



TEP Guildford MATTU Hernia Trainer

Part No: **50135**

A unique trainer developed in conjunction with the Guildford (UK) Minimal Access Therapy Technique Unit (MATTU) designed to teach Trans Extra Peritoneal (TEP) Hernia Repair.

Skills

- Recognition and identification of abdominal landmarks
- Use of a balloon catheter
- TEP procedures on femoral and inguinal indirect hernia
- Mesh application, fixing and removal
- Withdrawal and closure

Features

- Very accurate and highly detailed anatomy incorporating
 - testicular, external iliac and inferior epigastric arteries and veins
 - vas deferens
 - lateral femoral cutaneous nerve
 - femoral and genital nerves
 - linea alba and rectus muscle layer
 - peritoneum
- Low cost per use – only elastic connectors need replacing
- Reusable peritoneum can be replaced should damage occur

Package supplied

- 1 base
- 1 TEP Hernia **50109**
- 1 TEP Hernia Peritoneum **50134**
- 1 TEP Hernia Frame **50169**
- 1 bag of TEP Hernia Elastic Connectors **50121**
- 1 Perineum & Bowel **50104**



TEP Hernia with peritoneum peeled back revealing anatomy



TEP Hernia
(includes peritoneum)
Part No: **50109**



TEP Hernia Peritoneum
Part No: **50134**



TEP Hernia Frame
Part No: **50169**

Perineum & Bowel

Part No: **50104**

TEP Hernia Elastic Connectors

Part No: **50121**

Attaching the TEP Hernia and the Hernia Frame

1. Place the TEP Hernia in its correct anatomical position with the right external iliac vessel in place **fig 1**.

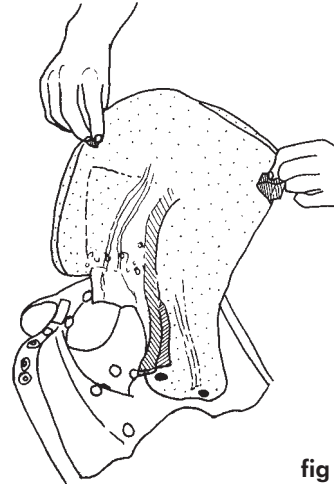


fig 1

2. Attach the TEP Hernia to the pelvic shell using the supplied Helix Connectors. Start in the pelvic bowl (**grommet hole 27**), then the pelvic crest (**grommet hole 5**), followed by the two remaining pegs at the back (**grommet holes 13 & 14**) **fig 2**.

See 'Grommet Hole Positions' on the back of the User Guide.

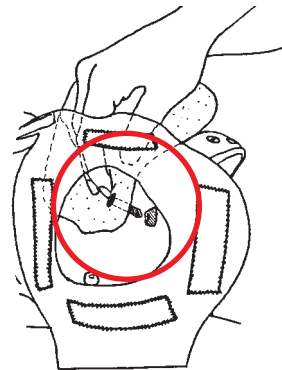


fig 2

3. Secure the lower section of the Cooper's Ligament underneath the pubic bone. Use the velcro patches on the left, at the front, of the TEP Hernia **fig 3**.

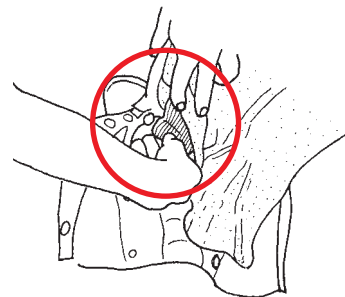


fig 3

4. Secure the velcro attachment on the right hand side, at the front, of the TEP Hernia, between the underside of the foam and the pelvic shell **fig 4**.

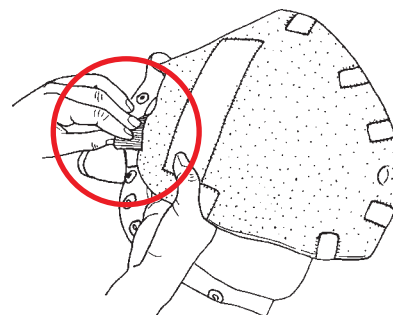


fig 4

5. Insert the TEP Hernia Frame into the corresponding grommet holes around the pelvic crest (**grommet holes 3, 4, 8 & 12**) **fig 5**.

