



**Monday, 10 May 2021, 15:00 CEST**  
EPIC Online Technology Meeting on Advanced Photonics in Urology

# What can you do for them and what can they do for you

Medico chirurgo

Specialista in Urologia e Andrologia



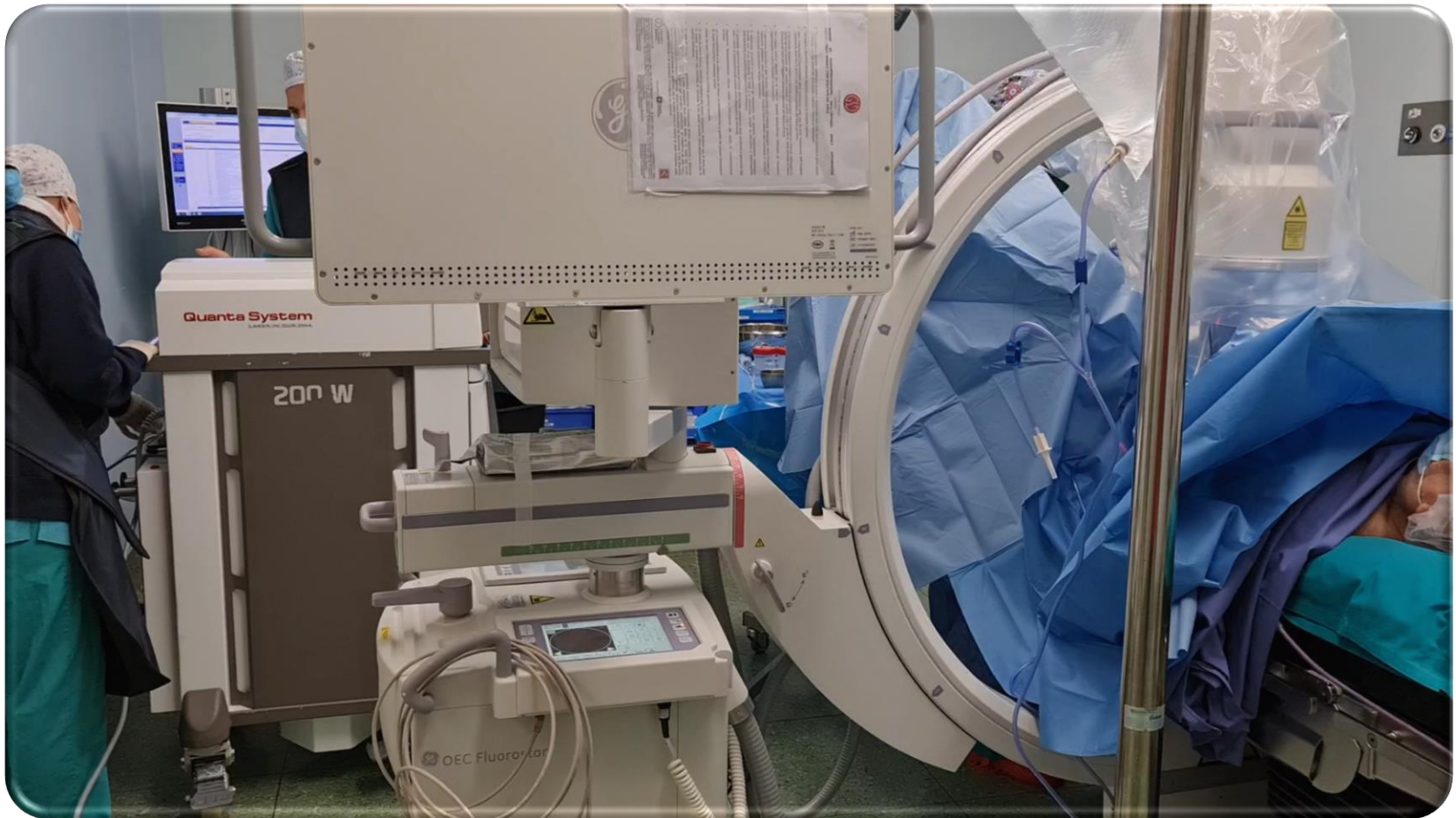
Dottoressa Serena Maruccia

Skilled in the assessment and diagnosis of urological conditions.  
With a profound knowledge on updates on the latest technology and  
procedures used in the profession and extensive training in  
performing laser surgeries of prostate

# My suggestions

1. Device size
2. Right distance between fiber and stone, maybe thanks to a change in colour
3. Temperature and pressure control
4. Tailored, single-use ureteroscopes

