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› Microlife BPAG1-30 Aneroid Sphygmomanometer with Stethoscope User Manual

Microlife BPAG1-30

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User Manual

1. INTRODUCTION

Thank you for choosing the Microlife BPAG1-30 Aneroid Sphygmomanometer with Stethoscope. This device is designed for accurate and reliable measurement of blood pressure using the auscultatory method. It is intended for adult use and provides a high-quality solution for personal or professional monitoring.

Please read this manual thoroughly before using the device to ensure proper operation, maintenance, and safety.

2. SAFETY INFORMATION

- Consult your physician for interpretation of blood pressure measurements. Self-diagnosis and treatment based on measurements can be dangerous.
- Do not use this device on infants or individuals who cannot express consent.
- Keep the device out of reach of children and pets.
- Avoid strong electromagnetic fields, such as those near mobile phones or microwave ovens, as they may interfere with the device's operation.
- Do not disassemble or attempt to repair the device yourself. Contact qualified service personnel for any repairs.
- Store the device in a clean, dry place away from direct sunlight and extreme temperatures.

3. COMPONENTS

The Microlife BPAG1-30 Aneroid Sphygmomanometer with Stethoscope includes the following components:

- Aneroid Sphygmomanometer (manometer, inflation bulb, air release valve)
- Adult-sized Arm Cuff
- Stethoscope
- Storage Bag



Image 1: Microlife BPAG1-30 Aneroid Sphygmomanometer with Stethoscope and its storage bag. The image shows the blue arm cuff, the black inflation bulb and manometer, the stethoscope, and a dark blue carrying case.



Image 2: Another view of the Microlife BPAG1-30 components, including the manometer, inflation bulb, arm cuff, stethoscope, and storage bag, laid out on a white background.

4. SETUP AND PREPARATION

1. **Assemble the Stethoscope:** Ensure the earpieces are clean and comfortable.
2. **Connect the Cuff:** Ensure the air tube from the cuff is securely connected to the manometer.
3. **Patient Positioning:**
 - Sit comfortably with your back supported and feet flat on the floor.
 - Rest your arm on a flat surface at heart level.
 - Avoid talking or moving during the measurement.
4. **Apply the Cuff:**
 - Place the cuff on your bare upper arm, about 2-3 cm above the elbow joint.
 - Ensure the artery mark on the cuff aligns with your brachial artery (inner side of the arm).
 - The cuff should be snug but not too tight; you should be able to slide two fingers underneath.

5. OPERATING INSTRUCTIONS

Follow these steps to measure blood pressure using the auscultatory method:

1. **Position the Stethoscope:** Place the diaphragm of the stethoscope gently over the brachial artery, just below the cuff's lower edge.
2. **Close the Air Release Valve:** Turn the screw on the inflation bulb clockwise to close the valve.
3. **Inflate the Cuff:** Rapidly inflate the cuff by squeezing the inflation bulb until the manometer reads about 20-30 mmHg above your usual systolic pressure, or until the pulse sound disappears.

4. **Deflate Slowly:** Slowly open the air release valve by turning it counter-clockwise, allowing the pressure to drop at a rate of 2-3 mmHg per second.
5. **Listen for Sounds:**
- **Systolic Pressure:** Note the reading on the manometer when you hear the first faint, tapping sound (Korotkoff sound). This is your systolic pressure.
 - **Diastolic Pressure:** Continue deflating. Note the reading when the sounds completely disappear. This is your diastolic pressure.
6. **Fully Deflate and Remove:** Once the sounds disappear, fully open the valve to release all remaining air from the cuff. Remove the cuff from your arm.
7. **Record Results:** Record your systolic and diastolic readings, along with the date and time.

For accurate readings, take at least two measurements, spaced a few minutes apart, and average the results.

6. MAINTENANCE AND CARE

- **Cleaning:**
 - Wipe the manometer and inflation bulb with a soft, dry cloth.
 - The cuff can be gently wiped with a damp cloth and mild soap, then air-dried. Do not immerse the cuff in water.
 - Clean the stethoscope earpieces and diaphragm with an alcohol swab.
- **Storage:** Store the device and its components in the provided storage bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Calibration:** Aneroid sphygmomanometers should be calibrated periodically (e.g., every 1-2 years) by a qualified technician to ensure accuracy.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Cuff does not inflate or deflates too quickly.	Air leak in cuff, tubing, or valve; valve not closed.	Check all connections for tightness. Ensure air release valve is fully closed before inflation. Inspect cuff and tubing for damage.
Difficulty hearing Korotkoff sounds.	Stethoscope not positioned correctly; earpieces not angled correctly; external noise.	Reposition stethoscope over brachial artery. Adjust earpieces for a snug fit. Ensure a quiet environment.
Inaccurate readings.	Improper cuff size or placement; rapid deflation; device needs calibration.	Ensure correct cuff size and proper placement. Deflate at 2-3 mmHg/second. Consider professional calibration.

8. SPECIFICATIONS

- **Model Name:** BPAG1-30
- **Brand:** Microlife
- **Power Source:** Manual
- **Display Type:** Analog

- **Application:** Arm
- **Cuff Size:** Adult
- **Product Weight:** Approximately 799.99 Grams
- **Product Dimensions:** 17.5 cm (L) x 7 cm (W) x 10.3 cm (H)
- **Included Components:** Storage Bag, Stethoscope, Aneroid Sphygmomanometer, Arm Cuff

9. WARRANTY AND SUPPORT

Microlife products are manufactured to the highest quality standards. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Microlife website. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact Microlife customer service through their official channels. Please have your model number (BPAG1-30) ready when contacting support.

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