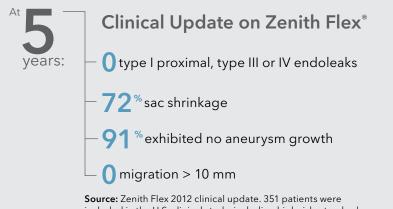
EXPECT DURABILITY

Disease-specific solutions backed by clinical data.

The Zenith portfolio of endovascular products and services are designed to treat more patients with a durable repair.



Source: Zenith Flex 2012 clinical update. 351 patients were included in the U.S. clinical study, including high risk, standard risk and roll-in patients combined.

Zenith AAA Endovascular Graft Annual Clinical Update (2012).

Clinical Update on Zenith Flex

98.1 [%] freedom from AAA-rupture

69.9[%] freedom from late reintervention and conversion

74.1 [%] freedom from aneurysm sac growth

Source: Verzini et al. Fourteen-Year Outcomes of Abdominal Aortic Endovascular Repair with the Zenith Stent Graft. *J Vasc Surg.* 2017;65(2):318-329.

100,000+ devices implanted globally

Zenith Flex®

EXPECT MORE.

Read the full clinical update by visiting cookmedical.com/14yrFlex





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ZENITH FLEX® AAA ENDOVASCULAR GRAFT WITH THE Z-TRAK™ INTRODUCTION SYSTEM

CAUTION: Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.

INDICATIONS FOR USE: The Zenith Flex AAA Endovascular Graft with the Z-Trak Introduction System is indicated for the endovascular treatment of patients with abdominal aortic or aortoiliac aneurysms having morphology suitable for endovascular repair, including: • Adequate illac/femoral access compatible with the required introduction systems, • Non-aneurysmal infrarenal aortic segment (neck) proximal to the aneurysm: -with a length of at least 15 mm, -with a diameter measured outer wall to outer wall of no greater than 32 mm and no less than 18 mm, -with an angle less than 60 degrees relative to the long axis of the aneurysm, and -with an angle less than 45 degrees relative to the axis of the suprarenal aorta. • Iliac artery distal fixation site greater than 10 mm in least han 47.5-20 mm in diameter wall to come wall.

CONTRAINDICATIONS: The Zenith Flex AAA Endovascular Graft with the Z-Trak Introduction System is contraindicated in: • Patients with known sensitivities or allergies to stainless steel, polyester, solder (tin, silver), polypropylene, or gold. • Patients with a systemic infection who may be at increased risk of endovascular graft infection.

WARNINGS AND PRECAUTIONS:

General Read all instructions carefully. Failure to properly follow the instructions, warnings and precautions may lead to serious consequences or injury to the patient. Always have a qualified surgery team available during implantation or reintervention procedures in the event that conversion to open surgical repair is necessary. The Zenith Flex AAA Endovascular Graft with the Z-Trak Introduction Systems should only be used by physicians and teams trained in vascular interventions or conversion to standard open surgical repair following initial endovascular repair should be considered for patients experiencing an enlarging aneurysm, unacceptable decrease in fixation length (vessel and component overlap) and/or endobase. An increase in aneurysm size and/or persistent endoleak or migration may lead to neurysm rupture. Patients experiencing reduced blood flow through the graft limb and/or leaks may be required to undergo secondary interventions or surgical procedures. **Patient Selection, Treatment and Follow-Up** The Zenith Flex AAA Endovascular Graft is designed to treat proximal aorti necks (distal to the lowest renal artery) of at least 15 mm in length. Ilia cartery distal fixation site greater than 10 mm in length and 7.5 - 20 mm in diameter (measured outer wall to service of degrees for infrarenal necks is of AAA or >3.4 begrees for supmanal neck relative to the immediate infrarenal necks is of AAA or >4.5 degrees for supmanal neck relative to the immediate infrarenal necks is of AAA or >4.5 degrees for supmanal neck and viscue and and is a selling and fixation. Iterguider Lines are equired to outer wall to outer wall to intervention advore place may be more conducive to graft migration or endoleak. A dequate lilac or femoral access is required to introduce the device into the aretrial implantation sites, specifically the proximal aortic neck (<15 mm); an inverted funnel shape (greater than 10% increase in diameter over 15 mm of proximal aortic neck le

