Alexis®
Wound Protector-Retractors
IS ALEXIS
PART OF YOUR
STANDARD
OF CARE?
Rate of Superficial Incisional Surgical Site Infections – Alexis Protectors vs Standard Retractors

<table>
<thead>
<tr>
<th>Study</th>
<th>Alexis Protectors</th>
<th>Standard Retractors</th>
<th>P Value</th>
<th>RRR* (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reid et al.¹</td>
<td>4.69% (3/64)</td>
<td>20% (6/30)</td>
<td>0.004</td>
<td>79%</td>
</tr>
<tr>
<td>Cheng et al.²</td>
<td>0% (0/34)</td>
<td>22.7% (15/66)</td>
<td>0.006</td>
<td>89%</td>
</tr>
<tr>
<td>Lee et al.³</td>
<td>1.6% (1/61)</td>
<td>14.6% (7/48)</td>
<td>0.02</td>
<td>89%</td>
</tr>
<tr>
<td>Horiuchi et al.⁴</td>
<td>8% (8/100)</td>
<td>0% (0/111)</td>
<td>0.0021</td>
<td>100%</td>
</tr>
<tr>
<td>Hinkson et al.⁵</td>
<td>0% (0/111)</td>
<td>8% (8/100)</td>
<td>0.035</td>
<td>87%</td>
</tr>
</tbody>
</table>

*RRR (relative risk reduction) was defined as the proportion of the control group (standard retractors) experiencing a given outcome minus the proportion of the treatment group (Alexis protectors) experiencing the outcome, divided by the proportion of the control group (standard retractors) experiencing the outcome.
†The data reflects both superficial and deep incisional and organ space SSI.

The Alexis wound protector

...offers 360-Degree Protection
- Reduces surgical site infection.¹-⁵
- Shields the incision site from bacterial invasion.⁶,⁷
- Maintains moisture to promote healing.⁸

...provides 360-Degree Atraumatic Retraction
- Allows for maximum exposure with a minimal incision size.
- Offers unparalleled exposure without the trauma and pain associated with prolonged point retraction.
- Provides hands-free retraction, reducing the strain, discomfort and fatigue associated with traditional hand-held retractors.⁹
- Creates a tamponade effect to minimize blood loss.⁵

...offers Adaptability and Versatility
- Accommodates a wide range of specialties, patient sizes and incision sizes.
- Facilitates rapid and effortless setup.
## Procedural Applications

### Colon and Rectal
- Lap colectomy (S and M laparoscopic system)
- Open colectomy (L, XL, XXL, XXXL)

### Bariatric
- Lap gastric bypass (XS, S)
- Open gastric bypass (L, XL)

### General
- Inguinal hernia repair (XS, S)
- Thyroidectomy (XS, S)
- Appendectomy (S, M)
- Splenectomy (L, XL)
- Pancreatectomy (L, XL)
- Whipple (L, XL, XXL, XXXL)

### Cardiothoracic
- Video-assisted thoracoscopic surgery (VATS) (XXS, XS, S)
- Mitral valve repair or replacement (S, M)
- Thoracotomy (S, M)

### OB/GYN
- Postpartum tubal ligation (XXS, XS)
- Bilateral salpingo-oophorectomy (XS, S)
- Lap hysterectomy (S and M laparoscopic system)
- Myomectomy (S, M)
- Total abdominal hysterectomy (S, M, L)
- Cesarean section (L, XL)

### Breast
- Lumpectomy (XS, S)
- Mastectomy (S, M)
- Sentinel lymph node biopsy (XXS, XS, S)

### Orthopaedic
- Total shoulder arthroplasty (XS/M, S/S, S/M)
- Total hip arthroplasty (S/M, M/L)
Clinical Evidence

Supporting the Use of Alexis Wound Protectors

“Our meta-analysis found that dual-ring wound protectors reduce the odds of SSI in patients undergoing lower gastrointestinal surgery . . . .

“... We demonstrated evidence of a subgroup difference where dual-ring wound protectors reduced SSIs while single-ring retractors did not, which provides greater insight in the choice of wound protection devices.”


“Among adult patients with intrabiliary stents, the use of a dual-ring wound protector during [pancreaticoduodenectomy] significantly reduces the risk of incisional SSI.”


“[T]he use of plastic-sheath wound retractors such as the Alexis® O C-Section Retractor compared to the traditional Collins self-retaining metal retractor in low-risk women, having the first cesarean is associated with a significantly reduced risk of surgical site infection.

“There is significant reduction in the use of electric cautery for subcutaneous bleeding, bowel handling and postoperative pain. Operator satisfaction is improved and postoperative pain is less.”


“Impervious plastic wound protectors reduce the risk of SSI when employed in non-trauma-related gastrointestinal and biliary tract surgery. Wound protectors represent a safe and simple intervention that may reduce postoperative morbidity and mortality.”


“Superficial incisional SSI was significantly diminished in the ALEXIS wound retractor group (P=0.006).”


“[E]nteric organisms were cultured twice as often from the inside surface of the retractor compared with the outside surface of the retractor (49% vs 26%, respectively; P < 0.0001).”

“These results suggest that the [wound protector] protects an incision site from bacterial invasion.”


