

MODERN DEVICES IN THE FIELD OF ORAL HYGIENE

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Introduction. Recently, dentists increasingly recommend their patients to purchase such a device for oral hygiene as an irrigator. An oral cavity irrigator is a device that forms a thin stream of water that, under pressure, cleans interdental spots from food residues and plaque, as well as periodontal pockets.

Aim. To analyze the use modern devices in the field of oral hygiene.

Materials and methods. Logical, analytical, marketing method as for the use of irrigator.

Results and discussion. The main components of the irrigator: the body of durable plastics. It has control and regulation devices; there is a window for monitoring the water level. Power supply; water compressor, which creates the necessary pressure, the strength of which is regulated based on the characteristics of the human body; capacity for a liquid, depending on the type of device, its volume varies within 300-2000 ml. A reservoir is made of environmentally friendly material. It does not form mold and lime plaque.

By variants of manufacture, irrigators are classified on: stationary - it is large and heavy (for them they choose a permanent place next to the socket); portable - devices aren't small size; devices operating from the water supply. With the help of an adapter, it attaches to the crane; the pressure control is carried out automatically. The main benefits of using the irrigator: an opportunity to achieve an ideal result regarding the quality of cleaning of enamel and soft tissue; prevention of diseases of teeth, which affects a large part of the population of our country. Under a strong water pressure, all substances that are a nutrient medium for bacteria are washed away; penetration of the cleansing jet into hard-to-reach places where the toothbrush does not get. The irrigator cleans the gaps between the teeth, gums, palate and tongue from mechanical deposits and pathogens; massage of soft tissues. Mechanical effect on the gum improves their blood supply and metabolism; qualitative maintenance of complex orthodontic structures. It is simply impossible to completely clean brush prostheses and bracket systems.

Conclusion. When the irrigator is turned on, the compressor creates a pressure in the container, under its influence, the liquid enters the nozzle, the position of the nozzle is regulated, the water enters the mouth in a scattered state, in the form of a constant or pulsating jet. Thus, irrigators are useful devices that will provide high-quality care of your teeth, even at home.

RESEARCH OF THE ASSORTMENT NON-INVASIVE SPHYGMOMANOMETERS

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Introduction. The number of patients with such ailment, as a hypertension, grows constantly. The presence of such disease supposes the high risk of development of ischemic heart, heart failure, heart attack or stroke trouble and promotes a general death rate and death rate from cardiovascular diseases in times. Certainly, such state requires control of blood pressure.

For the individual use optimal is application of medical devices - sphygmomanometer (blood pressure meter, blood pressure monitor, blood pressure gauge). Now on the method of air-blasting in a cuff apply Mechanical, Semi-automatic and Automatic sphygmomanometers. Since the advent of electronic medical devices, names such as "meter" and "monitor" can also apply, as devices can automatically monitor blood pressure on an ongoing basis.

Aim. To study the assortment of sphygmomanometers and analyse the most popular models for the different groups of consumers on the basis of group of devices presented by Kharkiv regional subdivision of OOO «Medhouse Swiss GMBH».

Materials and methods. Informative and commodity science analysis.

Results and discussion. It is marked that acquisition of educational standards was following. A mechanical sphygmomanometer is the system from a manometer, cuffs - 25,0-40,6 cm, with an internal latex chamber, mechanical compressor (rubber bulb with a valve), stethoscope, case and secondary container for phonendoscope and manometer (model 700 To, Gamma). An automatic - automatic compressor, analyzer of pulse wave, technology of IHD (indicator of arrhythmia), all-digital display and cuff, is a 22,0-32,0 cm (model Gamma Optima). The semi-automatic is presented by the presence of BP indicator on external left of display that has the colour calibrating, by a clear LCD-display, universal cuff are a 22-32 cm, (model of Dr. Frei, M - 150 S).

It is marked, quality of materials at all devices were satisfactory. Paid attention, that such indexes, as exactness and stability of testimonies (pressure, pulse) all standards is identical, that levels a myth that a mechanical sphygmomanometer is more exact. On a price segment wins a mechanical device. However, measuring can cause difficulty for an amateur in connection with that ordinary user the loss of sounds (Korotkoff's sounds) can take for a diastole arteriotony and stop measuring - "auscultative failure"). In our view, more rational is to choose an automatic model exactly, that provides a maximal comfort and simplicity at the independent measuring of pressure, electronics will expect and will show out on the indicator of measuring systolic BP and diastolic BP.

Conclusions. The commodity assortment of sphygmomanometer, their varieties, structural features, acquisition, marking, principles of work, is analysed. On results undertaken studies it was set by us, that on the method of determination of level of arterial BP the best is automatic blood pressure monitor.

STUDYING OF CONSUMER ASPECTS AND COMMODITY ANALYSIS OF GYNECOLOGICAL TEST-STRIP

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Introduction. Relevance of the topic. In modern gynecology, one of the simplest and most common methods of testing is the use of rapid tests. This is an accessible and effective method of self-examination, which has been recognized by qualified specialists in all developed countries. Despite the ease of use, the accuracy of obtaining the result in this way by research is 99.9%, practically does not differ from the analysis in the polyclinic, and even has a lot of advantages: low cost; availability; convenience; the maximum accuracy; instant result.

Aim. We decided to analyze the assortment of devices for gynecological tests, as well as their physical, technical, technological and costs tests-strips.

Material and methods. When doing research, we used the following research methods analysis of scientific publications, classification, observation, technical, technological and cost indication.

Results and discussion. Classification of gynecological rapid tests. All tests presented on the modern market of medical devices can be divided into: test-strips, immersed for a short period of time in a container with urine; tablet - presented in the form of a cassette with two windows. To conduct the analysis, you should drop a small portion of urine into the control window, and in the next one you will see the result of the analysis. Electronic (digital) tests for reusable use, with replaceable cartridges and USB-port.

The commodity analysis of gynecological tests consists of the following stages: 1. checking the accompanying documentation for the goods received; 2. checking the conformity of the name and quantity of the goods indicated in the accompanying documents and actually received by the pharmacy; 3. organoleptic (visual) control of the packaging of goods (no damage to the packaging); 4. checking the marking of the goods (on the packaging there must be all necessary designations – the name of the goods, its quantity in the package, the manufacturer); 5. checking the bar code of the goods (excluding the facts of falsification); 6. check the completeness of the goods (the presence of all components in the package); 7. organoleptic (visual) control of the goods (no visible damage to the goods).

Conclusion. During the analysis of the range of gynecological rapid test-strips, various parameters were studied composition, material, safety, ease of use, other consumer aspects of this type of product.