

The Indication and Surgical Treatment of 286 Midurethral Synthetic Sling Complications: A Multicenter Study

ORAWEE CHINTHAKANAN, MD, MPH
INTERNATIONAL UROGYNECOLOGY ASSOCIATES
ATLANTA, GEORGIA AND BEVERLY HILLS, CALIFORNIA
CLINICAL INSTRUCTOR
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
FACULTY OF MEDICINE
RAMATHIBODI HOSPITAL
MAHIDOL UNIVERSITY
BANGKOK, THAILAND

JOHN R. MIKLOS, MD
DIRECTOR
INTERNATIONAL UROGYNECOLOGY ASSOCIATES
ATLANTA, GEORGIA AND BEVERLY HILLS, CALIFORNIA

ROBERT D. MOORE, DO
DIRECTOR
ADVANCED PELVIC SURGERY
ATLANTA, GEORGIA

DEBORAH R. KARP, MD
ASSISTANT PROFESSOR
DIVISION OF FEMALE PELVIC MEDICINE AND
RECONSTRUCTIVE SURGERY
DEPARTMENT OF GYNECOLOGY AND OBSTETRICS
EMORY UNIVERSITY
ATLANTA, GEORGIA

GLADYS M. NOGUEIRAS, MD
DEPARTMENT OF GYNECOLOGY
SECTION OF UROGYNECOLOGY AND RECONSTRUCTIVE
PELVIC SURGERY
CLEVELAND CLINIC FLORIDA
WESTON, FLORIDA

G. WILLY DAVILA, MD
CHAIRMAN
DEPARTMENT OF GYNECOLOGY
SECTION OF UROGYNECOLOGY AND RECONSTRUCTIVE
PELVIC SURGERY
CLEVELAND CLINIC FLORIDA
WESTON, FLORIDA

ABSTRACT

Introduction and Hypothesis: 1) Evaluate the most common indication for sling removal in patients with synthetic mesh slings; 2) identify the location of pain for each of the three types of synthetic sling procedures including retropubic (RP) sling, transobturator (TOT) sling, and single incision slings (SIS), and 3) describe the surgical approach to each of the above and its associated complications.

Materials and Methods: A retrospective chart review of all patients who underwent surgical removal of a sling due to a mesh-related complications from 2011 to 2013 at three referral centers.

Results: There were 337 sling complications followed by the IUGA/ICS mesh complication classification. RP slings were more likely to have urinary tract complications (category 4) and intra-abdominal site complications (S5). Of those, 286 slings were removed, 106 (37.1%) were RP, 131 (45.8%) TOT, and 44 (15.4%) SIS. Vaginal pain was the most common reason for sling removal. Twenty-one percent of the TOT had groin