MULTI-POLE SYNCHRONOUS PULMONARY ARTERY RADIOFREQUENCY ABLATION CATHETER

ABSTRACT

A multi-pole synchronous pulmonary artery radiofrequency ablation catheter, wherein an adjustment apparatus is arranged on a control handle; a catheter body is hollow, and a cavity is arranged therein; a lead wire, a temperature sensing wire and a pull wire are arranged in the cavity; one end of the catheter body is flexible, and the flexible end is connected to an annular ring; the other end of the catheter body is connected to the control handle; one end of the pull wire is connected to the flexible end, and the other end of the pull wire is connected to the adjustment apparatus on the control handle, the tension of the pull wire is adjusted through the adjustment apparatus to achieve radian control of the flexible end; a shape memory wire is arranged in the annular ring, one end of the shape memory wire extends to the end of the annular ring and the other end of the shape memory wire passes through the root of the annular ring and is fixed on the flexible end of the catheter body; the annular ring is provided with an electrode group with each electrode connected to the lead wire and temperature sensing wire; the lead wire and temperature sensing wire go through the catheter body and are electrically connected to the control handle. The device uses cold saline perfusion method to protect the vascular intima and possesses advantages of simple operation, short operation time and controllable precise ablation. The device can be used to treat pulmonary hypertension with pulmonary denervation.

FIG. I