# Point 1: device size



# Point 1: device size



... chief surgeon  
was missing





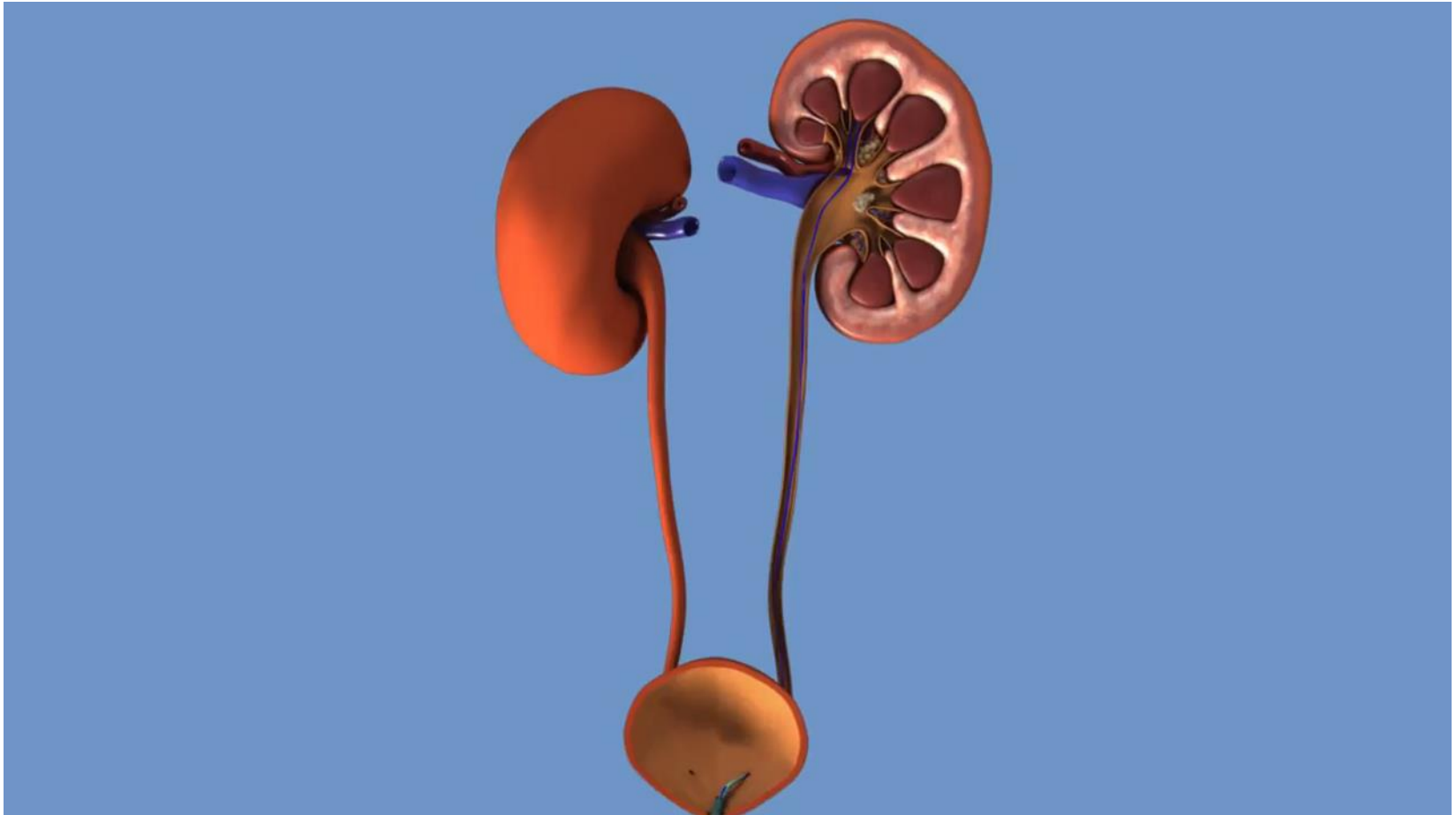
## Dimension

w: 550 mm

d: 750mm

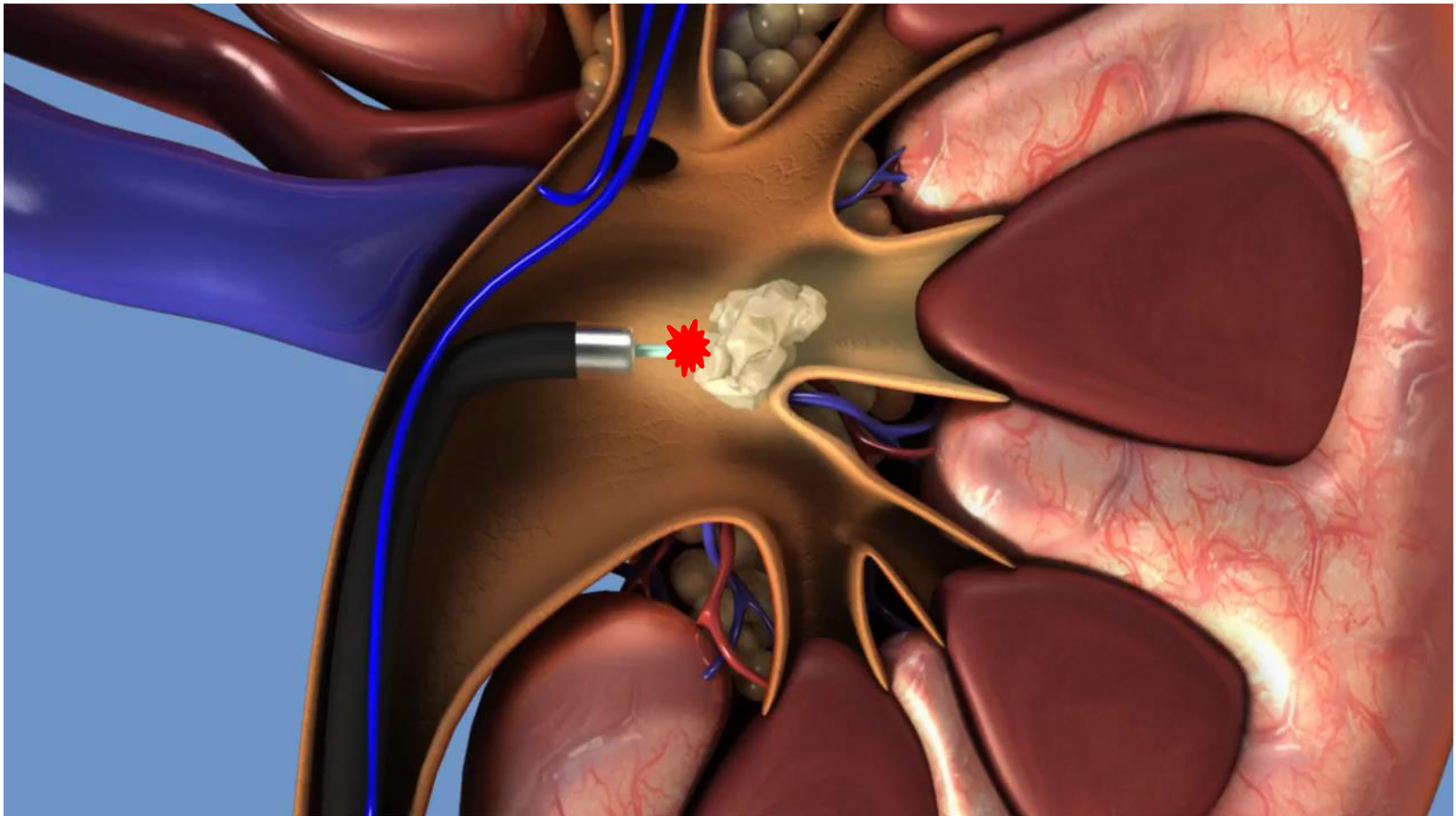
h: 1100 mm

