



## HOURLY DIURESIS MEASUREMENT SYSTEM - MISURO™ INSTRUCTION FOR USE

### APPLICATION :

The system is used to measure the quantity of urine of a hospitalized patient within a certain time and to assess its quality.

### PERFORMANCE CHARACTERISTICS :

The hourly diuresis measurement system « Misuro™ » is characterised by:

- Ability to measure the quantity of urine in the patient within a specified time by accurate graduations of the measuring scale with accurate measurement of approximately 3ml.
- Ability to visualize urine quality with the clear color of the Misuro™ urometer on a white background and subdivision into 4 compartments.
- Its high and continuous drainage capacity thanks to the smooth internal walls of the tubes.
- Its ability to protect against retrograde contamination and infections through the presence of the non-return valves and the sampling point.

### OPERATING INSTRUCTIONS :

1. Wash hands thoroughly and open the blister packaging.
2. Fix the device on the right or left side of the bed, using the straps provided for this purpose or using the special hook, if it is in the package, which must first be hooked to the handle of the device. The fixation of the bag should not be made in a position higher than the patient's bladder.
3. Put on a pair of disposable gloves (not supplied).
4. Remove the protective cap from the conical end of the catheter and connect it to the urological catheter (not supplied) already introduced into the patient's bladder, being careful not to contaminate it.
5. Remove the gloves and discard them.
6. Make sure that the catheter ①, once positioned, allows a steady flow of urine, use the sheet clamp (if available).
7. By using bag models with closure devices on the drainage tube (eg clamp, tube clamp sheet ③) it is possible to perform vesical gymnastics.

### HOW TO PERFORM URINE COLLECTION :

1. Inform the patient, clamp the drainage tube above the sampling point.
2. Wash hands thoroughly and put on a pair of disposable gloves (not supplied).
3. Disinfect the sampling point:  
Insert the syringe (not provided) into the Needle-Less connector (Fig. 1-A)  
Or  
Insert the needle into the sampling point of the tapered end of the catheter (Fig. 1-B).
4. Aspirate the required quantity of urine, open the catheter again to restore drainage to the bag.

### HOW TO MEASURE THE HOURLY DIURESIS AND EMPTYING THE RIGID COLLECTION CONTAINER:

1. When the rigid container is placed vertically, it is possible to read the hourly diuresis using the scale on the latter (Fig. 2). Measurement accuracy = 3 ml
2. To drain the contents of the rigid container into the collection bag, turn it counter-clockwise (Fig. 3) by positioning it on the lock on the support handle in a horizontal position ②.
3. Wait for the contents to drain completely into the bag.
4. Return the rigid container to the vertical position (Fig.2) by unhooking it from the lock ④ and turning it clockwise.

### HOW TO REPLACE THE COLLECTION BAG:

**CAUTION:** The bag must be replaced after the Misuro™ rigid container has been emptied.

1. Wash hands thoroughly and put on a pair of disposable gloves (not supplied).
2. Place the container in the horizontal position (Fig. 3).
3. Close the clamp plate ③ and ⑧
4. Remove the drain tube, connected to the rigid container, from its location ⑤ by first exerting slight pressure in the direction of the container, then pulling in the opposite direction.
5. Disconnect the bag drain tube from the handle tube holder ⑥.
6. Detach the bag handle from its housing ⑦ by exerting light pressure upwards.
7. Open the package containing the spare bag.
8. Fix the handle of the spare pocket in its housing ⑦ by exerting a little pressure.
9. Fix the tube of the replacement bag in the holder ⑥ and connect it to the rigid measuring vessel in position ⑤.
10. Return the rigid container to the vertical position (Fig.2) by unhooking it from the lock and turning it clockwise

### HOW TO EMPTY THE BAG :

#### Model with drain valve

1. Wash your hands thoroughly and put on a pair of gloves (not provided).
2. Open the drain valve and wait for the liquid inside the bag to drain completely into the collection system adopted (container not supplied).
3. At the end of the operation close the tap and disinfect it with a gauze soaked in the disinfectant (not supplied) and put it back in its reserve bag if present.
4. After emptying the container, wash and disinfect. Remove the gloves.

#### Model without drain valve

- For pockets without a tap, follow the bag replacement procedure described above.

#### HOW TO REPLACE THE MISURO™ :

1. Put on a pair of disposable gloves (not supplied).
2. Very carefully detach the urological catheter from the patient, then place the protective cap back on the conical end of the catheter and discard the device.
3. To apply a new "MISURO" to the patient, repeat the steps above in THE OPERATING INSTRUCTIONS

#### WARNINGS:

- Use restricted to qualified physicians. BioService Tunisie declines all responsibility for damage caused to the patient in the event of improper use of the device, misuse or in the event of employment by persons who do not have the required qualifications.
- Visual verification of the integrity of the packaging is necessary before opening.
- When handling the device, always use a sterile procedure to reduce the risk of infection.
- Make sure that the catheter, once positioned, allows a regular flow of urine so as to avoid a reflux of urine towards the bladder.
- Never fix the bag, during use, at a height higher than the bladder of the patient because if this happened, there would be a reflux of urine into the bladder.
- Do not stretch the catheter as this will certainly cause internal damage to the urethra.
- Do not put the bag on the ground when it is connected to the catheter because this is certainly a risk of infection and its malfunction.
- Do not use the bag for infusions.
- Do not fill the bag beyond the maximum capacity.
- The scale on the bag is expressed in millimeters (ml) and is approximate.
- Only spare bags manufactured by BioService Tunisie and specially designed by them, can be connected to the "Misuro™".
- Maximum duration of use : 15 days. Depending on the clinical setting of the patient.
- In any case, the need for more frequent replacement of the device must be decided by the medical/caring staff.
- Sterilized at ETO ; Sterility is guaranteed provided the packaging is intact
- Do not resterilize
- Single-use medical device, single patient, reuse can cause infections both for the patient and for the user of the device.
- Non-pyrogenic
- Expiry date : 5 years with the packaging in good condition and kept under normal storage conditions (Keep in its packaging in a cool, dry place.). Avoid exposure to light and high temperatures. The temperature should be between 5°C and 50°C
- For staff safety, when required by hospital regulations or by the department, it may be necessary to use sterile gloves, masks and protective goggles (Caution : these accessories are not supplied with the device).
- Any serious incident occurring in connection with the device should be notified to the manufacturer and to the competent authority of the Member State in which the user and/or the patient is established.
- Dispose of after use in accordance with the regulations in force.
- Do not use this device for premature infants, infants, newborns and children weighing less than 10 kg.



#### MANUFACTURER INFORMATION :

- First market launch :2014
- Code and revision date : 8450600000 rev 06 of 10/2022
- Number of EC certifying body :0459

