Singclean® Model No.

Product	Specification	Model No. Singclean®
Medical Sodium Hyaluronate Gel for Anti-adhesion	10 mg/mL: 0.5 mL	ADH-SC-10-0.5
	10 mg/mL: 0.75 mL	ADH-SC-10-0.75
	10 mg/mL: 1.0 mL	ADH-SC-10-1.0
	10 mg/mL: 2.0 mL	ADH-SC-10-2.0
	10 mg/mL: 2.5 mL	ADH-SC-10-2.5
	10 mg/mL: 3.0 mL	ADH-SC-10-3.0
	10 mg/mL: 5.0 mL	ADH-SC-10-5.0
	10 mg/mL: 10 mL	ADH-SC-10-10
	10 mg/mL: 15 mL	ADH-SC-10-15
	10 mg/mL: 17 mL	ADH-SC-10-17
	10 mg/mL: 20 mL	ADH-SC-10-20

SINGCLEAN

Singclean® Patented Absorbable Adhesion Barrier Gel

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Singclean®

Medical Sodium Hyaluronate Gel for Anti-adhesion

Ideal for preventing or reducing postoperative adhesions after abdominal and pelvic surgery

Safe | No Immunogen | Completely Biodegraded | Appropriate Absorption Time

Singclean® Patented Absorbable Adhesion Barrier Gel

Product Name:

Singclean® Medical Sodium Hyaluronate Gel for Anti-adhesion



Indications:

Singclean® is indicated for helping to prevent or reduce postoperative adhesions after abdominal and pelvic surgery.

Specifications:

10 mg/mL: 0.5 mL 0.75 mL 1.0mL 2.0 mL 2.5 mL 3.0 mL 5.0 mL 15 mL 17 mL 20 mL

Product Advantages:

Safe

Produced by bacterial fermentation without the riskof virus carriage.

No immunogen

Hyaluronic acid is a naturally occurring substance found in the human body.
This natural biocompati-bility means there is no autoimmune rejection and it is less likely to cause adverse reactions.

Excellent biocompatibility

Completely degradated in the body and naturally cleared from the body.

Optimized absorption time of 7 days

Degradation of hyaluronic acid (HA) beyond 7 days will endanger the healing process of peritoneal wounds.

Why Singclean is Ideal For Anti-adhesion?

Adhesion formation begins immediately after surgery. No new adhesion formation occurs after day 7[1]. Theoretically, optimal prevention of adhesion formation requires intervention throughout the critical 7- day period of peritoneal healing[2].

Singclean®, as a new type of anti-adhesion polymer material with high molecular weight, fully diffuses and distributes in the entire cavity due to its fluidity and adhesion, forming a spatial sieve-like network structure, and its degradation cycle is consistent with the adhesion formation process to provide complete coverage during the critical period of peritoneal healing.

REFERENCES

1. Davey AK, Maher PJ. Surgical adhesions: a timely update, a great challenge for the future. J Minim Invasive GynecoL.2007; 14:15-22.

2. Gonzalez-Quintero VH, Cruz-Pachano FE. Preventing adhesions in obstetric and gynecologic surgical procedures [J]. Rev Obstet Gynecol, 2009, 2 :38-45.

Mode of Action

Biomechanical barrier

1. The main composition of Singclean® is HA. HA is a macromolecular mucopolysaccharide, N-acetylglucosamine and glucuronic acid alternately form a network structure. Therefore, Singclean® can form a network of macromolecules on the surface of the tissue, build a biomechanical barrier, block inflammation from normalserosal membranes and prevent tissue adhesion.

