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Medicated Chewing Gum (MCG) is a novel drug delivery system containing masticatory gum base with pharmacologically active ingredient and intended to use for local treatment of mouth diseases or systemic absorption through oral mucosa.

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Medicated Chewing Gum: A Novel Drug Delivery System

According to the benefits of chewing gum as a novel drug delivery, like concurrently supporting both local and systemic delivery, protection against acids and enzymes, low first pass metabolism, elevating alertness and cognitive function, good stability and a lot more; we can conclude that chewing gum will be much more familiar to patients and market in the next few years.

Medicated chewing gum, a novel drug delivery system ...

Chewing gums are mobile drug delivery systems. Unlike chewable tablets medicated gums are not supposed to be swallowed and may be removed from the site of application without resort to invasive means and medicated chewing gum MCG is solid, single

(PDF) Medicated Chewing Gum- A Novel Drug Delivery System ...

The medicated chewing gums are solid, single dose preparations with a base consisting mainly of gums that are intended to be chewed, but not swallowed.

(PDF) Medicated Chewing Gum-A Novel Drug Delivery System ...

The medicated gums are dosageforms given orally for both local and therapeutic effect. It also offers the possibility of rapidlyabsorbing the drug through the oral

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mucosa leading to fast onset of action and bioavailability. Also, it has superior sensorial properties compared with other dosage forms; it has a more attractive appeal and offers the patient an active control over the treatment.

Medicated Chewing Gum: A Novel Oral Drug Delivery - CORE

Hitesh Jain, Mansi Shah, Bhoomi Shah, and T. Y. Pasha: Medicated chewing gum: A Novel oral drug delivery. International journal of drug formulation & research 2010; 1(3):80-96. Lee M. Cohen, Frank L. Collins Jr., Joseph W. VanderVeen, and Cameron C. Weaver: The effect of chewing gum flavor on the negative affect associated with tobacco abstinence among dependent cigarette smokers.

MEDICATED CHEWING GUM – A 21st CENTURY DRUG DELIVERY ...

Several ingredients are now incorporated in medicated chewing gum, e.g. Fluoride for prophylaxis of dental caries, chlorhexidine as local disinfectant, nicotine for smoking cessation, aspirin as...

(PDF) MEDICATED CHEWING GUM: A REVIEW

Medicated Chewing Gum (MCG) is a novel drug delivery system containing masticatory gum base with pharmacologically active ingredient and intended to use for local treatment of mouth diseases or systemic absorption through oral mucosa.

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technological advancements are made in novel oral drug delivery. Chewing gum incorporated with various types of active ingredient is one of such example of novel drug delivery. Medicated chewing gum (MCGs) is effective locally as well as systemically in dental caries, smoking cessation, pain, obesity, xerostoma, acidity,

Medicated Chewing Gum- A Mobile Oral Drug Delivery System

FIA's chewing apparatus is used to chew gum and analyze the speed at which various substances are released. It can for example be used to analyze the release of drug and candy flavors. The chewing apparatus was developed in close collaboration with Nicorette brand name holder and other producers of medicated chewing gums.

Medicated Chewing Gums - AB FIA - Laboratory equipment ...

0. Medicated Chewing Gums are solid, single-dose preparations that contain one or more active ingredients that are released by chewing. This drug delivery system provides is a potentially useful means of administering drugs either locally or systemically via, the oral cavity. Medicated Chewing Gums are made with a tasteless masticatory gum base that consists of natural or synthetic elastomers.

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Advantages and Disadvantages of Medicated Chewing Gum

Medicated chewing gums (MCGs) are solid or semi-solid, single-dose preparations with a base consisting mainly of tasteless masticatory gums that are intended to be chewed but not swallowed. It is a drug delivery system that contains one or more active ingredients which are released by chewing.

Medicated Chewing Gum: Formulation, Manufacture and Evaluation

Prototyping and Evaluating a Novel Humanoid Chewing Robot for Drug Delivery using a Medicated Chewing Gum. / Alemzadeh, Kazem; Jones, Siân Bodfel; West, Nicola. 2019. Paper presented at 4th World Congress & Expo on Pharmaceuticals and Drug Delivery Systems , Milan, Italy. Research output: Contribution to conference > Conference Paper

Prototyping and Evaluating a Novel Humanoid Chewing Robot ...

Kazem Alemzadeh, University of Bristol) Medicated chewing gum is a desirable drug delivery target for a host of reasons—convenience, extended release, oral administration. But testing drug-infused...

Robotic jaws could make medicated chewing gum trials ...

The global drug delivery market in 2016 was

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estimated to be worth \$510 billion which is a third of the global pharmaceutical market. It is expected that the drug delivery market will be increased to around \$900 billion by the year 2025. Medicated chewing gum (MCG) is a new advanced drug delivery method, with a promising future.

Prototyping and Evaluating a Novel Humanoid Chewing Robot ...

Medicated chewing gum is defined by the European Pharmacopoeia and the guidelines for pharmaceutical dosage forms issued in 1991 by the Committee for Medicinal Products for Human Use (CPMP) as “solid single dose preparations with a base consisting mainly of gum that are intended to be chewed but not to be swallowed, providing a slow steady release of the medicine contained” . During the chewing process, the drug in the gum product is released from the mass into saliva and absorbed ...

Formulation of Eco-friendly Medicated Chewing Gum to ...

Medicated chewing gum has been recognised as a new advanced drug delivery method but currently there is no gold standard for testing drug release from chewing gum in vitro. New research has shown a chewing robot with built-in humanoid jaws could provide opportunities for pharmaceutical companies to develop medicated chewing gum.

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July: Chewing robot | News and features | University of ...

Medicated chewing gum is a new advanced drug delivery system which is supposed to act as an extended-release dosage form that provides a continuous release of medicine contained. It is going to advance more and more in nowadays researches. However, there is currently no gold standard for testing drug release from chewing gum in vitro.

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