

This leaflet provides an overview of autologous^[1] stem cell treatment for application in intervertebral discs. It will help answer some general questions. You should also consult with your healthcare professional.

What is Syngenit™?

Syngenit is a single surgical procedure used to regenerate a range of patient conditions using the patient's own stem cells.

What does the surgery involve?

The procedure takes place under sedation or a general anaesthetic (GA). Syngenit uses your own autologous cells derived from bone marrow stem cells and / or adipose (fat) tissue. The cells are concentrated and may be combined with carrier or scaffold materials. Biological glue and platelet rich plasma (PRP) can be prepared from your blood to support the regeneration process. Your surgeon will discuss which of these options are most suited to your treatment.

Questions and consent before my operation?

The healthcare team will discuss your individual care. If you do not understand anything, please ask. You will also see your surgeon prior to the surgery to ask any final questions and confirm your consent.

Will it be painful?

You are likely to expect some mild to moderate pain after the surgery, which will usually be well controlled with painkillers. Individuals heal at different rates and you may need painkillers on discharge and until you feel comfortable.

Are there risks?

Although rare there are risks such as infection, stiffness, numbness around the scar, blood clots, pain, swelling and failure. Your surgeon will explain each of these in more detail before the procedure.

Am I suitable for this procedure?

You must consider and formally consent to undergo this or any type of procedure. You should also commit to giving yourself the best opportunity for a successful outcome. If you are a smoker it is important that you stop a minimum of 3 months before the surgery and for at least a year afterwards. Smoking interferes with cell growth in bones and patient tissues and there is considerable evidence that the results of this type of surgery are worse in patients who smoke. Similarly, being overweight increases the stresses through the body. Patients are encouraged to consider their diet and exercise choices to optimise surgical readiness. Surgeries are not generally available to current smokers or those with a BMI^[2] over 35.

Will healthcare Insurers cover the cost of the treatment?

Some regenerative procedures are considered for cover by insurers, but this can vary. Patients should anticipate contributing towards or self-paying for certain procedures.

[1] Autologous (definition): Cells or tissues obtained from the same individual.

[2] Body Mass Index (definition): An approximate measure of whether someone is over or underweight calculated using their weight and height.

Write your notes and questions here.

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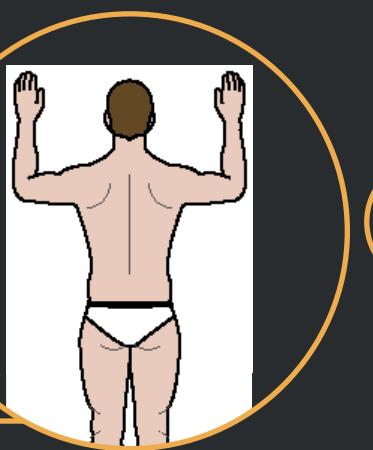
PATIENT INFORMATION LEAFLET

SYNGENIT™

Autologous Stem Cell Therapy
for Spinal Disc Injection

—Procedure Overview

The affected disc(s) are identified prior to the surgery using Magnetic Resonance Imaging (MRI). An arthroscopic procedure may also be used to verify the defect is suitable for this treatment.



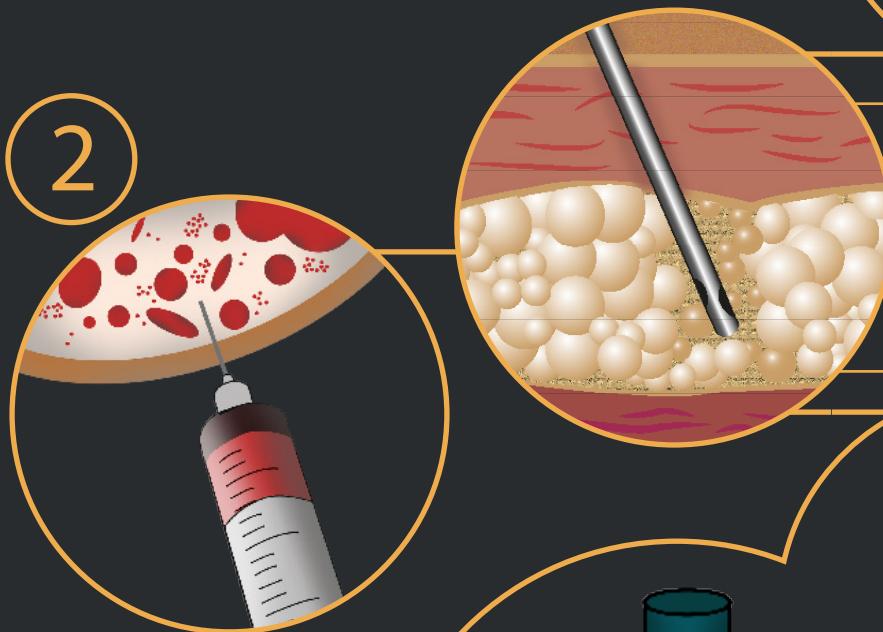
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Rehabilitation