Pre-Procedure Measurement Techniques and Imaging Lack of non-contrast CT imaging may result in failure to appreciate lilac or aortic calcification, which may preclude access or reliable device fixation and seal. • Pre-procedure imaging reconstruction thicknesses >3 mm any result in sub-optimal device sizing, or in failure to appreciate focal stenoses from CT. - Clinical experience indicates that contrast-enhanced spiral computed tomographic angiography (CTA) with 3-D reconstruction is the strongly recommended imaging modality to accurately assess patient nanatomy prior to treatment with the Zenki The KanAA Endowscular Graft. If contrast-enhanced spiral CTA with 3-D reconstruction is the strongly recommended imaging modality to accurately assess patient nanatomy prior to treatment with the Zenki The KanAA Endowscular Graft. If contrast-enhanced spiral CTA with 3-D reconstruction is not available, the patient should be referred to a facility with these capabilities - Clinician secommend positioning the x-ray C-arm during procedural angiography such that the origins of the renal arteries, and particularly the lowest patent renal artery, are well demonstrated prior to deployment of the proximal dege of the graft material (sealing stent) of the main body. Additionally, angiography should demonstrate the iliac artery bifurcations such that the distal common iliacs are well defined relative to the origin of the internal lina carteries bilaterally, prior to deployment of the linac leg components.

Diameters Utilizing CT, diameter measurements should be determined from the outer wall to outer wall vessel diameter (not lumen measurement) to help with proper device sizing and device selection. The contrast-enhanced spiral CT scan must start 1 cm superior to the celiac axis and continue through the femoral heads at an axial thickness slice of 3 mm or less.

Lengths Utilizing CT, length measurements should be determined to accurately assess infrarenal proximal neck length as well as planning main body sizes and leg components for the Zenith Flex AAA Endovascular Graft. These reconstructions should be performed in sagittal, coronal, and 3-D. • The long-term performance of endovascular grafts has not yet been established. All patients should be advised that endovascular graft fle-long, regular follow-up to assess their health and the performance of their endovascular graft. Patients with specific clinical findings (e.g., endoleaks, enlarging aneurysm or changes in the structure or position of the endovascular graft) should receive enhanced follow-up. Specific follow-up guidelines are described in Section 12, IMAGING GUDELINES AND POSTOPERATIVE FOLLOW-UP in the complete INSTRUCTIONS FOR USE. • The Zenith Flex AAA Endovascular Graft with the Z-Trak Introduction System is not recommended in patients unable to undergo, or who will not be compliant with, the necessary properative and postoperative imaging and implantation studies as described in Section 12, IMAGING GUDELINES AND POSTOPERATIVE FOLLOW-UP in the complete INSTRUCTIONS FOR USE. • The Zenith Flex AAA Endovascular Graft with the Z-Trak Introduction System is not recommended in patients unable to undergo, or who will not be compliant with, the necessary properative and postoperative imaging and implantation studies as described in Section 12, IMAGING GUDELINES AND POSTOPERATIVE FOLLOW-UP in the complete INSTRUCTIONS FOR USE. • After endovascular graft At a minimum, annual imaging is required, including: 1) addominal radiographs to examine device integrity (separation between components, sent fracture or barb separation) and 2) contrast and non-contrast CT to examine aneurysm changes, perigraft flow, patency, tortuosity and progressive disease. If renal complications or other factors predude the use of image contrast media, abdominal radiographs and duplex ultrasound may provide similar information.

Device Selection Strict adherence to the Zenith Flex AAA Endovascular Graft IFU sizing guide is strongly recommended when selecting the appropriate device size (Tables 10.5.1 through 10.5.2 in the complete INSTRUCTIONS FOR USE). Appropriate device oversizing has been incorporated into the IFU sizing guide. Sizing outside of this range can result in endoleak, fracture, migration, device infolding or compression.

