	IFU-014-T02-05	INSTRUCTION FOR USE: SOUTHERN AXIS™ 2	CERVICAL PLATE SYSTEM			
SOUTHERN MEDICAL	Date Issued: 2020.04.30	CE ⁰¹²³				
Manufactured by: European I		over 30175	a magnetic field include: (1)	The AXIS [™] 2 devices have not been evaluated for adverse effect under MRI. The AXIS [™] 2 implant a magnetic field include: (1) movement of ferromagnetic components, (2) localised heating of com interaction between metallic components and the magnetic field.		
Irene, Pretoria 1675 South Africa	German		Point of use		eaning and rinsing should begin as soon as po ices include keeping devices moist after use	
Tel: +27 12 667 6243/4	Ι		Containment and	 surfaces, joi No particula 	nts, and all other hard-to-clean design features r requirements.	
IMPORTANT: PLEASE READ For detailed information on the Southern AXIS™ 2 Cer	nical Blata and Canan Custom	lana annailt tha Sumiael Manual	transportation Preparation for cleaning		able of disassembly must be disassembled priv	
For detailed information on the Southern AXIS™ 2 Cer Description: The AXIS™ 2 Cervical Plate and the fixed and variable a		-		Dried-on soi removal of g	l is difficult to remove with automatic washing, ross soil from these areas prior to washing in t	
RADIOACTIVITY WARNING: No radioactivity substance or radioactivit	-		Cleaning: Automated	2. Rinse with w		
Intended purpose: The Southern AXIS ^M 2 Anterior Cervical Plate System (ACP) arthrodesis device is intended for fixation to the anterior cervical spine (C2-T1) to relieve painful			painful	retain liquid	truments in the washer such that all design fe can drain (for example, hinges should be open	
motion by immobilizing and stabilizing the affected cervical spinal	region during the development	of a cervical spinal fusion. The ACP system is to be used in conjunction ates with lengths from 19.5 mm up to 93 mm. The ACP system is inte	n with a		omatic wash cycle: Minimum cycle parameters:	
		consists of a plate that is fixated to the vertebral body by means of an			ld + warm water	
Indications for the use of arthrodesis cervical plates and screws Oeformity (defined by kyphosis, lordosis, or scoliosis)	are:				varm water	
 Degenerative spondylosis (as defined by neck pain of discogenie Failed previous fusions 	c origin with degeneration of the dis	c confirmed by patient history and radiographic studies.)			ction temperature is set at A0=600; 90°C (+1°C	
Pseudarthrosis Trauma including fractures				6. Long narrow	ments for visible soil cannulations and blind holes require particular	
Tumors				Thermal disi	ning if soil is visible and re-inspect. nfection Minimum cycle parameters: one (1) mi	
Contraindications for the use of arthrodesis cervical plates and • Failure of anterior plate fixation			Cleaning: Manually	Blind holes s	trument and soak for a minimum of ten (10) min should be repeatedly filled and emptied	
 Active systemic infection; active malignancy or history of metasta Any case where implant utilization may not result in expected ph 		mune disease			cannulations and blind holes require particular brushes/pipe cleaners to remove additional so	
 Any disease, condition or surgery which might impair healing Any patient unwilling to follow postoperative instructions 					ces several times using a twisting action. If cor t in order to access and clean these areas.	
Bone diseases (e.g., osteoporosis, gout, osteomalacia, Paget's	disease)			Scrub inside	holes with a tight-fitting brush or pipe cleaner u full depth of the feature is reached	
 Fever Inadequate tissue coverage over operative site 				Scrub aroun	d hinged surface areas with a brush or pipe cle es using a cleaning brush or pipe cleaner	
Inflammation local to operative siteLeukocytosis				Rinse thorout	ighly with warm water, making sure to wet the o ments for visible soil	
Morbid obesityPregnancy at time of surgery			Distriction	11. Repeat clea	ning if soil is visible	
 Sufficient previous surgeries that would preclude using an anteri Titanium/Titanium Alloy allergy or intolerance 	ior approach		Disinfection:		solution (EndoZyme®) may be used in accorda n peroxide may be used on difficult to reach are	
The patient's occupation or activity level or mental capacity may		surgery. Specifically, patients who because of their occupation or lifestyle, c on the implant during bony healing and may be at higher risk for implant fail			is achieved as part of a washer disinfector cyc ect for damage or wear	
Risks Associated with surgery	· · · · ·		and Testing of Instrumentation	 Hinged instr 	uments should be check for smooth movement thanisms should be checked for action	
 Allergic or other reaction to anesthesia Approach related injury 		rry to the jugular vein, carotid artery, trachea, laryngeal nerve, thyroid gland, sophagus and pharynx		 All surfaces 	should be smooth and free of cracks and deep	
 Blood loss or hemorrhage Cerebrospinal fluid leak (CSF) 		Inutrition rbidity			bits should be inspected for deformities and dis es Inspect for corrosion and major deformation	
• Death	• Os	icolysis or vertebral inflammation monary embolism	Packaging		aged instruments should be returned to sales r ay should be double wrapped with Steriwrap.	
 Disease progression Dysphagia, Hoarsness and swallowing difficulties 	• Sh	ock	Sterilization Instructions	Instruments and	instrument trays: nt that adequate cleaning of instrument case	
Infection		ombosis, Hypotension ocardial infarction		performed p	rior to sterilization. Preparation for Sterilization S	
Risks Associated with Cervical Spinal Systems Annular ossification	•	Reoperation at the study treatment level with or without removal or mod	lification	during clean		
Bone graft migrationDural injury		of any or all components of the device Revision with or without replacement of a component/device	\triangle	 Sterilization 	hould be placed in Instrument Trays prior to ste trays must be wrapped with an approved autor	
Facet joint deterioration	•	Screw back out Spontaneous fusion			ization. The tray by itself does not provide a ster k sterilization trays in the sterilizer!	
 Failed back syndrome Hematoma or Seroma 	•	Supplemental fixation			-	
Heterotopic ossificationHypopharyngeal screw migration	•	Transitional syndrome Tumor formation/ carcinogenesis potential		Limitations on re Repeated pr	processing: ocessing has minimal effect on these instrume	
Implant degradationMyocardial infarction	•	Vertebral fracture Vessel damage		Recommended Sterilization Parameters:		
 Nerve damage Neurologic deterioration; clumsiness, foot drop, limp, sho 	• • •	Failed fusion Mechnanical Failure of Implant (Breaking or bending of screws and	l/or	 Instrument s 	ets produced by Southern Medical can be ster), 12 minute exposure, 30 minute vacuum dry, s	
gait, weakness • Numbness	······································	plates)		,	• • •	
Osteophyte resorption	lf	e-used:		disease, es	care authorities recommend sterilization accord becially of surgical instruments that could com	
 Perineural fibrosis Plate size may not be inclusive of range/incorrect plate le 	ength selection.	Infection Non-oesteointegration	Storage		and time is required: 134°C, 20 minutes expos ween cleaning and sterilization, dry instrument	
 Reflex sympathetic dystrophy (RSD) Removal of the device in the post-op or follow-up period 				result from vContainmen	vet storage. t devices can be stacked for storage.	
Recommended Surgical Procedure: Refer to the surgical procedure provided by S	Southern Medical (Ptv) Ltd				by Southern Medical. It remains the responsibilit hieve the desired result. This normally requires	
USAGE WARNING:		ded for specific use with the implant and no other instrumentation is intende			ill be restricted according to the discretion of the	
		er to surgical procedure and product brochure for more information. Do no		Ω	Sterility	
STERILITY:						
Plates All implant plates are supplied sterile, and are for single use only before the labeled expiration date. Do not re-use implants. Do not use implants if the packaging has				LOT	Do not reuse (implant devices)	
and could result in surgical rejection and/or p	oost-operative infection. The implar	re-sterilize implants provided sterile. Re-sterilization could cause material deg t is designed for single patient use only and must never be re-implanted. Re re to explore a Southern Medical Representative.		STERILE R	Manufacturer address	
∧ Screws		re to contact a Southern Medical Representative.	Do not resterilize	STERNIZE	Do not use if packaging is	
is the responsibility of the hospital to ensure must be a fully trained hospital staff member labeled expiration date. Unless marked ster sterilized by the hospital prior to use. Remov	equipment and cycles are validate . Screws provided separate to the rile and clearly labeled as such in e all packaging materials prior to s ative field. Unless specified elsewhet	uire sterilization by an ISO 17665 validated steam sterilization (autoclave) m d on site. Personnel responsible for the cleaning and sterilization of the inst screws on instrument sets are supplied sterile and are for single use only be an unopened sterile package, all implants and instruments used in surgery terilization. Sterilization must be done in time before implanting the prosthes re, these products are recommended to be steam sterilized by the hospital us al representative.	fore the must be sis. Only		damaged	
Magnetic Resonance Imaging (MRI)						

