

## **Biomechanics Of The Gastrointestinal Tract**

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## **Biomechanics Of The Gastrointestinal Tract**

1. Neurogastroenterol Motil. 1996 Dec;8(4):277-97. Biomechanics of the gastrointestinal tract. Gregersen H(1), Kassab G. Author information: (1)Centre of Biomechanics and Motility, Skejby University Hospital, Denmark. As the function of the gastrointestinal tract is to a large degree mechanical, it has become increasingly popular to acquire distensibility data in motility research based on ...

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Hans Gregersen, Growth and Remodelling in the Gastrointestinal Tract, Biomechanics of the Gastrointestinal Tract, 10.1007/978-1-4471-3742-9\_8, (237-259), (2003). Crossref

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of the mechanical properties and the motor system of the gastrointestinal tract. A well-illustrated book, it provides a comprehensive overview to relevant ...

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The digestive system consists of the gastrointestinal tract and related organs, where the gastrointestinal tract includes the esophagus, stomach, and intestines, and the related organs are the mouth, liver, etc. The principal function of the digestive system is to digest food that is transported from the mouth to the anus.

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biomechanical theory.

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In the work presented, mechanical properties of the cadaveric and surgically removed specimens of the gastrointestinal tract wall on different levels were studied at constant strain rate. The values for tensile strength of the axial and transversal samples of small and large bowel in the works of Yamada (1972) and Watters et al. (1985a) , Watters et al. (1985b) were very similar to ours.

## **Mechanical properties of the human gastrointestinal tract ...**

Abstract As the function of the gastrointestinal tract is to a large degree mechanical, it has become increasingly popular to acquire distensibility data in motility research based on various parameters. Hence it is important to know on which geometrical and

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mechanical assumptions the various parameters are based. Currently, compliance and tone derived from pressure-volume curves are by far ...

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endosonographic assessment of gi motility and biomechanics In recent years ultrasound has been applied in studies of the biomechanical function of the GI tract. In this sense biomechanics should be understood in a much broader sense than the term motility.

## **Morphology and motor function of the gastrointestinal ...**

Biomechanics of the gastrointestinal tract Biomechanics of the gastrointestinal tract GREGERSEN, H.; KASSAB, G. 1996-12-01 00:00:00

Abstract As the function of the gastrointestinal tract is to a large degree mechanical, it has become increasingly popular to acquire distensibility data in

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motility research based on various parameters. . Hence it is important to know on which geometrical and ...

## **Biomechanics of the gastrointestinal tract ...**

The small intestine is a part of the gastrointestinal segment comprising of the duodenum, jejunum, and ileum. They help to process the gastric contents for further digestion, which involves mixing with duodeno-biliary-pancreatic (DBP) secretions to facilitate the chemical digestion, and homogenization of the luminal contents through contractions of the circular and longitudinal smooth muscle ...

## **Biomechanics of the Small Intestinal Contractions | IntechOpen**

The macroscopic biomechanics of the large intestine were characterized by mechanical tests and the microscopic by imaging the load-bearing constituents, ... The large intestine refers to the segment of the gastrointestinal (GI) tract



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distal from the ileocecal valve to the anal verge, consisting of ascending, transverse, descending, ...

## **The Macro- and Micro-Mechanics of the Colon and Rectum I ...**

The GI tract, also called the digestive tract or the alimentary canal, is the system of organs within multicellular animals that takes in food, digests it to extract energy and nutrients and expels the remaining waste. The GI tract is a continuous channel through the body with the biliary and pancreatic ducts as major side branches.

## **Biomechanical functional and sensory modelling of the ...**

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## **Biomechanics Of The Gastrointestinal Tract PDF**

The stomach is a central organ in the gastrointestinal tract that performs a variety of functions, in which the spatio-temporal organisation of active smooth muscle contraction in the stomach wall ...

## **Mechanical properties of the human gastrointestinal tract**

Biomechanics of the Gastrointestinal Tract is an up-to-date book for researchers on the study of the mechanical properties and the motor system of the gastrointestinal tract. A well-illustrated book, it provides a comprehensive overview to relevant tissue geometry, morphology and biomechanical theory.

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