

# A now rarely seen anti-reflux device: The Angelchik prosthesis

Jake Sloane, Sanjay Gupta

## CASE REPORT

A 43-year-old male was presented to our upper gastrointestinal clinic with acute symptoms of reflux and dysphagia to both solids and liquids. He had undergone open anti-reflux surgery 15 years prior with the fitting of a now obsolete device—the Angelchik device. Until this episode, he had enjoyed a normal diet with well controlled gastroesophageal reflux disease (GERD) symptoms. He was listed for surgery due to the sudden onset of severe symptoms and inability to tolerate food.

No erosion or injury to the esophagus was noted. However, it was evident that the prosthesis had moved into an abnormal position causing an acquired stenosis of the lumen (Figure 1). It was removed in its entirety and an immediate laparoscopic Nissen's fundoplication was performed. The patient made an uneventful recovery from the procedure and was back to eating a normal diet within two weeks of the procedure.

## DISCUSSION

The Angelchik device was introduced in 1979 [1]. It consisted of a C-shaped ring of silicon fitted around the gastroesophageal junction. The ring was secured in the place by means a fitted Dacron tape. It was well favored at the time compared to other anti-reflux surgeries



Figure 1: Laparoscopic image of the Angelchik device having been freed from the lower esophagus.

because of the simple and standardized technique of insertion of the device [2]. Over 25,000 devices were inserted worldwide [3].

However, enthusiasm for the device hugely subsided when long-term results became available. Up to 70% of patients developed moderate to severe dysphagia [4]. In addition, other complications were frequently reported including migration of device (due to Dacron tape failure) and erosion into surrounding structures [3].

## CONCLUSION

By 1990, use of the Angelchik device was almost entirely abandoned and open Nissen's fundoplication became the accepted technique to treat GERD. Nowadays, the laparoscopic version of this procedure is common place.

Of note, a similar prosthesis to the Angelchik device is in use called the laparoscopic adjustable gastric band (also known as the lap-band or LAGB). However, rather than treating reflux, this implantable ring is employed in

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# Reflux Esophagitis And The Angelchik Prosthesis

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## **Reflux Esophagitis And The Angelchik Prosthesis:**

**Reflux Esophagitis and the Angelchik Prosthesis** James R. Starling, 1987 Reflux Esophagitis and the Angelchik Prosthesis addresses the development of the Angelchik prosthesis a controversial new surgical treatment for reflux esophagitis Experts in the field discuss and consider both the positive aspects and possible drawbacks of this new device Included are clinical reports and pertinent bibliographies useful for those interested in further study Reflux Esophagitis and the Angelchik Prosthesis is a complete source of information and a practical reference for the diagnosis and management of this disorder This book will be a valuable addition to the library of private practice and academically based gastroenterologists radiologists and surgeons interested in the study and care of this complex disorder *Health Technology Assessment Reports*, 1983 **Benign Esophageal Disease** Tom R. DeMeester, Hugoe R. Matthews, 1987

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Ciro Esposito,Philippe Montupet,Steven Rothenberg,2013-11-11 Gastroesophageal reflux disease is a common condition in children In most infants the reflux disappears spontaneously after the first year of life nevertheless children may be managed with medical therapy and those with refractory disease should be referred to surgery Guidelines for clinical practice have not yet been established for children The editors of this book three leading experts in the surgical treatment of this pathology have joined gastroenterologists pediatricians pediatric surgeons and radiologists to provide a modern overview of this pathology The multimedia format of this endeavor book plus DVD is extremely practical and allows easy reading and viewing This textbook the first of its kind will therefore arouse great scientific interest since it is relevant to four medical specialties pediatrics gastroenterology radiology and pediatric surgery      **Esophageal Disease and Testing** Cedric G. Bremner,Tom R. DeMeester,James E. Huprich,Ross M. Bremner,2005-08-23 A detailed compilation of the latest research and recommendations for the diagnosis and assessment of esophageal disorders this reference delves into a wide range of applications and technologies currently utilized in the field including radiology endoscopy endoscopic ultrasonography manometry ambulatory manometry pH testing catheter free pH      *EAES Guidelines for Endoscopic Surgery* Edmund A. M. Neugebauer,Stefan Sauerland,Abe Fingerhut,Bertrand Millat,Gerhard F. Buess,2007-06-10 Leading European laparoscopic

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