“There was a significant reduction in the incidence of incisional surgical site infections when the wound protector was used: 3 of 64 (4.7%) vs 15 of 66 (22.7%); P = .004. . . .”

“… In this study the use of barrier wound protection in elective open colorectal resectional surgery resulted in a clinically significant reduction in incisional surgical site infections.”


“Our data demonstrate that a statistically significant reduction in the incidence of wound infection was achieved with the use of a wound-protection device. This device provides a simple intervention that may eventually have a large impact on the incidence of surgical wound infection and therefore annual health care expenditures.”


“We found that the wound retractor/protector prevented the incision site from drying, decreased tissue damage, and facilitated the migration of neutrophils, suggesting a preventive effect of the device with respect to wound infection. . . .”

“… The studied wound retractor/protector effectively protects wound tissue from damage due to environmental factors experienced during surgery.”


“Wound infection was significantly diminished in the With Alexis retractor group (p=0.0021).”

## Alexis O Wound Protector-Retractors
*Featuring a rigid retraction ring for maximum exposure*

<table>
<thead>
<tr>
<th>Reorder No.</th>
<th>Size</th>
<th>Sheath Length</th>
<th>Incision Range</th>
<th>Qty/Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>C8401*</td>
<td>Small</td>
<td>18cm</td>
<td>2.5–6cm</td>
<td>5</td>
</tr>
<tr>
<td>C8402</td>
<td>Medium</td>
<td>18cm</td>
<td>5–9cm</td>
<td>5</td>
</tr>
<tr>
<td>C8403</td>
<td>Large</td>
<td>25cm</td>
<td>9–14cm</td>
<td>5</td>
</tr>
<tr>
<td>C8404</td>
<td>Extra Large</td>
<td>34cm</td>
<td>11–17cm</td>
<td>5</td>
</tr>
<tr>
<td>C8405</td>
<td>Extra Extra Large</td>
<td>36cm</td>
<td>17–25cm</td>
<td>5</td>
</tr>
<tr>
<td>C8406</td>
<td>Extra Extra Large</td>
<td>39cm</td>
<td>25–32cm</td>
<td>3</td>
</tr>
</tbody>
</table>

## Alexis Wound Protector-Retractors
*Featuring a flexible retraction ring for anatomical conformity*

<table>
<thead>
<tr>
<th>Reorder No.</th>
<th>Size</th>
<th>Sheath Length</th>
<th>Incision Range</th>
<th>Qty/Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>C8313*</td>
<td>Extra Extra Small</td>
<td>20cm</td>
<td>1–3cm</td>
<td>5</td>
</tr>
<tr>
<td>C8323*</td>
<td>Extra Extra Small, Short</td>
<td>11cm</td>
<td>1–3cm</td>
<td>5</td>
</tr>
<tr>
<td>C8312*</td>
<td>Extra Small</td>
<td>19cm</td>
<td>2–4cm</td>
<td>5</td>
</tr>
<tr>
<td>C8322*</td>
<td>Extra Small, Short</td>
<td>13cm</td>
<td>2–4cm</td>
<td>5</td>
</tr>
<tr>
<td>C8301*</td>
<td>Small</td>
<td>18cm</td>
<td>2.5–6cm</td>
<td>5</td>
</tr>
<tr>
<td>C8302</td>
<td>Medium</td>
<td>18cm</td>
<td>5–9cm</td>
<td>5</td>
</tr>
<tr>
<td>C8303</td>
<td>Large</td>
<td>25cm</td>
<td>9–14cm</td>
<td>5</td>
</tr>
<tr>
<td>C8304</td>
<td>Extra Large</td>
<td>34cm</td>
<td>11–17cm</td>
<td>5</td>
</tr>
</tbody>
</table>

## Alexis O C-Section Protector-Retractors
*Featuring a rigid retraction ring for maximum uterine exposure*

<table>
<thead>
<tr>
<th>Reorder No.</th>
<th>Size</th>
<th>Sheath Length</th>
<th>Incision Range</th>
<th>Qty/Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>G6313</td>
<td>Large</td>
<td>25cm</td>
<td>9–14cm</td>
<td>5</td>
</tr>
<tr>
<td>G6314</td>
<td>Extra Large</td>
<td>34cm</td>
<td>11–17cm</td>
<td>5</td>
</tr>
</tbody>
</table>

*Models including a tether to facilitate device removal*
Alexis Orthopaedic Protectors

*Featuring a rigid retraction ring for maximum retraction and a flexible retraction ring for maximum versatility*

<table>
<thead>
<tr>
<th>Reorder No.</th>
<th>Size</th>
<th>Sheath Length</th>
<th>Incision Range</th>
<th>Qty/Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>C8501*</td>
<td>Small</td>
<td>18cm</td>
<td>2.5–6cm</td>
<td>6</td>
</tr>
<tr>
<td>C8502</td>
<td>Medium</td>
<td>18cm</td>
<td>5–9cm</td>
<td>6</td>
</tr>
</tbody>
</table>

Visit appliedmedical.com/alexis for more information.

Please contact your Applied Medical representative for more information on availability. This information is intended for dissemination exclusively to healthcare professionals and is not intended to replace labeling and Instructions for Use (IFU). Please refer to the IFU for the indications, contraindications, warnings, precautions, instructions and other information.

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