# Point 2: target distance

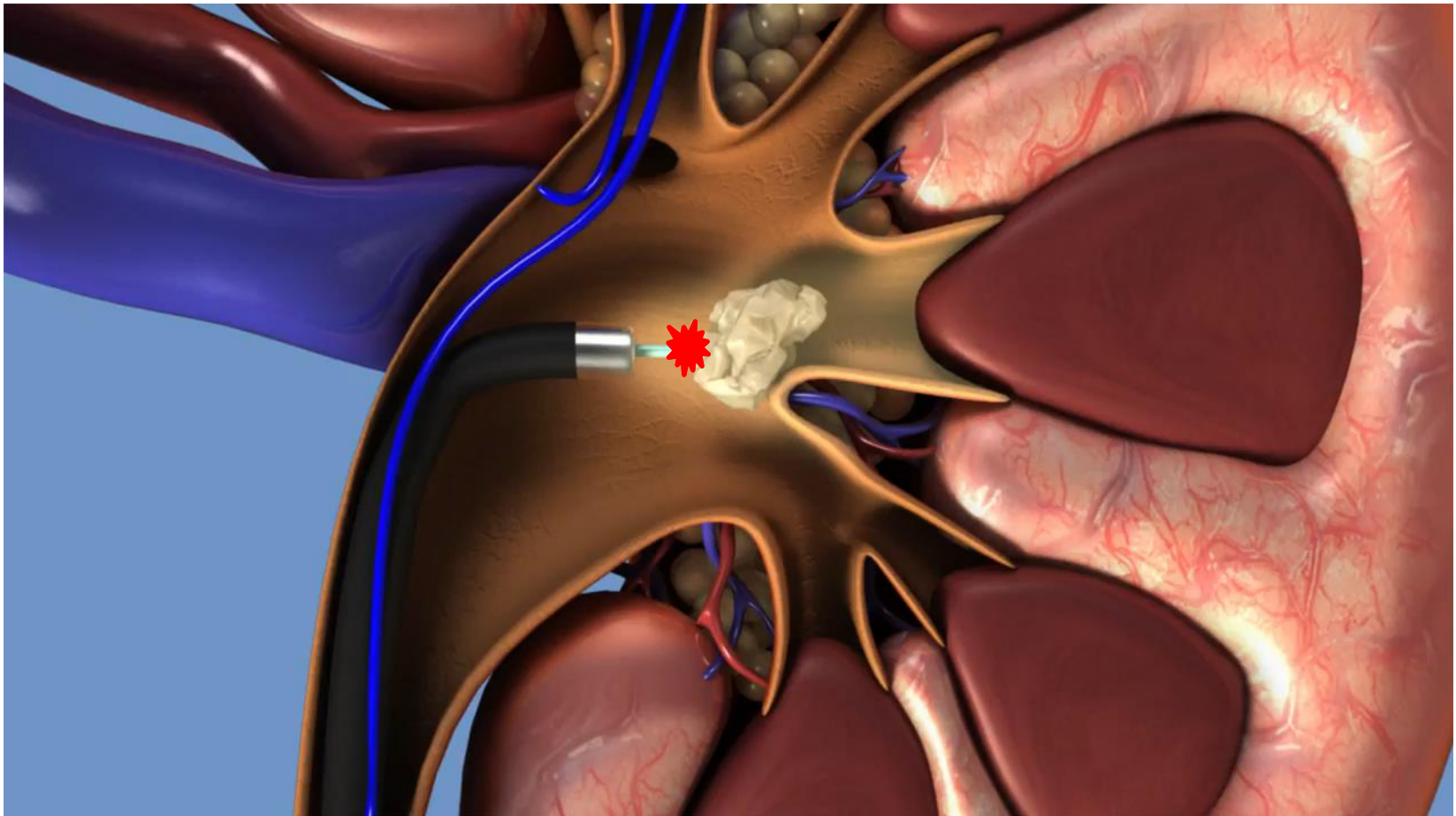




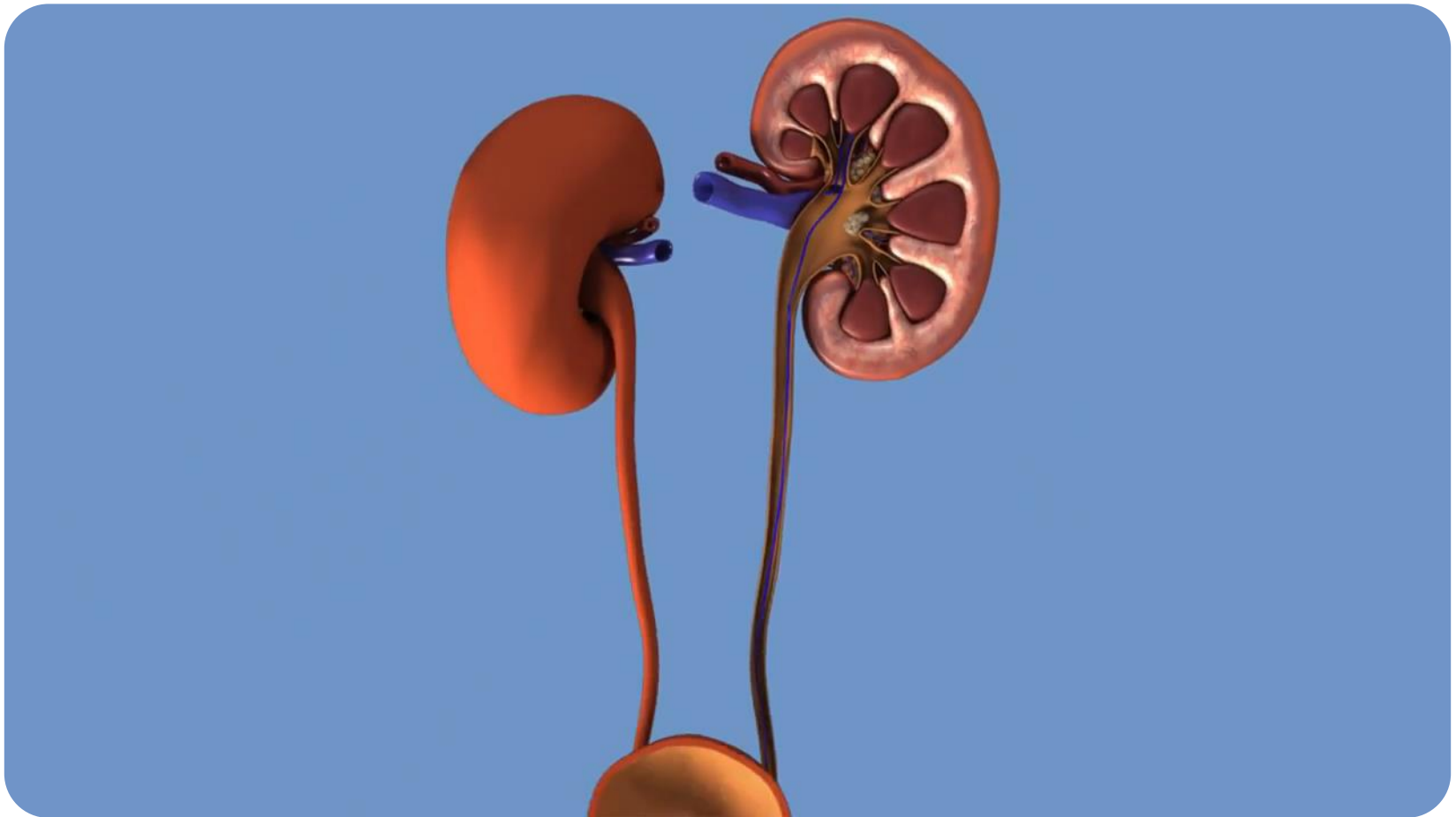
# Point 2: target distance



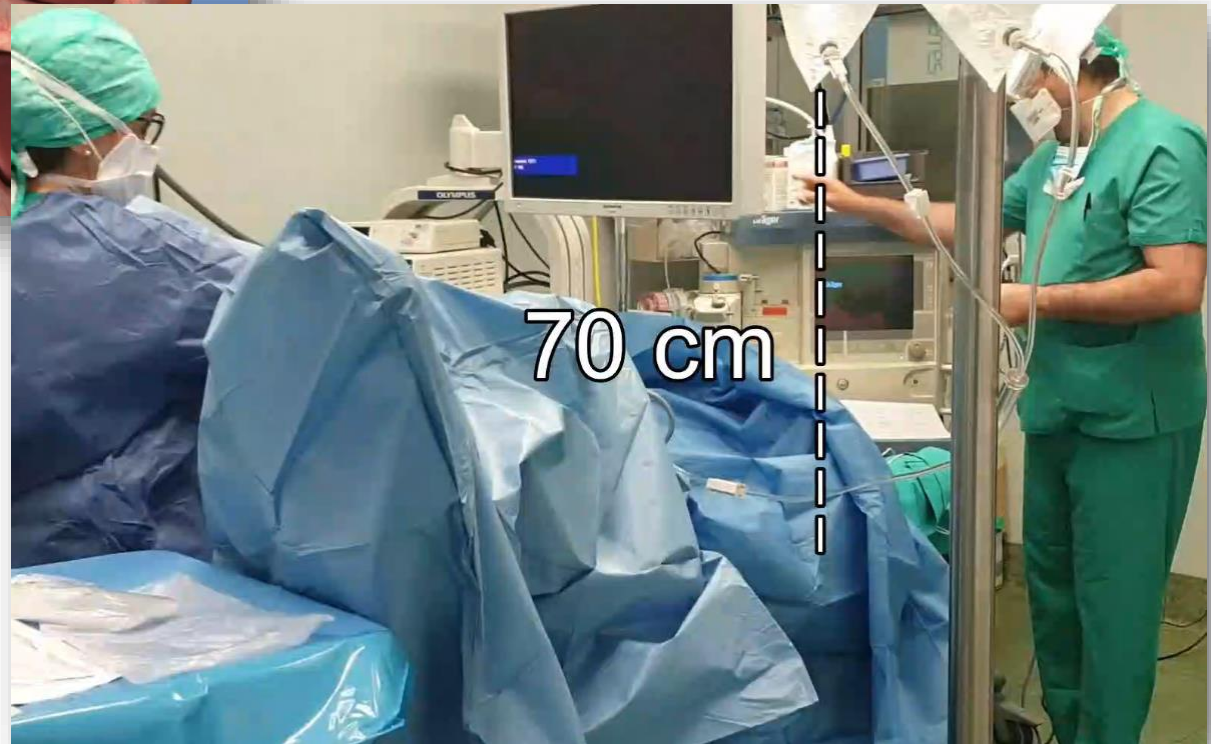
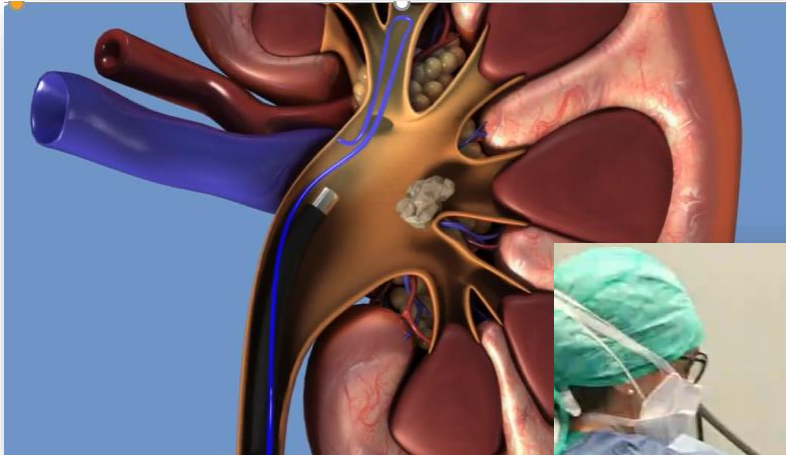
