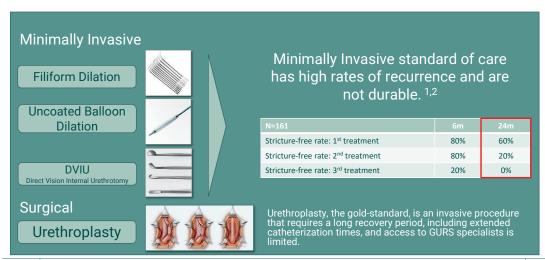
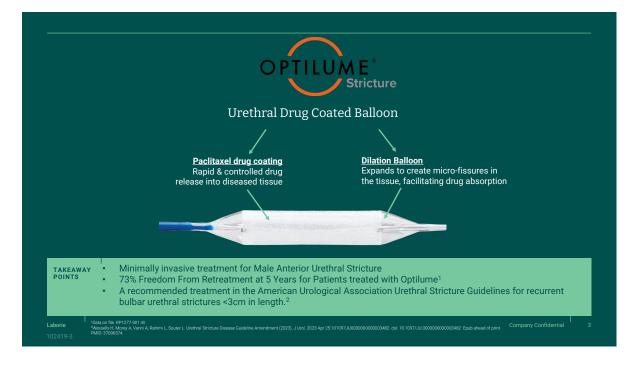




CURRENT STRICTURE TREATMENT OPTIONS - THE PROBLEM



Laborie 102419-3 Steenkamp JW, Heyns CF, de Kock ML. J Urol 1997;157:98-101 2Heyns CF, Steenkamp JW, de Kock ML. J Urol 1998;160:356-8 Company Confidential



OPTILUME® STRICTURE - SAFE, EFFECTIVE, DURABLE SAFE **DURABLE** EFFECTIVE Zero 83% 73% Freedom from reintervention at 1 year2 104% 298% Zero Improvement in Qmax score at 1 year (vs baseline 7.6, 1-year 15.5) 71% 59% Decrease in IPSS score at 1 year² (vs baseline 22.0, 1-year 9)

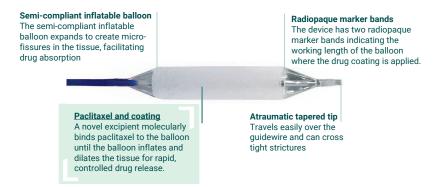
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OPTILUME® STRICTURE - THE SOLUTION

An exciting, minimally invasive urethral stricture treatment, the Optilume® drug-coated balloon was developed in response to severe patient and physician dissatisfaction with current stricture solutions.

This proprietary technology combines balloon dilation and drug delivery and is well-tolerated by patients.1



Laborie 102419-3 Elliott SP, Coutinho K, Robertson KJ, D'Anna R, Chevli K, Carrier S, Aube-Peterkin M, Cantrill CH, Ehlert MJ, Te AE, Dam J, DeLong JM, Brandes SB, Hagedom JC, Levin R, Schlaifer A, DeSouza E, DiMarco D, Erickson BA, Natale R, Husmann DA, Morey A, Olsson C and Virasoro R, One-Year Results for the ROBUST III Randomized Controlled Trial Evaluating the Optilume Drug-Costed Balloon for Anterior Urethral Strictures. The Journal of Unionion (2021). 00: 10:1097/J. UNIO0000000002246

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PACLITAXEL DRUG COATING

Paclitaxel is a proven anti proliferative drug that has been used in chemotherapy since the early 1990s4. As a mitotic inhibitor, paclitaxel's mechanism of action (MoA) works by stabilizing microtubules to prevent the metaphase/anaphase transition, preventing new cell division and migration, stopping new tissue growth and the fibrotic scarring that leads to strictures.

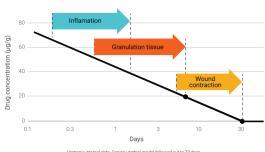
It is delivered locally, and absorption does not require prolonged exposure or sophisticated drug carriers. Cytostatic effect with low-dose administration maintains safety and integrity of surrounding tissue.

How it's delivered.

