



## Moises Socarras

@moissocarras

Urologist, FEBU @ICUAurologia (Instituto  
Cirugía Urológica Avanzada), Team  
@residentesAEU @EAU\_YAUrotech  
#laser #Stones #HBP #PCa #newtech  
#SoMe 🇪🇸 🇩🇪 🇮🇹 🇪🇸

📍 Madrid, Comunidad de Madrid

🌐 icua.es



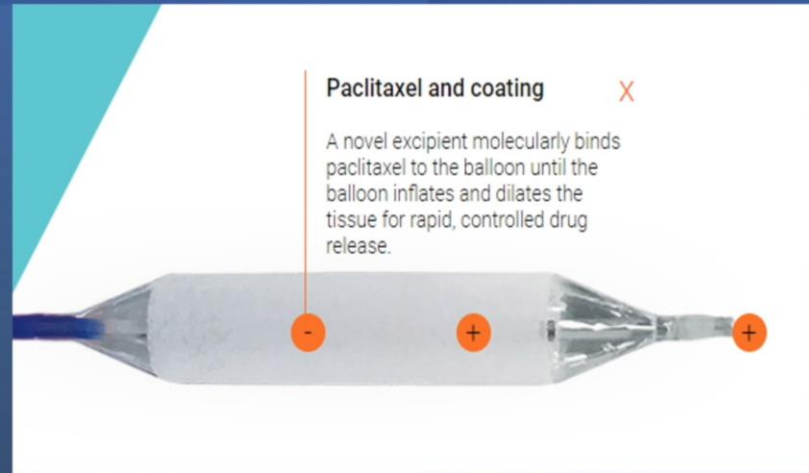
**iCUA**  
INSTITUTO DE CIRUGÍA  
UROLOGICA AVANZADA

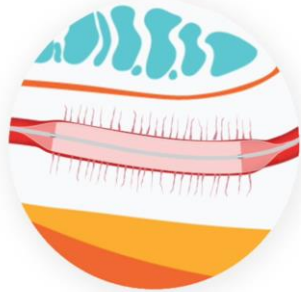
# Optilume: ¿Compite con la uretroplastia? Datos, comparación

Moisés Rodríguez Socarrás, ICUA - Madrid, Spain  
Septiembre 2023

# Background

- ✓ **Paclitaxel** es un taxano, con actividad anticancerígena que es capaz de inhibir el crecimiento de fibroblastos y la formación de cicatrices.
- ✓ Stents recubiertos de Paclitaxel han sido utilizados con éxito en estenosis coronarias recurrentes y han sido introducidos recientemente en urología como opción de tratamiento para estenosis de uretra.





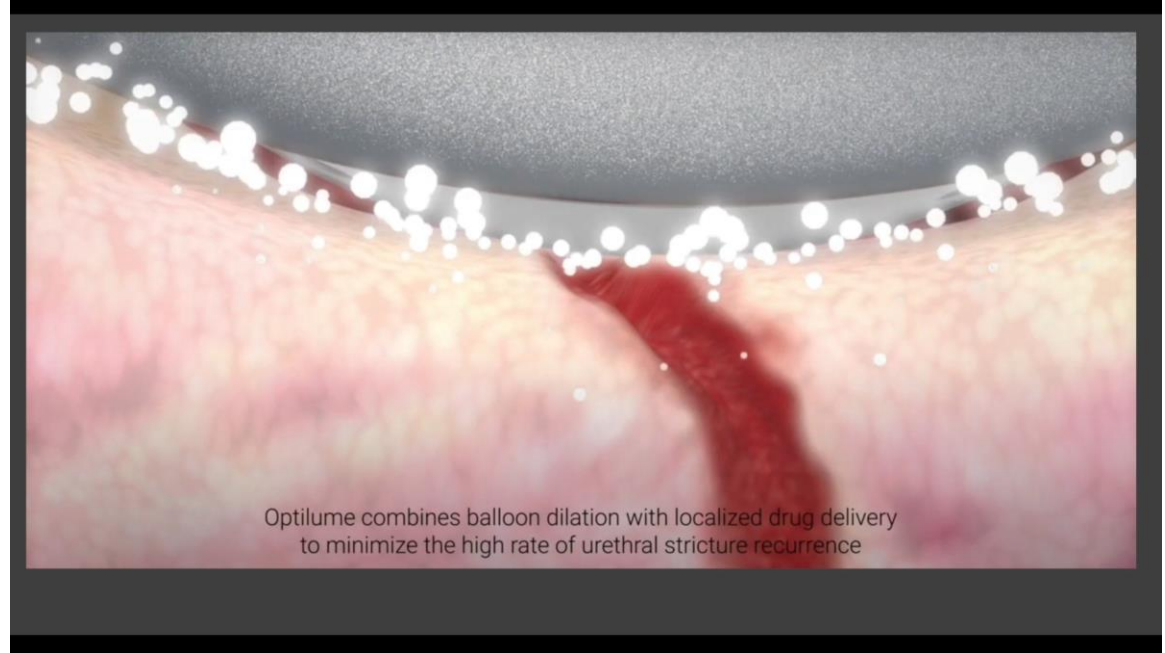
### Inflates.

