MINIMALLY INVASIVE POSTERIOR FIXATION

PATIENT INFORMATION LEAFLET



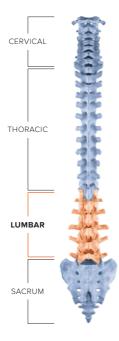


INTRODUCTION

The lumbar spine is made up of five bones called vertebrae. The bones and joints contain and protect the spinal cord, while also allowing motion such as, bending and twisting. The main joint between two vertebrae is called a disc. Each disc is comprised of two parts, a tough and fibrous outer layer (annulus fibrosus), and a soft, gelatinous centre (nucleus pulposus). These two parts play a vital role in allowing and restricting motion.

WHAT IS CAUSING MY PAIN?

Age, genetics, injury, and everyday wear and tear caused by routine activities can contribute to damage and deterioration of the discs in your lower back. Your surgeon may have diagnosed a herniated disc, disc degeneration, spinal stenosis, or loss of disc height as compared to your other discs. Symptoms of these conditions can include loss of motor function and dexterity, tingling or numbness in the lower extremities, radiating pain, and weakness and/or numbness in your legs.





WHAT IS A MINIMALLY INVASIVE POSTERIOR FIXATION?

Posterior Fixation for the lumbar spine is a surgical procedure that helps relieve pressure on the nerve roots and/or spinal cord to provide realignment, immobilisation, and stabilisation of spinal segments in skeletally mature patients. Compared to a traditional open procedure, the minimally invasive approach is performed through a minimal incision in your back, and the back muscles surrounding your spine are gently separated, rather than cutting through them. Decompression may be necessary if the symptoms are caused by a compression of the spinal cord and/or nerve roots. Once decompressed, your surgeon will use screws and rods to stabilise or fixate the affected vertebral bodies.

This technique may result in smaller scars, less postoperative pain, and a quicker recovery. Depending on your conditions and symptoms, minimally invasive surgery may or may not be the right procedure. It is important to discuss with your surgeon to recommend the right surgical solution for you.



IS MINIMALLY INVASIVE POSTERIOR FIXATION THE RIGHT PROCEDURE FOR ME?

Your surgeon may have suggested that you are a candidate for a Minimally Invasive Posterior Fixation procedure. Mariner* MIS is intended to provide stability of the spine, and is indicated for skeletally mature patients with Degenerative Disc Disease (DDD).

DEGENERATIVE DISC DISEASE (DDD)

During the natural aging process, the disc between each vertebral body can lose their flexibility, height, and elasticity which can cause a tear in the tough outer layer of the disc, causing the disc to herniate, bulge, or leak the gelatinous core. The bulges or leakages can end up compressing the nerve roots and/or spinal cord, causing symptoms including, but not limited to lower back and/or leg pain.

The Minimally Invasive Posterior Fixation may not be the right procedure for you. It is important to discuss with your surgeon your condition, and treatment options to establish the best treatment plan for you.

PREPARING FOR SURGERY Your surgeon will provide a clinical examination and may conduct some diagnostic tests to ensure you are CT scans, and/or X-rays. Your surgeon may provide you with guidance on what to do or not do before your recommendations in preparation of your surgical

WHAT TO EXPECT DURING SURGERY

DURING SURGERY

After you are sedated, positioned face down, and surrounded by the appropriate surgical draping, an X-ray image is taken of your spine to identify the location of the operative disc space.

STEP 1: APPROACH

Your surgeon will make a small incision down your back. The size of the incision can vary based on the number of levels and/or complexity of your case.

STEP 2: DECOMPRESSION

Your surgeon may decide that decompression of the affected vertebrae and discs may be necessary to reduce pressure from the cord or symptomatic nerve root. During decompression, a small section of the bone and disc are removed to clear a pathway for the interbody spacer.

