Resource Summary Report

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T-One weighted Perfusion imaging Parameter CAlculation Toolkit

RRID:SCR_007376
Type: Tool

Proper Citation

T-One weighted Perfusion imaging Parameter CAlculation Toolkit (RRID:SCR_007376)

Resource Information

URL: http://dblab.duhs.duke.edu/modules/dblabs_topcat/index.php

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Description: TOPPCAT stands for T-One weighted Perfusion imaging Parameter CAlculation Toolkit. TOPPCAT creates quantitative maps of Ktrans (volume transfer constant between blood plasma and the extravascular extracellular space) and fPV (fractional plasma volume) from dynamic T1-weighted perfusion images. At the current time, analysis using the method of Patlak plots (most appropriate for first pass dynamic contrast-enhanced MR imaging) is supported. As a preliminary step for the parameter calculation, TOPPCAT also creates maps of T1 and S0 (equilibrium magnetization) from multi-flip angle T1-weighted SPGR (or FLASH) sequences.Daniel P. Barboriak, James R. MacFall, Anthony O. Padua,Gerald E. York, Benjamin L. Viglianti, and Mark W. Dewhirst. Standardized software for calculation of Ktrans and vp from dynamic T1-weighted MR images. Presented at the International Society for Magnetic Resonance in Medicine Workshop on MR in Drug Development: From Discovery to Clinical Therapeutic Trials, McLean VA, April 2004.

Synonyms: TOPPCAT

Resource Type: data processing software, image processing software, software resource, software application

Funding:

Resource Name: T-One weighted Perfusion imaging Parameter CAlculation Toolkit

Resource ID: SCR_007376

Alternate IDs: nif-0000-00349

Record Creation Time: 20220129T080241+0000

Record Last Update: 20250417T065313+0000

Ratings and Alerts

No rating or validation information has been found for T-One weighted Perfusion imaging Parameter CAlculation Toolkit.

No alerts have been found for T-One weighted Perfusion imaging Parameter CAlculation Toolkit.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.