

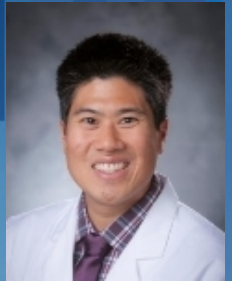


MP40-12: Use of Isotonic Contrast Solution in Pressure Regulating Balloon Does Not Impact Artificial Urinary Sphincter Longevity

Brian M. Inouye

For

Brian M. Inouye, William R. Boysen, Gregory J. Barton, Andrew C. Peterson



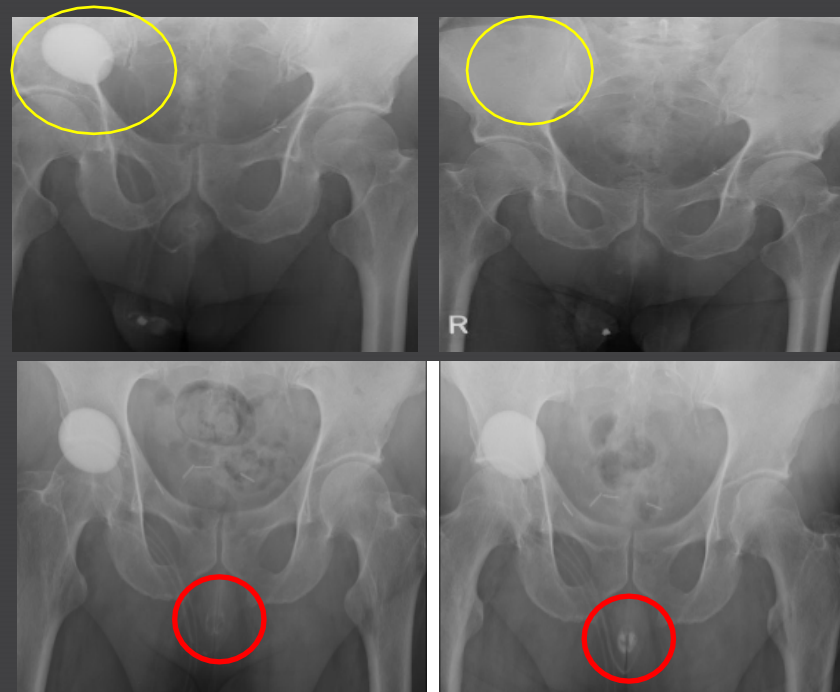
DukeHealth

Multidisciplinary Benign Urology Research Day
April 24, 2020

Normal Saline or Contrast?



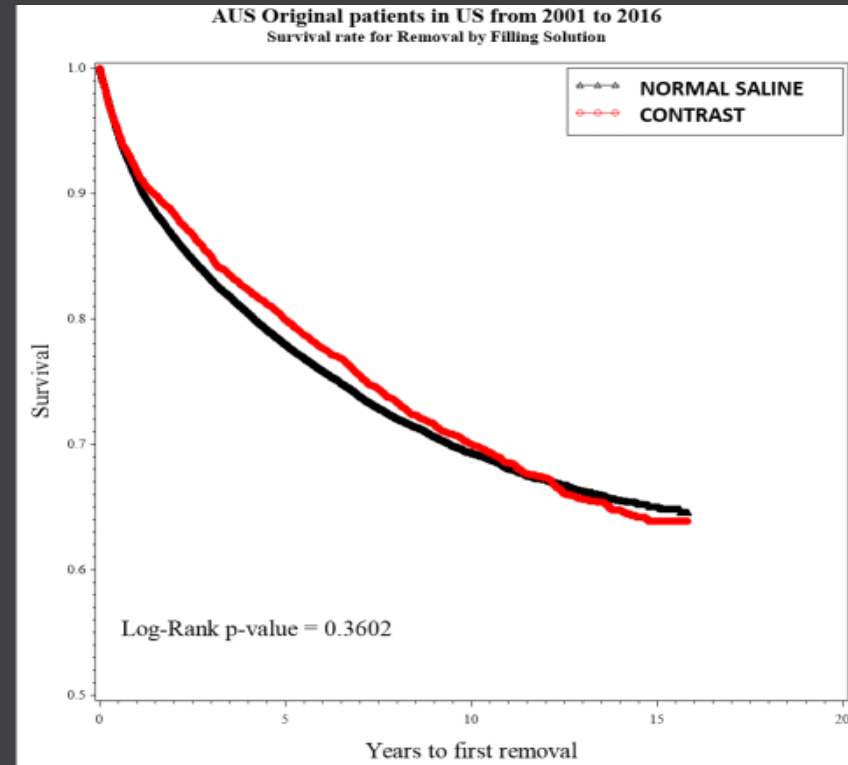
- Artificial urinary sphincter (AUS) can be filled with normal saline (NS) or isotonic contrast solution
- We use contrast to troubleshoot recurrent incontinence after AUS
- Surgeons hesitant to use contrast due to concerns about malfunction and longevity
- No studies address this issue



No Difference in Reoperation Rates or Longevity



- 39,363 patients (9,628 reoperation)
 - 34,674 AUS with NS (8,288 reop)
 - 4,689 AUS with contrast (1,340 reop)
- No difference in demographics
 - Unable to determine surgeon/institution
- No difference in reason for reoperation (atrophy, erosion, fluid loss, malfunction, pain, etc)
- Mean time to reoperation overall: 3.0 ± 3.0 yrs
 - Time to reop AUS + contrast: 4.0 ± 3.6 yrs
 - Time to reop AUS + NS: 2.9 ± 2.9 yrs



Since the use of contrast does not affect longevity, and may help in future troubleshooting of the device, we feel this should be considered a safe tool for the implanting surgeon.