

HANDS - ON

INTERNATIONAL WORKSHOP

« Zero Radiation, Office – Based, Renal Entry »

Friday 15 th and Saturday 16 th, November, 2019
Necochea, Prov. de Buenos Aires, ARGENTINA

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Language English / Spanish

Menú:

- 1) Training with ultrasound equipment
- 2) Percutaneous US – guided laboratory training
- 3) Analysis of percutaneous US - guided renal enter procedures

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DE ECOGRAFÍA INTERVENCIONISTA Y CIRUGÍA PERCUTÁNEA



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Robotic Surgery

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PROGRAM

Friday, November 15th, 2019

08 : 00 AM **Needle / Ultrasound interaction physics.**

Are there better needles for ultrasound (US) - guided access ?

Are there better equipments ?

How to face the barriers of transition from X rays to ultrasound.

Is it just about changing machines ?

Am I “too old” for new learnings ?...Am I “too young” ?

08 : 15 **Kidney percutaneous ultrasound – guided access for non-sonographers.**

Lowering the « radiation bill » in renal enter procedures.

Overcoming the false dilemma: « See vs. Be exposed to radiation »

How far urologists are from that challenge ?

Myths and misunderstandings about US – guided renal entry in the urological community.

Learnings after 27 years training urologists in Interventional Ultrasound.

08 : 10 **Strategies to enhance needle visualization.**

08 : 20 AM

Could the needle not be, where the ultrasound screen shows it ?

How to detect and correct it ?

Special situations on the US screen:..." needle is seen in the calyx...but no urine comes out ".

Most frequent troubleshooting situations during US – guided renal entry.

Sonometrics in the US learning curve.

08 : 25

Ergonomic changes during the fluoroscopy to ultrasound transition ?

08 : 30

Ultrasound check-list of all the percutaneous relevant structures in the renal environment. Percutaneous US – guided office based treatment of renal cysts. Long term follow – up. Tips to prevent recurrence.

08 : 35

Preventive ultrasound maneuvers of all the undesired targets : spleen duodenum, gut, lung, aorta and inferior cava vein.

Is there a "colon avoider knob" in the ultrasound equipment keyboard ?

How to deal with its "absence" ?

08 : 50 AM

Planning a safe US - guided renal entry.

The US – guided lower calyx route.

09 : 00

Safe maneuvers in ultrasound - guided enter to the upper calyx

09 : 10

US - guided accessing to the anterior valve calyces. Best positions. The mirror mode access.

09 : 20

Uronephrosys : Most common ultrasound imaging errors.

09 : 30

Depicting the stones in percutaneous US – guided entry. Ultrasound manage of the vanishing lithiasis

US scanning of migrating stones. Stone « mimicking » US images that can jeopardise the procedure. Identifying 1 or 2 mm stone fragments.

09 : 40

US-guided urinary tract renal enter in the *prone* position.

09 : 50


US-guided urinary tract renal enter in the *supine* position.

10 : 00

Coffe-break.

10 : 10

Strategies in mild and moderate dilated urinary tracts entry
The highly accurate US - guided acces to the selected calyx.

- 10 : 20 **Tips in handling the US transducer for needling the kidney.**
- 10 : 30 **Videos of Necochea 's successfull US entries. (the “*shining side*” of our learning curve)**
Videos of Necochea's pitfalls in kidney US renal access (the “*dark side*” of our learning curve)
- 10 : 45 **Our technical changes in US – guided renal access along the time. Why?**
- 11 : 00 **Necochea's Ultrasound - guided renal entry procedures : Period 1988 – 1994.**
US – guided Percutaneous Nephrostomy in Chile. (Dr. Rodrigo Leyton N.)
- 11 : 30 **Necochea's Ultrasound – guided renal entry procedures : Period 1995 - 2005**
- 11 : 55 **Necochea's Ultrasound - guided renal entry procedures : Period 2006 – 2019**
Experience in Trujillo, Perú (Dr. Juan Carlos Astigueta Perez)
- 12 : 00 **Lunch**
- 13 : 00 PM **Hands – On training with the Ultrasound equipment**
- 18 : 00 **End of Friday's activities**
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Saturday, November 16 th, 2019

- 08 : 00 AM **Ultrasound dynamic imaging of the local anaesthesia needle in the operative area.**
- 08 : 30 **Ultrasound dynamic imaging of fluids injection inside the urinary tract**
- 09 : 00 **Ultrasound dynamic imaging of the needle entering the urinary tract**
- 09 : 30 **Ultrasound dynamic imaging of the guide-wire entering the kidney**
- 10 : 00 **Ultrasound dynamic imaging of the plastic fascial dilators during dilatation**
- 10 : 30 **Coffe - break**
- 11 : 00 **Ultrasound dynamic imaging of the metal telescopic Alken fascial dilators during safe renal entry. Ultrasound monitoring of the small bore (9 – 20 Fr) and large bore (22 – 30 Fr)**

- 11 : 30 AM Ultrasound placement of percutaneous renal catheters**
- 11 : 40 Experience with the Necochea's Remote Distance Advising Program.**
Some take home messages about zero – radiation renal enter training models
- 12 : 00 Lunch**
- 13 : 00 Hands – On training in the Percutaneous US – guided laboratory**
- 18 : 00 Evaluation / Diplomas**
- 19 : 00 End of the Workshop**