

## COMMODITY ASPECTS IN RESEARCH OF ASSORTMENT OF NASAL ASPIRATORS

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**Introduction.** Nasal aspirators appeared on the national market relatively recently. Therefore, up for now most people have not yet had time to arise definite opinion about them. Using aspirator especially important due to the fact that little children are prone to frequent colds, accompanied by an abundant secretion from the nose. Therefore, you have to clean the nasal passages periodically during a cold. To ease this process, you can use a device called an aspirator.

**Aim.** The aim of this work is the analysis of the range, purpose and application properties of nasal aspirators on the national market.

**Materials and methods.** Information, based on the study of normative documents, materials from online-resources and our own conclusions.

**Results and discussion.** Baby nasal aspirator is designed for cleaning the nose and the treatment of the common cold in a child. It belongs to the category of medical devices, and as the material softer from which it is made, the easier and safer to use it to care for a young child.

Aspirator is an essential household kit for each family, which have a newborn baby. When baby has an excess of mucus, it provokes the development of sinusitis, otitis and infectious inflammation of internal organs. Help of adults during the flu comes in the form of effective remedies for the common cold - nasal aspirator. It is much faster and more efficiently helps rid the nose of the baby from the excretion.

The most important properties for nasal aspirator are its effectiveness, ease of use, speed of the procedure, hygiene.

Based on the principle of action, there are following kinds of nasal aspirators: aspirator-syringe (a small volume syringe), mechanical, electronic and vacuum.

Aspirator-syringe - the most simple and affordable product, but the drawback is the lack of the limiter on the tip and the opacity of the rubber, which does not allow to estimate the size of penetration and there is a risk of the nasal mucosa injury during the application.

Mechanical aspirator is a tube with a holding capacity for mucus and replaceable filter. The principle is simple - an adult inserts a tip of a tube into the nose of a child and suck in an air. After use, the device is sterilized, or if it is disposable, throw away.

Electronic aspirators are more efficient and comfortable, they work automatically - tip with stopper is inserted into the nostril and you just press the

button. Capacity to collect mucus transparent, which allows you to see how well mucus is deleted; all the parts of the machine are easy to clean. The device is compact, able to run on batteries, so it is convenient to take one with you. In most e-aspirators music is embedded, that serves as distraction during the operation on the nose cleaning. Negative qualities of this product are its high cost and short life span.

Vacuum aspirators, whose mechanism of action are based on connecting the device to an ordinary home vacuum cleaner. The design of the aspirator provides power control of the device. The advantages of such vacuum cleaners - safety, hygiene, efficiency and durability; drawback - high price, and the fact that the vacuum cleaner is noisy and can scare the kid.

As for nasal aspirators are of various kinds, therefore imposed requirements for them, that divided into general and special. All of them should be safe and made in accordance with the requirements of regulatory documents. Nasal aspirators – are reused products, therefore they are required to ensure uninterrupted proper operation within the warranty period service and kept proper sterilization (or disinfection). Products must be resistant to body fluids and exudates of tissues of the body, corrosive agents with which they come into contact during use, to withstand mechanical impact. Electrical components of nasal aspirators are required to be protected from moisture.

National standards for nasal aspirators in our country are not developed. ЗАО «Поликом» (Ivano-Frankivsk region) has developed and manufactures products according to TU U 25.1-24681750-007-2004 "Аспираторы детские".

The range of these products on the Ukrainian market is quite wide. In the National register of our country registered a wide assortment of aspirators: ТМ «Bebe Confort», ООО Страйдер (Ukraine); ТМ «Canpol babies», Foremount Enterprise Co., Ltd. (Taiwan, R.O.C.), Johnny Vico Infant & Gift Products (China), Co Ltd. (China); ТМ «Baby Nova», Novatex GmbH (Germany); ТМ «Arianna», Illes Csok es Tarsa KFT (Hungary); ТМ «Nose Frida», Nasalprodukter Sverige AB (Sweden); "Otrivin Baby», Novartis Consumer Health SA (Switzerland), ТМ «Альпина пласт» (Russia). And also in demand by consumers not registered in Ukraine nasal aspirators of following manufacturers: ТМ «Dr. Benny» (Hungary), ТМ «B WELL (England), ТМ «Arctic Light», «Cleanos» and «Coclean», «Baby-Vac» (Russia).

**Conclusions.** Our studies have shown that the presence of national manufacturers of these products is very small. And because the nasal aspirators are necessary and convenient modern means in the treatment and prophylaxis of diseases of the nose, the demand increases for consumers. The results show the potential for further expand in manufacturing of this product.

Pressing issue is the development of standards and quality control procedures to the products.