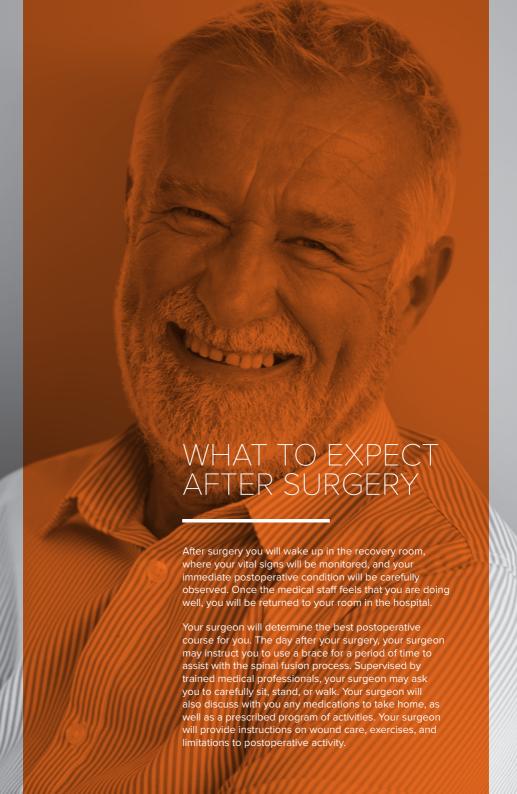
STEP 3: STABILISATION OR FIXATION

Your surgeon will use a combination of screws and rods to stabilise or fixate the affected vertebrae. This combination will act as a stabilisation device (internal brace) to help hold everything in place while fusion occurs. Your surgeon will determine the appropriate fixation implant, if necessary.

STEP 4: FUSION

With the completed construct tightened and locked down, your vertebral bodies will then be allowed to fuse. Fusion means the bone will grow around the affected areas and will eventually stabilize itself. This healing process can take various lengths of time depending on the severity of the condition.

Your surgeon may discuss precautions in a less invasive manner than the traditional screw placement or other measures that could be taken to avoid potential risk.



WHAT ARE THE POTENTIAL RISKS?

POSSIBLE ADVERSE EVENTS

Like other spinal system implants, the following adverse events are possible. This list is not exhaustive.

- · Delayed union or nonunion (pseudarthrosis).
- · Bending, disassembly or fracture of implant and components.
- Loosening of spinal fixation implants may occur due to inadequate initial fixation, latent infection, and/or premature loading, possibly resulting in bone erosion, migration or pain.
- Pain, discomfort, or abnormal sensations due to the presence of the device.
- Pressure on skin where inadequate tissue coverage exists over the implant, with potential extrusion through the skin.
- · Dural leak requiring surgical repair.
- · Cessation of growth of the fused portion of the spine.
- · Subsidence of the implant into adjacent bone.
- Loss of proper spinal curvature, correction, height and/or reduction.
- · Increased biomechanical stress on adjacent levels.
- Improper surgical placement of the implant causing stress shielding of the graft or fusion mass.
- Intraoperative fissure, fracture, or perforation of the spine.
- Postoperative fracture due to trauma, defects or poor bone stock.
- Serious complications associated with any surgery may occur.
 These include, but are not limited to: wound complications,
 infection, genitourinary disorders, gastrointestinal disorders,
 vascular disorders, including thrombus; bronchopulmonary,
 disorders, including emboli; bursitis, hemorrhage, myocardial
 infarction, paralysis or death.

Should you experience any pain or other symptoms outside of what was discussed with your surgeon, please contact your surgeon immediately.

TECHNICAL INFORMATION

SeaSpine® offers a wide range of rod materials to accommodate each patient's needs. With straight and pre-contoured rod options, there are rods available for the most complex cases. The different rod characteristics, such as rod stiffness, bending strength and springback will allow your surgeon to pick the correct rod for your case. Although rare, metal sensitivities and allergic reactions to foreign materials have been reported for orthopedic implant patients. The most common sensitivities, in order of their frequency, are to nickel, cobalt, and chromium. Implant sensitivity reactions to titanium and titanium alloy are much less common.

IMPLANT MATERIALS

- Titanium Allov (Ti Allov) ASTM F136
- Cobalt Chrome (CoCr) ASTM F1537
- Extra Strength & Stiffness (ESS) ASTM F562
- Extra Strength & Stiffness + (ESS+) ASTM F562

Although the Mariner* MIS system is intended to be kept in use for the lifetime of the patient, it is important to comply with your surgeon's postoperative instructions. Surgeons should advise patients to limit or restrict physical activity, especially lifting, twisting, or any type of sports participation. Your surgeon will provide clarity on the length of time to restrict physical activity, and any other postoperative warnings that you should abide by. Postoperative compliance is important for your recovery.

This device has not been evaluated for safety and compatibility in the MR environment. It has not been tested for heating, migration, or image artifact in the MR environment. The safety of this device in the MR environment is unknown. Scanning a patient who has this device may result in patient injury.



