ABSTRACT

A method for manufacturing a personalized naturally designed mitral valve prosthesis to precisely fit a specific patient for which the valve prosthesis is made for is provided. The method includes measuring size and shape of a mitral valve of the specific patient by using imaging methods, calculating geometry and dimensions of annular ring, leaflets and chords per the specific patient based on validated algorithms, and cutting and connecting the annular ring, leaflets and chords to form a personalized prosthesis mitral valve.

FIG. 19