Balloon inflates to create micro-fissures in the tissue, providing a pathway for drug absorption.



### Delivers.

Hydrophobic and lipophilic properties support rapid cellular uptake—enabling the drug to pass through the urethral wall and take up residency in the tissue.



**Paclitaxel stent coating inhibits neointimal hyperplasia at 4 weeks in a porcine model of coronary restenosis.**

7  
Cite Heldman AW, Cheng L, Jenkins GM, Heller PF, Kim DW, Ware M Jr, Nater C, Hruban RH, Rezai B, Abella BS, Bunge KE, Kinsella JL, Sollott SJ, Lakatta EG, Brinker JA, Hunter WL, Froehlich JP. *Circulation*. 2001 May 8;103(18):2289-95. doi: 10.1161/01.cir.103.18.2289. PMID: 11342479

We tested whether **paclitaxel**-coated coronary **stents** are effective at preventing neointimal proliferation in a porcine model of restenosis. **METHODS AND RESULTS:** Palmaz-Schatz **stents** were dip-coated with **paclitaxel** (0, 0.2, 15, or 187 microgram/**stent** ...

**Paclitaxel-coated stent: is there a light at the end of the tunnel?**

8  
Cite Kipshidze N, Moses JW, Leon MB. *J Am Coll Cardiol*. 2001 Jul;38(1):292-3. doi: 10.1016/s0735-1097(01)01357-2. PMID: 11451292 **Free article.** No abstract available.

**Pathological analysis of local delivery of paclitaxel via a polymer-coated stent.**

9  
Cite Farb A, Heller PF, Shroff S, Cheng L, Kolodgie FD, Carter AJ, Scott DS, Froehlich J, Virmani R. *Circulation*. 2001 Jul 24;104(4):473-9. doi: 10.1161/hc3001.092037. PMID: 11468212  
rare CSG-coated **stents** with **paclitaxel** (42.0, 20.2, 8.6, or 1.5 microgram of **paclitaxel** per **stent**), CSG-coated **stents** without **paclitaxel**, and uncoated **stents** (without **paclitaxel** or CSG) were deployed in the iliac arteries of New ...

RESEARCH ARTICLE

Open Access



## Long-term clinical outcomes of everolimus-eluting stent versus paclitaxel-eluting stent in patients undergoing percutaneous coronary interventions: a meta-analysis

Min Meng<sup>1</sup>, Bei Gao<sup>1</sup>, Xia Wang<sup>1</sup>, Zheng-gang Bai<sup>2</sup>, Ri-na Sa<sup>1</sup> and Bin Ge<sup>1\*</sup>

### Abstract

**Background:** Everolimus -eluting stent (EES) is common used in patients undergoing percutaneous coronary interventions (PCI). Our purpose is to evaluate long-term clinical outcomes of everolimus -eluting stent (EES) versus paclitaxel-eluting stent (PES) in patients undergoing percutaneous coronary interventions (PCI) in randomized controlled trials (RCTs).

**Methods:** We searched Medline, EMBASE, Cochrane Library, CNKI, VIP and relevant websites ([https://scholar-google.com/ezproxy/lib.usf.edu/](https://scholar.google.com/ezproxy/lib.usf.edu/)) for articles to compare outcomes between everolimus-eluting stent and paclitaxel-eluting stent without language or date restriction. RCTs that compared the use of everolimus -eluting stent and paclitaxel-eluting stent in PCI were included. Variables relating to patient, study characteristics, and clinical endpoints were extracted. Meta-analysis was performed using RevMan 5.2 software.

**Results:** We identified 6 published studies (from three randomized trials) more on everolimus-eluting stent ( $n = 3352$ ) than paclitaxel-eluting ( $n = 1639$ ), with follow-up duration ranging from 3, 4 and 5 years. Three-year outcomes of everolimus-eluting stent compared to paclitaxel-eluting were as following: the everolimus-eluting stent significantly reduced all-cause death (relative risk [RR]0.63; 95 % confidence interval [CI] 0.46 to 0.82), MACE (RR: 0.56; 95 % CI: 0.41 to 0.77), MI (RR: 0.64; 95 % CI: 0.48 to 0.86), TLR (RR: 0.72; 95 % CI: 0.59 to 0.88), ID-TLR (RR: 0.74; 95 % CI: 0.59 to 0.92) and ST (RR: 0.54; 95 % CI: 0.32 to 0.90). There was no difference in TVR between the everolimus-eluting and paclitaxel-eluting (RR: 0.76; 95 % CI: 0.58 to 1.10); Four-year outcomes of everolimus-eluting compared to paclitaxel-eluting: the everolimus-eluting significantly reduced MACE (RR: 0.44; 95 % CI: 0.18 to 0.98) and ID-TLR (RR: 0.47; 95 % CI: 0.22 to 0.97). There was no difference in MI (RR: 0.48; 95 % CI: 0.16 to 1.46), TLR (RR: 0.46; 95 % CI: 0.20 to 1.04) and ST (RR: 0.34; 95 % CI: 0.05 to 2.39). Five-year outcomes of everolimus-eluting stent compared to paclitaxel-eluting: There was no difference in ID-TLR (RR: 0.67; 95 % CI: 0.45 to 1.02) and ST (RR: 0.71; 95 % CI: 0.28 to 1.80).