PART NUMBER	PART DESCRIPTION
41-1010	Set Screw
41-3010	Polyaxial Head
41-5010	Deformity Head
41-7010	Trauma Head
41-1250	Straight Rod 6.0 x 250mm
41-1450	Straight Rod 6.0 x 450mm
41-6010	Extended Deformity Head
41-8010	Extended Trauma Head
41-4525-2	Cannulated Screw 4.50 x 25mm
41-4530-2	Cannulated Screw 4.50 x 30mm
41-4535-2	Cannulated Screw 4.50 x 35mm
41-4540-2	Cannulated Screw 4.50 x 40mm
41-4545-2	Cannulated Screw 4.50 x 45mm
41-5530-2	Cannulated Screw 5.50 x 30mm
41-5535-2	Cannulated Screw 5.50 x 35mm
41-5540-2	Cannulated Screw 5.50 x 40mm
41-5545-2	Cannulated Screw 5.50 x 45mm
41-5550-2	Cannulated Screw 5.50 x 50mm
41-6530-2	Cannulated Screw 6.50 x 30mm
41-6535-2	Cannulated Screw 6.50 x 35mm
41-6540-2	Cannulated Screw 6.50 x 40mm
41-6545-2	Cannulated Screw 6.50 x 45mm
41-6550-2	Cannulated Screw 6.50 x 50mm
41-6555-2	Cannulated Screw 6.50 x 55mm
41-6560-2	Cannulated Screw 6.50 x 60mm
41-7530-2	Cannulated Screw 7.50 x 30mm
41-7535-2	Cannulated Screw 7.50 x 35mm
41-7540-2	Cannulated Screw 7.50 x 40mm
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41-7555-2	Cannulated Screw 7.50 x 55mm
41-7560-2	Cannulated Screw 7.50 x 60mm
41-8535-2	Cannulated Screw 8.50 x 35mm
41-8540-2	Cannulated Screw 8.50 x 40mm
41-8545-2	Cannulated Screw 8.50 x 45mm

