SILS

Single Incision Laparoscopic Surgery
HISTORY

SILS was first performed for the treatment of appendicitis at Department of Pediatric Surgery, Dokuz Eylul Medical School, Izmir, Turkey and first presented at—The Annual Congress of Turkish Association of Paediatric Surgeons, October 2005.
SYNONYM

- **SPL**: Single Port Laparoscopy
- **SPA**: Single Port Access Surgery
- **SILS**: Single-Incision Laparoscopic Surgery
- **LESS**: Laparoendoscopic Single-Site Surgery
- **OPUS**: One Port Umbilical Surgery
- **NOTES**: Natural Orifice Translumenal Endoscopic Surgery
EQUIPMENT FOR SILS

- SILS device from **Covidien**
- Gel Point system from **Applied Medical**
- R-Port and TriPort from **Advanced Surgical Concepts**
- Uni-X from **Pnavel**
INSTRUMENT FOR SCARLESS SURGERY
SILS

Locking mechanism
Single-handed mechanism to allow for straight locking or multiple degrees of freedom.

Comfortable, ergonomic handle
A familiar handle style provides a comfortable control point to actuate instrument movement.
ALTERNATIVE OF SILS PORT
ALTERNATIVE PORT
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SILS SET-UP
LESS HYSTERECTOMY SET-UP

Laparoscope Placement

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LESS HYSTERECTOMY SET-UP

Laparoscope Placement
SILS ACCESS
SILS CLOSURE
SCAR OF SILS

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SCAR OF SILS
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Number of External Incisions</th>
<th>Size of External Incisions</th>
<th>Number of Visible Scars</th>
<th>Length of Hospital Stay</th>
<th>Recovery Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILS™ Hysterectomy</td>
<td>1 small incision (incision in the belly button)</td>
<td>About 3/4 inch (slightly smaller than the diameter of a nickel)</td>
<td>Potential for no visible scars</td>
<td>Same day</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Abdominal (Open) Hysterectomy</td>
<td>1 large incision*</td>
<td>5 to 7 inches*</td>
<td>1 large scar</td>
<td>1 to 2 days, sometimes 4 days</td>
<td>6 to 8 weeks</td>
</tr>
<tr>
<td>Laparoscopic Hysterectomy</td>
<td>3 to 4 small incisions</td>
<td>From 1/4 to about 3/4 inch</td>
<td>3 to 4 small scars</td>
<td>Same day</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Vaginal Hysterectomy/ Laparoscopically Assisted Vaginal Hysterectomy (LAVH)</td>
<td>0 to 4 incisions</td>
<td>0 to 3/4 inch</td>
<td>0 to 4 scars</td>
<td>1 to 3 days</td>
<td>3 to 4 weeks</td>
</tr>
</tbody>
</table>
ADVANTAGE OF SILS

- Cosmesis +++
- Ease of Tissue Retrieval ++++
- Combination Procedure +++
- Patient Acceptance ++++
- Quality of life analysis ++
- Standard Equipment ++
- Do not violate natural orifices ++++
- Surgeon’s Domain +++
DISADVANTAGE OF SILS

- Pain ?
- Violating Principles of Ergonomics ?
- Hernia ?
- Wound Infection ?
- Learning Curve ?
- Cost effectiveness ?
WHERE ARE WE GOING NEXT

SILS
or
NOTES

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