

MRI Showed Increased Lung Volumes In Fetuses With Transposition Of The Great Arteries

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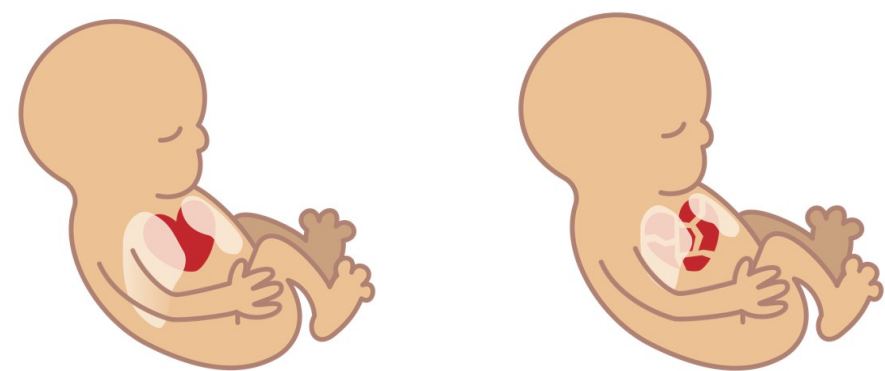
Background

Congenital Heart Defect → Smaller brain size, cerebral abnormalities and increased risk of neurodevelopmental impairments



Aim

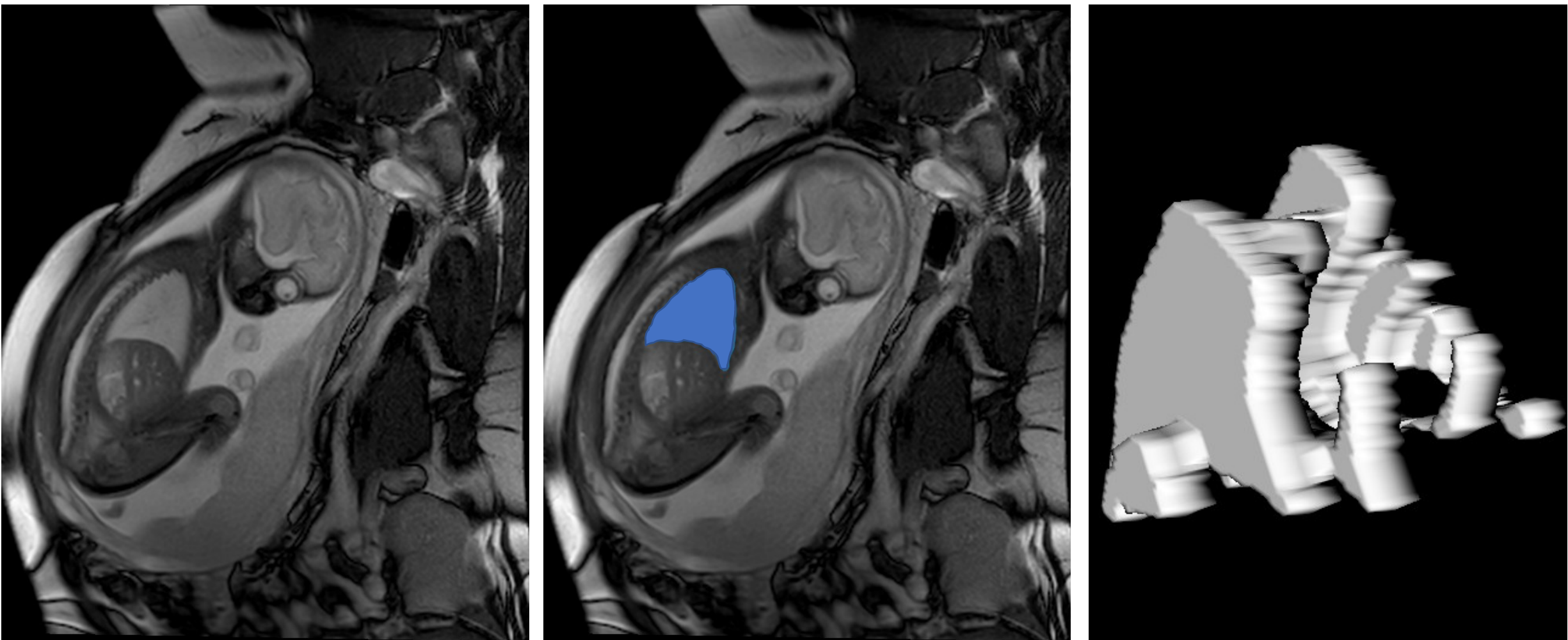
Is lung size affected in fetuses with Transposition of the Great Arteries (TGA)?



Materials

MR-images and Estimated Fetal Weight of:
8 fetuses with TGA
42 healthy fetuses
Scanned twice during Gestational Age (GA) 30-39

Methods



TrueFISP MRI-images → MRI-volumetry → Creating 3D model and computing volume
Marking the edges of the lungs in each MR-image

Results

Lung volume in fetuses with TGA is larger than in healthy controls