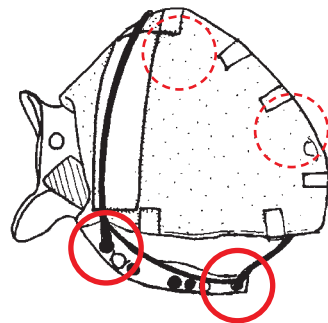


fig 5

6. Using the velcro straps running around the edge, secure the TEP Hernia to the Frame **fig 6**.

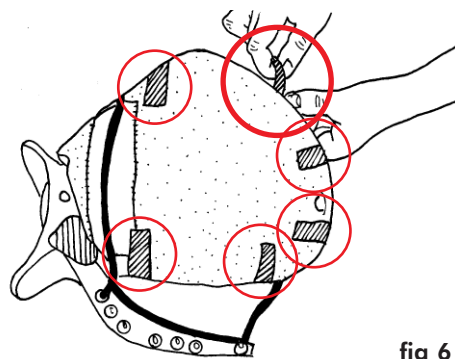


fig 6

7. Secure the TEP Hernia to the Frame by attaching the large white velcro strip to the corresponding area on the outer surface of the Hernia **fig 7**.

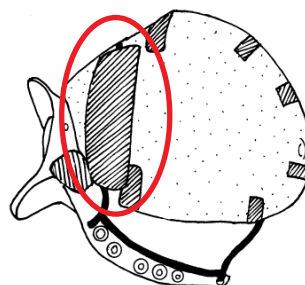


fig 7

8. The hernae now need setting up. See Page 4 for details of how to do this.

Setting up the herniae

1. Fit the TEP Hernia to the Frame and attach it to the base as per the instructions on pages 2 & 3 **fig 1**.

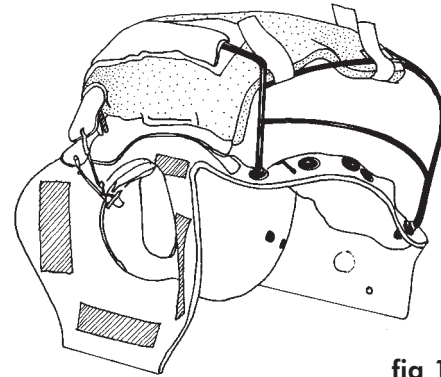


fig 1

2. Insert a Helix Connector about 2/3 of the way into grommet hole 30 **fig 2**.
See 'Grommet Hole Positions' on the back of the User Guide.

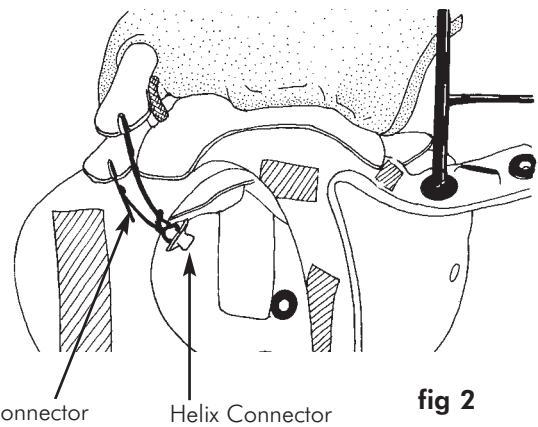


fig 2

3. Hook the Elastic Connector loops from the ends of the femoral and indirect herniae over the top of the Helix Connector **fig 3**.

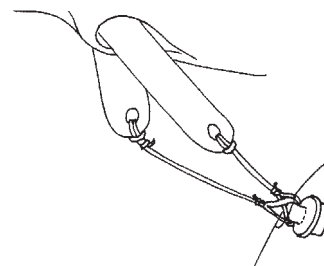


fig 3

The Perineum & Bowel can be pushed into place and the Trainer is now ready to use. **Note: During the operative procedure, cut the Elastic Connector attached to the TEP Hernia and not the Peritoneum. It is the elastic loop that is the replaceable component, not the TEP Hernia itself.**