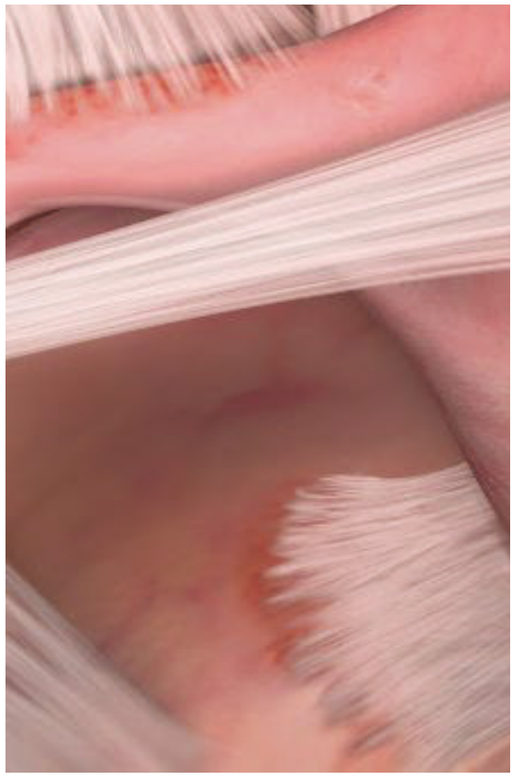
Lubricating properties

2. Its lubricating properties can also reduce friction during wound healing and promote wound healing.

Appropriate absorption time

3. As a barrier to prevent adhesion, appropriate degradation time is crucial, and generally more than 7 days of HA will endanger the healing process of peritoneal wounds. Exogenous HA, under the action of hyaluronidase, is first degraded in lymph nodes and liver. After partial degradation, it enters the blood circulation, breaks down into monosaccharides, and is transferred to the cytoplasm to participatein matrix metabolism, and finally excreted from the body.

Applications



CESAREAN SECTION

Usage: After removing the foetus and suturing the myometrium, apply 5 mL of sodium hyaluronate gel to the surface of the uterineincision, the bladder reflexion and the medial aspect of the rectus abdominis muscle.

HYSTEROSCOPIC SURGERY (END-OMETRIAL POLYPS, MYOMA ENU-CLEATION, UTERINE LONGITUDINAL SEPTUM, SEPARATION OF UTERINE ADHESIONS, ETC.)

Usage: Inject 2-3mL of sodium hyaluronate gel into the uterine cavity after surgery.

ABDOMINOPELVIC SURGERY ON OBSTETRICS ANDGYNAECOLOGY (OVARIAN CYST EXCISION,ENDOMETRIOSIS EXCISION, ETC.)

Usage: Apply 5-20 mL of medical sodium hyaluronate gel to theperitoneum and pelvic area before closing the abdomen.

FALLOPIAN TUBE RECANALIZATION

Usage: Inject 2 mL of sodium hyaluronate gel into the fallopiantube after the tubal lavage operation is completed.

ABDOMINAL OPERATIONS IN GENERAL SURGERY

Clinical Benefits

Singclean® can inhibit the deposition and condensation of fibrin, form a physical barrier and protect the wound surface from friction. It can stay in the body fora bout 7 days, achieving the effectiveness of postoperative anti-adhesion, and the incidence of adverse events is low.

Singclean® Clinical Data

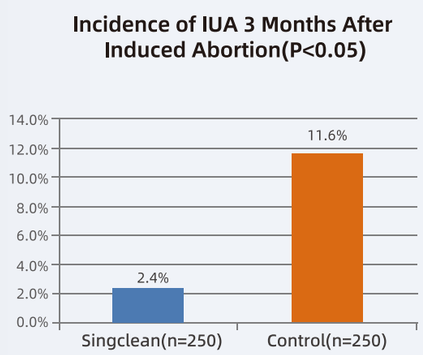
A total of 307 cases of obstetrics and gynecology and general surgery were enrolled, including 161 cases of obstetrics and gynecology and 146 cases of general surgery (including Hepatobiliary Pancreatic Splenic Surgery, Gastrointestinal Surgery, and Hernia Surgery).

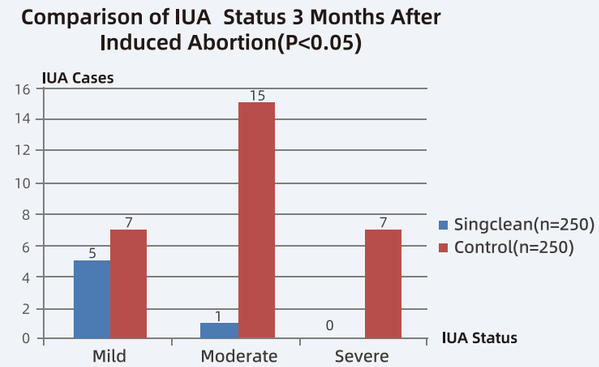
(1) The average age of the test group was 38.33±12.90 years old, the average height of the test group was 162.17±6.61cm, the average weight of the test group was 58.67±11.6 3kg, the test group consistedof 67 males and 240 females.

