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INSTRUCTION FOR USE: MINI SET

IMPORTANT: PLEASE READ



For detailed information on the Southern Modular plate and Screw System, please consult the Surgeons Manual

Description: The Southern Mini set implants are manufactured from Grade 2 Titanium (ASTM F67) and the fixed and variable angle screws from Grade 23 Titanium (ASTM F136).

RADIOACTIVITY WARNING: No radioactivity substance or radioactivity.

Intended purpose: The Southern Mini Set is intended for hand, wrist, and forearm procedures; including revision fractures, replantations & reconstruction. The plates and screws are intended to immobilize fractures and resection lines in order to enhance the rate of fusion in a set orientation. The Mini set consists of 1.3mm thick plates designed for hand

Indications for the use of arthrodesis cervical plates and screws are:

- Distal intra-articular radius fractures with impacted articular fragments and displaced Dorso-ulnar fragments
- · Carpal tunnel syndrome
- Distal intra-articular radius fractures with bony or ligamentous injury of the proximal carpal row
- · Forearm fractures
- · Hand injuries/fractures
- Rheumatoid arthritis
- De Puytren's contracture

- Active infection or inflammation
- · General medical contra indications for surgical intervention
- Inadequate skin, bone and neurovascular status

- Distal radioulnar joint pain or dysfunction
- Foreign body reaction
- · Incorrect positioning of the device
- Malocclusion
- Mental nerve paralysis
- Nonunion
- · Plate or screw mobility
- Severe bleeding/ artery damage
- Tendon attrition

Surgical instrumentation is produced from stainless steel (ASTM F899).

and small fragment fractures and are used in combination with either 2.0mm (gold) or 2.4mm (green) locking or non-locking screws.

- Congenital defects

Contraindications for the use of arthrodesis cervical plates and screws are:

- · Irreparable tendon system

Risks Associated with Surgery

- · Carpal tunnel syndrome
- Extrusion

- Suspected or documented metal allergy or intolerance
- Physiologically or psychologically inadequate patient
- · Possibility of conservative treatment
- Local or systematic acute or chronic infection/inflammation
- · Complex regional pain syndrome
- Extensor/flexor tendon adhesion requiring tenolysis
- Iliac crest donor complications
- Infection
- Malunion
- Neuropraxia of the superficial nerve
- Plate breakage or fracture
- Reflex sympathetic dystrophy
- Stiffness
- Tendon rupture



Recommended Surgical Procedure:

Refer to the surgical procedure provided by Southern Medical (Pty) Ltd.



USAGE WARNING:

Improper technique in implant placement can result in implant failure. Surgical instrumentation is provided for specific use with the implant and no other instrumentation is intended to be used for the placement of the implant. Placement of this device is limited to gualified surgeons. Refer to surgical procedure and product brochure for more information.



Plates and screws are disinfected and packed onto instrument sets as non-sterile and require sterilization by an ISO 17665 validated steam sterilization (autoclave) method. It is the responsibility of the hospital to ensure equipment and cycles are validated on site. Personnel responsible for the cleaning and sterilization of the instruments must be a fully trained hospital staff member. If uncertain contact a Southern Medical representative.

Magnetic Resonance Imaging (MRI)

The Southern Mini plates and screws have not been evaluated for adverse effect under MRI. The Southern Mini components are manufactured from non-ferromagnetic materials. Risks of placing implants in or near a magnetic field include: (1) movement of ferromagnetic components, (2) localized heating of components caused by radio frequency induction heating and (3) image artefacts created by interaction between metallic components and the magnetic field.

STERILIZATION WARNING:

Unless marked sterile and clearly labeled as such in an unopened sterile package provided by the company, all implants and instruments used in surgery must be sterilized by the hospital prior to use. Remove all packaging materials prior to sterilization. Sterilization must be done in time before implanting the prosthesis. Only sterile products should be placed in the operative field. Unless specified elsewhere, these products are recommended to be steam sterilized by the hospital using one of the sets of process parameters

below. If uncertain contact a 3	outrient ivieulcal representative			
Warnings	 Aluminum instruments are damaged by alkaline (pH>7) detergents and solutions 			
	 Long narrow cannulations and blind holes require particular attention during cleaning. 			
	 Do not exceed 150°C 			
Limitations on reprocessing	Repeated processing has minimal effect on these instruments. End of life is normally determined by wear and damage due to use.			
Point of use	. These practices include keeping devices moist after use to prevent soil from drying and removing gross soil from the surfaces, crevices,			
	mating surfaces, joints, and all other hard-to-clean design features.			
	 Thorough cleaning and rinsing should begin as soon as possible after use of the device 			
Containment and	No particular requirements.			
transportation	Disassembly not required.			
Preparation for cleaning	Devices capable of disassembly must be disassembled prior to cleaning			
	· Dried-on soil is difficult to remove with automatic washing, especially at challenging design features on devices like interfaces, crevices,			
	joint etc. The removal of gross soil from these areas prior to washing in the automatic washer is critical for achieving adequate cleaning			
Cleaning: Automated	1. Pre-cleaning should be through soaking in enzymatic detergent for 5 minutes and scrub surfaces including brackets and hinges with cleaning			
	brush			