# Point 2: target distance



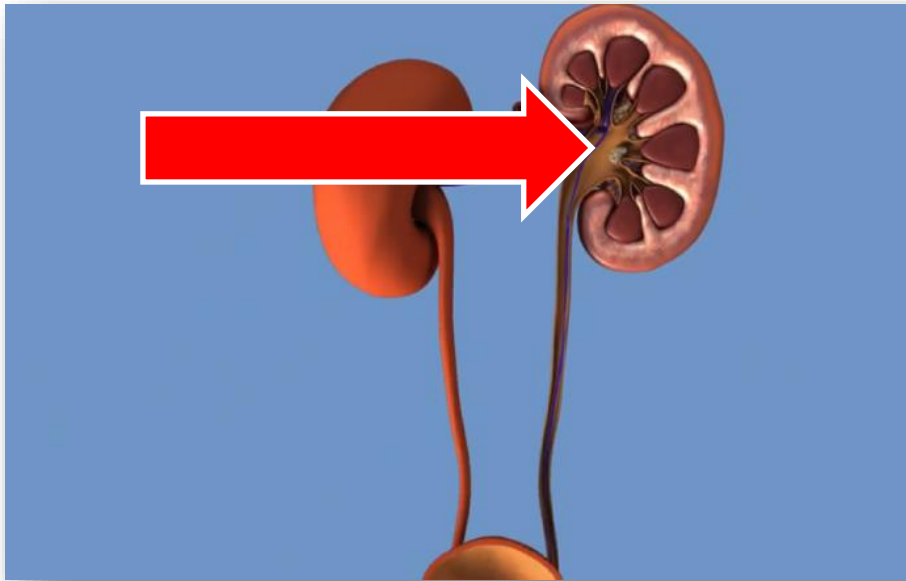
## Point 3: pressure and temperature control



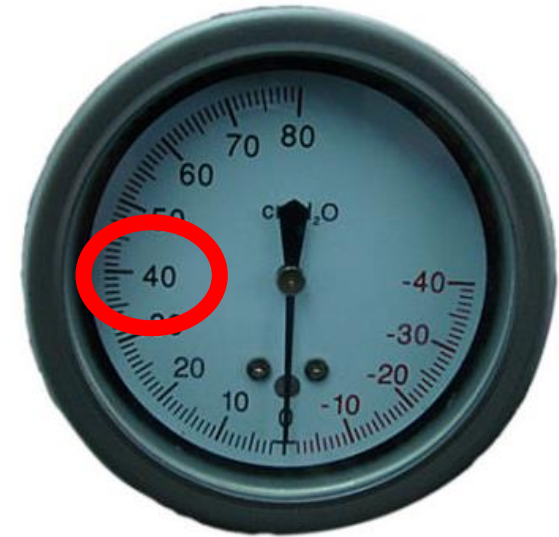
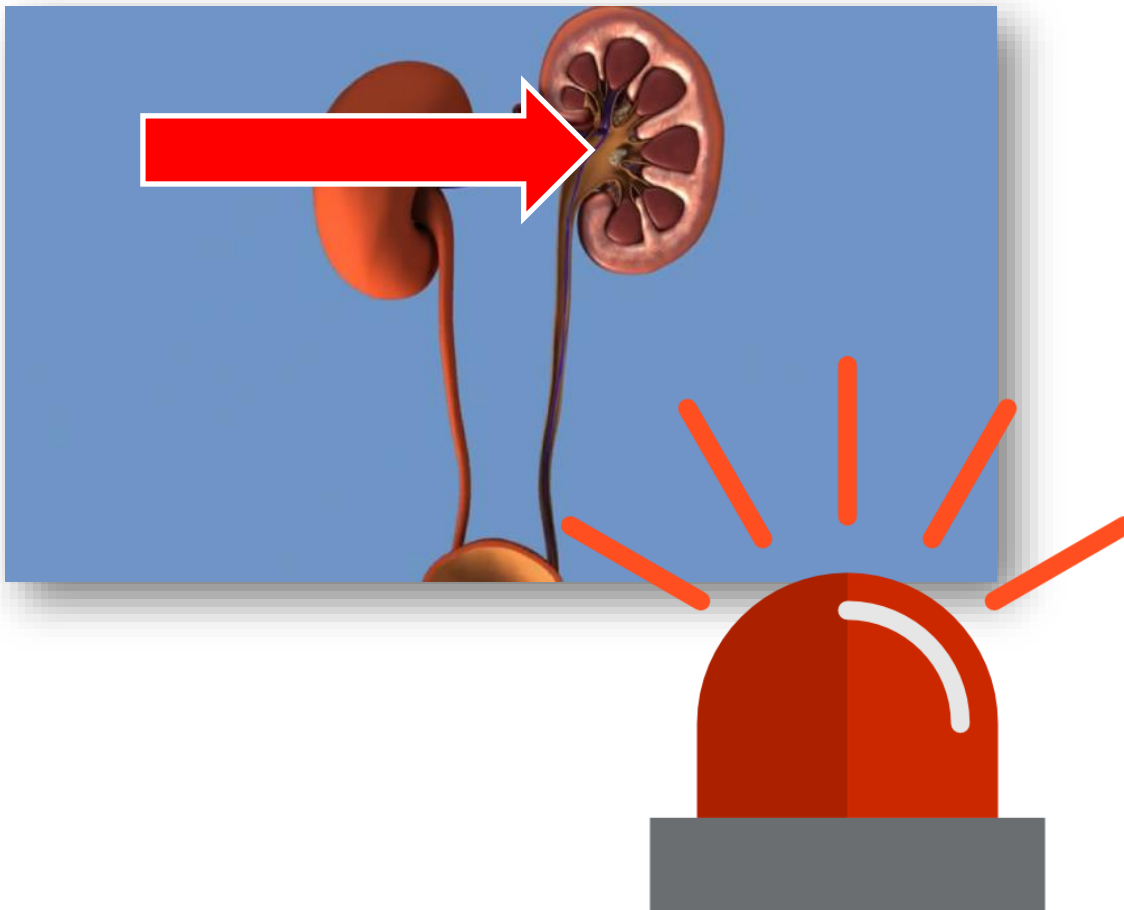
## Point 3: pressure and temperature control



