

Endoscopic Sinus Surgery Kit

INSTRUCTIONS FOR USE

CONTENTS

One Chitogel Endoscopic Sinus Surgery Kit contains:

- Sealed vial **A** containing 300mg Dextran Aldehyde powder
- Sealed vial **B** containing 10ml Sodium Phosphate buffer solution
- Sealed vial **C** containing 10ml Chitosan Succinamide solution
- 12cc applicator syringe
- Fluid dispensing connector
- Two (2) mixing cannulae
- Malleable cannula

ALSO REQUIRED

- Two (2) sterile 20ml Luer Lock syringes

PREPARATION TIME — 30 MINUTES

CONTAINS CHITOSAN (SHELLFISH)

DISPOSAL

Dispose of the Chitogel Endoscopic Sinus Surgery Kit per institutional guidelines.

CAUTION

Federal (USA) law restricts this device to sale by or on order of a physician.

VERSION 1.83

WARNINGS

- Chitogel Endoscopic Sinus Surgery Kit contains chitosan from shellfish and should not be used in patients with known allergic responses to shellfish. Physicians should test for shellfish allergic response if status unknown, prior to use.
- The Chitogel Endoscopic Sinus Surgery Kit should not be used in surgery involving any of the following complications:
 - Any form of cerebrospinal fluid leak; or
 - Any form of ophthalmic complication, including but not limited to orbital hemorrhage or hematoma and exposure of the orbital tissues.
- In rare instances, the physiochemical condition associated with Functional Endoscopic Sinus Surgery (FESS), both with and without material application, may present a risk of toxic shock syndrome (TSS). Warning signs of TSS include: sudden fever (usually 39°C or more), vomiting, diarrhea, dizziness, fainting (or near fainting when standing up), and/or a rash that looks like a sunburn.
- Foreign body reaction may occur as with most surgical adjuvant treatments.
- Chitogel Endoscopic Sinus Surgery Kit must be used according to the instructions for use. Read instructions prior to use.

PRECAUTIONS

- Verify that the surgical field is not bleeding excessively. Control excessive bleeding, as you would normally, prior to application of the Chitogel Endoscopic Sinus Surgery Kit material.
- Inspect the packaging to be sure that it is intact and undamaged prior to use. Do not use the product if the packaging is opened or damaged.
- Do not reuse or resterilize Chitogel Endoscopic Sinus Surgery Kit.
- Inspect the kit contents prior to use. Do not use the product if any of the sealed vials appear to have been opened or to have leaked, or if any of the components of the kit appear to be damaged.

INDICATIONS FOR USE

The Chitogel Endoscopic Sinus Surgery Kit is indicated for use in patients undergoing nasal / sinus surgery as a space occupying packing to:












- Separate tissue or structures compromised by surgical trauma;
- Separate and prevent adhesions between mucosal surfaces in the nasal cavity and minimize ostial stenosis following endoscopic sinus surgery;
- Control minimal bleeding following surgery or trauma by tamponade effect, blood absorption and platelet aggregation;
- Act as an adjunct to aid in the natural healing process.

The Chitogel Endoscopic Sinus Surgery Kit is indicated for use as a nasal packing to treat epistaxis.

CONTRAINDICATIONS

Patients with known shellfish allergies.

SYMBOL IDENTIFICATION

	Sterilized using ethylene oxide.
	Federal (USA) Law restricts this device to sale by or on order of a physician.
	Do not use if package is damaged.
	Caution.
	Consult instructions for use.
	Single use / Do not re-use.
	Reference number.
	Lot number.
	Date of manufacture.
	Use by.
	Manufacturer.

GENERAL INSTRUCTIONS

The Chitogel Endoscopic Sinus Surgery Kit (the "Kit") contains components and equipment for the preparation of a nasal gel (the "Gel") to be applied to the sinus cavities via a supplied applicator syringe and specifically designed malleable cannula.

In addition to the components supplied, the Kit also requires Two (2) sterile 20ml Luer Lock syringes to be provided by the user.

