

EXPEL™ Drainage Catheter with Twist-Loc™ Hub

**EXCEPTIONAL DELIVERABILITY,
FLEXIBILITY AND SECURITY**

Staghorn Kidney Stone Case

Courtesy of Dana Tomalty, MD
Huntsville Hospital



*Buckling
Resistance*



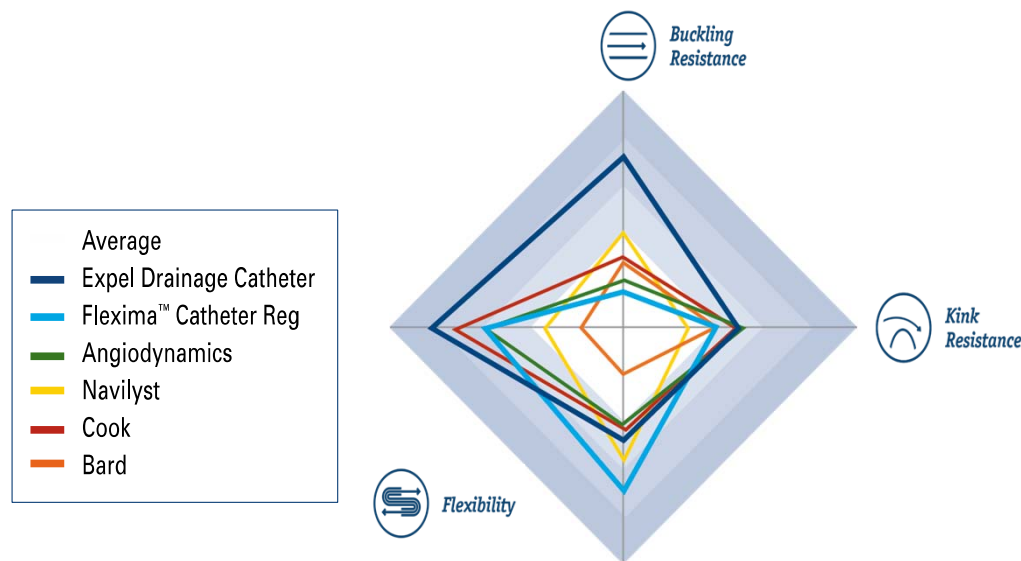
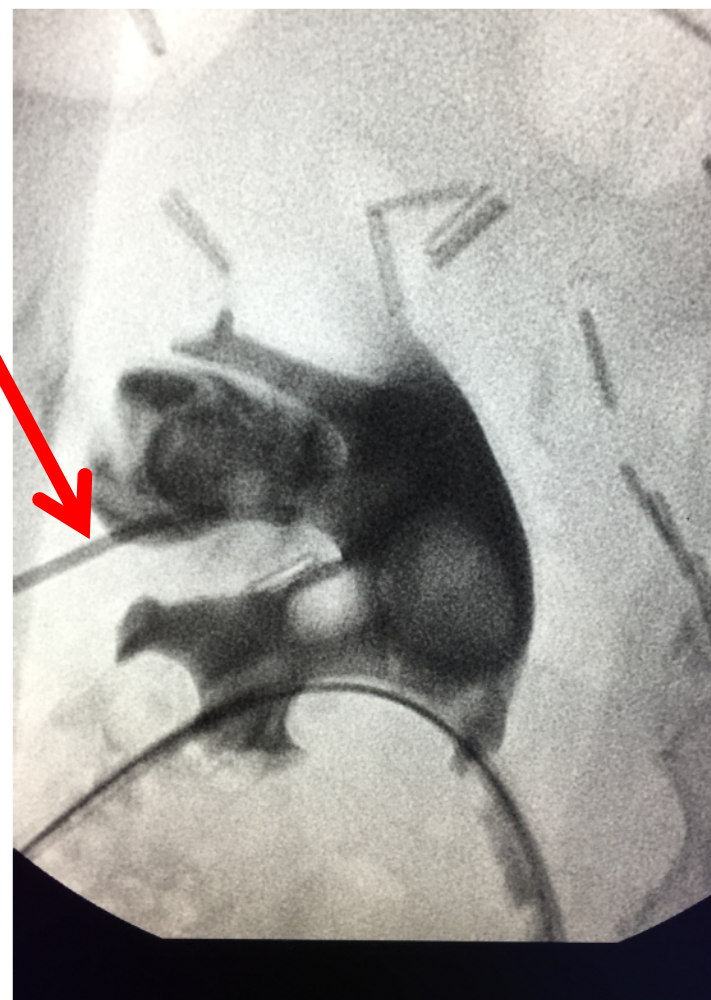
*Kink
Resistance*

- A staghorn kidney stone is a term used to describe a large stone that takes up more than one branch of the collecting system in the renal pelvis of the kidney.
- This is a case courtesy of Dr. Dana Tomalty
 - Large staghorn calculus casting renal collecting system
 - Upper pole calyx completely stone filled
 - Initial access in lower pole but surgeon wanted upper pole access as well



Staghorn – the most difficult of kidney stones (Part 2)

- Utilizing Seldinger technique a wire is placed into the upper calyx
- The fit of the wire is extraordinarily tight as the radio opaque area represents almost complete stone in that location
- Pushing a catheter into that zone would meet very high friction and resistance
- A catheter without robust columnar strength would fail. That is measured with buckling resistance



Results from case studies are not necessarily predictive of results in other cases. Results in other cases may vary.

Case Courtesy of Dana Tomalty, MD, Huntsville Hospital

©2015 Boston Scientific Corporation or its affiliates. All rights reserved. For Internal Use Only. PI-360801-AA DEC 2015

- Dr. Tomalty chose Expel based on design changes made to improve the deliverability profile.
- Let's compare Expel versus Cook
 - 18.7% lower profile

Expel Catheter 1.3 mm

Ultrathane™ Catheter 1.6 mm



- 81% lower frictional forces from hydrophilic coating and tapered tip measured on bench testing
- He stated the taper of Expel using a flexible metal cannula permitted placement of nephrostomy tube in this difficult stone casted renal pelvis



Results from case studies are not necessarily predictive of results in other cases. Results in other cases may vary.

Case Courtesy of Dana Tomalty, MD, Huntsville Hospital

©2015 Boston Scientific Corporation or its affiliates. All rights reserved. For Internal Use Only. PI-360801-AA DEC 2015