- · Paclitaxel is suspended in a coating called an excipient that is uniformly applied to the balloon
- The balloon is inflated in the urethra. simultaneously dilating the stricture and creating microfissures that enhance the uptake of paclitaxel
- · The excipient molecularly binds the paclitaxel to the balloon, until the inflated balloon comes in contact with the tissue for rapid drug release



Safe, therapeutic drug levels in tissue to 28 days



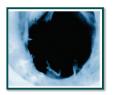
MODE OF ACTION

Mechanical Dilation

- Guidewire placed across the stricture, Optilume® DCB introduced over the guidewire
- 2 Optilume® DCB inflated to appropriate ATM plastically deforming stricture and opening urethral lumen
- 3 Creates micro-fissures in the urothelium enabling focused delivery of paclitaxel directly to strictured urethra







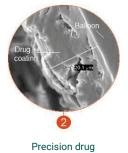
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MODE OF ACTION

Simultaneous Drug Delivery

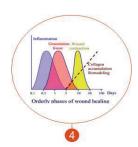




dose (3.5µg/mm²)



Hydrophobic drug



Paclitaxel remains present through inflammatory, proliferation and remodeling stages of wound healing

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OPTILUME® FEATURES AND BENEFITS

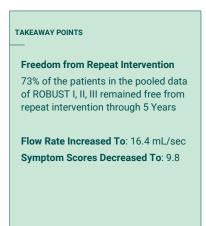
- Reduces the high recurrence cycle of failed endoscopic stricture management⁶
- · Minimally invasive, ambulatory treatment option
- Procedure can be performed under both rigid or flexible cystoscopy for maximum patient comfort
- Rapid & sustained improvement in symptoms and flow⁵
- Consistent safety and side effect profile in-line with existing stricture management³
- Local or light anesthesia procedure
- Preserves sexual function⁷
- Cost-effective alternative to recurrent endoscopic management⁷

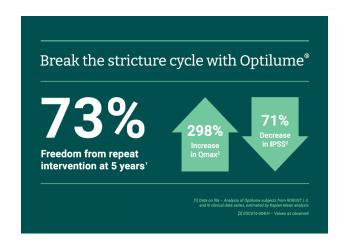




Direct visualization if inflated Optilume.®
 Post-treatment deflation of balloon with visible coating adherent to

ROBUST Clinical Program Summary - Results Through 5 Years





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- 1

Optilume: Recommended in the AUA Urethral Stricture Disease Guideline

TAKEAWAY POINTS

The Optilume Urethral Drug Coated Balloon is a treatment option for recurrent short bulbar urethral strictures per recommendation from the American Urological Association.





Urethral Stricture Disease Guideline (2023)

1

"Surgeons may perform urethral dilation, or direct visual internal urethrotomy combined with **drug-coated balloons**, for recurrent bulbar urethral strictures <3cm in length."

Laborie 102419-3 Wessells H, Morey A, Vanni A, Rahimi L, Souter L. Urethral Stricture Disease Guideline Amendment (2023). J Urol. 2023 Apr 25:101097JU0000000000003482. doi: Company Confidential 10.1097/JU.00000000000003482. Epub ahead of print. PMID: 37096574.

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ROBUST CLINICAL PROGRAM - OVERVIEW

Study	ROBUST I	ROBUST II	ROBUST III
Design	Single arm, prospective, multicenter	Single arm, prospective, multicenter	Randomized (2:1), prospective, single blind, multicenter
Geography	Latin America	United States	United States and Canada
Sites	4	5	22
Total Enrollment	53	16	127 • Optilume® DCB: 79 • Standard of Care: 48
Procedure	Optilume® DCB Pre-dilation Plain balloon: 31/53 (59%) DVIU: 8/53 (15%) Balloon + DVIU: 14/53 (26%)	Optilume® DCB Pre-dilation None: 9/16 (56.3%) Plain balloon: 3/16 (18.8%) DVIU: 2/16 (12.5%) Balloon + DVIU: 1/16 (6.3%)	Optilume® DCB Pre-dilation Plain balloon: 72/79 (91.1%) DVIU: 3/79 (3.8%) Balloon + DVIU: 4/79 (5.1%) Standard of Care Plain Balloon: 28/48 (58.3%) DVIU: 12/48 (25.0%) Rigid Rods: 8/48 (16.7%)

