Aim. To study technical descriptions and user facilities of wrist sphygmomanometer by Nissei – WS – 1011.

Materials and methods. Informative and empiric analysis.

Results and discussion. NISSEL's sphygmomanometers is presented by the line of automatic devices, both on a wrist and on a shoulder. Every device certificated by European Society of high blood Pressure for the use in clinics and medical establishments.

One of devices of the last generation of Nissei is automatic wrist sphygmomanometer, WS - 1011 model.

The feature of this device is a comfortable cuff (M - Cuff) with two built-in sensors that instantly read a pulse wave at once from two arteries to the wrist that promotes exactness of measuring of arteriotony. This model has a compact size and large display with a diagonal 8.5 cm.

On the screen systole (SYS, mmHg), diastole pressure (DIA, mmHg) and pulse (PUL, 1/min) simultaneously represented. In addition, in this model there is such index, as pulse pressure (PP) that shows a difference between the obtained data of SYS and DIA. Value PP more than 60 testifies to the diseases related to elasticity of vessels.

According to data of NISSEI error of measuring of pressure at a wrist sphygmomanometer WS - 1011 makes a no more than ± 3 mm Hg, and error of measuring of heart rate no more than 5%.

Conclusion. Wrist sphygmomanometer of Nissei of WS - 1011 model is a modern device that has such advantages: small weight (110 g), comfortable cuff, largeness of display (large and clear symbols). Three indexes (arteriotony, pulse pressure, pulse) allow to measure, has user facilities (indicator of arrhythmia, indicator of measuring hindrances, presence of graphic scale of classification of pressure, in obedience to recommendation of WHO). Due to it, a device provides high exactness and rightness of diagnostics and can recommended for application in home terms to the consumers of all age-related groups.

NOMENCLATURE OF CUFFS FOR SPHYGMOMANOMETERS OF FIRM LITTLE DOCTOR

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Introduction. Obligatory part of any sphygmomanometer is a cuff. A correctly neat size of cuff is this necessary condition for the exact measuring of arteriotony. In accordance with recommendations of WHO (1999) and Recommendations on the hyperpiesis of ESH/ESC (2013): rubber part of cuff must make not less than 2/3 lengths of forearm and not less than 3/4 circumferences of hand. Humeral cuffs presented by eight sizes, from a size for newborn children (7-12 cm), babies (11-19 cm) to the cuff on the thigh of the grown man (34-51 cm). However, every firm has it the table of sizes therefore, it is necessary to pay attention at a purchase on the size of cuff that specified on a secondary container (pack) and directly on a cuff. A table of sizes of cuffs is also in every packing.

Aim. To study the assortment of cuff of sphygmomanometers and analyze based on group of Little Doctor devices presented by Kharkiv regional subdivision of OOO «Ergocom».

Materials and methods. Informative and commodity science analysis.

Results and discussion. Were studied Little Doctor sphygmomanometers – Digital Blood Pressure Monitor LD 2 (Semi – automatic) and Pediatric Sphygmomanometer LD 80 (Aneroid Gauge).

In instruction, it indicated to the model of LD 2, that the use is possible with two cuffs. Cuff – LDA supplied in a complete set with a device, her size 25-36 cm. It is possible to purchase Cuff – LDA separately, she targets at consumers with a largeness arm circumference (32-43 cm).

Pediatric Sphygmomanometer LD - 80 targets at measuring of blood pressure for children. Three cuffs are included in the completeness of device. Cuff included neonatal, applicable for prematurely born babies (yellow color) - 7-12 cm, infant (green color) - 11-19 cm and for child - 18-26 cm (blue color). The anatomically correct structure of cuffs for children provides the dense fitting closely to the shoulder and even prelum of artery. Cuffs material is a cotton.

The distinctive feature of cuffs of firm Little Doctor is causing of marking (size of cuff, mark of "ARTERY", mark of "INDEX" by the indelible chrome (of LD2) or white (LD80).

Exactness of measuring of blood pressure strictly depends on accordance of cuff to the sizes of arm circumference consumer. Choice of size of cuff validated thus: since a cuff on put on a shoulder the mark of "INDEX" must specify on the mark of "Normal".

Conclusions. The commodity science assortment of Cuff firm Little Doctor showed the presence of wide assortment, including the presence of cuffs for newborn and babies. All cuffs have marking of size, and additional inscriptions that specify on the rightness of putting on and choice of size.

SALT INHALER - MODERN APPARATUS FOR INHALATION THERAPY AT HOME

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Introduction. At the end of the 20th century, the number of cases such diseases like asthma, allergic rhinitis and other diseases associated with respiratory tract increased significantly The main reason for this is a large number factors of air pollutants which every day "attack" our respiratory system.

So, get away thereof we cannot practically, then we have to "cleanse" our respiratory tract by yourself. This usually helps us as nature, such as rock salt cave, or rather its crystals. This will help us stone cave salt, or rather, its crystals.

The benefits of salt as a natural cleanser have been known for millennia. The benefits of salt air inhalation, also known as speleotherapy or halotherapy, were first documented over 200 years ago in Europe when it was realized that salt miners were relatively free of respiratory ailments. Since then, many people have been flocking to salt mines around the world to help rid themselves of respiratory ailments of all kinds including asthma, congestion, hay fever, and allergies. Salt is known for its anti-microbial, anti-bacterial, and anti-fungal properties. Also, such treatment only begins to become more widely known and appreciated by the introduction of "salt rooms" in spa and other health institution.

Aim. The aim of our study is to study the structure and application features of using a salt inhaler at home.

Materials and methods. A review of the scientific literature, using the descriptional, searching and logical methods.

Results and discussion. Salt inhaler is a modern apparatus that allows you to create a microclimate of cave salt at home for individual use. Regular use of salt inhaler: helps to reduce the frequency of respiratory infections,, improves life quality, promotes bronchial drainage, helps to bring a natural asthma relief, reduces snoring, deepens breath capacity, promotes mental calmness, detoxifies air, moisturizes dry mucous membranes.

It consists of a ceramic or polymer body, inside which between two filters is located combination of natural salt crystals (NaCl – 98,7%, CaSO₄ – 0,1%, MgCl₂ – 0,028%, CaCl₂ – 0,13%, Fe₂O₃ – 0,00056 %, as well as in small quantities K, I, Br) and hole for passing air. Also on the body inhaler present a colorful user-indicator.

When using a salt inhaler, you should stand by the next recommendations:

- 1. For best results, inhale through your mouth and exhale through the nose.
- 2. Breathing must be natural.
- 3. Do not recommended to breathe back into the device

4. After the use, clean the device with a dry cloth on the outside only. As the mechanism may get damaged by exposing the salt crystals to moisture. And not to use any type of liquid while cleaning

- 5. Store in a dry place and keep away from direct sunlight.
- 6. Salt inhalers are intended only for individual use.

Conclusion. Salt inhaler is an analogue of the «salt room» only at home. It is an indispensable apparatus which the help of which it is possible carrying out inhalations as in free time and in any place,