

# 10.7 Vasovist-enhanced Moving-Table Peripheral MRA during First Arterial passage of contrast agent

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## Introduction

Vasovist is a novel blood pool contrast agent with superior relaxivity compared to conventional extracellular contrast agents. Although advantages are clear for delayed phase imaging, this agent also offers potential advantage during first pass.

## Methods

3D moving table contrast-enhanced MRA was acquired during first pass at three consecutive locations using the following parameters (TR 4msec, TE 1.6msec, FOV 40 x 28-36cms, 512 x 192-400, 32-96 partitions. Voxel size 5mm<sup>3</sup>, 3mm<sup>3</sup>, 1mm<sup>3</sup> for 1st, 2nd, 3rd location respectively. Acq time 12-16, 16, 60secs for 1st, 2nd, 3rd location respectively. MR fluoroscopy (TR 5msec, TE 2msec 256 x 192

scan matrix, 40cm FOV) employed to synchronise the arterial peak with central k-space data for first location. Injection algorithm – 0.5cc/sec x 6 secs, 0.3cc x 24secs, total injected volume 10cc).

## Results

Diagnostic quality, degree of venous enhancement and contrast to noise difference for all 3 locations will be presented, compared to a control group receiving traditional contrast agents.

## Conclusion

Apart from obvious advantages for imaging at high resolution in the steady-state, Vasovist also offers advantages for imaging in first arterial pass for moving table CE-MRA.