PREVENTIVE MAINTENANCE PROCEDURE

MONITOR, Non-Invasive Blood Pressure (NIBP)

For details, refer to Health Devices Inspection and Preventive Maintenance (IPM) procedure

Blood Pressure Monitors, Electronic, Indirect
Procedure/Checklist 545-0595

Equipment Needed: Electrical Safety Analyzer, NIBP Analyzer

1. Qualitative Tests
   1.1 Chassis - verify physical integrity, cleanliness
   1.4 AC Plug - verify integrity
   1.5 Line Cord - verify proper insulation and integrity
   1.6 Strain Reliefs - verify physical integrity at both ends of line cord
   1.8 Tubes/Hoses/Bulb - check condition of all tubing, all hoses, the cuff, and the bulb (if present).
   1.10 Fittings/Connectors - examine all fittings and connectors
   1.13 Controls/Switches - verify proper operation
   1.15 Pump - Check the physical condition and proper operation
   1.17 Battery - verify physical integrity (if accessible) and operation, and alarms
   1.18 Indicators/Displays - verify proper illumination and operation
   1.19 User Calibration - verify operation of the calibration function
   1.20 Alarms - verify visual and audible alarms
   1.21 Audible Signals - confirm operation of any audible signals
   1.22 Labeling - verify presence and placement of all labels, placards, instruction cards, etc.
   1.23 Accessories - inspect cuff for leaks and proper closure
   1.24 Deflation Switch - confirm operation of manual deflation
   1.25 Operation on Volunteer - verify operation of device on yourself. Also perform item 2.4 at this time.

2. Quantitative Tests
   2.1 Grounding Resistance [< 0.5 ohm]
   2.2 Chassis Leakage [< 300 microamps]
   2.3 Air Leakage - Check for leakage of the cuff [<15mmHg/min]
   2.4 Heart Rate - Verify heart rate on a volunteer or simulator [+/- 10%]
   2.10 Pressure Accuracy - Verify pressure at 80, 120, & 200 mmHg [+/- 3mmHg]

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Monitor, NIBP (ECRI)