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Medicinal Plants used as Remedies for the Treatment of the Oral Mucosa

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Abstract: Based on open literature sources, modern requirements for the dosage form of gels have been determined. The characteristics and features of technological production are given. The analysis of the assortment of medicines based on medicinal plant raw materials used in the treatment of the oral mucosa has been carried out.

Keywords: Acorus calamus, Linnaeus, 1753, gels, Filtration extraction.

For the normal functioning of the mechanisms of natural protection of oral tissues, preparations with ingredients of plant origin have been used for a long time. Some of them have been used in folk medicine for a long time, others have entered into practice recently, after their laboratory study and testing in the clinic. In some cases, when drugs of a synthetic nature are intolerant, phytotherapy turns out to be the only way out of the situation.

Diseases of the oral mucosa are accompanied by a violation of natural cleanness with the accumulation of plaque, the appearance of an unpleasant, sometimes putrid odor from the mouth. To eliminate these signs, it is necessary to carry out professional hygiene, removal of plaque, food residues, necrotic tissues, purulent exudate, detritus. In order to eliminate halitosis, agents that neutralize sulfur- and nitrogen-containing compounds are prescribed. These can be rinses containing antiseptics (Corsodyl, Colgate total Plax, Lysopack, Peridex, Reach, President Defense). Oxygenation of the oral cavity with peroxide compounds is important, as well as rinsing with a composition containing sodium bicarbonate. To restore and maintain biological balance and protect the oral mucosa, herbal remedies with a deodorizing effect are used, namely preparations of mint, calamus root, as well as elixirs "Lesnoy", "Eucalyptus", "Stomatophyte". For the same purpose, Air-lift (Biocosmetic) products are recommended, which include spray, drops, toothpaste, mouthwash, capsules for oral use, as well as chewing gum with olive oil, parsley and mint oils. Therapeutic and prophylactic toothpastes contain additional components for the treatment and/or prevention of diseases of the oral mucosa. They include preparations from natural raw materials - herbal remedies of chlorophyll, St. John's wort, chamomile, eucalyptus, calamus, yarrow, calendula, juniper, blueberry leaves, nettle, plantain, myrrh, mint, sage. Anti-inflammatory toothpastes include: Lacalut Fitoformula, Lacalut Activ, President Classic, President Activ, President Exclusive, Periodontal with medicinal herbs, Forest balm, New Pearl 7 herbs, Periodontal, SPLAT Medicinal herbs, Corident Natura, etc.

According to the literature, the main types of plant raw materials that are part of multicomponent drugs for the treatment of inflammatory diseases of the oral cavity, Oak bark (Cortex Quercus) 7-12% tannins; free gallic and ellagic acids, pentosans and pectin acids. It is used as a decoction. An external astringent. Medicinal product: stomatophyte Chamomile flowers (Flores Chamomillae) Essential oil up to 0.8% (the main components are matricin and matricarin), flavonoids, polysaccharides, carotenoids, ascorbic acid. It is used as an infusion. Anti-inflammatory and antispasmodic agent. Medicinal product: rotokan, stomatophyte Sage leaves (Folia Salviae officinalis) Essential oil up to 2.5%, which includes cineol (up to 15%); tannins, ursolic and oleanolic acids. It is used as an infusion. An anti-inflammatory agent. Medicinal product: stomatophyte Marigold flowers (Flores Calendulae) Carotenoids up to 3%, ascorbic acid, flavonoids, resins, mucous substances, organic acids. It is used as an infusion. Antiseptic and anti-inflammatory agent. Calendula tincture is a part of calendula ointment. Medicinal product: liquid calendula extract is part of the preparations rotokan and alorom.

Yarrow herb (Herba Millefolii) Essential oil 0.8%, which includes pinenes, cineol, borneol, camphor, azulene, hamazulene; bitterness (achilline), tannins, flavonoids, saponins, coumarins, carotenoids. It is used as an infusion. Hemostatic agent. Medicinal product: liquid extract of yarrow grass, included in the complex preparation rotokan- Leaves of the eucalyptus rod-shaped (Folia Eucalipti viminalis) Essential oil up to 3%, which includes cineol (up to 80%); phenolic compounds, tannins, flavonoids. It is used as an infusion. An anti-inflammatory agent. Medicinal product: tincture of eucalyptus, eucalyptus oil (eucalyptus essential oil), preparations eucalymine, chlorophyllipt.

Herba Macleayae (Herba Macleayae) Alkaloids of isoquinoli-a new series: in the grass, maclea cordata up to 0.7%, maclea small-fruited - up to 1%. The main alkaloids are sanguinarine and cheleritrine; they contain saponins, flavonoids, carotenoids, vitamins, and organic acids. A wide range of antimicrobial action. Medicinal product: sanguiritrin Buds of the clove tree (Flores Cariophylli) Essential oil, the main component of which is eugenol. Antibacterial, anti-inflammatory effect. Medicinal product: maraslavin. Eugenol, extracted from the buds and leaves of the clove tree, is part of numerous materials used in clinical and orthopedic dentistry.

Calamus vulgaris is used in the treatment of periodontitis, glossitis, chronic catarrhal gingivitis, aphthous stomatitis, fibrous periodontitis. It also has a deodorizing effect, is used for injuries of the oral mucosa.

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