

Abstract

The present invention discloses a limiting expandable aortic valve conduit which comprises an aortic valve preliminary conduit attached with a collagen fiber coating, wherein the aortic valve preliminary conduit comprises a proximal conduit, a valve connecting conduit and a distal conduit. The present invention also discloses a preparation method thereof. The limiting expandable aortic valve conduit provided by the present invention is used for Bentall type surgery, and after the artificial biological valve dysfunctions, the limiting expandable aortic valve conduit provided by the present invention provides conditions for placing the artificial biological valve with the same size as the original valve in an interventional mode, namely, after the biological valve dysfunctions, the valve with the same size as the original valve can be placed in an interventional mode, and a patient's chest does not need to be opened to replace the biological valve with the same size.

FIG. 11