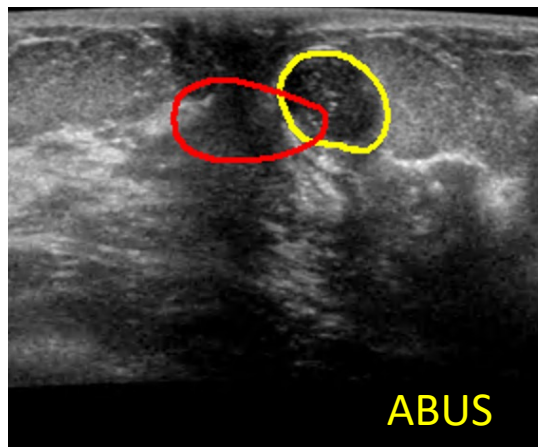
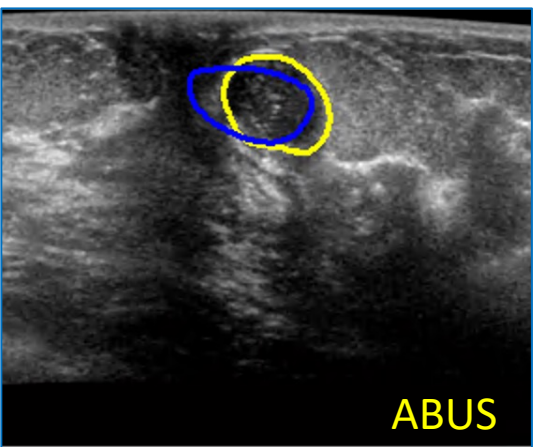


Image Acquisition and Pre-Processing



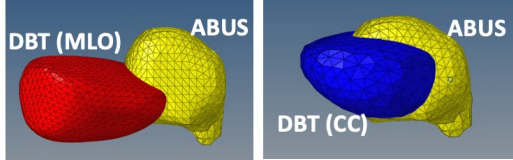
Automated Deformable Mapping Algorithm

Registration Results



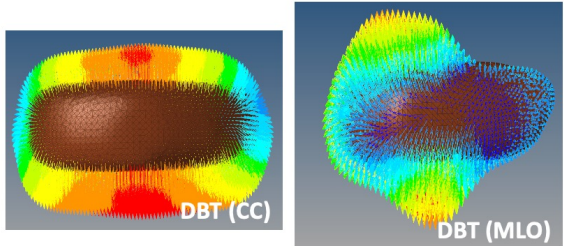
5. Lesion Correlation

- Determines matching lesions
- Computes d_{COM} and quantifies registration overlap



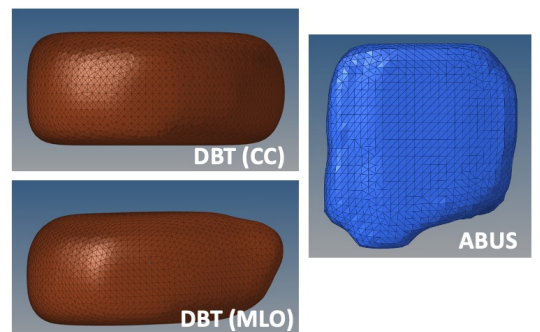
4. Finite Element Analysis

Applies FE analysis on DBT Model



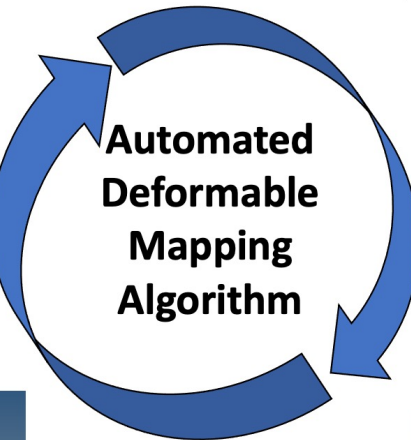
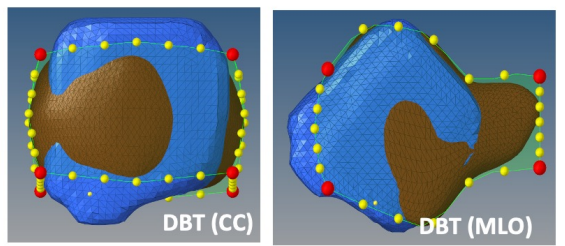
1. FE Model Generation

- Converts segmentations to create Base FE model
- Adds Material properties



2. Skin Deformation

- Transforms skin of DBT (CC or MLO) model to ABUS model
- Determines boundary conditions for FEA



3. Marker Correlation

- Modifies boundary conditions of DBT model to ensure corresponding markers are within user-defined distance

