ABSTRACT

OCCLUSION DEVICE FOR CLOSING ANATOMICAL DEFECTS

An occlusion device for closing an anatomical defect in tissue comprising a conduit connecting an opening on a first tissue and an opening on a second tissue is provided. The occlusion device comprises a scaffold comprising a) a proximal support structure comprising at least two arms; b) a distal support structure comprising at least two arms, wherein the arms are adapted to provide anchorage for the device in the tissue; and c) a waist portion adapted for extending through the opening on the first tissue and connecting the proximal support structure with the distal support structure, wherein the scaffold consists essentially of a biodegradable polymer, wherein the proximal support structure and the distal support structure comprise or consist of polycaprolactone (PCL), poly-(D,L-lactide-co-caprolactone) (PLC), or a mixture thereof. A method of closing an anatomical defect using the occlusion device is also provided.

Figure 2