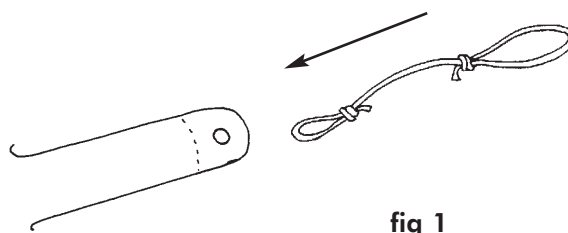
Replacing/resetting the herniae after performing a procedure

1. Remove the whole TEP Hernia from the Frame.

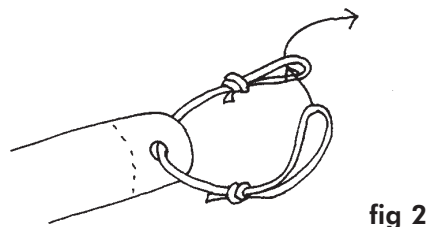
(When more familiar with this assembly it will be possible to 'lay the hernia up' when it is in position on the Frame).

2. Remove the old Elastic Connectors from the ends of the 2 hernias and unhook the old loops of elastic from the Helix Connector in **grommet hole 30**.

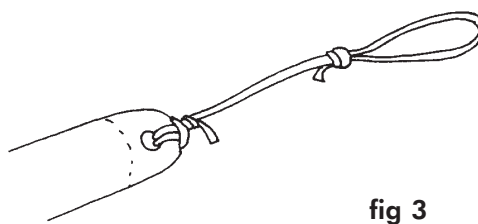
3. Thread one of the loops of the new Elastic Connector through the hole at the end of the hernia **fig 1**.



4. Now thread one loop through the other **fig 2**.



5. Pull the Elastic Connector tight **fig 3**.



6. Push the indirect hernia down through the inguinal canal.

7. Now push the femoral hernia down through the femoral canal.

8. Fit the whole TEP Hernia back onto the Frame.

9. Loop the ends of the Elastic Connectors from the femoral and inguinal herniae over the Helix Connector.

11. The TEP Hernia is now ready to be used.

Replacing the peritoneum

1. First remove the TEP Hernia by reversing the instructions on pages 2 & 3.

Next, lay the TEP Hernia flat on the work surface with the Peritoneum facing upwards. Remove the 3 Helix Connectors from the Hernia **fig 1**.