## Point 3: pressure and temperature control

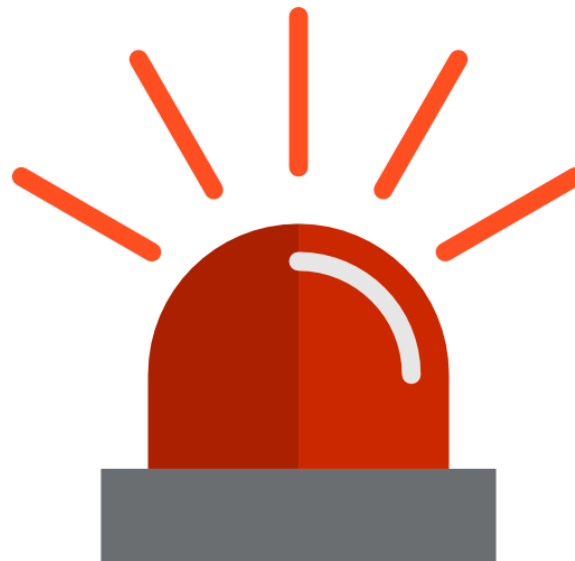


## Point 3: pressure and temperature control



## Point 3: pressure and temperature control

- Bleeding
- Perirenal collection
- Sepsis



# Point 3: pressure and temperature control

Jung and Osther. *SpringerPlus* (2015)4:373  
DOI 10.1186/s40064-015-1114-4

 SpringerPlus  
a SpringerOpen Journal

RESEARCH

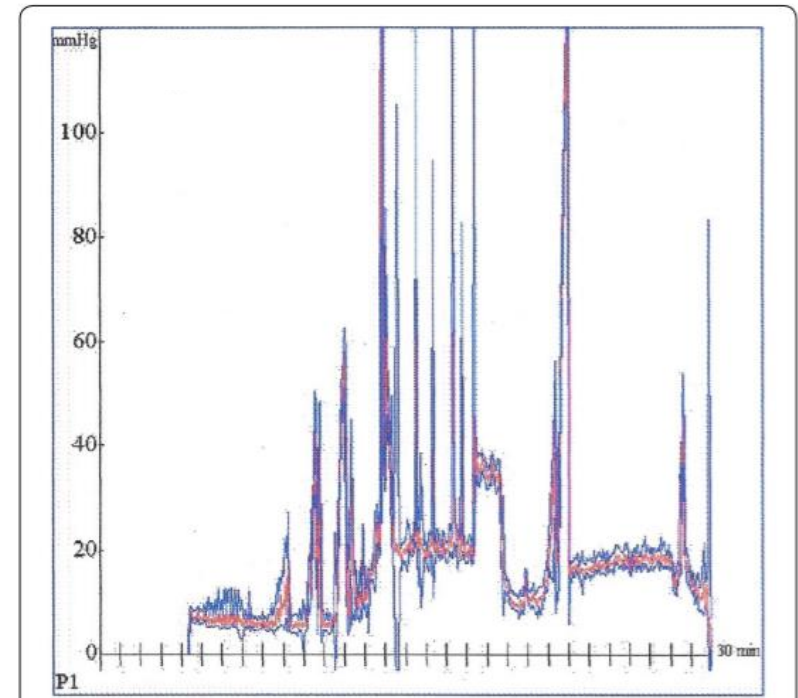
Open Access



## Intraluminal pressure profiles during flexible ureterorenoscopy

Helene Jung and Palle J S Osther\*

Intraluminal pelvic pressure measurements in a patient during ureterorenoscopy. High pelvic pressures were seen especially during forced irrigation and stone fragmentation





# Point 3: pressure and temperature control

Liang et al. *BMC Urology* (2020) 20:69  
<https://doi.org/10.1186/s12894-020-00639-w>

BMC Urology

RESEARCH ARTICLE

Open Access

## Thermal effect of holmium laser during ureteroscopic lithotripsy



Hui Liang<sup>1</sup>, Lijian Liang, Yin Yu, Bin Huang, Jia'nan Chen, Chaoguo Wang, Zhangguo Zhu and Xiaozhong Liang

In conclusion (...) during clinical application of laser lithotripsy technique, caution should be taken