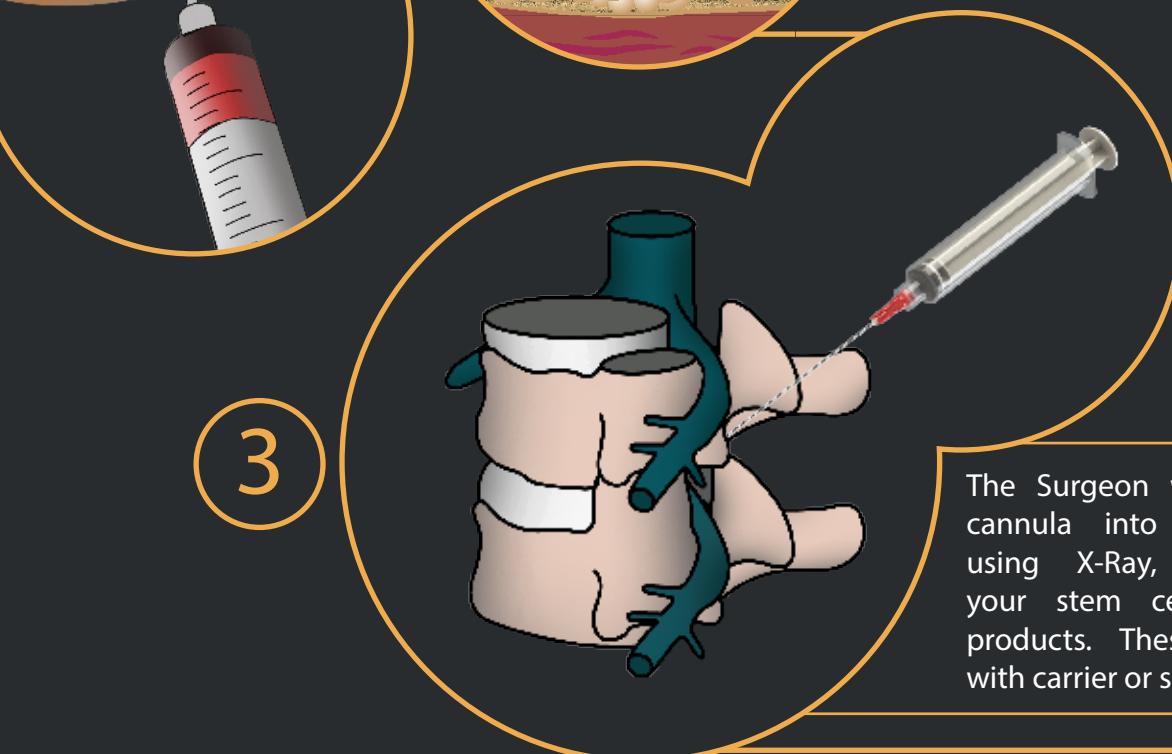
You will be encouraged to follow a rehabilitation programme to get you back to an active life as soon as possible.

Rehabilitation is an important part of your surgical recovery and we can advise and refer you to specialist physiotherapy services.

You may also be offered stimulation therapies in the following months.



Stem cells are found in your bone marrow and in adipose (fat) tissue. The surgeon may use either or both sources of cells in your treatment. Some of your blood may also be used as a source of regenerative materials and biological glue.



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The Surgeon will insert a needle or cannula into the identified disc(s) using X-Ray, and then introduce your stem cells and blood-derived products. These may be combined with carrier or scaffold materials.

