## Sphygmomanometers

To keep your ABN™ sphygmomanometers give you years of reliable blood pressure measurement, please follow the instructions below :

1. Do not drop on strike unit, especially the gauge.
2. The best environmental condition should be ;

| | Temperature ($^0$C) | Relative Humidity (%) |
|---|---|---|
| Operating Condition | 10 – 40 | Max. 85 |
| Storage Condition | -20 – 70 | Max. 85 |

3. Cleaning the cuff
    a. Cleaning the regular nylon or cotton cuff with bladder

    Before the cleaning, the inflation bladder must be removed. The cuff may be cleaned by wiping the cuff with a damp cloth or it can be washed by using a dilute mixture of mild soap/detergent and water. Rinse well and afterwards, let the cuff air dried. Do not iron nylon-velcro fasteners.

    b. Cleaning the bladderless cuff

    Remove the PVC tubes off the cuff, then place the PVC plugs into the cuff connectors to prevent the water flow into the cuff. The bladderless cuff may be cleaned by wiping its surface using a damp cloth with mild detergent (washable up to 60$^0$C). It also can be disinfected with ethanol.

    c. Cleaning the bladder

    The inflation bladder and tubing shall be removed first from the cuff. The bladder may be cleaned by wiping its surface with a damp cloth. To help preserving it from cracking and discoloring, the bladder may be wiped with a soft cloth moistened with ethanol.

    d. Removing the bladder from the cuff

    Gently pull the tube out through the cloth closing then pull the bladder out from the bladder compartment.

    e. Placing the bladder into the cuff

    Roll the bladder vertically side up then put into the bladder compartment. Unroll it and make it fit precisely to the bladder compartment.

4. Manometer gauge

The ABN™ Aneroid Sphygmomanometer has been carefully checked to assure reliability and accuracy (± 3 mmHg of its full scale) prior to shipment. Gauge accuracy can be checked by making sure that the needle rest within the printed square when the unit is fully deflated. If the needle points outside the zero square, the gauge will give inaccurate readings. Return the unit for recalibration by a qualified professional. It is recommended to examine the accuracy of measuring instrument every year and after maintenance/ repair.

## Stethoscopes

To keep your ABN™ Stethoscopes well preserved for years, please follow the instructions below :

1. Do not drop on strike unit, especially the chest piece.
2. Avoid extreme heat and cold, keep the unit away from oil and solvent.
3. The best environmental condition should be ;

| | Temperature ($^0$C) | Relative Humidity (%) |
|---|---|---|
| Operating Condition | 10 – 40 | Max. 85 |
| Storage Condition | -20 – 70 | Max. 85 |

4. Binaural, tubing and diaphragm can be easily cleaned by wiping it's surface with ethanol or a dilute mixture of mild soap and water.
5. Unscrew ear tips from the binaural for thorough cleaning.
6. Always keep the stethoscope and parts in the storage case.

Do not change the spring tension of binaural extremely. Increase/decrease the spring tension gradually.