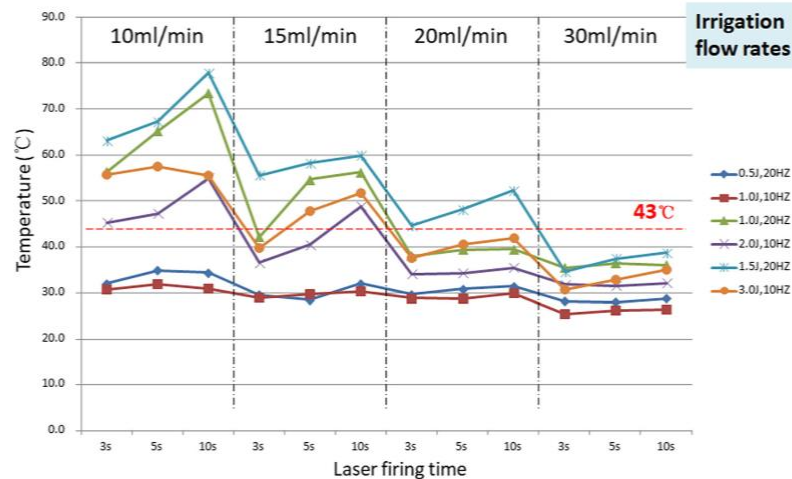
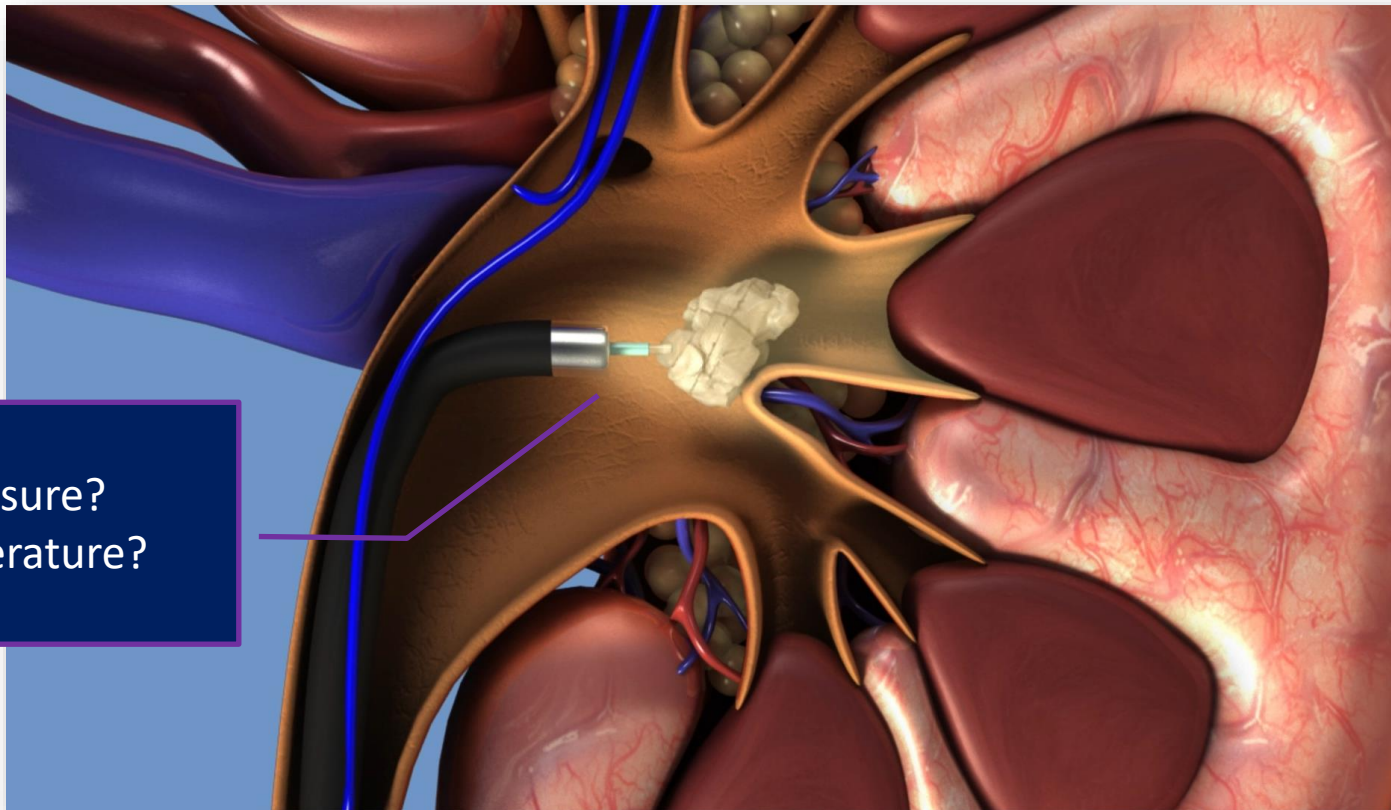


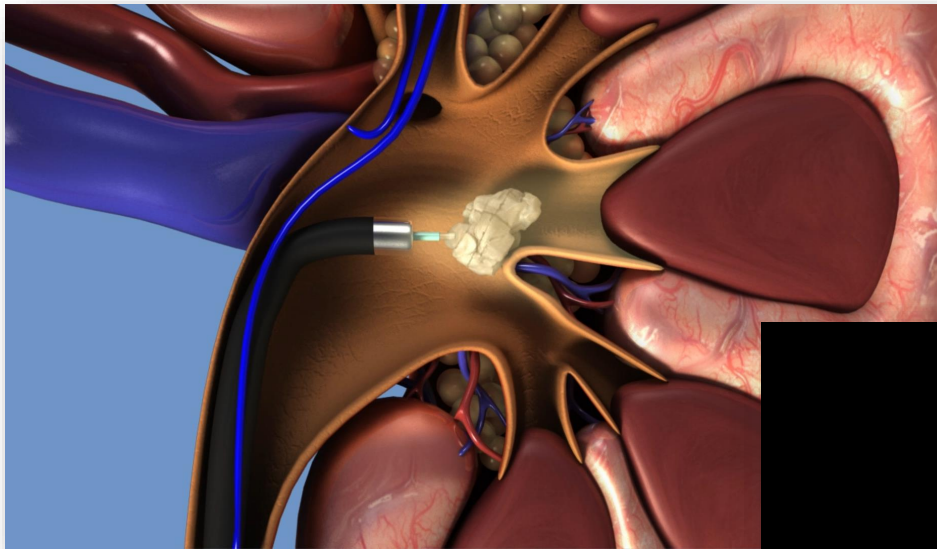
Fig. 2 Temperature curve of different laser power setting

## Point 3: pressure and temperature control



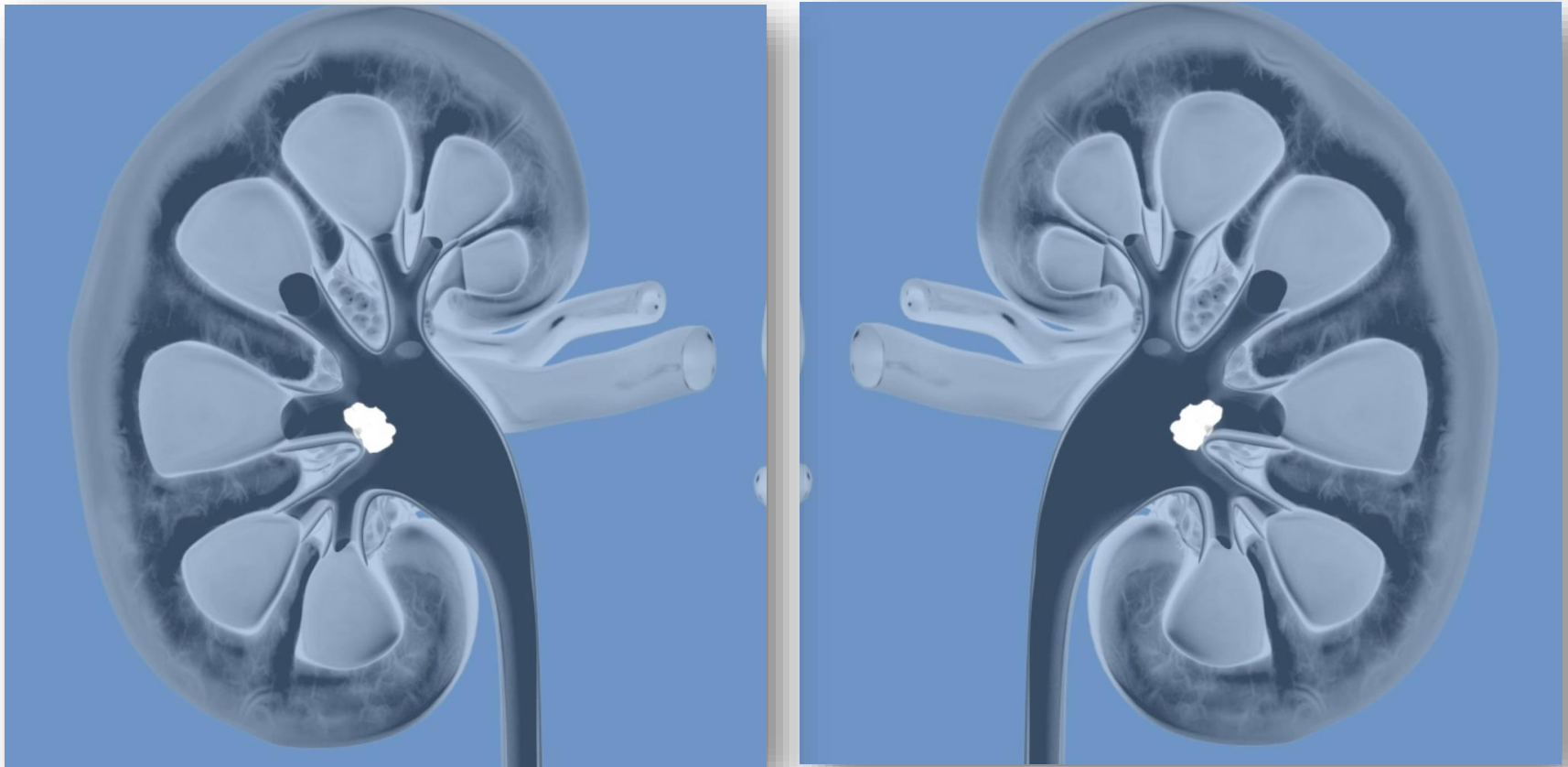
Pressure?  
Temperature?

