



Treatment of peristaltic defect and difficulty swallowing with pace-maker capsule

Aysen Ulusoy

ABSTRACT

There are lot of psychiatric or central illnesses about gastrointestinal system motility deficiency or difficulty of swallowing. Dysphagia is a group of symptoms caused by a combination of different pathologies. The reason could be psychological, neurogenic, mechanic or myogenic. There are 2 types of dysphagia: oropharyngeal or esophageal dysphagia. Lack of nutrients or aspiration may cause complication and this situation may be fatal.

Symptomatic treatment of swallowing disorders are very important and they enhance the quality of life.

A new method have been proposed for modifying GIS peristalsis.

We hypothesized the treatment of peristaltic movement deficiency by electric stimulation. When the gastrointestinal pace-maker capsule is swallowed, it will start electric stimulation while it passes over the lumen. Thus smooth muscles of esophagus will contract. To mimic the movement of esophageal muscle contraction electric stimulation must be rhythmic.

It is possible to gain the behavior of swallowing by transcutaneous electric stimulation. Vitalstim therapy gave the most positive results in these patients. With contribution of gastrointestinal pace-maker capsule, a novel and lifesaver method will developed for re-arrangement of peristaltic movement deficiency as bariatric surgery related GIS peristalsis deficiency and particularly anorexia nervosa bulimia. In this presentation, we will talk about existent studies and then predictable projects of the future.

KEY WORDS: Difficulty swallowing; Pacemaker capsule

Gulhane Military Medical Faculty
Phase 2 Student, Ankara, Turkey.

Address for correspondence:
Aysen Ulusoy,
Gulhane Military Medical Faculty
Phase 2 Student, Ankara, Turkey.

Received: April 07, 2016

Accepted: April 07, 2016

Published: April 07, 2016