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ants are manufactured from non-ferromagnetic materials. Risks of placing implants in or near components caused by radio frequency induction heating and (3) image artifacts created by

possible after use of the device

se to prevent soil from drying and removing gross soil from the surfaces, crevices, mating es.

prior to cleaning g, especially at challenging design features on devices like interfaces, crevices, joint etc. The the automatic washer is critical for achieving adequate cleaning tergent for 5 minutes and scrub surfaces including brackets and hinges with cleaning brush

features of the device are accessible to cleaning and such that design features that might pen and cannulations and holes positioned to drain). ers:

	Function	Duration (min)
	Rinse, mixed water	2
	Wash with detergent	7
	Rinse, warm water	2
l°C)/1 min	Disinfection	1 + heating

ular attention during cleaning

minute at 91° C

minutes in enzymatic detergent

cular attention during cleaning

a soil from challenging design features f components of the instrument can be disassembled or moved, it is necessary to retract or

ner using a twisting action. The brush or pipe cleaner should be of an appropriate size to

cleaner

the challenging design features

ordance with label instructions.

areas cycle do not exceed 120°C.

ent of hinge without excessive "play."

eep nicks

distortion that might hinder insertion into a drill

les representatives

p.		
	Devices O	nly:
ases/trays be on Single-Use	•	Screws are supplied non-sterile unless otherwise specified on the screw packaging.
o sterilization utoclave wrap	•	Prior to sterilization of the device, remove all original packaging and labeling inserts. Place the device in suitable packaging for the sterilization process, i.e., central supply wrap, autoclave pouches, etc.
sterile barrier.	•	Special care should be taken to protect the device from contact with other metal or hard objects that could damage the implant Packaging should be inspected for punctures or other damage before and after sterilization

iments. End of life is normally determined by wear and damage due to use.

sterilized to a sterility assurance level (SAL) of 10E-6 in a pre-vacuum, 4 pulse, 132º-135ºC dry, steam sterilization cycle

cording to these parameters to minimize the potential risk of transmission of Creutzfeldt-Jakob come into contact with the central nervous system. Should this be required, the following posure, 30 minute drying time.

nents with a low-linting, non-abrasive soft cloth to prevent microbial contamination that could

ibility of the processor to ensure that the reprocessing as actually performed using equipment, irres validation and routine monitoring of the process. f the surgeon.

NON	Consult the Instructions For Use	Ĩ
\otimes	European Representative	EC REP
** *	Date Of Manufacture	
(Caution	\wedge