ROBUST CLINICAL PROGRAM - CHARACTERISTICS

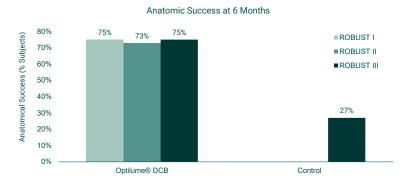
Stricture Characteristics	ROBUST I	ROBUST II	ROBUST III
Stricture Length	0.9cm ± 0.5cm (53) ■ Proportion ≥2cm: 1/53 (1.9%)	2.1cm ± 0.7cm (16) ■ Proportion ≥2cm: 13/16 (81.3%)	1.6cm ± 0.8cm (79) ■ Proportion ≥2cm: 36/79 (45.6%)
Prior Dilations	1.7 ± 0.8 (53) ■ Proportion with ≥2: 43%	4.1 ± 4.9 (16) ■ Proportion with ≥2: 100%	3.2 ± 1.73 (79) ■ Proportion with ≥2: 100%
Anatomical location	Bulbar: 53/53 (100%) Penile: 0/53 (0%)	Bulbar: 16/16 (100%) Penile: 0/16 (0%)	Bulbar: 71/79 (89.9%) Penile: 8/79 (10.1%)
Etiology	Idiopathic: 2/53 (3.8%) latrogenic: 24/53 (45.3%) Traumatic: 27/53 (50.9%) Inflammatory: 0/53 (0.0%)	Idiopathic: 11/16 (68.8%) Iatrogenic: 2/16 (12.5%) Traumatic: 3/16 (18.8%) Inflammatory: 0/16 (0.0%)	Idiopathic: 42/78 (53.8%) latrogenic: 21/78 (26.9%) Traumatic: 14/78 (17.9%) Inflammatory: 1/78 (1.3%)
Baseline retention	27/53 (50.9%)	1/16 (6.3%)	26/79 (32.9%)
Prior Radiation	0/53 (0.0%)	0/16 (0.0%)	9/79 (11.4%)

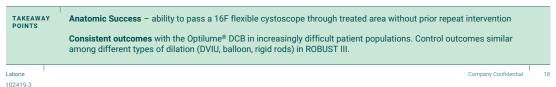
Stricture characteristics represent a **difficult patient population for all studies**, particularly so for ROBUST II and ROBUST III (≥ 2) prior dilations and (≥ 2) cm.

Similar stricture characteristics were seen in both Optilume® DCB and Control arms in ROBUST III

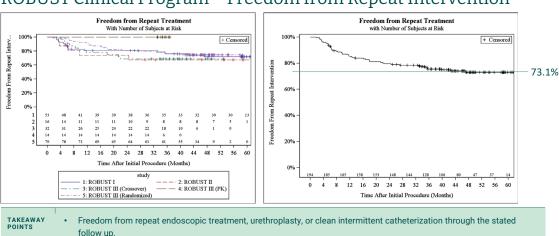
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ROBUST CLINICAL PROGRAM - 6-MONTH ANATOMIC SUCCESS





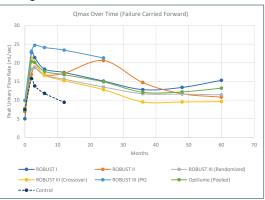
ROBUST Clinical Program – Freedom from Repeat Intervention



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ROBUST Clinical Program - IPSS and Qmax





TAKEAWAY POINTS

- · Symptom Scores: International Prostate Symptom Score (IPSS) remains steady through 4-year follow-up
- Peak Flow Rate: Qmax values are sustained at 4-year follow-up

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OPTILUME® STRICTURE - CLINICAL DATA SUMMARY

ROBUST-I First-in Man Study & ROBUST-II Early Feasibility Study

ROBUST I Study

- Prospective, multicenter, single arm study evaluating the safety and efficacy
 of the Optilume® DCB in recurrent anterior urethral strictures.
- A total of 53 subjects were enrolled at 4 investigational centers in Panama and the Dominican Republic.
- Key eligibility criteria included anterior urethral strictures ≤2 cm in length with 1-3 prior dilations. Subjects with prior urethroplasty, Lichen Sclerosis penile implants or artificial urinary sphincters, and prior pelvic radiation were excluded.
- Follow up is planned through 5 years post-treatment.

