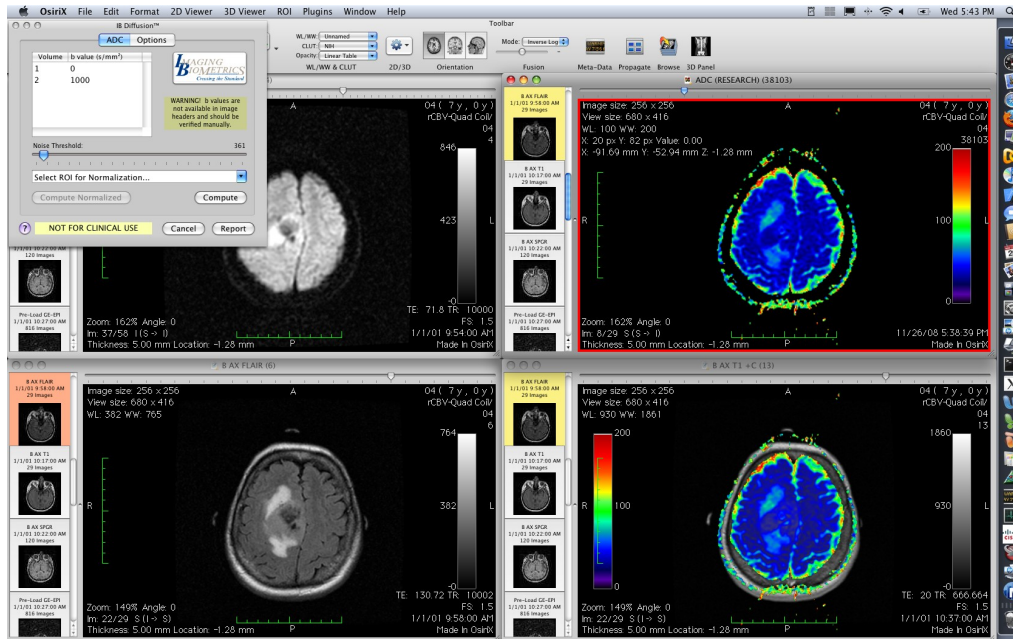


IB Diffusion™ v1.0 is software that analyzes MR diffusion-weighted images (DWI) and generates Apparent Diffusion Coefficient (ADC) maps. ADC values have been shown to be useful in the initial diagnosis and treatment monitoring of all solid tumors.

IB Diffusion™ does not have FDA 510(k) clearance and is restricted for investigational use only.



Generated Apparent Diffusion Coefficient (ADC) Maps from diffusion-weighted images

Key Features of IB Diffusion™ v1.0 OsiriX Plug-in

- b values can be read directly from DICOM image headers
- The standard two-point ADC calculation ($ADC = \ln(S_0/S_1)/(b_1 - b_0)$) is implemented
- Linear regression is used to calculate ADC maps with more than two volumes, each with a unique b value
- ADC values can be normalized using the mean value from a region of interest (ROI)
- All calculations are done with the push of simple and intuitive buttons with manual override capability
- New calculated images are automatically exported as new DICOM series and can be easily pushed to a PACS
- Automatic report generation in form of a DICOM series that can be exported

IB plug-ins are designed to be compliant with healthcare standards such as DICOM and can be conveniently integrated with ease and speed into existing medical image visualization applications ranging from simple stand-alone workstations to sophisticated, PACS, CAD, MR, and IMRT systems. Currently our advanced technology is available as an OsiriX plug-in.