

Scan Recommendations - Contrast Clearance Analysis

How to Scan MR Data for Contrast Clearance Analysis

Elements Image Fusion 3.0 and Higher	
General MR Imaging Requirements	<p>3D T1-weighted MRI (MPRAGE, FSPGR, VIBE, SPACE, etc.) with IV bolus injection of a Gd-based contrast agent:</p> <ul style="list-style-type: none"> • ≤ 1 mm slice resolution • ≤ 1 mm slice thickness • > 100 slices • Field of view covering the complete head • High tissue contrast resolution • High signal-to-noise ratio • Always use 3D distortion correction if available
MR Scan Instructions	<p>The Contrast Clearance Analysis calculation requires two MRI data sets:</p> <ul style="list-style-type: none"> • First scan: 5 minutes after contrast agent injection • Second scan: 60 to 105 minutes after contrast agent injection <p>Both sequences must be acquired using the equivalent scan protocol.</p>
Additional Information	<p>Zach L, Guez D, Last D, et al., Delayed contrast extravasation MRI: a new paradigm in neuro-oncology, <i>Neuro Oncol.</i> 2015 Mar;17(3):457-65. doi: 10.1093/neuonc/nou230</p>
Anonymization Instructions	<p><i>NOTE: If DICOM data is anonymized, ensure that the scanning properties are maintained in the DICOM headers as these are utilized for image analysis.</i></p> <ul style="list-style-type: none"> • <i>If possible, select a lower level of anonymization.</i>

For further information contact Brainlab support.

