ENGLISH

Thank you for investing in a blood pressure gauge with innovative DuraShock technology – the first and only gear-free, shock-resistant aneroid sphygmomanometer technology.

Blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using the auscultatory method, within the limits prescribed by the American National Standard ANSI/AAMI SP9, 1994, *non-automated sphygmomanometers.*

Introduction

Intended Use

Aneroid sphygmomanometers are used by professional healthcare providers and individuals trained in auscultatory blood pressure technique to determine systolic and diastolic blood pressure in humans and animals.

Contraindications

Aneroid sphygmomanometers are contraindicated for neonate use. Do not use with neonatal cuffs or neonate patients.

⚠ 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.

WARNING: If luer lock connectors are used in the construction of tubing, there is a possibility that they might be inadvertently connected to intravascular fluid systems, allowing air to be pumped into a blood vessel. Immediately consult a physician if this occurs.

WARNING: Do not allow a blood pressure cuff to remain on patient for more than 10 minutes when inflated above 10 mm Hg. This may cause patient distress, disturb blood circulation, and contribute to the injury of peripheral nerves.

WARNING: Safety and effectiveness with neonate cuffs (sizes from neo 1 to neo 5) is not established.

WARNING: Use only Welch Allyn manufactured blood pressure cuffs and accessories; substitution might result in measurement error.

Connections

1. Attach the inflation bulb to the tube (if needed). Use alcohol to facilitate this.
2. Align and press the Durashock gague with the FlexiPort adapter onto the cuff port.
3. Verify an airtight seal is achieved at all connection points.

Operation

Blood pressure measurements can be affected by the position of the patient and their physiologic condition. Before beginning a procedure, ensure that the patient rests for at least five minutes, has support of their back and feet, and does not cross their legs. Passively support the patient's lower arm and keep the upper arm at heart level. The procedure needs to take place in a quiet environment with no talking. Failure to follow these recommendations can result in inaccurate blood pressure measurements.

1. Select cuff size appropriate for the patient's arm circumference. The applicable range, in centimeters, is printed on each cuff.
   NOTE: The "Artery Index Marker" on the cuff should fall within the "Range" indicated on the cuff. If the artery index marker falls short of the range, use a larger cuff to ensure accurate results. If the artery index marker is past the range, use a smaller cuff to ensure accurate results.
2. Wrap the cuff around the arm with the artery index marker located over the brachial artery and with the lower edge of the cuff 2.5 cm above the bend in the elbow.
3. Inflate cuff rapidly to a level 30 mm Hg above estimated (or palpatory) systolic pressure.
4. Partially open the valve to allow deflation at a rate of 2 to 3 mm Hg per second. As the pressure falls, note systolic pressure and diastolic pressure detected with your stethoscope.
5. Rapidly release the remaining pressure and record measurements immediately. After a minimum of 30 seconds, repeat the above steps for a second reading.

Specifications

The Welch Allyn DuraShock aneroid sphygmomanometer is accurate to ± 3 mm Hg.

This product will maintain the safety and performance characteristics specified at temperatures ranging from 0 °C to 46 °C at a relative humidity level not to exceed 85%.

Standards

- American National Standard ANSI/AAMI, SP9: 1994, *Non-automated sphygmomanometers.*
- European Standard EN 1060-1: 1995, Non-invasive sphygmomanometers-Part 1: General Requirements.
- European Standard EN 1060-2: 1996, Non-invasive sphygmomanometers-Part 2: General Requirements.
- Meets the technial requirements of INMETRO Technical Metrological Regulation Number 24 of February 26, 1996. (Excluding section 6.4 for graduation-mark thickness, section 6.8 for graduation mark spacing, and section 5.1 regarding closing the pressure sensitive unit in an air-tight container.)

Maintenance

Cleaning

Aneroid Gauge, Inflation Bulb, and Valve: Wipe the aneroid gauge, inflation bulb, and valve with slightly dampened cloth or alcohol pad.

Reusable One-Piece Cuff: Use one or more of the following methods and allow to air dry:

- Wipe with mild detergent and water solution (1:9 solution). Rinse.
- Wipe with Enzol per manufacturer's instructions. Rinse.
- Wipe with 0.5% bleach and wgoodater solution. Rinse.
- Wipe with 70% isopropyl alcohol.
- Launder with mild detergent in warm water (60 °C max), normal wash cycle. Cuff is compatible with 5 wash cycles (Reusable only). Close port cuff with laundering plug (part no. 5082-159).

Two-Piece Cuff and Bladder: Safely clean the cuffs with a damp cloth or wash in warm water (60° C maximum) with mild detergent. DO NOT PRESS WITH HOT IRON.

Before laundering the cuff:

1. Remove the bladder from the two-piece cuffs.
2. Place the hook and loop fasteners in the closed position.
3. Machine launder using gentle cycle, warm water and mild detergent.
4. Air dry completely and reassemble components.

Low-level disinfection procedure (FlexiPort Reusable cuffs only):

Prepare Enzol® enzymatic detergent according to manufacturer's instructions. Apply port-cap (accessory part 5082-159) to cuff. Spray detergent solution liberally onto cuff and use a sterile brush to agitate the detergent solution over entire cuff surface for five minutes. Rinse continuously with distilled water for five minutes. To disinfect, first follow the cleaning steps above, then spray cuff with 10% bleach solution until saturated, agitate with a sterile brush over entire cuff surface for five minutes. Rinse continuously with distilled water for five minutes. Wipe off excess water with sterile cloth and allow cuff to air dry.

Calibration Check of Aneroid Sphygmomanometer

Welch Allyn®

DuraShock™ Integrated Aneroid Sphygmomanometer

Directions for Use

⚠ **CAUTION: U.S. federal law restricts this device to sale by or on the order of a physician or licensed healthcare practitioner. This device should be used by trained personnel.**

Models DS44 and DS45

Welch Allyn®

Advancing Frontline Care™

Mat'l #708959 Rev. A

FlexiPort Connection

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