**Conclusions:** In the present meta-analysis, everolimus-eluting appeared to be safe and clinically effective in patients undergoing PCI in comparison to PES in 3-year clinical outcomes; there was similar no difference in reduction of ST between EES and PES in long-term(≥4 years) clinical follow-ups. Everolimus-eluting is more safety than paclitaxel-eluting in long-term clinical follow-ups, whether these effects can be applied to different patient subgroups warrants further investigation.

**Keywords:** Everolimus-eluting stent, Paclitaxel-eluting stent, Percutaneous coronary interventions, Systematic review, Meta-analysis

\* Correspondence: 55031393@qq.com  
<sup>1</sup>Department of Pharmacy, Gansu Provincial Hospital, Donggang West Road No. 204, Lanzhou, Gansu 730000, China  
Full list of author information is available at the end of the article



## One-Year Results for the ROBUST III Randomized Controlled Trial Evaluating the Optilume® Drug-Coated Balloon for Anterior Urethral Strictures

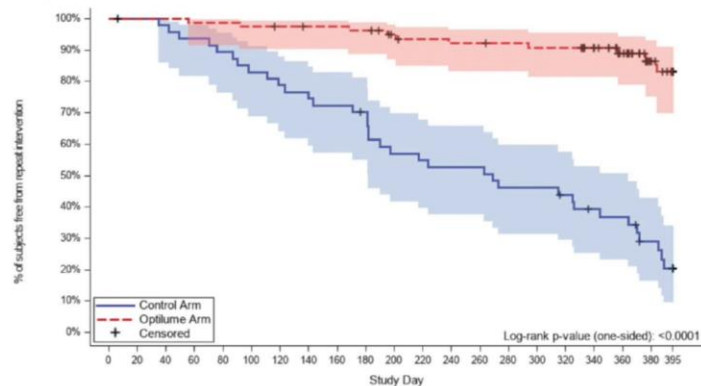
Sean P. Elliott, Karl Coutinho, Kaiser J. Robertson et al.

Correspondence: Sean P. Elliott (email: [selliott@um.edu](mailto:selliott@um.edu)).

Full-length article available at [www.auajournals.org/10.1097/JU.0000000000002345](http://www.auajournals.org/10.1097/JU.0000000000002345).

### CONCLUSIONS

The results of this randomized controlled trial support that Optilume DCB is safe and superior to standard DVIU/dilation for the treatment of recurrent anterior urethral strictures <3 cm in length. Superior outcomes were observed for freedom from repeat treatment at 1 year, anatomical success at 6 months and functional success at 1 year. We will continue to follow these men for 5 years. The Optilume DCB may serve as an important alternative for men who have had an unsuccessful DVIU/dilation but who want to avoid or delay urethroplasty.



	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	395	
<b>Control Arm</b>																						
At risk	48	47	46	44	42	39	37	36	34	32	26	25	24	24	21	21	19	16	15	10	7	
Censored	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	4	4	6	13	
Events	0	0	1	3	5	8	10	12	13	14	20	21	22	22	25	25	26	28	29	32	35	
<b>Optilume Arm</b>																						
At risk	79	79	79	78	78	77	76	75	75	74	69	67	66	66	65	64	64	59	47	29	23	
Censored	0	0	0	0	0	0	1	2	2	2	6	7	7	7	8	8	8	16	24	42	69	
Events	0	0	0	1	1	2	2	2	2	3	4	5	6	6	6	7	7	7	8	9	10	

Figure 3. Kaplan-Meier curve of freedom from repeat intervention through 1 year.





## Dilatacion con Balon recubierto paclitaxel (Optilume) N= 17 pacientes

Edad	28 –81
Tiempo seguimiento	9 (3-18) meses
Intervenciones previas	
• Uretroplastias	4
• Laser de prostatata	3
• Prostatectomia radical	2
• otras	3
Q max 1 / 3 / 12 meses	14 / 17 /16 ml/seg
fallido	1
Fracasos	2



# Indicaciones



- ✓ Estenosis < 3cm
- ✓ Primarias, recidivas uretroplastia, estenosis yuxtaesfinterianas post-HoLEP

Poco recomendable (Atención probabilidad de fracaso):

- Esclerosis de cuello post Prostatectomia radical
- Esclerosis uretra prostatitca posradioterapia (Fibrosis)
- Esclerosis de celda restos adenomatosos, postadenomectomia..



# Conclusion

- Alternativa para el tratamiento de estenosis de uretra < 3 cm