

MW16 Laparoscopic Suture Simulator Evaluation System



● **Product Supervision**
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Unit model simulator for numerical evaluation for skills in laparoscopic intestinal suture, as well as simple skin suture. The simulator also facilitates basic training in laparoscopy.

Features

1. This model evaluates skills in laparoscopic intestinal tract suture.
2. Evaluation data of user's improvement can be saved.
3. Intestinal parts are made of life-like material. Needle-tip response can be felt at puncture and insertion.
4. Apparatus are equipped in the unit and ready to use.

● Learning modes can be selected.

Laparoscopic Intestinal Suture



Put simulated intestinal tract in the training box. Use forceps to start training in suture skills. User's skills can be evaluated in 5 criteria.

Laparoscopic Forceps Training



User can learn how to use forceps in the built-in training box of the unit model.

General Evaluation on Skin Suture Under Direct Vision



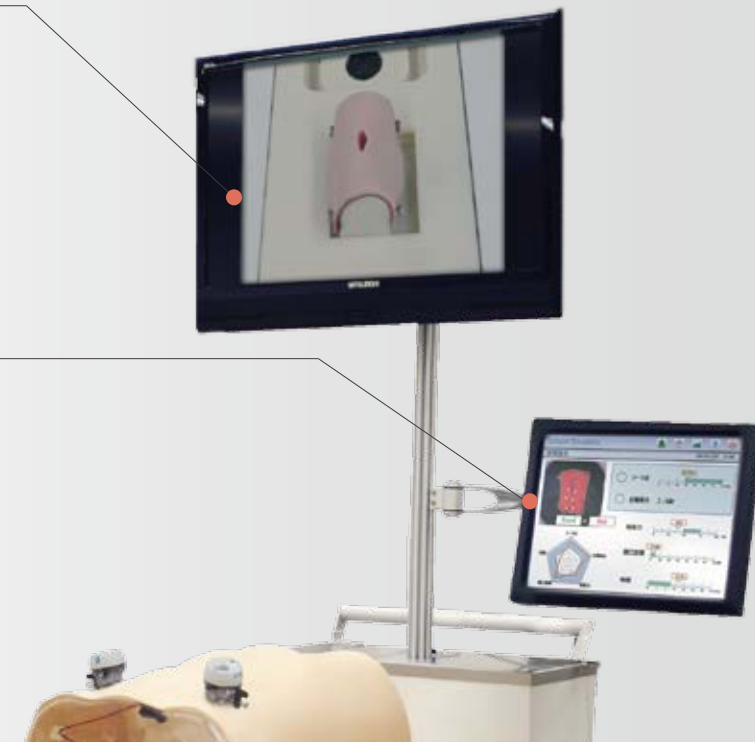
Without training box, the unit is a suture-skill simulator evaluation model. With this model, user can learn skin suture training. This trainer evaluates user's skin suture skills in 6 criteria.

Large Monitor and its Feedback Function

Large monitor shows an ongoing demonstration. It is useful to learn in groups. Large monitor also shows saved evaluation data. It helps to wave group discussions and feedback.

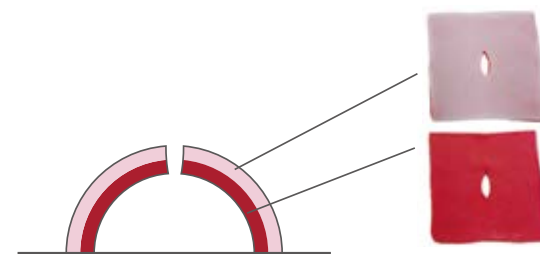
Stored Evaluation Data for Self-Learning

Sub-monitor can show past evaluation data. User's present suture skills can be compared with stored date. It helps understand their improvements.



● Laparoscopic Intestinal Suture Mode

Intestinal tract has two layers; muscular layer and mucosal layer. When holding forceps and suturing, these two layers move like realistic skin.



Result screen numerically shows intestinal tract suture skills in 5 criteria. The result is determined by the first 2 criteria: 'leak pressure' and 'total suture'

- 1 Is the part sutured without a leak?
- 2 Is suture completed through muscular layer to mucosal layer?
- 3 Is ligature appropriate for suture?
- 4 What area is mucosal layer opening?
- 5 How long does it take for suturing procedure?

Successful or Unsuccessful

Since leak test needs no liquid but air, the unit is easy to clean and simple to use.



● The unit's inner rotating system, "Learning Modes" can be interchanged promptly.

This rotating system facilitates switching between 3 Learning Modes (Laparoscopic Intestinal Suture mode, Laparoscopic Forceps Training mode, and Skin Suture under direct vision).