Ethicon is committed to Orthopaedic surgeons to realize better patient outcomes.

Take greater control of a key risk factor related to SSI

Triclosan Coated Sutures are now supported by:

- Centers for Disease Control and Prevention (CDC) Guideline for the Prevention of Surgical Site Infections 2017

  “Consider the use of triclosan-coated sutures for the prevention of SSI.”

- World Health Organization (WHO) Global Guidelines for The Prevention of Surgical Site Infection

  The panel suggests the use of triclosan-coated sutures for the purpose of reducing the risk of SSI, independent of the type of surgery.

- American College of Surgeons Surgical Infection Society (ACS & SIS) Surgical Site Infection Guidelines, 2016 Update

  The use of triclosan-coated sutures is recommended for wound closure in clean and clean-contaminated abdominal cases when available.

*The CDC, WHO, ACS & SIS guidelines on reducing the risk of surgical site infections are general to triclosan-coated sutures and are not specific to any one brand.

SSIs are a common and costly problem following Orthopaedic surgery

- A single SSI can lead to as much as **$25,000** additional cost.

- A single SSI can lead to as many as **5 additional** hospital days.

- A patient with an SSI is **5x** more likely to be readmitted.

Sutures Can Serve as a Site of Infection

Generally, in a typical patient, the infective dose is 2 – 8 million microorganisms per gram of tissue. However, sutures — like all implanted material — can substantially lower the infective threshold.

- Typical bacterial concentration required for SSI to develop: 2,000,000 – 8,000,000 per gram of tissue

- Staphylococci concentration required on suture for SSI to develop: 100 – 300 per gram of tissue

Biofilm formation increases the difficulty of treating an infection, even in the presence of antibiotics.

Colonization of suture knot

Colonization of braided suture

Centers for Disease Control and Prevention (CDC)

Guideline for the Prevention of Surgical Site Infections 2017

*Consider the use of triclosan-coated sutures for the prevention of SSI.*

World Health Organization (WHO)

Global Guidelines for The Prevention of Surgical Site Infection

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Prospectively planned meta-analyses of randomized controlled trials (RCTs) were performed on the use of sutures containing triclosan to lower SSI rates.

META-ANALYSES OVERVIEW

<table>
<thead>
<tr>
<th>Sutures</th>
<th>No. of RCTs</th>
<th>No. of Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chang 2012</td>
<td>7</td>
<td>836</td>
</tr>
<tr>
<td>Sajid 2013</td>
<td>7</td>
<td>1,021</td>
</tr>
<tr>
<td>Edmiston 2013</td>
<td>16</td>
<td>3,568</td>
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<tr>
<td>Wang 2013</td>
<td>17</td>
<td>3,720</td>
</tr>
<tr>
<td>Daoud 2014 (updated)</td>
<td>22</td>
<td>5,985</td>
</tr>
<tr>
<td>Apisarnthanarak 2019</td>
<td>13</td>
<td>6,930</td>
</tr>
<tr>
<td>Guo 2019</td>
<td>13</td>
<td>5,256</td>
</tr>
<tr>
<td>Wu 2016</td>
<td>13</td>
<td>5,346</td>
</tr>
<tr>
<td>Sandini 2016</td>
<td>6</td>
<td>2,168</td>
</tr>
<tr>
<td>de Jonge 2017</td>
<td>21</td>
<td>6,462</td>
</tr>
</tbody>
</table>

OR = 0.77 (Cl = 0.40/1.51) at p = 0.45
OR = 0.61 (Cl = 0.37/0.99) at p = 0.04
RR = 0.734 (Cl = 0.590/0.913) at p < 0.005
RR = 0.70 (Cl = 0.57/0.85) at p < 0.001
RR = 0.71 (Cl = 0.57/0.86) at p < 0.001
RR = 0.74 (Cl = 0.59/0.88) at p = 0.12
RR = 0.76 (Cl = 0.59/0.88) at p < 0.001
RR = 0.72 (Cl = 0.58/1.01) at p = 0.220
RR = 0.81 (Cl = 0.60/1.03) at p < 0.001

Plus Antibacterial Sutures have been shown in vitro to inhibit colonization of the suture for 7 days or more, including bacteria commonly associated with SSI.

PROVEN EFFECTIVE AGAINST:
- Staphylococcus aureus
- Staphylococcus epidermidis
- Methicillin-resistant Staphylococcus aureus (MRSA)
- Methicillin-resistant Staphylococcus epidermidis (MRSE)
- Escherichia coli
- Klebsiella pneumoniae

Facts about triclosan – the antibiotic agent used in Plus Sutures:
- Plus Sutures are made with the purest form of triclosan – IRGACARE® MP, a broad-spectrum antimicrobial agent that has been widely used and extensively studied for over 40 years.

Ethicon Plus Suture Technology — Helping Optimize Patient Care in Orthopaedic Surgery

For complete indications, contraindications, warnings, precautions, and adverse reactions, please reference full package insert.