

Curso UROTRAINER América Latina

Simulación Hands-On a distancia Nefrectomía Parcial Laparoscópica

Fecha: Jueves 7 de Abril de 2022



Modalidad de entrenamiento

Cada participante recibirá un modelo de riñón super-realista, 100% operable que consta de 11 tumores y 2 quistes.

Adicionalmente, podrá recibir un trainer laparoscópico portátil que les permitirá entrenar con su propio instrumental + tablet.

El día del curso los participantes se conectarán por ZOOM y entrenarán tutorizados en vivo por experimentados proctors.

ESTA DINÁMICA INNOVADORA PERMITE ENTRENAR NPL HANDS-ON A DISTANCIA CON MÁXIMO REALISMO





Una propuesta única: **UROTRAINER**

UROTRAINER es la nueva forma de **entrenar nefrectomía parcial laparoscópica y robótica.**

El simulador VK-1 es un modelo de riñón artificial de alto realismo que cuenta con **11 tumores y 2 quistes**, diseñado para que tanto cirujanos expertos como residentes puedan formarse en nefrectomía parcial mínimamente invasiva.

Proctors



Dr. Gonzalo Vitagliano

Especialista Universitario en Urología
Fellow en Laparoscopia Urológica
Jefe de Oncología y Urolaparoscopia
Servicio de Urología Hospital Alemán
Miembro Honorario AUCA



Dr. Alberto Jurado

Jefe de Sección
Oncología Renal y Patología
Retroperitoneal
Hospital Italiano de Buenos Aires
Miembro Honorario New York Section AUA



Dr. Reynaldo Gómez Illanes (Invitado especial)

Presidente SIU 2022
Jefe de Urología - Hospital del Trabajador
Equipo de Cirugía Urológica Robótica y
Reconstructiva en Clínica INDISA
Fellow Trauma y Reconstrucción Urológica - UCSF



Dr. Clovis Fraga Tenório Pereira

Jefe del Programa de Cirugía Robótica
Hospital Português de Beneficência em Pernambuco
Profesor e instructor de Urología - IRCAD
Fellow laparoscopia avanzada y cirugía robótica
Clinique Saint Augustin



Dr. Miguel González Domínguez

Jefe del Servicio de Urología - Hospital General
del Centro Médico Nacional de la Raza
Coordinador Cirugía Robótica - Htal. Español
Titular curso universitario de Urología - UNAM
Secretario Colegio Nacional Mexicano de Urología

Programa académico

Jornada de simulación de 8hs

(Horario de Buenos Aires)

10AM

Introducción - Presentación del curso

Bloque 1

Hands-On: Ejercicios básicos y calentamiento en quiste renal

Teórica 1A: Resección de tumores pequeños. Muestra de casos

Hands-On: Resección de tumor pequeño (VK-1 Tumor N°4)

Debriefing Teórica 1A

Teórica 1B: Resección de tumores grandes. Muestra de casos

Hands-On: Resección de tumor grande (VK-1 Tumor N°6)

Debriefing Teórica 1B

2PM

Almuerzo | Espacio para patrocinadores + Invitado especial

Bloque 2

Teórica 2A: Resección de tumores hiliares

Hands-On: Resección de tumores hilar (VK-1 Tumor N°2)

Debriefing Teórica 2A

Teórica 2B: Resección de tumores endofíticos

Hands-On: Resección de tumor endofítico (VK-1 Tumor N°7)

Debriefing Teórica 2B (última actividad 6PM)



¿Qué necesitará cada participante?

Adicionalmente al kit UROTRAINER, deberá contar con:

PC/Tablet/Celular con cámara para transmitir entrenamiento. (Aplicación Zoom instalada)

PC/Tablet/Celular con cámara para observar el curso. (Aplicación Zoom instalada)

Un Trocar de 10-12 mm (o similar)

Dos Trocares de 5mm (o similar)

Una Tijera

Dos Graspers

Suturas

Para mejorar la experiencia del curso recomendamos además tener:

Una Clipera Hem-O-Lok

Al menos cuatro Blisters de Hem-O-Lok

Sutura Vycril 2-0 en aguja CT-1 o similar

Sutura Vloc 3-0 en aguja V20 o similar

Sutura PDS 4-0 en aguja SH



PD02-02 MULTI INSTITUTIONAL VALIDATION OF A NEW KIDNEY MODEL FOR LAPAROSCOPIC NEPHRON SPARING SURGICAL TRAINING

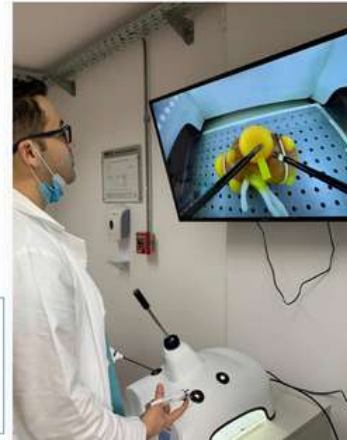
CONCLUSIONS:

We have demonstrated face, reliability, content and construct validation for this novel model. This is a valuable educational tool that may serve to improve surgical skills which are essential for safe and successful laparoscopic partial nephrectomies.



Figure 1. Artificial model based on 10 real CT scans with 11 tumors and 2 tumors.

Variable	Expert	Novice	P-value
Total model (min)	36:11:05.405	47:1:204.803	<0.001**
Total time to identify			
Q1&2 (min)	3:29:40.00	2:55:40.00	<0.001**
Q3&4 (min)	4:29:40.00	3:39:40.00	<0.001**
Q5&6 (min)	3:29:40.00	2:55:40.00	<0.001**
Q7&8 (min)	3:29:40.00	2:55:40.00	<0.001**
Q9&10 (min)	3:29:40.00	2:55:40.00	<0.001**
Q11 (min)	3:29:40.00	2:55:40.00	<0.001**
Q12 (min)	3:29:40.00	2:55:40.00	<0.001**
Q13 (min)	3:29:40.00	2:55:40.00	<0.001**
Q14 (min)	3:29:40.00	2:55:40.00	<0.001**
Q15 (min)	3:29:40.00	2:55:40.00	<0.001**
Q16 (min)	3:29:40.00	2:55:40.00	<0.001**
Q17 (min)	3:29:40.00	2:55:40.00	<0.001**
Q18 (min)	3:29:40.00	2:55:40.00	<0.001**
Q19 (min)	3:29:40.00	2:55:40.00	<0.001**
Q20 (min)	3:29:40.00	2:55:40.00	<0.001**
Q21 (min)	3:29:40.00	2:55:40.00	<0.001**
Q22 (min)	3:29:40.00	2:55:40.00	<0.001**
Q23 (min)	3:29:40.00	2:55:40.00	<0.001**
Q24 (min)	3:29:40.00	2:55:40.00	<0.001**
Q25 (min)	3:29:40.00	2:55:40.00	<0.001**
Q26 (min)	3:29:40.00	2:55:40.00	<0.001**
Q27 (min)	3:29:40.00	2:55:40.00	<0.001**
Q28 (min)	3:29:40.00	2:55:40.00	<0.001**
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Q31 (min)	3:29:40.00	2:55:40.00	<0.001**
Q32 (min)	3:29:40.00	2:55:40.00	<0.001**
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Q34 (min)	3:29:40.00	2:55:40.00	<0.001**
Q35 (min)	3:29:40.00	2:55:40.00	<0.001**
Q36 (min)	3:29:40.00	2:55:40.00	<0.001**
Q37 (min)	3:29:40.00	2:55:40.00	<0.001**
Q38 (min)	3:29:40.00	2:55:40.00	<0.001**
Q39 (min)	3:29:40.00	2:55:40.00	<0.001**
Q40 (min)	3:29:40.00	2:55:40.00	<0.001**
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Q64 (min)	3:29:40.00	2:55:40.00	<0.001**
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Q66 (min)	3:29:40.00	2:55:40.00	<0.001**
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Q69 (min)	3:29:40.00	2:55:40.00	<0.001**
Q70 (min)	3:29:40.00	2:55:40.00	<0.001**
Q71 (min)	3:29:40.00	2:55:40.00	<0.001**
Q72 (min)	3:29:40.00	2:55:40.00	<0.001**
Q73 (min)	3:29:40.00	2:55:40.00	<0.001**
Q74 (min)	3:29:40.00	2:55:40.00	<0.001**
Q75 (min)	3:29:40.00	2:55:40.00	<0.001**
Q76 (min)	3:29:40.00	2:55:40.00	<0.001**
Q77 (min)	3:29:40.00	2:55:40.00	<0.001**
Q78 (min)	3:29:40.00	2:55:40.00	<0.001**
Q79 (min)	3:29:40.00	2:55:40.00	<0.001**
Q80 (min)	3:29:40.00	2:55:40.00	<0.001**
Q81 (min)	3:29:40.00	2:55:40.00	<0.001**
Q82 (min)	3:29:40.00	2:55:40.00	<0.001**
Q83 (min)	3:29:40.00	2:55:40.00	<0.001**
Q84 (min)	3:29:40.00	2:55:40.00	<0.001**
Q85 (min)	3:29:40.00	2:55:40.00	<0.001**
Q86 (min)	3:29:40.00	2:55:40.00	<0.001**
Q87 (min)	3:29:40.00	2:55:40.00	<0.001**
Q88 (min)	3:29:40.00	2:55:40.00	<0.001**
Q89 (min)	3:29:40.00	2:55:40.00	<0.001**
Q90 (min)	3:29:40.00	2:55:40.00	<0.001**
Q91 (min)	3:29:40.00	2:55:40.00	<0.001**
Q92 (min)	3:29:40.00	2:55:40.00	<0.001**
Q93 (min)	3:29:40.00	2:55:40.00	<0.001**
Q94 (min)	3:29:40.00	2:55:40.00	<0.001**
Q95 (min)	3:29:40.00	2:55:40.00	<0.001**
Q96 (min)	3:29:40.00	2:55:40.00	<0.001**
Q97 (min)	3:29:40.00	2:55:40.00	<0.001**
Q98 (min)	3:29:40.00	2:55:40.00	<0.001**
Q99 (min)	3:29:40.00	2:55:40.00	<0.001**
Q100 (min)	3:29:40.00	2:55:40.00	<0.001**