The Gel preparation will take approximately **30 minutes**, so preparation must start sufficiently in advance of when the Gel is expected to be used in surgery.

Once the Gel has been prepared it should be applied to the sinus cavities on **both sides within one hour** using the malleable cannula supplied with the Kit.

The Gel must be prepared on a sterile surface following these instructions.

There are two main components to the Gel.

1. Dextran Aldehyde (**A**), which is a dry powder, and is reconstituted into a liquid form through mixing the powder with a liquid Sodium Phosphate Buffer (**B**). Both of these components are supplied sterile.
2. The second component Chitosan Succinamide (**C**), is a liquid and is also supplied sterile.

The components of the Gel need to be combined following the detailed **Gel Combination Instructions** on the other side of this instruction pamphlet.

POST-OPERATIVE INSTRUCTIONS

The patient should be advised to undertake normal saline nasal washes 4–6 times per day for two weeks following surgery.

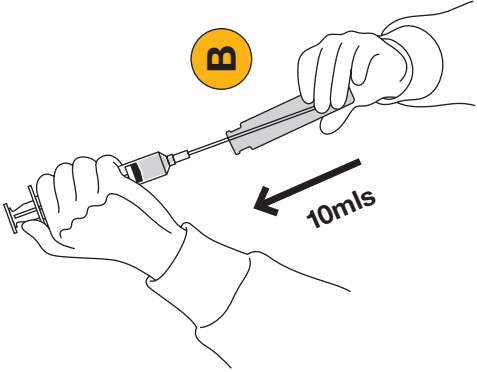
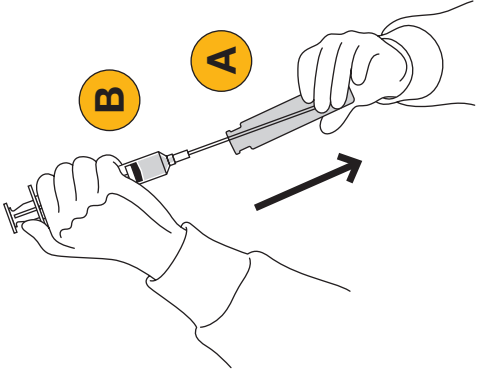
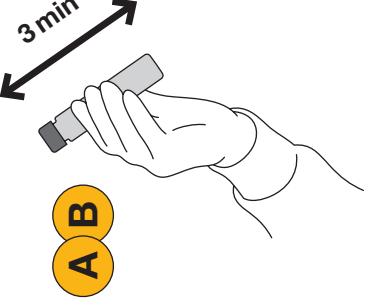

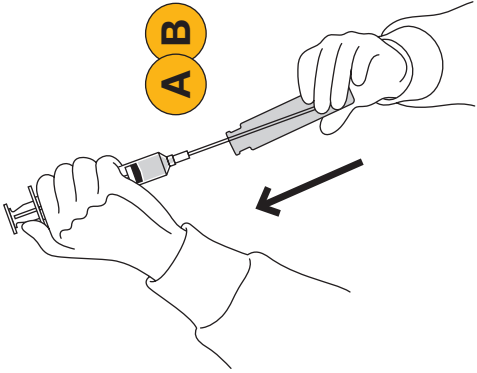
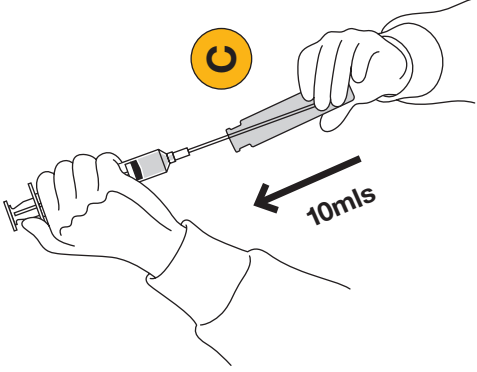
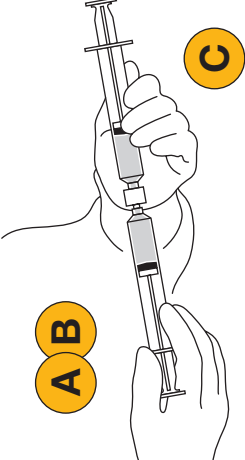
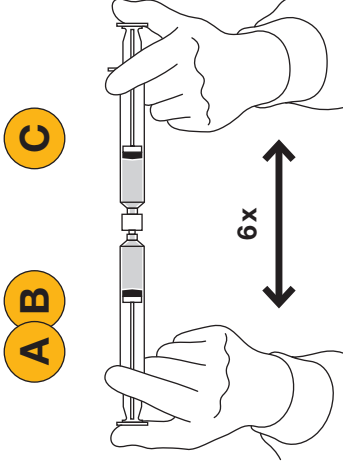

