### LAPARO CUBE

**MW56 | 11437-000**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>assessment unit</td>
</tr>
<tr>
<td>1</td>
<td>power cable for assessment unit</td>
</tr>
<tr>
<td>1</td>
<td>set of skin sheet holder</td>
</tr>
<tr>
<td>1</td>
<td>cable</td>
</tr>
<tr>
<td>1</td>
<td>keyboard</td>
</tr>
<tr>
<td>1</td>
<td>PC</td>
</tr>
<tr>
<td>1</td>
<td>power cable for PC</td>
</tr>
<tr>
<td>30</td>
<td>sets of suturing sheet</td>
</tr>
<tr>
<td>1</td>
<td>container</td>
</tr>
<tr>
<td>1</td>
<td>instruction manual</td>
</tr>
</tbody>
</table>

### 11395-010

30 sets of suturing sheet

A set consists of inner layer & outer layer

### Publication References

- Munenori Uemura, Makoto Yamashita, Morisasa Tomikawa, Satoshi Obata, Kyota Souzaki, Satoshi Ieiri, Kenoki Ohuchida, Noriyuki Matsuoka, Tomotsu Katayama, Makoto Hashizume
  "Objective assessment of the suture ligature method for the laparoscopic intestinal anastomosis model using a new computerized system" Surgical Endoscopy DOI 10.1007/s00464-014-3681-9
- Jorge Solis, Nobuki Oshima, Hiroyuki Ishii, Noriyuki Matsuoka, Kazuyuki Hatake, Atsuo Takahashi

### Awards

2nd Place Technology Innovation - IMSH2014

Munenori Uemura, Makoto Yamashita, Morisasa Tomikawa, Satoshi Ieiri, Noriyuki Matsuoka, Tomotsu Katayama and Makoto Hashizume

"A New Objective Assessment System of Suture Ligature Method of the Intestinal Anastomosis Model for Laparoscopic Surgery"

Specifications are subject to change without our prior notice.

For the latest information and further details, check our website www.kyotokagaku.com, follow us on Facebook www.facebook.com/kyotokagaku or contact us at rw-kyoto@kyotokagaku.co.jp

---

"Realistic Experience" and "Objective Assessment", develops skills for first class surgeons.

**KYOTOKAGAKU**

**Worldwide inquiries & ordering**

KYOTOKAGAKU HEAD OFFICE & FACTORIES
15 Kitakeyama-cho, Fushimi-ku, Kyoto 612-8388, JAPAN
+81-75-405-2510 / +81-75-405-2519
http://www.kyotokagaku.com
rw-kyoto@kyotokagaku.co.jp

**All American regions**

KYOTOKAGAKU AMERICA INC.
3109 Comita Boulevard, Torrance, CA 90505-5108, USA
+1-310-325-8860 / +1-310-325-8867
http://www.kkamerica-inc.com/
info@kkamerica-inc.com

Non-virtual (physical) training experience
Quantitative measurements provide objective feedback
Realistically soft and anatomically correct suturing sheet
Laparoscopic suturing (simple interrupted suture)

- Innovative assessment criteria and quantitative measurement provide objective feedback to trainers.
- Trainees’ personal skills assessment data can be saved for reviewing and analysis.
- Real clinical instruments can be used.
- Realistic and lifelike suturing sheet.

1. Quantitative Feedback combined with Realistic Hands-on Experience

Our system uses five criteria to evaluate laparoscopic suturing skills. Each criteria has an “acceptable” range based on expert surgeons to help improve performance.

**Judging success or failure**

1. Is the wound sutured without a leak?
2. Is suture completed through muscular layer to mucosal layer?
3. Is ligature appropriate for suture?
4. How much open area is there in mucosal layer?
5. How long does it take for suturing procedure?

**POINT**
Up to five stitches can be assessed.

Air leak from the sutured area can be checked by applying air pressure on the intestinal tract sheet.

> Yamura M et al. Surgery. 2014. PMID: 25005015 / DOI: 10.1007/s00541-014-4681-0

- Adjust air pressure leakage, suture tension, and time standard (threshold), to suit your purpose.
- It is now possible to create your own passing standard or adjust criteria threshold to trainees level.

2. Life-like Intestinal Tract

Intestinal tract has four layers with respective characteristics. When holding with forceps and suturing, these four layers react like real tissue.

- Easy to set up!
- Easy to use

3. Feedback, Reviewing and Debriefing

Conduct training with your own Laparoscopic Training Box

Our newly designed Laparoscopic Suture Simulator comes in a more compact set. Simply set this assessment unit with your own box trainer and start training right away.

View your current assessment results or past assessment results

Check training performance with the assessment unit, and master the basics of laparoscopic suture.
Finally, save your training video to the tablet, which will be useful for tracking progress and self study.

**NEW Features**

- Limited to simple tasks
- Easy to use
- Hard to set & clean up, concerns in ethical issues
- Realistic
- Lacking realistic feel
- Objective skills assessment

Integrating Advantages of Different Training Methods

1. Easy to use
2. Realistic tissue response
3. Objective feedback

*Product Supervision*

Makoto Harahatake, Professor, Center for Advanced Medical Innovation, Kyushu University, Japan

Munenori Umemura, PhD Professor (Assistant), Center for Advanced Medical Innovation, Kyushu University, Japan