

### **S3-1.7**

## **Method for Performance Evaluation of Electrostimulation of the Lower Esophageal Sphincter**

V. Sontea<sup>1</sup>, S. Ungureanu<sup>2</sup>, N. Sipioco<sup>2</sup>, D. Fosa<sup>2</sup>, and V. Vidiborschii<sup>1</sup>

<sup>1</sup>*Technical University of Moldova, Republic of Moldova*

<sup>2</sup>*State University of Medicine and Pharmacy „Nicolae Testemitanu“, Republic of Moldova*

Recognized world experience could confirm, that gastroesophageal reflux disease (GERD) is one of the most common gastroenterological diseases. In many cases conservative treatment is not efficient, that could lead to severe complications. Existing options like antireflux laparoscopic surgery in recent years were supplemented with direct tone modulation of lower esophageal sphincter (LES) with implantable electrical stimulator. Having experience in development of wireless powered LES electrostimulators (WPLES), authors elaborated simple and inexpensive method of assessing the effectiveness of LES stimulating devices during tests on laboratory animals.