ROBUST II Study

- Prospective, multicenter, single arm study evaluating the safety and early feasibility of the Optilume® DCB.
- A total of 16 subjects were enrolled at 5 investigational centers. Key
 eligibility criteria were similar to ROBUST I with the exception of allowing
 stricture length up to 3cm and requiring a minimum of 2 prior endoscopic
 treatments of the stricture.
- Study strictures were an average of 2.1cm in length and had an average of 4.1 prior dilations. Freedom from stricture recurrence at 6 months was 73% (11/15).
- Subject follow-up is complete through 1 year and 2-year follow-up is ongoing.

Table 13-9: ROBUST I Efficacy Results

Measure	Baseline	3 Months	6 Months	1 Year	2 Years	3 Years
IPSS	25.2 ± 4.5	6.1 ± 7.6	4.6 ± 5.2	4.5 ± 3.9	6.9 ± 7.7	5.5 ± 6.9
	(53)	(51)	(45)	(40)	(38)	(33)
IPSS QoL	4.9 ± 0.9	0.8 ± 1.3	0.7 ± 0.9	0.7 ± 0.9	0.9 ± 1.5	0.7 ± 1.2
	(53)	(51)	(45)	(40)	(38)	(33)
Qmax	5.0 ± 2.6	22.2 ± 12.5	19.8 ± 10.8	20.1 ± 10.0	17.5 ± 10.4	15.1 ± 8.3
(mL/sec)	(46)	(51)	(45)	(39)	(38)	(33)
PVR (mL)	141.4 ± 105.1	36.5 ± 37.7	30.0 ± 42.8	24.6 ± 32.1	45.5 ± 49.5	50.2 ± 62.5
	(43)	(51)	(45)	(39)	(38)	(33)

Table 13-10: ROBUST-II Efficacy Results

Measure	Baseline	3 Months	6 Months	1 Year
IPSS	18.4 ± 4.9	7.5 ± 6.4	7.0 ± 6.7	6.0 ± 6.1
	(16)	(16)	(14)	(9)
IPSS QoL	4.4 ± 1.3	1.8 ± 1.8	1.6 ± 1.5	1.4 ± 1.5
	(16)	(16)	(14)	(9)
Qmax	6.9 ± 3.7	18.9 ± 16.4	17.5 ± 9.4	20.8 ± 9.1
(mL/sec)	(16)	(15)	(13)	(9)
PVR (mL)	187.1 ± 227.1	79.3 ± 80.3	64.1 ± 40.2	66.4 ± 57.5
	(16)	(15)	(13)	(9)

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OPTILUME® STRICTURE - CLINICAL DATA SUMMARY

ROBUST-III Pivotal Randomized study

ROBUST III Study

- ROBUST III study is a prospective, 2:1 randomized, multicenter, single blind trial comparing the Optilume® DCB against SOC endoscopic management of recurrent anterior urethral strictures. Eligibility criteria included visually confirmed anterior urethral strictures ≤3cm in length and <12F in diameter with at least 2 prior endoscopic treatments. Subjects with active UTI, prior urethroplasty, Lichen Sclerosis, uncontrolled diabetes (HbA1C >8%), and unresolved or untreated confounding urologic conditions (e.g. BPH, BNC, OAB) were excluded.
- Follow-up visits were completed at the time of Foley removal (2-5 days), 30 days, 3 months, 6 months, and 12 months post-treatment. Subjects were blinded to treatment received through primary follow-up of 6 months. Long term follow-up is planned through 5 years for subjects receiving the Optilume® DCB.
- Subjects randomized to SOC endoscopic management were allowed to cross over to receive the Optilume® DCB prior to the close of the 12-month follow-up window if stricture recurrence was confirmed by recurrent lower urinary tract symptoms (LUTS) and urethral diameter <12F measured by urethrogram. Subjects crossing over to receive the Optilume® DCB will be followed according to the standard follow-up schedule through 5 years, beginning on the date Optilume® DCB treatment was received.

