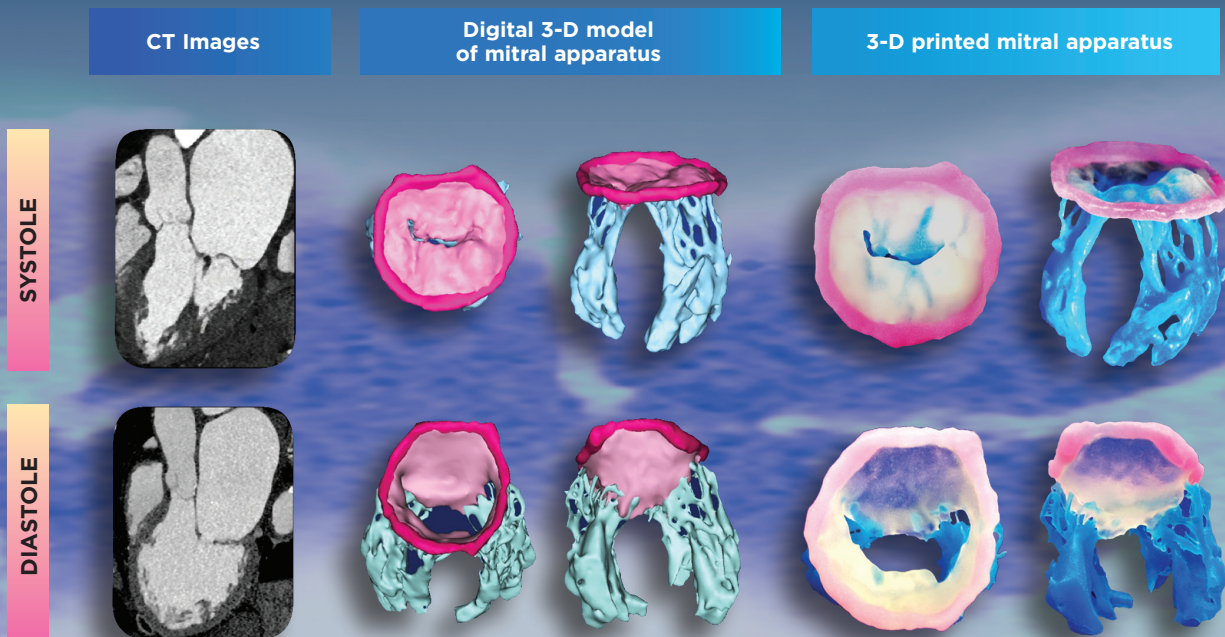




IMAGE OF THE MONTH

Reconstruction of the Mitral Apparatus from CT Imaging and 3-D Printing



The mitral valve apparatus is identified at the end of systole and diastole.

The anatomic elements of the annulus, anterior and posterior leaflets, and chordae tendineae and papillary muscles are identified and color-coded in a digital reconstruction. A 3-D printed model was created for each cardiac cycle phase using a blend of materials to create a semi-rigid annulus, flexible leaflets, and distensible chordae tendineae and papillary muscles.