CURRENT UROLOGY REPORTS

doi.org/10.1007/s11934-021-01060-y

CONSTRUCTION OF A 3D SURGICAL MODEL FOR MINIMALLY INVASIVE PARTIAL NEPHRECTOMY: THE UROTRAINER VK-1



Fig 3. Renography that simulates the real-feeling of the tissue

Table 1 Tumor classification according the RENAL score and the tumor size

Renal score	Tumor size
1 4a	15 mm
2 10xb	20 mm
3 7xb	15 mm
4 4a	15 mm
5 7x	35 mm
6 7a	35 mm
7 9x	15 mm
8 4p	15 mm
9 5p	15 mm
10 7p	16 mm
11 4p	15 mm



Fig 4. Vascular pedicles. Dissection and clip

Validación Internacional



American Urology Confederation (CAU) 2020

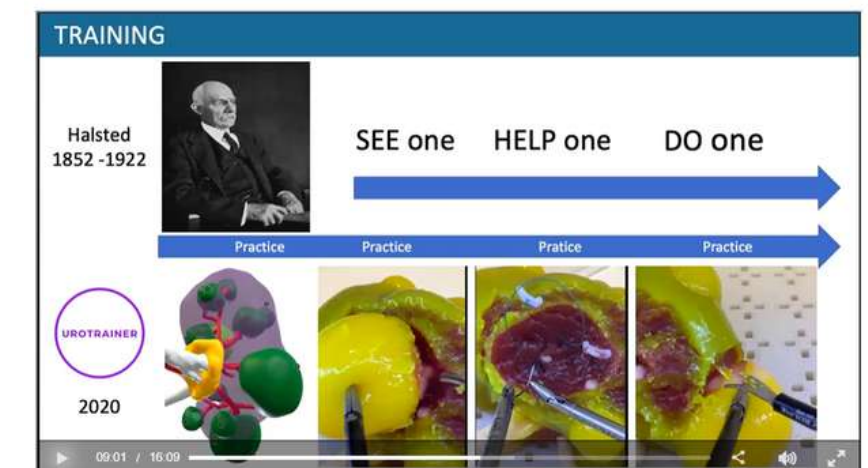
First prize "Roberto Rocha Brito" best video



URO TODAY 2021

Video lecture with Alicia Morgans, MD, MPH

Surgical Simulator for Laparoscopic Partial Nephrectomy for Renal Cell Carcinoma - Gonzalo Vitagliano



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