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41-9590-2 Cannulated Screw 9.50 x 90mm MM1-115250 MIS Straight Rod, 5.5 x 250mm MM1-115450 MIS Straight Rod, 5.5 x 450mm MM1-125030 MIS Precontoured Rod, 5.5 x 30mm MM1-125035 MIS Precontoured Rod, 5.5 x 35mm MM1-125040 MIS Precontoured Rod, 5.5 x 40mm MM1-125045 MIS Precontoured Rod, 5.5 x 45mm MM1-125050 MIS Precontoured Rod, 5.5 x 50mm MM1-125055 MIS Precontoured Rod, 5.5 x 55mm MM1-125060 MIS Precontoured Rod, 5.5 x 66mm MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 100mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	41-9570-2	Cannulated Screw 9.50 x 70mm
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MM1-115450 MIS Straight Rod, 5.5 x 450mm MM1-125030 MIS Precontoured Rod, 5.5 x 30mm MM1-125035 MIS Precontoured Rod, 5.5 x 35mm MM1-125040 MIS Precontoured Rod, 5.5 x 40mm MM1-125045 MIS Precontoured Rod, 5.5 x 45mm MM1-125050 MIS Precontoured Rod, 5.5 x 50mm MM1-125055 MIS Precontoured Rod, 5.5 x 55mm MM1-125060 MIS Precontoured Rod, 5.5 x 60mm MM1-125070 MIS Precontoured Rod, 5.5 x 65mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	41-9590-2	Cannulated Screw 9.50 x 90mm
MM1-125030 MIS Precontoured Rod, 5.5 x 30mm MM1-125035 MIS Precontoured Rod, 5.5 x 35mm MM1-125040 MIS Precontoured Rod, 5.5 x 40mm MM1-125045 MIS Precontoured Rod, 5.5 x 45mm MM1-125050 MIS Precontoured Rod, 5.5 x 50mm MM1-125055 MIS Precontoured Rod, 5.5 x 55mm MM1-125060 MIS Precontoured Rod, 5.5 x 60mm MM1-125065 MIS Precontoured Rod, 5.5 x 65mm MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-115250	MIS Straight Rod, 5.5 x 250mm
MM1-125035 MIS Precontoured Rod, 5.5 x 35mm MM1-125040 MIS Precontoured Rod, 5.5 x 40mm MM1-125045 MIS Precontoured Rod, 5.5 x 45mm MM1-125050 MIS Precontoured Rod, 5.5 x 50mm MM1-125055 MIS Precontoured Rod, 5.5 x 55mm MM1-125060 MIS Precontoured Rod, 5.5 x 60mm MM1-125065 MIS Precontoured Rod, 5.5 x 65mm MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-115450	MIS Straight Rod, 5.5 x 450mm
MM1-125040 MIS Precontoured Rod, 5.5 x 40mm MM1-125045 MIS Precontoured Rod, 5.5 x 45mm MM1-125050 MIS Precontoured Rod, 5.5 x 50mm MM1-125055 MIS Precontoured Rod, 5.5 x 55mm MM1-125060 MIS Precontoured Rod, 5.5 x 60mm MM1-125065 MIS Precontoured Rod, 5.5 x 65mm MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125030	MIS Precontoured Rod, 5.5 x 30mm
MM1-125045 MIS Precontoured Rod, 5.5 x 45mm MM1-125050 MIS Precontoured Rod, 5.5 x 50mm MM1-125055 MIS Precontoured Rod, 5.5 x 55mm MM1-125060 MIS Precontoured Rod, 5.5 x 60mm MM1-125065 MIS Precontoured Rod, 5.5 x 65mm MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125035	MIS Precontoured Rod, 5.5 x 35mm
MM1-125050 MIS Precontoured Rod, 5.5 x 50mm MM1-125055 MIS Precontoured Rod, 5.5 x 55mm MM1-125060 MIS Precontoured Rod, 5.5 x 60mm MM1-125065 MIS Precontoured Rod, 5.5 x 65mm MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125040	MIS Precontoured Rod, 5.5 x 40mm
MM1-125055 MIS Precontoured Rod, 5.5 x 55mm MM1-125060 MIS Precontoured Rod, 5.5 x 60mm MM1-125065 MIS Precontoured Rod, 5.5 x 65mm MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125045	MIS Precontoured Rod, 5.5 x 45mm
MM1-125060 MIS Precontoured Rod, 5.5 x 60mm MM1-125065 MIS Precontoured Rod, 5.5 x 65mm MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125050	MIS Precontoured Rod, 5.5 x 50mm
MM1-125065 MIS Precontoured Rod, 5.5 x 65mm MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125055	MIS Precontoured Rod, 5.5 x 55mm
MM1-125070 MIS Precontoured Rod, 5.5 x 70mm MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125060	MIS Precontoured Rod, 5.5 x 60mm
MM1-125080 MIS Precontoured Rod, 5.5 x 80mm MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125065	MIS Precontoured Rod, 5.5 x 65mm
MM1-125090 MIS Precontoured Rod, 5.5 x 90mm MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125070	MIS Precontoured Rod, 5.5 x 70mm
MM1-125100 MIS Precontoured Rod, 5.5 x 100mm MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125080	MIS Precontoured Rod, 5.5 x 80mm
MM1-125110 MIS Precontoured Rod, 5.5 x 110mm	MM1-125090	MIS Precontoured Rod, 5.5 x 90mm
	MM1-125100	MIS Precontoured Rod, 5.5 x 100mm
MM1-125120 MIS Precontoured Rod, 5.5 x 120mm	MM1-125110	MIS Precontoured Rod, 5.5 x 110mm
	MM1-125120	MIS Precontoured Rod, 5.5 x 120mm

PART NUMBER	PART DESCRIPTION
41-1510-1	Solid Screw 10.50 x 100mm
41-1511-1	Solid Screw 10.50 x 110mm
41-1535-1	Solid Screw 10.50 x 35mm
41-1540-1	Solid Screw 10.50 x 40mm
41-1545-1	Solid Screw 10.50 x 45mm
41-1550-1	Solid Screw 10.50 x 50mm
41-1555-1	Solid Screw 10.50 x 55mm
41-1560-1	Solid Screw 10.50 x 60mm
41-1570-1	Solid Screw 10.50 x 70mm
41-1580-1	Solid Screw 10.50 x 80mm
41-1590-1	Solid Screw 10.50 x 90mm
41-2030	Precontoured Rod 6.0 x 30mm
41-2035	Precontoured Rod 6.0 x 35mm
41-2040	Precontoured Rod 6.0 x 40mm
41-2045	Precontoured Rod 6.0 x 45mm
41-2050	Precontoured Rod 6.0 x 50mm
41-2055	Precontoured Rod 6.0 x 55mm
41-2060	Precontoured Rod 6.0 x 60mm
41-2065	Precontoured Rod 6.0 x 65mm
41-2070	Precontoured Rod 6.0 x 70mm
41-2080	Precontoured Rod 6.0 x 80mm
41-2090	Precontoured Rod 6.0 x 90mm
41-2100	Precontoured Rod 6.0 x 100mm
41-2110	Precontoured Rod 6.0 x 110mm
41-2120	Precontoured Rod 6.0 x 120mm
41-2441	Contoured Crossbar Small 6.0 Rod
41-4241	Contoured Crossbar Small 6.0 Rod
41-4252	Contoured Crossbar Medium 6.0 Rod
41-4275	Contoured Crossbar Large 6.0 Rod
10200450	Malleable Rod 5.5 x 450
10200500	Malleable Rod 5.5 x 500
10200600	Malleable Rod 5.5 x 600
MM1-000020	MIS Polyaxial Head
MC1-160060	Cortical Shank Cannulated 6.0 x 50mm