Implant Procedure (Refer to Section 11, DIRECTIONS FOR USE in the complete INSTRUCTIONS FOR USE) Appropriate procedural imaging is required to successfully position the Zenith Flex AAA Endovascular Graft and assure accurate apposition to the aortic wall. - Do not bend or kink the delivery system. Doing so may cause damage to the delivery system and the Zenith Flex AAA Endovascular Graft. - To avoid any twist in the endovascular graft, during any rotation of the delivery system, be careful to rotate all of the components of the system together (from outer sheath to inner cannula). - Do not continue advancing any portion of the delivery system is feisitance; vessel, catheter or graft damage may occur. Exercise particular care in areas of stenosis, intravascular thrombosis or in calcified or tortuous vessels. - Inadvertent partial deployment or migration of the endporosthesis may require surgical removal. - Unless medically indicated, do not deploy the Zenith Flex AAA Endovascular Graft in a location that will occlude arteries necessary to supply blood flow to organs or extermities. Do not oxerv significant renal or mesenteric arteries view to endprosthesis. Wessel occlusion may occur. During the clinical study, this device was not studied in patients with two occluded internal lilac arteries. - Do not atternet to re-sheat the graft after partial deployment. - Repositioning the stent graft distally after partial deployment of the covered proximal stent may result in damage to the stent graft and/or vessel injury. - Inaccurate placement and/or incomplete sealing of the Carith Flex AAA Endovascular Graft may result in increased risk of moleax. Mingration or the sent graft. Incorrect deployment or migration of the endoprosthesis may require surgical intervention. - Systemic anticoasgulation should be used during the implantation procedure based on hosysital and physician preferred protocol. If heparin is contraindicated, an alternative anticoagy should be used during introduction and differ portal degrade grade din t

Molding Balloon Use Do not inflate the balloon in vessel outside of the graft, as doing so may cause damage to the vessel. Use the balloon in accordance with its labeling. • Use care in inflating the balloon within the graft in the presence of calcification, as excessive inflation may cause damage to the vessel. • Confirm complete deflation of the balloon prior to repositioning. • For added hemostasis, the Captor Hemostatic Valve can be loosened or tightened to accommodate the insertion and subsequent withdrawal of a molding balloon.

MRI Information Non-clinical testing has demonstrated that the Zenith AAA Endovascular Graft is MR Conditional. A patient with this endovascular graft can be scanned safely immediately after placement under the following conditions: Static Magnetic Field Static magnetic field of 3.0 Tesla or less. • Highest spatial magnetic gradient field of 720 Gauss/cm.

POTENTIAL ADVERSE EVENTS: Adverse events that may occur and/or require intervention indude, but are not limited to: A mputation - Anesthetic complications and subsequent attendant problems (e.g., aspiration) - Aneurysm enlargement - Aneurysm rupture and death - Aortic damage, inducting perforation, dissection, bleeding, rupture and death - Arterial or venous thrombosis and/or pseudoaneurysm - Arteriovenous fistula - Bleeding, hematoma or coagulopathy - Bowel complications (e.g., ileus, transient ischemia, infarction, necrosis) - Cardiac complications and subsequent attendant problems (e.g., arrythtmia, myocardial infarction, congestive heart failure, hypotension) - Claudication (e.g., buttock, lower limb) - Death - Edema - Embolization (micro and macro) with transient or permanent ischemia or infarction - Endoleak - Endoprosthesis: improper component placement; incomplete component deployment; component migration; suture break; occlusion; infection; stent fracture; graft material wear; dilatation; erosion; puncture; perigraft flow; barb separation and corrosion - Fever and localized inflammation - Genitourinary complications and subsequent attendant problems (e.g., lymph fistula) - Neurologic local or systemic complications and subsequent attendant problems (e.g., Jumph fistula) - Neurologic local or systemic complications and subsequent attendant problems (e.g., artery occlusion, instriction, instriction, pain, hematoma, pseudoaneurysm, arteriovenous fistula - Vessel damage - Wound complications and subsequent attendant problems (e.g., dehiscence, infection) - Surgical conversion to open repair - Vascular access site complications, induding infection, pain, hematoma, pseudoaneurysm, arteriovenous fistula - Vessel damage - Wound complications and subsequent attendant problems (e.g., dehiscence, infection) - Vascular spasm or vascular trauma (e.g., liofemoral vessel dissection, bleeding, rupture, death)

See instructions for use for full product information.