Alexis®
Protectors and Systems
ARE Alexis PRODUCTS PART OF YOUR STANDARD OF CARE?
Alexis Wound Protector-Retractors

360-Degree Wound Protection
- Using a wound protector-retractor reduces surgical site infection (SSI).\(^1\)\(^-\)\(^5\)
- The sheath shields the incision site from bacterial invasion.\(^6\)\(^-\)\(^7\)
- Moisture levels are maintained to promote healing.\(^8\)

360-Degree Atraumatic Retraction
- Circumferential retraction enables maximum exposure with a minimal incision size.
- Excellent exposure is achieved without the trauma and pain associated with prolonged point retraction.
- Hands-free retraction reduces the strain, discomfort and fatigue associated with using traditional hand-held retractors.\(^9\)
- Evenly distributed retraction creates a tamponade effect, minimizing blood loss.\(^5\)

Adaptability and Versatility
- Alexis O protector-retractors can be used in procedures for a wide range of specialties, patient sizes and incision sizes.
- Setup is rapid and effortless.

Rate of Superficial Incisional Surgical Site Infections – Alexis Protector-Retractors vs Standard Metal Retractors

<table>
<thead>
<tr>
<th>Study</th>
<th>Alexis protector-retractors</th>
<th>Standard metal retractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reid et al.(^1)</td>
<td>22.7% (15/66)</td>
<td>20% (6/30)</td>
</tr>
<tr>
<td>Cheng et al.(^2)</td>
<td>4.69% (3/64)</td>
<td>0% (0/34)</td>
</tr>
<tr>
<td>Lee et al.(^3)</td>
<td>14.6% (7/48)</td>
<td>1.6% (1/61)</td>
</tr>
<tr>
<td>Horiuchi et al.(^4)</td>
<td>P = .0021 100% RRR(^a)</td>
<td>0% (0/111)</td>
</tr>
<tr>
<td>Hinkson et al.(^5)</td>
<td>P = .035 87% RRR(^b)</td>
<td>8% (8/100)</td>
</tr>
</tbody>
</table>

\(^a\) RRR (relative risk reduction) was defined as the proportion of the control group (standard metal 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 metal retractors) experiencing the outcome.

\(^b\) The data reflects both superficial and deep incisional and organ space surgical site infection.
## Procedural Applications

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

### Bariatric
- Laparoscopic 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 (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)
- Laparoscopic hysterectomy (S and M laparoscopic system)
- Mini-laparotomy (S, M)
- 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)
“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.”


“The 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.

“[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.

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


“Enteric 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).”

“Use of a plastic wound retractor may result in reduced enteric bacterial colonization of the surgical incision site during gastrointestinal surgery. Reduced colonization of the surgical incision site by enteric bacteria due to the use of a plastic wound retractor should result in a reduction in SSI following gastrointestinal surgery.”

“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>C8401a</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 extra large</td>
<td>39cm</td>
<td>25–32cm</td>
<td>3</td>
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### 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>C8313a</td>
<td>Extra extra small</td>
<td>20cm</td>
<td>1–3cm</td>
<td>5</td>
</tr>
<tr>
<td>C8323a</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>C8301a</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>
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### 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>
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<tbody>
<tr>
<td>G6313</td>
<td>Large</td>
<td>25cm</td>
<td>9–14cm</td>
<td>5</td>
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<tr>
<td>G6314</td>
<td>Extra large</td>
<td>34cm</td>
<td>11–17cm</td>
<td>5</td>
</tr>
</tbody>
</table>

*Model includes 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>
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<tbody>
<tr>
<td>Rigid Retraction Ring</td>
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<tr>
<td>HR000</td>
<td>Extra small/medium</td>
<td>14cm</td>
<td>2.5–7cm</td>
<td>5</td>
</tr>
<tr>
<td>HR001</td>
<td>Small/small</td>
<td>14cm</td>
<td>2.5–8cm</td>
<td>5</td>
</tr>
<tr>
<td>HR004</td>
<td>Small/medium</td>
<td>14cm</td>
<td>2.5–8cm</td>
<td>5</td>
</tr>
<tr>
<td>HR005</td>
<td>Medium/large</td>
<td>17cm</td>
<td>5–13cm</td>
<td>5</td>
</tr>
<tr>
<td>Flexible Retraction Ring</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>HR100</td>
<td>Extra small/medium</td>
<td>14cm</td>
<td>2.5–7cm</td>
<td>5</td>
</tr>
<tr>
<td>HR101</td>
<td>Small/small</td>
<td>14cm</td>
<td>2.5–8cm</td>
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</tr>
<tr>
<td>HR104</td>
<td>Small/medium</td>
<td>14cm</td>
<td>2.5–8cm</td>
<td>5</td>
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<tr>
<td>HR105</td>
<td>Medium/large</td>
<td>17cm</td>
<td>5–13cm</td>
<td>5</td>
</tr>
</tbody>
</table>

*Model includes a tether to facilitate device removal.


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