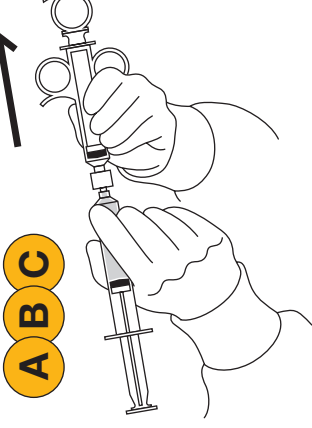
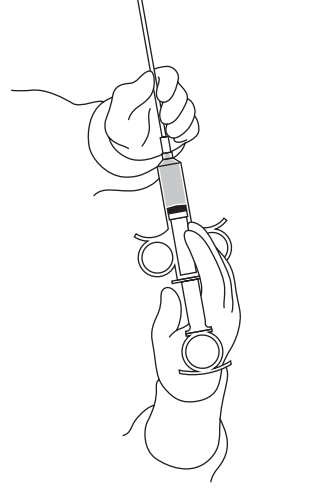
The patient should be advised that the nasal washing should be conducted using a normal nasal saline washing solution and each wash should use approximately 8 ounces / 240ml.

The patient must have a post operative review by the surgeon, within 1–2 weeks of the surgery.

At the first post-operative review by the surgeon, any remaining Gel in the sinus cavity should be removed, ideally with suction.

Endoscopic Sinus Surgery Kit / Gel Combination Instructions

Chitogel™ ★

<p>01</p> <p>Attach a mixing cannula to a 20ml Luer Lock syringe and aspirate 10mls of "B" into the syringe.</p> 	<p>02</p> <p>Place the 10 ml of "B" into the vial containing "A". Replace the cap on the vial containing "A" and "B".</p> 	<p>03</p> <p>Vigorously shake the vial containing "A" and "B" for at least 3 minutes.</p> 	<p>04</p> <p>Let "AB" stand with occasional shaking for at least 10 minutes.</p> 	<p>05</p> <p>Aspirate the new liquid contents, "AB", back into the same 20ml syringe.</p> 	<p>06</p> <p>Attach the second mixing cannula to the second 20ml Luer Lock syringe and aspirate 10mls of "C" into the syringe.</p> 
<p>07</p> <p>Remove the mixing cannulas. Then attach the syringe containing "C" to the syringe containing "AB" via the fluid dispensing connector.</p> 	<p>08</p> <p>Mix "AB" with "C". Repeat at least 6 times.</p> 	<p>09</p> <p>Wait at least 15 minutes to allow "AB" and "C" to set into the Gel.</p> 	<p>10</p> <p>Place all the Gel into one of the 20ml syringes. Then disconnect the empty syringe from the fluid dispensing connector. Check the Gel has set by inverting the syringe containing the Gel and aspirating an air bubble into the syringe. If the Gel has set, the air bubble will not move in the syringe. Caution: do not use the Gel before it has set.</p>	<p>11</p> <p>Attach the syringe containing the Gel "ABC", onto the applicator syringe, via the fluid dispensing connector. Transfer 10mls of gel into the applicator syringe.</p> 	<p>12</p> <p>Remove the applicator syringe from the fluid dispenser. Then attach the malleable cannula to the applicator syringe. Then apply to sinus cavity on one side.</p> 

Repeat Step 11 & 12 for each sinus side.