- 2 Rinse with warm water
- Load the instruments in the washer such that all design features of the device are accessible to cleaning and such that design features that might retain liquid can drain (for example, hinges should be open and cannulations and holes positioned to drain).
- 4. Run the automatic wash cycle: Minimum cycle parameters:

Phase	Function	Duration (min)
2 Rinse cold + warm water	Rinse, mixed water	2
5Wash I detergent	Wash with detergent	7

		13 Rinse warm water	Rinse, warm water	2			
		16 Disinfection temperature is set at A0=600; 90°C (+1°C)/1 min	Disinfection	1 + heating			
	_	Observing the serving in the serving					
	5.						
	ю. -	6. Repeat cleaning if soil is visible and re-inspect.					
01	7. Thermal disinfection Minimum cycle parameters: one (1) minute at 91° C						
Cleaning: Manually	1.						
	 Blind holes should be repeatedly filled and emptied Use cleaning brushes/pipe cleaners to remove additional soil from challenging design features Scrub interfaces several times using a twisting action. If components of the instrument can be disassembled or moved, it is need. 						
	_	retract or open the part in order to access and clean these areas.					
	5. Scrub inside holes with a tight-fitting brush or pipe cleaner using a twisting action. The brush or pipe cleaner should be of an						
	size to ensure that full depth of the feature is reached						
	 Scrub around hinged surface areas with a brush or pipe cleaner Scrub crevices using a cleaning brush or pipe cleaner 						
		8. Rinse thoroughly with warm water, making sure to wet the challenging design features					
	9. Check instruments for visible soil						
Disinfestions	10. Repeat cleaning if soil is visible						
Disinfection:	•	= ····································					
	•	o / o my anogoni por o video may bo about on announce roadin aroad					
Drying	 When drying is achieved as part of a washer disinfector cycle do not exceed 120°C. 						
Maintenance, Inspection	Visually inspect for damage or wear						
and Testing of	•	Hinged instruments should be check for smooth movement of hinge without excessive "play."					
Instrumentation	•	Locking mechanisms should be checked for action					
	 All surfaces should be smooth and free of cracks and deep nicks Reamer/drill bits should be inspected for deformities and distortion that might hinder insertion into a drill Metal surfaces Inspect for corrosion and major deformation 						
	•	Blunt or damaged instruments should be returned to sales representatives					
Packaging	•						
Sterilization Instructions	•						

Prior to sterilization of the device, remove all original packaging and labeling inserts. Place the device in a suitable packaging for the sterilization process, i.e., central supply wrap, autoclave pouches, etc.

It is important that proper cleaning of instrument cases/trays be performed prior to sterilization. Preparation for Sterilization Single-Use

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

Storage

Do not resterilize

Reusable Instruments

• It is important that adequate cleaning be performed prior to sterilization.

Instrument should be placed in Instrument Trays prior to sterilization

Reusable devices must be placed in a suitable packaging for the sterilization process, i.e., autoclave pouches

· Reusable devices are sold non-sterile. It is critical to properly clean all reusable devices prior to sterilization

- Sterilization cases/trays must be wrapped with an approved autoclave wrap prior to sterilization. The case/tray by itself does not provide a
- Do not stack sterilization cases/trays in the sterilizer!

Limitations on reprocessing:

• Repeated processing has minimal effect on these instruments. End of life is normally determined by wear and damage due to use.

Recommended Sterilization Parameters:

Post Implantation: Movement of the operation site will be restricted according to the discretion of the surgeon.

damaged

Instruments (reusable devices) cleaning:

- Instrument sets produced by Southern Medical can be sterilized to a sterility assurance level (SAL) of 10E-6 in a pre-vacuum, 4 pulse, 132°-135°C (270°-275°F), 12 minute exposure, 30 minute vacuum dry, steam sterilization cycle
- Some health care authorities recommend sterilization according to these parameters to minimize the potential risk of transmission of Creutzfeldt-Jakob disease, especially of surgical instruments that could come into contact with the central nervous system. Should this be required, the following temperature and time is required: 134°C, 20 minutes exposure, 30 minute drying time. If stored between cleaning and sterilization, dry instruments with a low-linting, non-abrasive soft cloth to prevent microbial contamination

Caution

that could result from wet storage. Containment devices can be stacked for storage.

The instructions provided above have been validated by Southern Medical. It remains the responsibility of the processor to ensure that the reprocessing as actually performed using equipment, materials and personnel in the reprocessing facility achieve the desired result. This normally requires validation and routine monitoring of the process.

Description of Symbols Used in Packaging $\prod_{\mathbf{i}}$ Sterility Consult the Instructions For Use Use by (2) LOT Lot Number Do not reuse (implant devices) European Representative M STERILE R Manufacturer address Date Of Manufacture Sterilization (Gamma) Do not use if packaging is (Q)