## Point 3: pressure and temperature control

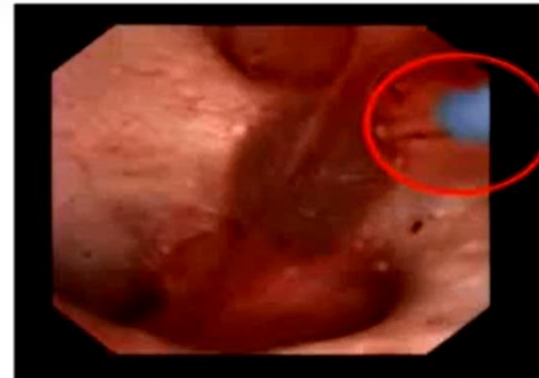
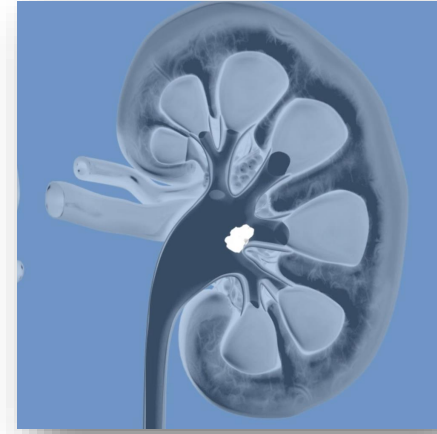
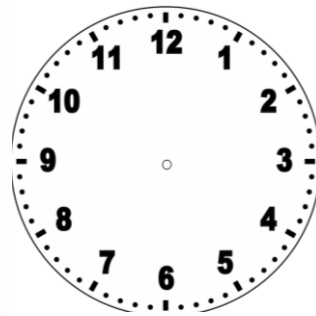
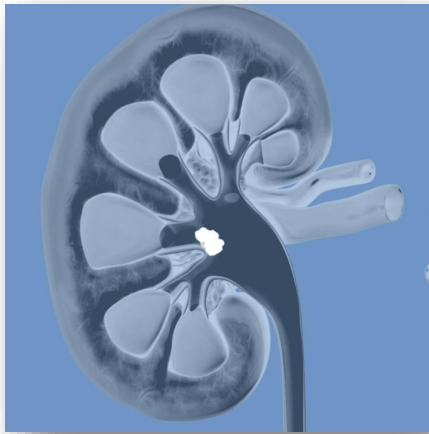


T = xx °C  
P = xx cmH2O

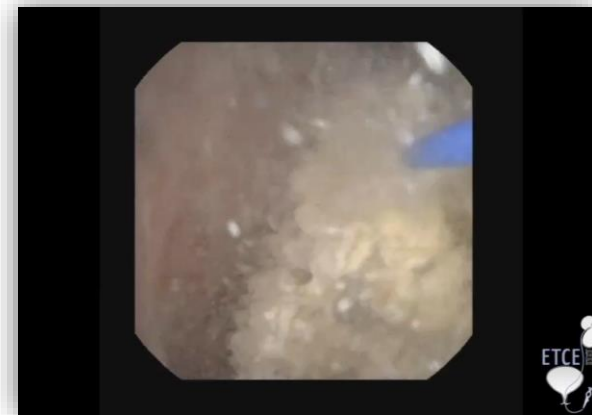
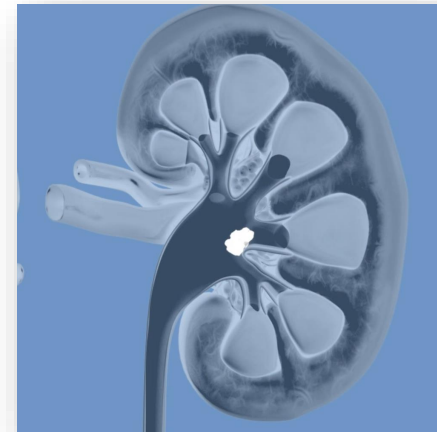
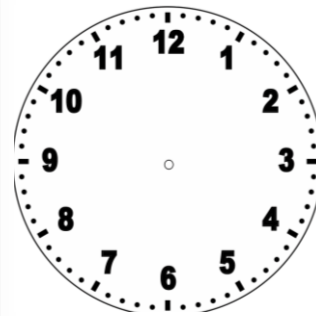
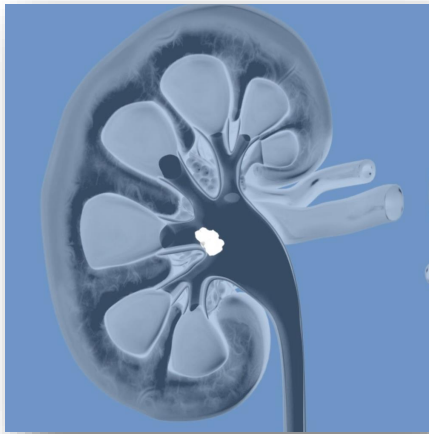
## Point 4: Tailored, single-use ureteroscopes



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# Point 4: Tailored, single-use ureteroscopes



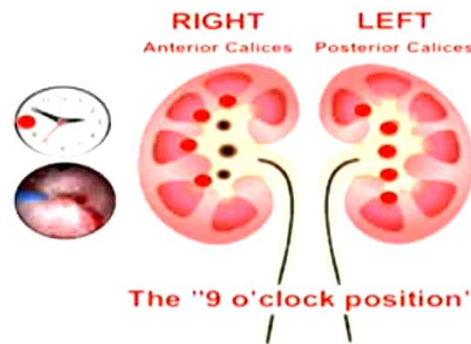
# Point 4: Tailored, single-use ureteroscopes

te : 17th & 18th May



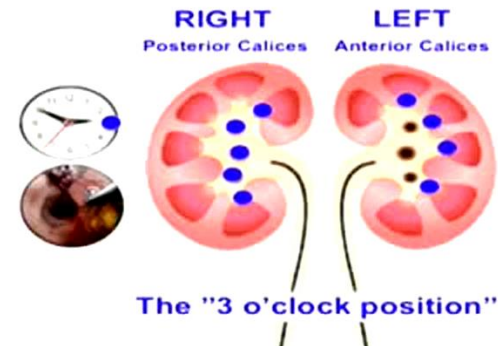
Flexible Urs: Characteristics  
Single Use vs Resuable  
**Dr Olivier Traxer**  
Paris

