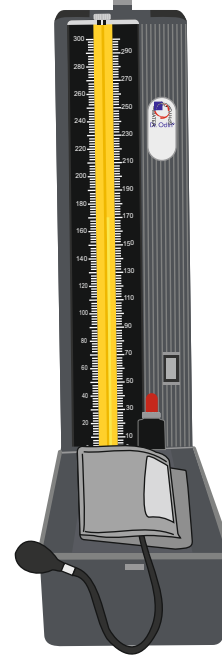


MERCURIAL SPHYGMOMANOMETER 2.3 MM CAPILLARY OMS101 USER MANUAL



WARRANTY CARD










Model No.: Lot No.:
 Invoice No.: Date of Purchase:
 Purchased By: Contact No.:
 Address:
 Dealer's Name:
 Dealer's Sign & Stamp

* Terms & Conditions apply

Passim Lifesciences Ltd. warrants this units free of any defect in material, workmanship and operation, under normal use, for a period of one year from the date of purchase. Should any part become defective during the warranty period Passim Lifesciences Ltd. will repair or replace (if not repairable) the same, free of cost. This shall not apply to any parts that are considered as expandable or deteriorable in the course of normal use. Passim Lifesciences Ltd. shall be relieved of any liability and warranty shall cease to apply if :

- This is not used in accordance with the instructions in the operational manual.
- It is used with any equipment not complying with the specification of this unit.
- It is not regularly maintained.
- The unit is disassembled, repaired or operated by person not authorized by Passim Lifesciences Ltd.
- Damage caused due to negligence.
- The unit is operated in corrosive materials or in the harmful atmosphere.
- The warranty card is not filled completely and produced at the time of warranty claim.

Symbols

 Medical Device	 Refer Instructions Manual	 Lot No.	 Keep Away From Sunlight
 No Trash	 Manufactured By	 Serial NO.	 Manufacturing Date
 Warning/Caution			

Manufactured by :

Passim Lifesciences Ltd.

Plot No. 45, Ind. Area, Phase -II, Panchkula -134113, Haryana- INDIA

Mfg. Lic. No.: Mfg/ MD/2022/000615

For any Complaint/ Suggestion please contact:

Customercare Number: 1800 309 3009, Timing: 9am-7pm, Mon. - Sat.

Email ID: customercare@droidin.in, Website: www.droidin.in

IM/OMS/04-00

MERCURIAL SPHYGMOMANOMETER

Intended for Use

Mercurial sphygmomanometer is used by professional healthcare provider and individuals trained in the auscultatory blood pressure technique to determine systolic and diastolic blood pressure in human.

Description of device : Mercurial sphygmomanometer (OMS101) is the device used to measure the blood pressure of the human. The method of measurement is auscultation with help of stethoscope used to determine systolic and diastolic pressure. The use of mercury are easy-to-read measurement. Mercury in the capillary glass tube flow up and down to indicate the blood pressure of the patient .It is more accurate. It has cuff, inflating bladder and inflating rubber bulb , extension tube with connector. The device has a scale of pressure reading in mmHg. Mercury Sphygmomanometer incorporates a special safety feature that locks the mercury within the reservoir during storage, transport, or maintenance.

Specification

- Scale range : 0- 300mmHg
- Minimum division on scale : 2mmHg
- Accuracy: ±3 mmHg
- Mercury Purity 99.99 %
- Measurement method: Stethoscope
- Inflating method: Manual by squeezing latex bulb
- Deflating method: Manually by air release control valve
- **Overpressure Warning:** Never inflate to more than 300mmHg. An excessive pressure could cause mercury spillage.

Operating Procedure:

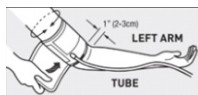
• **How to open :** Remove red safety cap which seals the reservoir containing mercury . Save red safety cap for later use .To release the mercury from the reservoir, turn the lever to the "ON" position. Mercury will flow up into the capillary glass tube and rest at the "0" mark .The equipment is ready for use. (If find air that bring out the mercury breaking of contact, allow the mercury flow back into its reservoir, then shake the equipment and ready for use).

• **Connecting the Inflation System to sphygmomanometer.** Push fit the inflating bag (cuff) PVC pipe tube at the free end of reservoir (air inlet point). The main unit is equipped with calibrated Capillary glass tube, mmHg scale, inflation system such as inflation bladder, bulb, and valve, extension tube with connector, and operating instructions. The unit is preassembled and ready for use.