PART NUMBER	PART DESCRIPTION
MM1-145030	MIS Constrained Rod 5.5 x 30mm
MM1-145035	MIS Constrained Rod 5.5 x 35mm
MM1-145040	MIS Constrained Rod 5.5 x 40mm
MM1-145045	MIS Constrained Rod 5.5 x 45mm
MM1-145050	MIS Constrained Rod 5.5 x 50mm
MM1-145055	MIS Constrained Rod 5.5 x 55mm
MM1-145060	MIS Constrained Rod 5.5 x 60mm
MM1-145065	MIS Constrained Rod 5.5 x 65mm
MM1-145070	MIS Constrained Rod 5.5 x 70mm
MM1-146030	MIS Constrained Rod 6.0 x 30mm
MM1-146035	MIS Constrained Rod 6.0 x 35mm
MM1-146040	MIS Constrained Rod 6.0 x 40mm
MM1-146045	MIS Constrained Rod 6.0 x 45mm
MM1-146050	MIS Constrained Rod 6.0 x 50mm
MM1-146030	MIS Constrained Rod 6.0 x 30mm
MM1-146035	MIS Constrained Rod 6.0 x 35mm
MM1-146040	MIS Constrained Rod 6.0 x 40mm
MM1-146045	MIS Constrained Rod 6.0 x 45mm
MM1-146050	MIS Constrained Rod 6.0 x 50mm
MM1-146055	MIS Constrained Rod 6.0 x 55mm
MM1-146060	MIS Constrained Rod 6.0 x 60mm
MM1-146065	MIS Constrained Rod 6.0 x 65mm
MM1-146070	MIS Constrained Rod 6.0 x 70mm
MM1-156030	MIS Precontoured Rod 6.0 x 30mm
MM1-156035	MIS Precontoured Rod 6.0 x 35mm
MM1-156040	MIS Precontoured Rod 6.0 x 40mm
MM1-156045	MIS Precontoured Rod 6.0 x 45mm
MM1-156050	MIS Precontoured Rod 6.0 x 50mm
MM1-156055	MIS Precontoured Rod 6.0 x 55mm
MM1-156060	MIS Precontoured Rod 6.0 x 60mm
MM1-156065	MIS Precontoured Rod 6.0 x 65mm
MM1-156070	MIS Precontoured Rod 6.0 x 70mm
MM1-156080	MIS Precontoured Rod 6.0 x 80mm
MM1-156090	MIS Precontoured Rod 6.0 x 90mm
MM1-156100	MIS Precontoured Rod 6.0 x 100mm
MM1-156110	MIS Precontoured Rod 6.0 x 110mm
MM1-156120	MIS Precontoured Rod 6.0 x 120mm

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CONTACT INFORMATION

A notice that any serious incident that occurs in relation to the device should be reported to the manufacturer and to the TGA. Any serious incident that occurs in relation to the device should be reported to SeaSpine* via phone, fax, or email. When possible, retain the product involved in the complaint and return to SeaSpine as instructed by SeaSpine Customer Service; Complaints@seaspine.com and the Therapeutic Goods Administration (TGA) www.tga.gov.au.

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This patient information leaflet has been designed to assist you in understanding a treatment option that your surgeon has advised may be suitable for you to treat your pain, and related problems. The aim of this leaflet is to provide you with information about one treatment option and how this may assist in alleviating your current pain and discomfort.

Reading this leaflet should not take the place of talking with your surgeon. Please read this leaflet in its entirety before your surgery and should you have any further questions ensure you discuss this with your surgeon before proceeding with your surgery.

As with any type of surgery, Minimally Invasive Posterior Fixation surgery carries risks. Your surgeon will discuss with you the risks associated with you prescribed procedure.





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