PET system or may be purchased as a stand alone product. As a stand-alone product, the cfrQuant software package will include: PC, monitor, mouse and keyboard. For more information about cfrQuant and its benefits, please contact us at: sales@positron.com.