(2) The main evaluation index of this clinical trial is the incidence of adhesion events infertility within 12 months after operation.

307 cases were followed up 12 months after the completion of the surgery. No adhesion events (postoperative pain, intestinal obstruction, female infertility) occurred.







The B-ultrasound results at 3 months after operation showed that Singclean® Medical Sodium Hyaluronate Gel for Anti-adhesion can effectively reduce the occurrence of IUA after induced abortion, especially the incidence of moderate and severe IUA was significantly reduced.

The patients received B-ultrasound reexamination 3 months after operation, and hysteroscopy examinationwas performed to evaluate the situation of IUA if B-ultrasound showed IUA. The evaluation criteria for the degree of IUA are based on the "Expert Consensus on the Diagnosis and Management of Intrauterine Adhesions in China" issued by The Chinese Obstetricians and Gynecologists Association in 2015.

Singclean® Usage Steps

1. Open Singclean box and take the product out.



2. Follow the indication, peel-open the blister tray, remove the Singclean® syringe and place on sterile field.



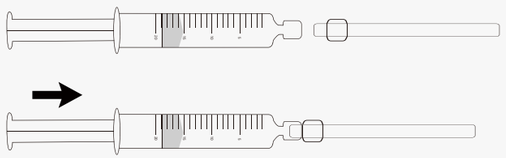
3. Inject Singclean® gel into the cavity to completely cover the surface of the organs.

Application Scenario 1: Laparoscopy

①Firstly, remove the protect cap from the syringe

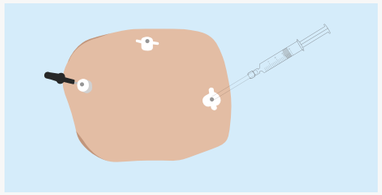


②Then fix the disposable cannula on the syringe

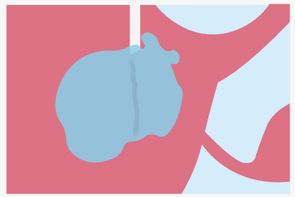


③After assembly, push the syringe until the gel fill the cannula to the top

④After the operation, insert the cannula into the abdominal or pelvic cavity through laparoscope

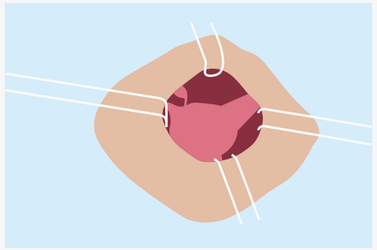


⑤Then, push the syringe to apply the gel on the injured surface and surrounding tissue

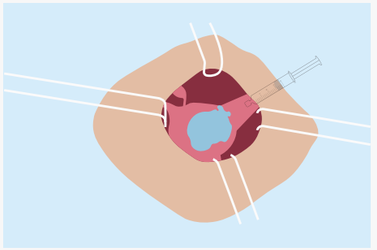


Application Scenario 2: Open Surgery

①Like in laparotomy, the gel can be applied without the cannula



②The gel will improve the injury repair and reduce the adhesion and be absorbed in 7 days



4.In order to achieve the best adhesion prevention results, the gel should not only be applied to the organs that are operated on but also to cover organs away from the surgical areas as much as possible.

5. The amount of gel in every single use depends on the area of surgical wounds.
The maximum dosage regimen is no more than 50mL.

Certifications:

Singclean® Medical Sodium Hyaluronate Gel for Anti-adhesion has obtained certifications in 37 countries,

including China, UK, European Union, Thailand, Vietnam, Peru and many more, and has gained recognition and trust from doctors worldwide due to its exceptional effectiveness in preventing or reducing postoperative adhesions after abdominal and pelvic surgery.