

Review on Medicated Chewing Gum of Diasulfiram

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Abstract: Since ancient times, chewing gum has been used to refresh breath and clean the mouth. In 1869, the first chewing gum patent was submitted, and in 1928, the first medicated chewing gum was released into the market. The European Pharmacopoeia described the intended use of medicinal chewing gum in 1991 as either systemic distribution following absorption from the gastrointestinal tract or buccal mucosa, or as local treatment of oral disorders. The heart of medicated chewing gum is masticatory gum covered in a layer of polymers, waxes, sugar, sweeteners, flavors, or colors. The coating, the core, or both may contain the pharmacologically active component. The mucosa's state, the duration of contact, and the active ingredient's physicochemical characteristics all affect how much is absorbed through the mucosa. The most probable substance to be absorbed is a tiny, enzymatically stable, un-ionized lipophilic molecule dissolved in saliva. In terms of local actions, medicated chewing gum can have positive results that may even outperform lozenges. While a lipid-soluble substance will dissolve in the gum base and then be released gradually and incompletely, a saliva-soluble ingredient will be released nearly entirely within 10 to 15 minutes of chewing. Mastication increases salivary flow, and the active substance (based on its properties) dissolves in the saliva before being eaten and then absorbed systemically. As a medicine delivery method, medicated chewing gum has grown in popularity over time. Medicated chewing gum now contains a number of ingredients, such as fluoride to prevent dental cavities, chlorhexidine to disinfect the area, nicotine to help people quit smoking, aspirin (acetylsalicylic acid) to relieve pain, dimenhydrinate to prevent motion sickness, and caffeine to help people stay alert. The usage of medicinal chewing gum may be beneficial for a variety of other illnesses and ailments. When opposed to oral liquids or tablets, chewing gum may be a preferred way of medicine delivery for children in particular. Chewing gum with medication can be used to treat systemic disorders as well as diseases of the oral cavity locally..

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