

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:

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

Gastroesophageal Reflux Disease (GERD): Back to Surgery? L. Krähenbühl, M. W. Büchler, E. Frei, C. Klaiber, 1997 This volume provides a detailed and comprehensive review of current knowledge concerning all aspects of gastroesophageal reflux disease GERD The opening chapters on its pathogenesis and epidemiology include discussions of *Helicobacter pylori* as an etiological agent and Barrett's esophagus The bulk of the volume is taken up with critical reviews of all the contemporary approaches to GERD both medical and surgical open and laparoscopic and presents the early results from laparoscopic trials throughout the world The book concludes with detailed descriptions from expert practitioners of the various alternative laparoscopic fundoplication techniques This timely publication will be of interest not only to gastroenterologists and gastrointestinal surgeons but to all doctors and general practitioners who must advise and prescribe treatment for patients with this common distressing but remediable complaint

Health Technology Assessment Reports, 1983 **Benign Esophageal Disease** Tom R. DeMeester, Hugoe R. Matthews, 1987 **Failed Anti-Reflux Therapy** P. Marco Fisichella, 2017-02-17 Comprehensive and up to date analysis of GERD Has focus on remedies to failed treatment of the disease **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70 **Gastrointestinal Disease** Anthony J. DiMarino, Stanley B. Benjamin, 2002 New edition of a text for students residents and practitioners who care for patients with gastrointestinal and hepatic diseases In addition to updated information on diagnosis and treatment of related disorders it includes several new diagrams and endoscopic photographs that illustrate important findings and techniques Eighty three contributions cover considerations in gastrointestinal endoscopy diseases of the esophagus stomach small intestine colon pancreas and biliary tree and the development of endoscopic techniques Abundantly illustrated in color and b w Edited by gastroenterologists DiMarino Thomas Jefferson U Hospital in Philadelphia and Stanley B Benjamin Georgetown U Hospital Annotation copyrighted by Book News Inc Portland OR **Gastroenterology**, 1987-10 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1987 *Gastroesophageal Reflux Disease* Frank Alexander Granderath, Thomas Kamolz, Rudolph Pointner, 2006-05-20 Gastroesophageal reflux disease GERD is one of the most common disorders with an increasing prevalence and incidence in

the last two decades This book edited by two experienced surgeons and a clinical psychologist in cooperation with numerous worldwide leading experts presents clinically relevant information for gastroenterologists internists surgeons residents and also nurses who frequently care for GERD patients Focusing on different treatment concepts medical endoscopic as well as surgical the chapters include the basics of symptomatology and epidemiology pathophysiology GERD among different age groups complications and its treatment hiatal hernia or H pylori and GERD NERD and functional heartburn diagnostic procedures and also presurgical examination In addition the patient s perspectives of disease diagnostics and treatment are included the same as economic aspects of GERD and the impact of disease on quality of life or patient reported outcomes after treatment **Cumulated Index Medicus** ,1994 **Gastroesophageal Reflux** Glyn G. Jamieson,André C.

Duranceau,1988 Diseases of the Esophagus J. Rüdiger Siewert,Arnulf H. Hölscher,2012-12-06 The third triennial congress of the International Society for Diseases of the Esophagus ISDE was held in Munich in September 1986 under the presidency of J Rudiger Siewert The very well organized and epoch making meeting was part of the International Esophageal Week and was held in conjunction with the International Conference of Esophageal Diseases the European Study Group of Diseases of the Esophagus GEEMO and International Organization for Statistical Studies of Esophageal Diseases OESO I am very pleased that it has been possible to publish the proceedings of the congress so rapidly The problems associated with diseases of the esophagus are multifaceted varying considerably according to locality their study thus neces sitates a large international forum which is one of the founding aims of the ISDE We hope that this volume by virtue of the in depth and up dated reports it contains can playa role in advancing the work being done in this field Finally I should like to express my heartfelt appreciation to Professor Siewert and Dr Holscher for their contribution toward the success of the congress Kiyoshi Inokuchi M D F A C S President of the ISDE Preface The scientific knowledge about esophageal diseases and their treatment has rapidly developed and increased within the last 10 years The present book reproduces for 1987 the topical state of the art about pathology pathophysiology diagnostic and therapy of benign and malignant diseases of the esophagus

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 **Surgery of the Esophagus, Stomach, and Small Intestine** Christopher Wastell,Lloyd Milton Nyhus,Philip E. Donahue,1995 Variants and Pitfalls in Body Imaging Ali Shirkhoda,2012-03-28 Variants and Pitfalls in Body Imaging Second Edition is the key to identifying features on images that can impede accurate diagnosis particularly normal anatomic variants and technical artifacts that mimic pathology Covering the abdomen pelvis and thorax and all current imaging modalities this sourcebook explains how to differentiate normal anatomic variants technical artifacts and other diagnostic pitfalls from pathologic

conditions Organized by site for easy reference the book covers CT MRI ultrasound and nuclear medicine This edition includes advanced technologies such as multidetector CT scanning for cardiovascular imaging CT and MR enterography for enterocolitis virtual colonoscopy CT and MR urography prostate and breast MR imaging and PET CT scanning Well respected radiologists walk the reader through specific body areas describing problems solutions and relevant anatomy A companion website will include the fully searchable text and images The Gastroesophageal Reflux in Infants and Children 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 *Journal of Pediatric Gastroenterology and Nutrition* ,1991-07

EAES Guidelines for Endoscopic Surgery Edmund A. M. Neugebauer,Stefan Sauerland,Abe Fingerhut,Bertrand Millat,Gerhard F. Buess,2007-06-10 Leading European laparoscopic surgeons have compiled the recommendations of the European Association for Endoscopic Surgery EAES in this book All statements are based not only on the experts opinions but also on a formal assessment of the scientific literature This work allows readers to gain an overview of cutting edge surgical research All recommendations describe exactly the proven benefit of each surgical procedure and technique Most guidelines contain key statements All chapters follow a structured format to allow quick identification of all recommendations In summary this work provides a perfect overview of the achievements in laparoscopic surgery throughout the last decade

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