

Guide

The DRO data is separated in to two collections corresponding to two magnetic field strengths (3T and 1.5T). Each collection contains 15 folders corresponding to three TRs (1s, 1.5s, 2s) and five contrast agent dosing schemes (pre none bolus full, pre quarter bolus three-quarter, pre half bolus half, pre quarter bolus full, and pre full bolus full). Each of the 15 folders contains 12 sub-folders representing a combination of three flip angles (30° , 60° , and 90°) and four echo times (20ms, 30ms, 40ms, and 50ms). Within each of the 12 sub-folders a single slice DSC-MRI signal time series of 3 minutes sampled at intervals of the corresponding TR values are given. The slice contains four ROIs described in figure 1. In addition to the DRO data masks for each of the four ROIs are provided.

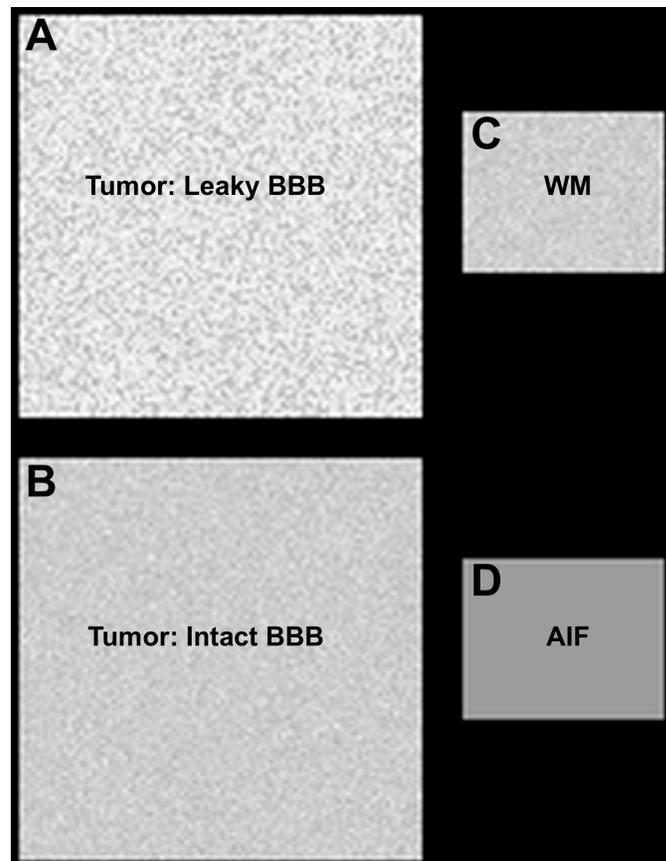


Figure 1: (A) Represents the tumor region containing 10000 voxels. (B) The corresponding tumor region with no CA leakage contamination (to be used for expected calculations). (C) Representative normal appearing white matter (WM) containing 2000 voxels. (D) Region representing the arterial input function (AIF).

For a given parameter combination (TR=1.5s, TE=30ms, Flip angle= 60°, CA dosing = pre none bolus full, and B₀= 3T), Figure 2 demonstrate example signal time course for all four ROI.

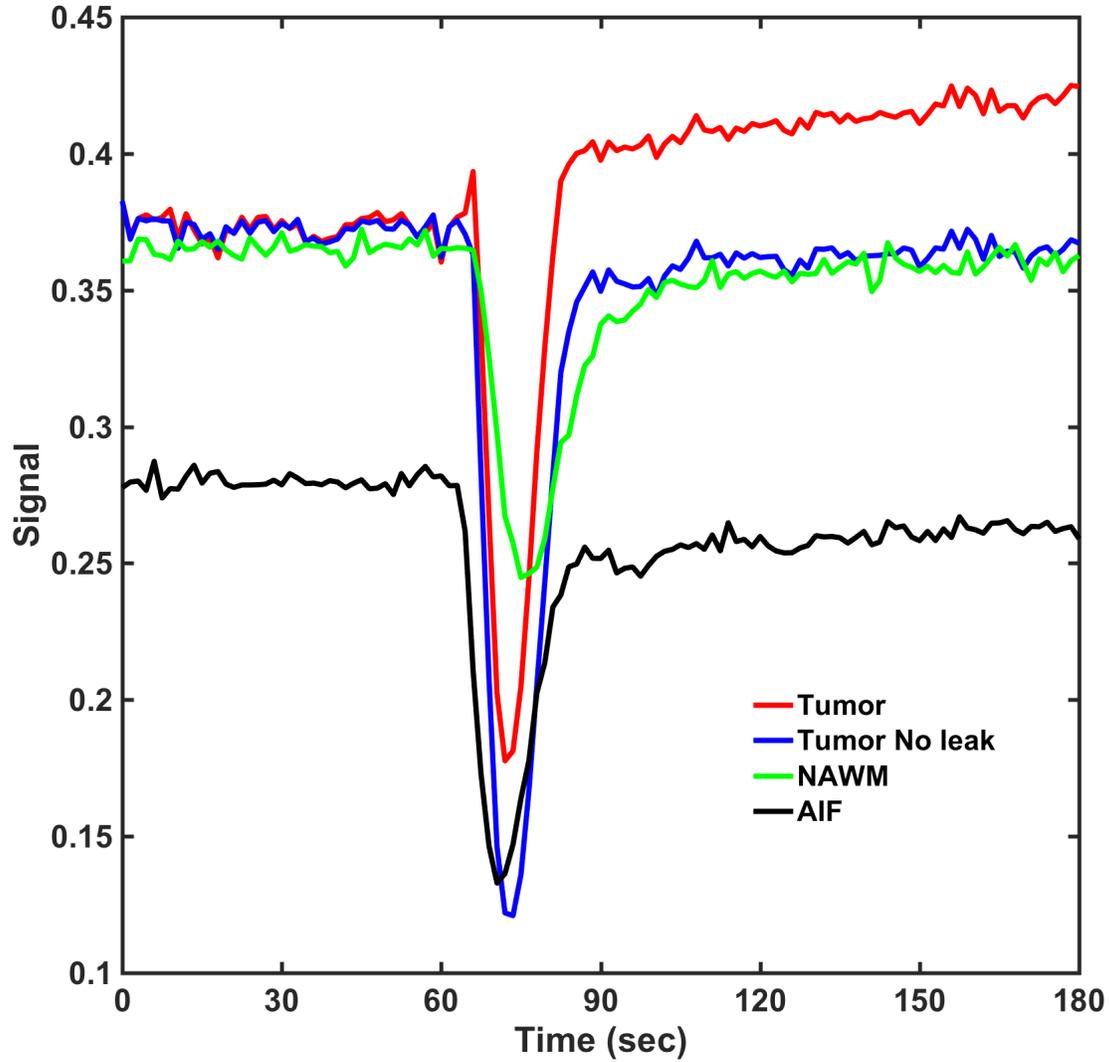


Figure 2: Example signal time course for a voxel within each of the four ROIs.