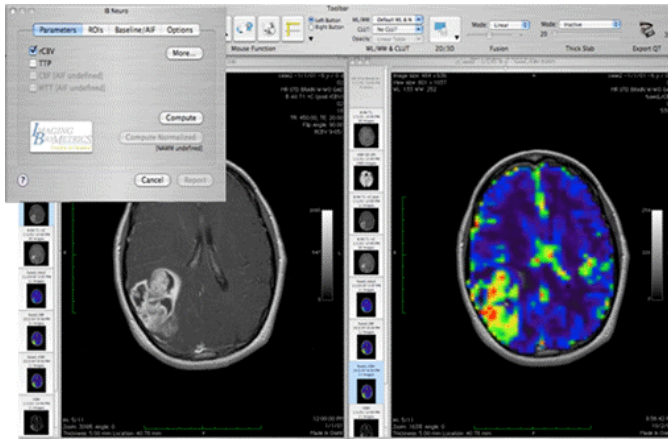


IB Neuro™ v1.1 is software that analyzes dynamically acquired MR and CT datasets and generates parametric perfusion maps quantifying changes in contrast over time. This advanced technology has been designed to be compliant with healthcare standards such as DICOM and is currently available as a plug-in option to the open-sourced OsiriX 3.x platform, the aycan OsiriX<sup>PRO</sup>, Kanteron's KDS and Clario's zVision workstations. IB Neuro™ v1.1 can also be integrated into other existing medical image visualization applications ranging from simple stand-alone workstations to sophisticated, PACS, CAD, MR, and IMRT systems.



Anatomical post-contrast MRI image and rCBV map generated using IB Neuro™ v1.1 OsiriX Plug-in.

## IB Neuro™ v1.1 Plug-in

The strength of IB software is its ability to extend the productivity of any existing viewer, CAD workstation or PACS. Shown above is IB Neuro™ v1.1 integrated into the OsiriX open-source platform. In addition to the benefits provided by the base library, the plug-in includes features such as:

- ✓ View dynamic signal time course on a per-voxel basis
- ✓ Automated Arterial Input Function (AIF) selection
- ✓ Automatic export of perfusion parameter maps to DICOM images within the same study
- ✓ Automated longitudinal report generation
- ✓ CT perfusion support
- ✓ Support for dual-gradient echo sequences

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## Key Features

- ✓ Enables rapid creation of a complete array of critical perfusion parameter maps: rCBV, CBF, MTT, TTP
- ✓ Automatic correction of contrast agent leakage across the blood brain barrier
- ✓ Automated brain mask generation
- ✓ Ability to normalize parameters to normal appearing white matter (NAWM)

## Additional Benefits

- ✓ Handles sequences already available on major vendor scanners
- ✓ Push-button rapid image post-processing
- ✓ Compress research cycles
- ✓ Extend the base functionality of existing radiology servers and workstations
- ✓ Provide additional information which supplements standard imaging
- ✓ Increase productivity
- ✓ User-friendly and intuitive work-flow

## About IB

*Imaging Biometrics LLC (IB) develops software solutions for the healthcare industry. IB products are built on proven technology that has overcome conventional limitations to deliver accurate, reliable, and robust advanced imaging.*

**NOTE:** IB Neuro™ v1.1 has not received FDA 510(k) clearance and, therefore, is restricted to investigational use only.

## Strong Scientific Basis

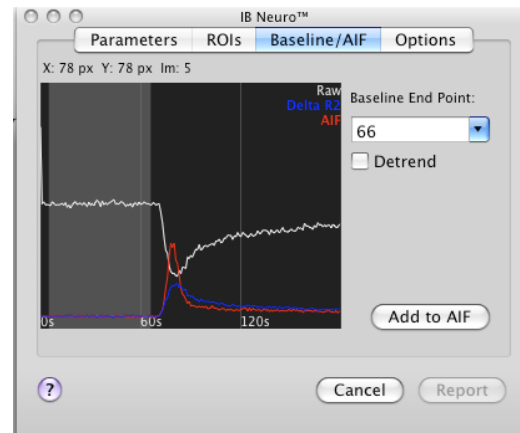
MRIs of brain tumor morphology do not provide sufficient information about tumor biology and function. However, much research in the field has provided ample support proving the reliability of Dynamic Susceptibility Contrast (DSC) MRI methods to provide more specific information about brain tumor vasculature and biology. An array of vascular parameter maps can be derived from the same DSC dataset, including cerebral blood volume (CBV), cerebral blood flow (CBF), and mean transit time (MTT). IB's API has resulted from 12+ years of research in the development and testing of MRI DSC perfusion technology in its founder's laboratory, where over 1,200 studies have been performed in patients.

There has been an obvious lack of clinical adoption despite widespread and well-published potential of MR perfusion in the care of these patients, due primarily to the absence of a reliable standard. IB's technology uniquely eliminates the confounding factors that contribute to inter-patient and inter-study variability, which largely arises from how existing approaches handle the leakage of Gd contrast agent out of vessels. In a recent study comparing the available acquisition and post-processing techniques, the technique upon which IB Neuro is based proved superior.

IB Neuro™ 1.1 is the choice for brain tumor perfusion imaging and can be used for a wide array of research applications for the evaluation of brain tissue.

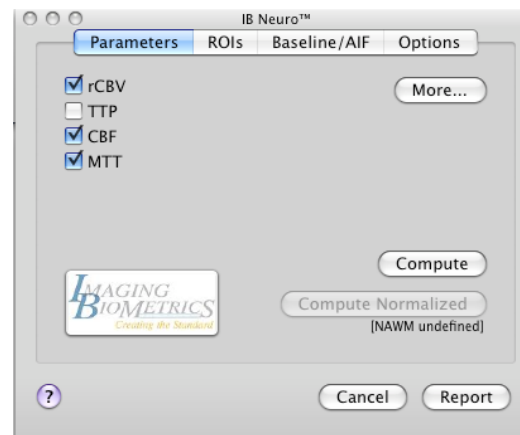
*Additional information regarding the technology and potential applications can be found in the following references:*

- Paulson, ES, et al., Radiology, 10.1148/radiol.2492071659 (2008)
- Schmainda KM, et al., Am J Neuroradiol 24:1524-1532 (2004).
- Boxerman JL, et al., Am J Neuroradiol 27:859-67 (2006).
- Quarles CC, Schmainda KM. Magnetic Resonance in Medicine 57(4):680-687 (2007).
- Batchelor T, et al., Cancer Cell 11(1): 83-95 (2007).



## Evaluation

IB has demonstrated that the revolutionary post-processing algorithms of IB Neuro are unparalleled for neuro MR perfusion imaging. Find out how IB's innovative technology can benefit you. Take advantage of IB's risk-free evaluation license for a 14 day trial period. This includes product documentation and support.



## Partners

Imaging Biometrics LLC is a private company specializing in the development, translation and integration of sophisticated medical imaging software. We are interested in establishing partnerships. Visit us at:

[www.imagingbiometrics.com](http://www.imagingbiometrics.com)