Table 13-3. Primary Safety Endpoint Results

Endpoint	Control n/N (%)	Optilume DCB n/N (%)
Serious device or procedure related complication through 3 months post-treatment	0/48 (0.0%)	0/79 (0.0%)
Formation of Fistula	0/48 (0.0%)	0/79 (0.0%)
Unresolved De Novo Stress Urinary Incontinence	0/48 (0.0%)	0/79 (0.0%)
Urethra Rupture or Burst	0/48 (0.0%)	0/79 (0.0%)

A lotal of 19 subjects are missing the primary endpoint assessment in the randomized cohort. The rate of missing primary endpoint data was balanced between arms, with 12 (15.2%) in the Treatment arm and 7 (14.6%) in the Control arm. Five, 50 subjects hassed their 6-month visit due to COVID concerns, 6 subjects has their 6-month visit on Control arm. Five, 6 subjects has their 6-month visit one to COVID concerns visit and 4 subjects visit made 4 subjects visit and 4 s

Endpoint	Control (n=48)	Optilume DCB (n=79)	Difference ^a [90% CI]	p-value ^a
Change in Qmax at 6 Months n Mean ± Std Dev	31 5.6 ± 7.8	65 9.1 ± 9.1	+4.78 [1.94 - 7.61]	0.0031
* Estimate of the difference (Optilume-Control), 95% CI, and 1-sided p-value are based on the model based estimates resulting from multiple-imputation of missing data.				

OPTILUME® STRICTURE - PATIENT SELECTION

Optilume® DCB Indications

- The Optilume® Urethral Drug Coated Balloon is used to treat patients with obstructive urinary symptoms associated with anterior urethral stricture
- It is designed to be used in adult males for urethral stricture of ≤3 cm in length

Contraindications

- The Optilume® Urethral Drug Coated Balloon is contraindicated for use in patients with known hypersensitivity to paclitaxel or structurally related compounds, and
- In patients with implants such as penile prosthesis or artificial urinary sphincter

Optilume® DCB Product Selection7

- Select a balloon length that is a minimum of 1cm longer that the stricture
- If the stricture is greater than 2cm, a 5cm balloon should be chosen
- Select a balloon diameter that is slightly larger than the diameter of the healthy urethra adjacent to the distal edge of the stricture. (Most common is 30F. 18, 24, and 36F are also available)
- Either a rigid or flexible cystoscope can be used in conjunction with a flexible tip 0.038" or 0.035" guidewire
- Use a standard inflation device with a pressure gauge rated for at least 15atm, filled with saline or a mixture of 50:50 contrast:saline mix
- Minimize handling and do not wipe the balloon with dry, wet or lubricated gauze, or any solvent that could damage the integrity of the drug coating
- Refer to the IFU for information on device handling and balloon size selection (Optilume DCB IFU 1111-003)

*Elterman DS, Coutinho K, Hagedorn JC. How I do it: the Optillume drug-coated balloon for urethral strictures. Can J Urol 2020; 27)+(4); 10322-10328

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OPTILUME® MOST COMMON USE

	e® DCB and Inflation Device	24Fr	3cm	75cm	12 atm	2,639
OPTBDL7003B Optilume	e® DCB and Inflation Device	24Fr	5cm	75cm	12 atm	4,398
OPTBDL7004B Optilume	e® DCB and Inflation Device	30Fr	3cm	75cm	10 atm	3,299
OPTBDL7005B Optilume	[®] DCB and Inflation Device	30Fr	5cm	75cm	10 atm	5,498

