PICO is a more effective alternative to standard surgical dressings, as it is an active therapy which prevents surgical site complications (SSC) in patients at an elevated risk of SSCs.

### Key patient risk factors

- **High BMI:** 19.24%
- **ASA ≥ 3:** 8x
- **Diabetes:** Uncontrolled metabolic disease
- **Dialysis**

### Surgical risk factors

- **Emergency surgery:** 15%
- **High-risk elective procedures:** >75%
- **Extended duration of surgery:**

### Resource consequences: estimated financial savings

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASA ≥ 3</td>
<td>£7,955*</td>
</tr>
<tr>
<td>BMI ≥ 35 kg/m²</td>
<td>£7,248*</td>
</tr>
</tbody>
</table>

*A health economic study by NICE (2015) estimated the cost effectiveness from an NHS perspective of PICO swim in reducing SSCs in patients undergoing hip and knee replacement surgery.

### The PICO dressing: pioneering by design

#### The Innovation behind the technology

- **Proprietary AROBlox technology**
- **Silicone layer with all-cause adhesive**
- **Softfilm and filter**

#### Stabilising the healing process

- **In-built protection:**
  - In an in-vivo study, bacteria were inoculated into the superabsorbent layer. The AROBlox dressing prevented up to 99.9% of bacterial movement to the wound contact layer.
  - This layer is unique to PICO and ensures bacteria are blocked away from the wound inoculation.

#### Treating more than just the incision

- **This laser can be placed over the intact skin to heal the underlying tissue that has been damaged**
- **The gentle diode protects the patient’s skin, minimizing damage and pain on removal**
- **The all-cause adhesive ensures the dressing stays in place thereby reducing infection risk and lateral migration**
- **The silicone layer significantly improves scarring formation**

#### Enhancing patient safety

- **The softfilm allows the user of PICO on weight bearing sites as it reduces pressure to still deliver even under compression.**

### Published evidence

A full literature search was carried out by NICE relating to the clinical effectiveness of PICO® aNPWT.

*Authors: Shingles, V. and Herron, K. (2015)*