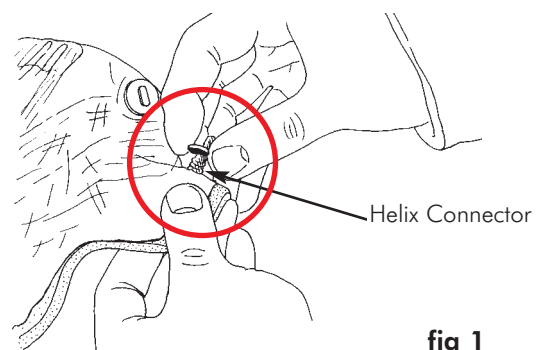


fig 1

2. Undo the 3 velcro tabs attaching the Peritoneum to the TEP Hernia **fig 2**.

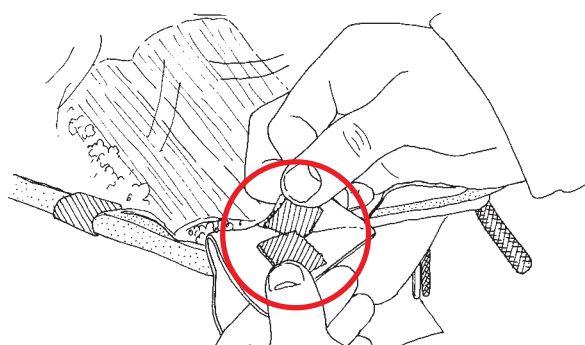


fig 2

3. Peel off the Peritoneum, easing the hernias out of their canals **fig 3**.

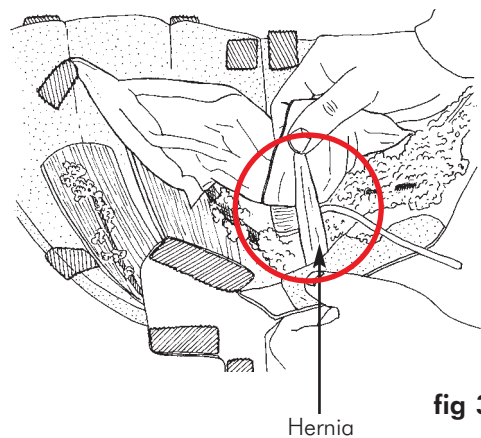


fig 3

5. Lay the new Peritoneum correctly over the TEP Hernia and re-attach the 3 velcro tabs **fig 4**.

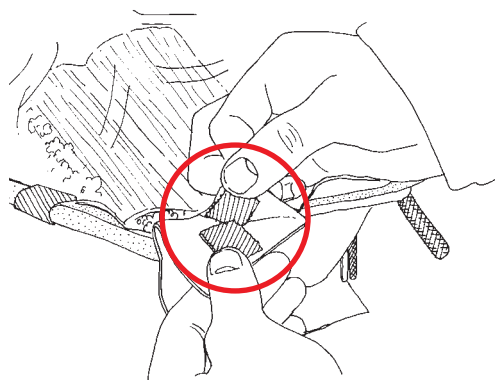


fig 4

6. Now push the inguinal hernia through the inguinal canal and the femoral hernia through the femoral canal **fig 5.**

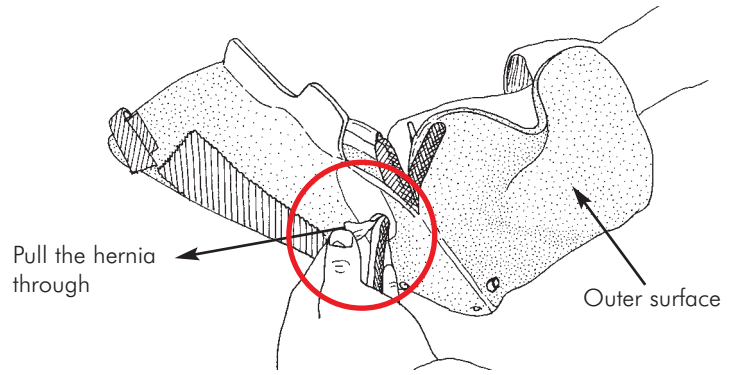


fig 5

7. Fit the rest of the Peritoneum to the shape of the TEP Hernia aligning the holes. Press down gently onto the fat so that the Peritoneum and the underlying simulation adhere to each other **fig 6.**

