Novel Upper Esophageal Sphincter (UES) Balloon Dilator

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Technology description

Esophageal dilation is a procedure used to treat the scar and stiffness induced narrowing of the esophagus. Current esophageal dilators open and support the UES for a period of time, reducing the stress on the tissue and helping facilitate the remodeling of scar tissue. These dilators, however, are cylindrical in shape and are limited in their ability to approximate, and coincidentally support, the UES. Researchers at the University of California, Davis have designed a novel upper esophageal sphincter (UES) balloon dilator. The novel UES dilator has elongated expandable balloons that are configured to be differentially inflated. It can be delivered via a catheter and better approximates the biomechanical dimensions of the UES. The device would provide a safer, more effective physiologic dilation and support for the UES.
Researchers at the University of California, Davis have designed a novel upper esophageal sphincter (UES) dilator that better approximates the biomechanical dimension of the UES.

Application area

Esophageal dilation

Advantages

Better approximates the biomechanical dimension of the UES

Institution

University of California, Davis

Inventors

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