## ENDOSCOPES



The "9 o'clock position"

Olympus URF P5-6-7  
Olympus URFV1-2-3  
Storz FlexX2S  
Wolf Boa & Cobra Vision



The "3 o'clock position"

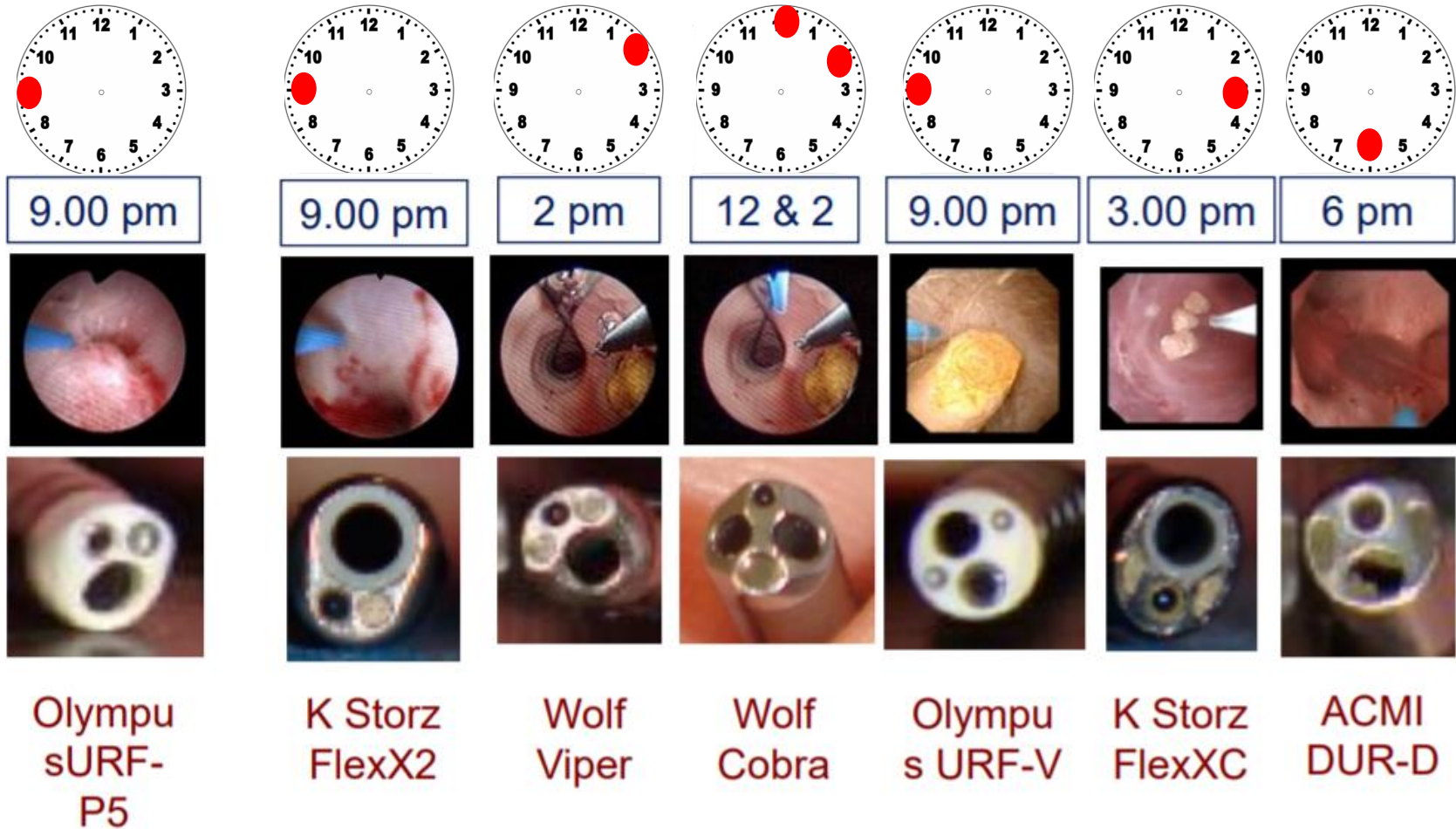
Storz FlexXC  
Wolf Viper & Cobra  
Boston Sc. Lithovue  
Pusen Uscope



Organised by :

PREETI UROLOGY AND KIDNEY HOSPITAL  
Kukatpally - Lingampally

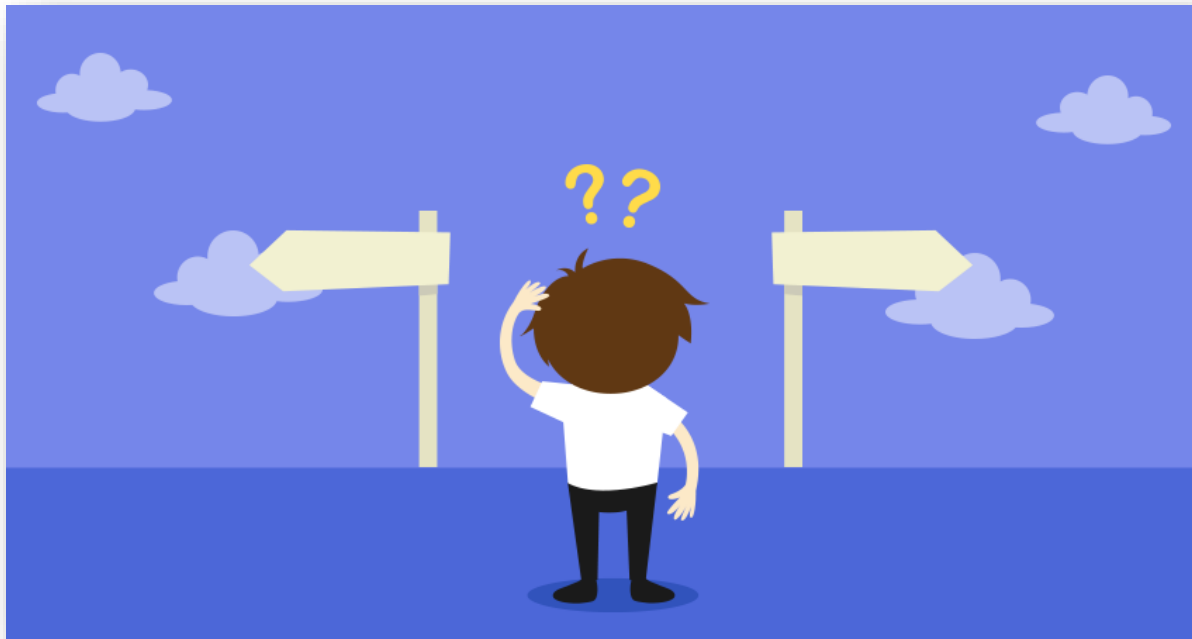
# fURS Working Channel





## Point 4: Tailored, single-use ureteroscopes

why choose one when you can have both?



... and disposable?

## Point 4: Tailored, single-use ureteroscopes

What is the problem?

URS's reimbursements:  
€ 1736 one-night stay  
€ 3290 two-night stay



# Thank you

Medico chirurgo

Specialista in Urologia e Andrologia



Dottoressa Serena Maruccia

# for your attention