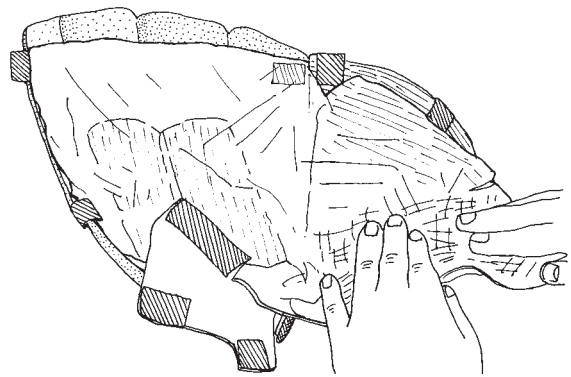


fig 6

8. Push the 3 Helix Connectors through the holes in both the Peritoneum and the TEP Hernia **fig 7.**

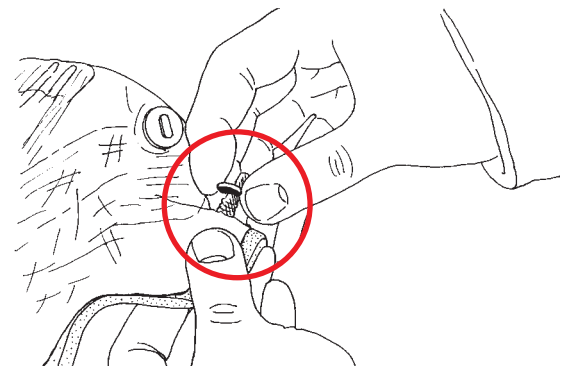
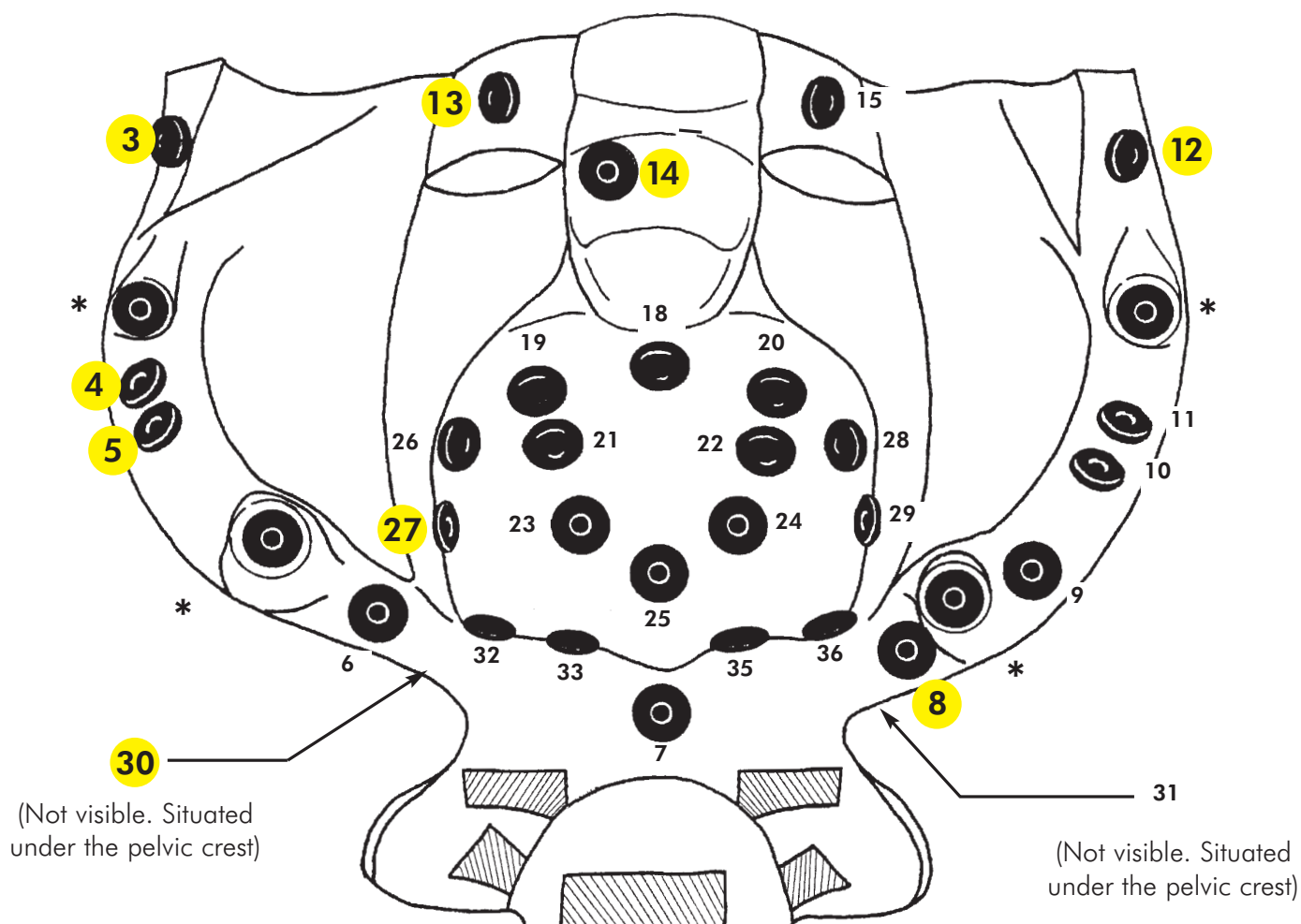


fig 7

9. Re-assemble as described on pages 2 & 3.

Grommet hole positions



Care of products made from latex foam rubber

1. Latex foam is a natural product; store away from strong light and in an airtight bag to reduce exposure to ozone. Ozone is generated by some electrical equipment including telephones and computers.
2. Wash your hands before touching the foam. (If the foam is handled after contact with certain metals such as copper, it becomes yellow and discoloured).
3. The foam may be washed effectively using any soap and rinsed afterwards. 'Vanish'™ soap is very effective.
4. Do not ingest the product and practice normal hygiene after handling the products.