• **How to close: To Lock Mercury Within the Reservoir.** Tilt the entire equipment about 45° towards the right to allow reservoir to permit mercury to flow out of Capillary glass tube and back into its reservoir. When Capillary glass tube is completely emptied of all mercury (while it is still tilted 45°) move locking lever to the right off position and gently close the lid until it snaps shut. Mercury should be locked within the reservoir during maintenance or transport. When transporting mercury instrument we recommend placing the red safety cap on reservoir.

Measurement Procedure

• **Position of cuff :** Place the inflatable cuff on the right or left forearm, making sure that its lower border is 1-2cm above the hollow to the elbow. Close the cuff around the arm leaving 1-2cm free space between arm and cuff. Position the cuff marking on the artery and insert the stethoscope chestpiece so that its diaphragm rests on the inside of the biceps.



• **Inflate the cuff :** Close the valve by turning thumbscrew clockwise. Palpate the radial artery while inflating the cuff . Be sure to inflate cuff quickly by squeezing bulb rapidly. Inflate cuff 20-30 mmHg above the point at which the radial pulse disappears.

• **Position the Stethoscope:** Position the chestpiece in the antecubital space below the cuff, distal to the brachium. Do not place chestpiece underneath the cuff, as this impedes accurate measurement. Use the bell side of a combination for clearest detection of the low pitched

Korotkoff (pulse) sounds.

- **Deflate the cuff :** Open the valve to deflate the cuff gradually at a rate of 2-3mmHg per second . when the first pulse of Korotkoff sound will be heard note down corresponding pressure reading of systolic pressure in the Mercury column scale and continue to deflate cuff when gradually Korotkoff sound of pulse the disappear note down corresponding pressure reading of diastolic pressure in the mercury column.
- **Measurement:** Record the onset of Korotkoff sounds as the systolic pressure, and the disappearance of these sounds as diastolic pressure. After measurement is completed, open valve fully to release any remaining air in the cuff. Remove cuff. Listen carefully and when you hear the last tone, read the value on the mercury column: this is the minimum (or diastolic) pressure. After reading the pressure values, let all the air out of the cuff and, if the reading doubtful, repeat the operation after allowing 10-15 minutes to elapse.

Care and Maintenance

Care While Taking Measurement

- Sit still and quietly while measuring. Talking or moving may elevate measurements.
- When taking multiple measurements right after each other, make sure you wait at least 10 minutes in between. Waiting will allow your blood vessels to return to their normal state.
- Sit with your legs uncrossed and your feet flat on the floor. Do not touch the cuff at any time during the measurement. Relax.
- Use proper-sized cuffs: Cuffs that are too loose or too tight may influence the accuracy of blood pressure measurements. The cuff should be 80% of the circumference of the upper arm. Be sure not to place the cuff on a clothed arm.
- Properly place the cuff on the arm: While wrapping the cuff around the upper arm, keep the lower edge of the cuff one inch or 2 cm above the antecubital fossa, the region of the arm in front of the elbow.

Cuff Cleaning :

- Use one or more of the following methods and allow to air dry:
- Wipe with .5% bleach and water solution. Rinse
- Wipe with 70% isopropyl alcohol.

Caution:

- Do not iron cuff.
- To clean your sphygmomanometer uses a clean soft cloth.
- Do not immerse the equipment in liquids to clean it.
- In case of mercury spillage, wear latex gloves and do not directly inhale the mercury vapors. Ventilate the room where the spillage has occurred.
- Gather together all the spilled mercury droplets and transfer them to a glass or synthetic container and close it tightly. Then dispose of the mercury and container in conformity with the regulations in force.

Storage

After measurement, wrap cuff around bulb and store in base of main unit. Always **remember** to lock to **off position** mercury within the reservoir before closing lid.

General Warnings

- A Warning statement in this manual identifies a condition or practice which, if not corrected or discontinued immediately could lead to patient injury, illness or death.
- Before transporting this instrument, mercury must be stored in the tank and the reservoir lock must be switched to the **off position** to prevent mercury spills.
 - Do not allow a blood pressure cuff to remain on patient for more than 10 minutes when inflated above 10 mmHg. This may cause patient distress, disturb blood circulation, and contribute to the injury of peripheral nerves or death.
 - If this equipment is modified, appropriate inspection and testing must be conducted to ensure its continued safe use.
 - Never inflate to more than 300mmHg: an excessive pressure could cause mercury spillage. The equipment must be protected against shocks.
 - Do not damage the rubber parts with cutting or sharp tools.
 - Do not expose the equipment to excessively high or low temperatures.