

Assure
the benefits
of lumbar
surgery

with **MediShield™**

Specific Accuracy in Adhesion Prevention



Medtronic
SOFAMOR DANEEK

Post-surgical, peridural adhesions: an undesired complication of an otherwise successful surgery

Post-surgical adhesions are quite a frequent occurrence, which consequences may seriously jeopardize the outcome of a lumbar surgery.

This phenomenon is part of a process normally referred to as "post-surgical fibrosis", and the factors which may determine its occurrence are largely unpredictable. It may take place regardless of the patient's age and lifestyle, and of the surgical technique used.

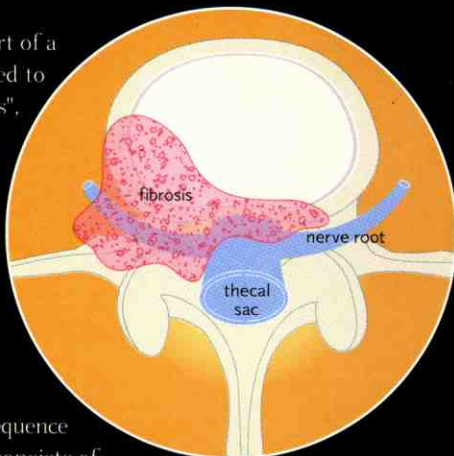
The most common consequence of such a complication consists of permanent adherence process, involving part of the Thecal Sac and of the Nerve Root.

These delicate neural elements, once the scar is formed, may end up being encapsulated by the surrounding "fibrous" tissue. Compression and "tethering effect" may severely limit the gliding capabilities of the Nerve Root.

Ultimately, the practical consequences of this abnormal (yet frequent) scarring are:

- recurrent pain, of increasing severity
- numbness of lower limbs
- weakness of lower limbs

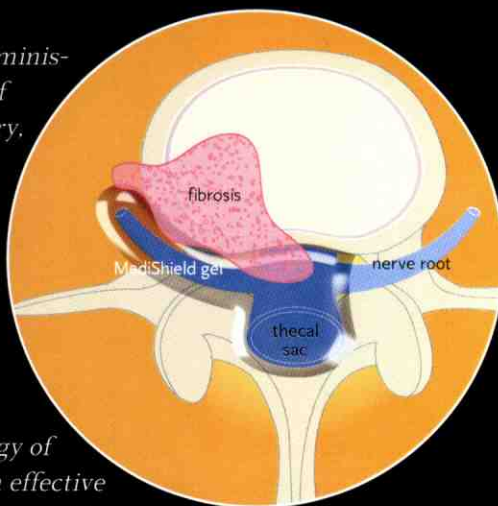
In a few words, the quality of life, and the ability to perform ordinary daily-life activities, may be significantly affected.



Preventing the post-surgical adhesion formation

Recent advances in the ongoing quest for the ideal anti-adhesion device have brought to the development of an innovative, state of the art product: **MediShield™**, a GEL FORMULATED

preparation, is administered at the end of the lumbar surgery, and is specifically designed to prevent the formation of adhesions, while the scarring process is taking place. It does not alter the physiology of scar, but forms an effective barrier, which prevents the adhesion process.





QUESTIONS and ANSWERS

• How does MediShield™ act?

Scar tissue formation around the thecal sac and the nerve roots is an inevitable consequence of lumbar spine surgery. The purpose of MediShield is to prevent the scar tissue from becoming attached to the dural sac and nerve root and causing persistent post-operative pain. The application of MediShield forms a protective barrier-layer of gel over these structures. This barrier prohibits the proteins involved in the adhesion-formation process (such as Fibrinogen and Fibrin) from attaching to the underlying structures and forming a permanent adhesion.

• What is MediShield made of?

MediShield is an association of well-tolerated, biocompatible substances, whose safety profile is well known and has been subject to extensive tests.

• Are there any contraindications to MediShield's application?

Normally, there aren't. However,

its application is subject to the surgeon's approval: it is always recommended to inform the surgeon about the episodes of allergic reactions you may have suffered from.

• Does the effect of MediShield depend on the patient's age?

Any patient, whatever his/her age and general conditions, may be potentially eligible for treatment with MediShield, as the unfavorable outcome of the scarring process may take place unpredictably.

• Is a single treatment sufficient?

Yes. MediShield has been designed as a one-time (intraoperative) treatment. It does not need to be repeated after surgery.

• Does MediShield's administration extend surgery time or hospitalization?

The administration of MediShield is simple, safe, and takes only a few minutes. Applying MediShield does not extend your hospital stay and may reduce the need for pain-relief drugs post-operatively. Furthermore, if a rehabilitation program is prescribed, the program duration may be shortened and its effectiveness improved.

• How may I request MediShield's application?

Talk with your surgeon, to find out whether you are eligible for MediShield treatment, according to the type of surgical treatment you will be subject to.



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