

UpSurgeOn, Cadaver-free training course

University hospital "St. Iv. Rilski"

Sofia, Bulgaria



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Saturday 9 July 2022 | From 8.00 a.m. to 5.00 p.m.

Sunday 10 July 2022 | From 9.30 a.m. to 4.45 p.m.

Skull base course

 UpSurgeOn



DETAILED PROGRAM

Program Day 1

- 8:00 - 9:00: Registration
- 9:00 - 9:10: Welcome and introduction (Vasil Karakostov)
- 9:10 - 9:25: Pterional anatomy (Vladimir Nakov)
- 9:25 - 9:40: Pterional approaches (Vladimir Nakov)
- 9:40 - 9:55: Aneurysmal (Hristo Hristov)
- 9:55 - 10:10: Aneurysmal (Hristo Hristov)
- 10:10 - 10:30: Coffee break
- 10:30 - 12:30: Discussion group (Case presentation, AR, UpSim) A6,7,8,9,10 B1,2,3,4,5
- 10:30 - 12:30: Hands-on 1.1. (2 rotation) A1,2,3,4,5 B6,7,8,9,10 (V. Nakov, H. Hristov, A. Bussarsky, K. Minkin, A. Hadjianeve)
- 12:30 - 13:30: Lunch
- 13:30 - 13:45: Retrosigmoid anatomy (Krasimir Minkin)
- 13:45 - 14:00: Retrosigmoid approaches (Krasimir Minkin)
- 14:00 - 17:00: Discussion group (Case presentation, AR, Upsim) A1,2,3,4,5 B6,7,8,9,10
- 14:00 - 17:00: Hands-on 1.2. (3 rotation) A6,7,8,9,10 B1,2,3,4,5 (V. Nakov, H. Hristov, A. Bussarsky, K. Minkin, A. Hadjianeve)

Program Day 2

- 9:30 - 9:45: Suboccipital anatomy (Assen Bussarsky)
- 9:45 - 10:00: Suboccipital approaches (Assen Bussarsky)
- 10:00 - 10:15: Transsphenoidal anatomy (Assen Hadjianeve)
- 10:15 - 10:30: Transsphenoidal approaches (Assen Hadjianeve)
- 10:30 - 11:00: Coffee break
- 11:00 - 13:00: Discussion group (Case presentation, AR, UpSim) A1,2,3,4,5 B6,7,8,9,10
- 11:00 - 13:00: Hands-on 2.1. (2 rotation) A6,7,8,9,10 B1,2,3,4,5 (V. Nakov, H. Hristov, A. Bussarsky, K. Minkin, A. Hadjianeve)
- 13:00 - 13:30: Lunch
- 13:30 - 16:30: Discussion group (Case presentation, AR, UpSim) A6,7,8,9,10 B1,2,3,4,5
- 13:30 - 16:30: Hands-on 2.2. (3 rotation) A1,2,3,4,5 B6,7,8,9,10 (V. Nakov, H. Hristov, A. Bussarsky, K. Minkin, A. Hadjianeve)
- 16:30 - 16:45: Course conclusion and critique

Participant	Pterional	Aneurysmal	Suboccipital	Retrosigmoidal	TNS
<i>Hands-on 1.1 10:30-13:30 (120 min)</i>					
A1	1	2			
A2	1	2			
A3		1	2		
A4		1	2		
A5			1	2	
B6			1	2	
B7				1	2
B8				1	2
B9	2				1
B10	2				1
<i>Hands-on 1.2 14:00-17:00 (180 min)</i>					
B1	1	2	3		
B2	1	2	3		
B3		1	2	3	
B4		1	2	3	
B5			1	2	3
A6			1	2	3
A7	3			1	2
A8	3			1	2
A9	2	3			1
A10	2	3			1

<i>Hands-on 2.1 11:00-13:00 (120 min)</i>					
B1				4	5
B2				4	5
B3	5				4
B4	5				4
B5	4	5			
A6	4	5			
A7		4	5		
A8		4	5		
A9			4	5	
A10			4	5	
<i>Hands-on 2.2 13:30-16:30 (180 min)</i>					
A1			3	4	5
A2			3	4	5
A3				3	4
A4				3	4
A5	4	5			3
B6	4	5			3
B7	3	4	5		
B8	3	4	5		
B9		3	4	5	
B10		3	4	5	

UpSurgeOn | Cadaver-free Training System



Mental Training
Apps



Hybrid Training
Augmented reality



Manual Training
Simulators



For **Mental Training**, download the "Neurosurgery" app from Google Play or Apple Store.

In the "Craniotomies" module you will find the approaches:

Aneurysm

Pterional

Retrosigmoid

Suboccipital

TNS

For the Mental part of the AneurysmBox (Box for the treatment of brain aneurysms), use the "Aneurysm" form.

For the Mental part of the TNS approach, use the "TNS" form.

To use augmented reality (**Hybrid Training**) on simulators, you can use the "ARBox" module in case of the following approaches:

Aneurysm

Pterional

Retrosigmoid

Suboccipital

TNS

For AneurysmBox and TNSBox, use dedicated augmented reality modules.

