

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. After abdominal and pelvic surgery, inject Singclean® gel into the cavity to completely cover the surface of the organs.
- 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.

SINGCLEAN

Singclean® Patented Absorbable Adhesion Barrier Gel

 No.125(E),10th Street, Hangzhou Qiantang Area, Zhejiang. China
 310018
 +86-571-63431868 Fax:+86-571-63431886
 marketing@singclean.net
 www.singclean.net

CE
2460

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

Hangzhou Singclean Medical Products Co., Ltd.

Singclean®



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, 0.75ml, 1.0ml, **2.0 ml**, **2.5 ml**
3.0ml, **5.0 ml**, 15ml, 17ml, 20ml

Product Advantages:

- Safe**
Produced by bacterial fermentation without the risk of virus carriage.
- No immunogen**
Hyaluronic acid is a naturally occurring substance found in the human body. This natural biocompatibility means there is no autoimmune rejection and it is less likely to cause adverse reactions.
- Excellent biocompatibility**
Completely degraded 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 7¹. Theoretically, optimal prevention of adhesion formation requires intervention throughout the critical 7-dayperiod of peritoneal healing².

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.

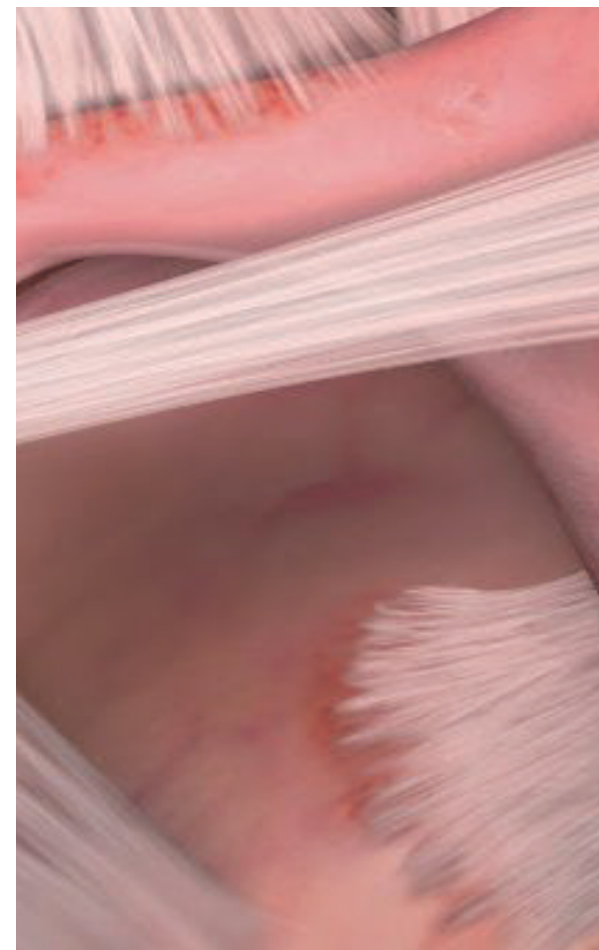
REFERENCES

- Davey AK, Maher PJ. Surgical adhesions: a timely update, a great challenge for the future. J Minim Invasive Gynecol.2007; 14:15-22.
- 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 normal serosal membranes and prevent tissue adhesion.
- Lubricating properties**
2.Its lubricating properties can also reduce friction during wound healingand 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 5ml of sodium hyaluronate gel to the surface of the uterine incision, 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 AND GYNAECOLOGY (OVARIAN CYST EXCISION, ENDOMETRIOSIS EXCISION, ETC.)

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

◆ FALLOPIAN TUBE RECANALIZATION

Usage: Inject 2ml of sodium hyaluronate gel into the fallopian tube 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 for about 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)

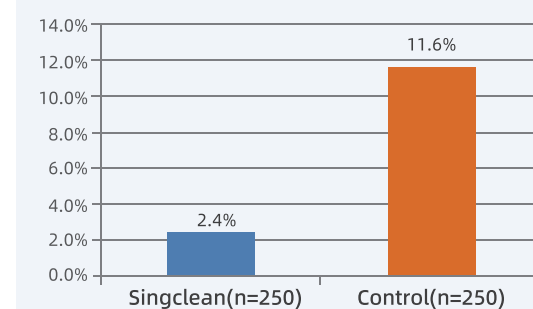
(1) The average age of the test group was 38.33±12.90 years old, the average height of the test group was 162.17±6.61cm, the average weight of the test group was 58.67±11.6 3kg, the test group consisted of 67 males and 240 females.

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

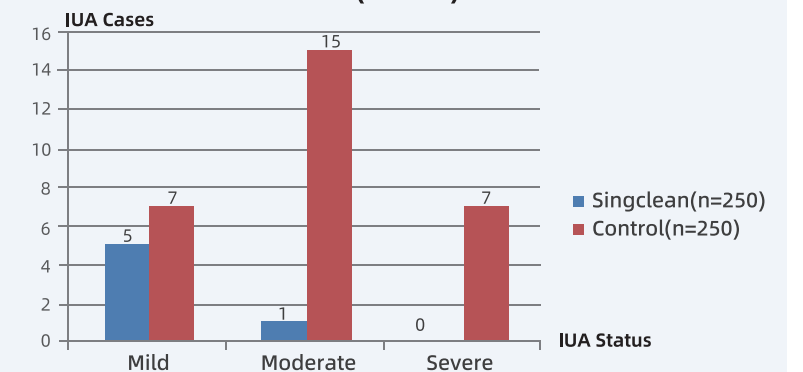
307 cases were followed up 12 months after the completion of the surgery. No adhesion events (postoperative pain, intestinal obstruction, female infertility) occurred.



Incidence of IUA 3 Months After Induced Abortion(P<0.05)



Comparison of IUA Status 3 Months After Induced Abortion(P<0.05)



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 examination was 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.