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OPTILUME® STRICTURE - IFU

WARNINGS

- The Optilume® DCB is supplied STERILE for single use only. Do not reprocess or re-sterilize. Reprocessing and re-sterilizing could increase the risk of patient infection and risk of compromised device performance.
- The foil pouch and the outer surface of the inner Tyvek pouch are NON-STERILE. The CONTENTS of the inner Tyvek pouch are STERILE.
- Do not use this device if there is an active infection in the urinary tract (UTI). Infection must be resolved before treating the stricture with the Optilume® DCB.
- Do not use after the "Use By" date
- Men should abstain from sex or use barrier contraception (wear a condom) for 30 days post treatment to avoid exposure of sexual partner to paclitaxel.
 Paclitaxel may still be present at very low levels after 30 days, see Section 12.1.9.
- The Optilume® DCB contains paclitaxel, a known genotoxic aneugen. Because paclitaxel may be present in semen after treatment with the Optilume® DCB
 (Section 12.1.9), men with partners of child-bearing potential should use highly effective contraceptive and avoid fathering children until at least 6 months
 after treatment with the Optilume® DCB. Paclitaxel was detectable in semen in 60% (9/15), 39% (5/13) and 8.3% (1/12) of subjects at 1 month, 3 months,
 and 6 months post-treatment, respectively.
- Maximum paclitaxel concentrations in semen were 17.6, 3.5, and 0.9 ng/mL at 1 month, 3 month and 6 months, respectively, while group mean (SD) paclitaxel concentrations in semen at those same timepoints were 3.0 (4.9), 0.5 (1.0), and 0.1 (0.2) ng/mL. Mean paclitaxel semen concentrations approached the lower limit of quantitation (0.1 ng/mL) at 6 months post-treatment i risks associated with these paclitaxel concentrations in semen are unknown. The effect of treatment with the Optilume® DCB on sperm and spermatogenesis is also unknown.
- Do not manipulate the Optilume® DCB in an inflated state. Aspirate (deflate) the balloon completely before gently removing the device from the urethra.
- If resistance is encountered at any time during the insertion or withdrawal of the device do not force passage. Resistance may cause damage to device or urethra.
- The impact of multiple treatments with the Optilume® DCB for the same stricture has not been extensively studied. Multiple treatments of the same stricture will increase exposure to paclitaxel, the risks associated with this are currently unknown.

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OPTILUME® REGULATORY INFORMATION

Product Classification Details	Description
Generic Name	Catheter, Balloon, Urethral, Drug-Coated
Trade Name	Optilume® Urethral Drug Coated Balloon
Indications for Use	The Optilume® Urethral Drug Coated Balloon is used to treat patients with obstructive urinary symptoms associated with anterior urethral stricture. It is designed to be used in adult males for urethral strictures of ≤3 cm in length.
PMA Number	P210020
FDA Classification	Class III
Approval Date	12/03/2021
Product Code	QRH
Target Area	Urethra
Technical Method	Exert radial force to dilate narrow urethral segment (strictures)
Submission Type	PMA



Double click image to view full PDF

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REFERENCES

- ¹ Steenkamp JW, Heyns CF, de Kock ML. J Urol 1997;157:98-101
- $^2\,\mbox{Heyns}$ CF, Steenkamp JW, de Kock ML. J Urol 1998;160:356-8
- ³ Elliott SP, Coutinho K, Robertson KJ, D'Anna R, Chevli K, Carrier S, Aube-Peterkin M, Cantrill CH, Ehlert MJ, Te AE, Dann J, DeLong JM, Brandes SB, Hagedorn JC, Levin R, Schlaifer A, DeSouza E, DiMarco D, Erickson BA, Natale R, Husmann DA, Morey A, Olsson C and Virasoro R, One-Year Results for the ROBUST III Randomized Controlled Trial Evaluating the Optilume Drug-Coated Balloon for Anterior Urethral Strictures, The Journal of Urology® (2021), doi: 10.1097/JU.0000000000002346
- ⁴ Zasadil LM, Andersen KA, Yeum D, et al. Cytotoxity of paclitaxel in breast cancer is due to chromosome missegregation on multipolar spindles. Sci Transl Med 2014;6(229):229ra43
- ⁵ Elliott SP, Virasoro R, Estrella R, et al. MP56-06 The Optilume Drug Coated Balloon for Recurrent Anterior Urethral Strictures: 3-year Results from the ROBUST I Study. J Urol 2021;206(3S):e971.
- ⁶ Mann RA, et al.. Can Urol Assoc J 2021;15(2):20-5. http://dx.doi.org/10.5489/cuaj.6661
- 7 Data on file
- ⁸ CPT is a registered trademark of the American Medical Association. Copyright 2020. All rights reserved.
- ⁹ CMS 2024 Physician Fee Schedule. Addendum B.
- ¹⁰ CMS 2024 Hospital Outpatient Fee Schedule. Addendum B.
- CMS 2024 Ambulatory Surgery Center Fee Schedule. Addendum B.
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QUESTIONS?

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