



**Location:** UMF Carol Davila Bucharest Center of Innovation and eHealth (CleH)

**Date:** 22<sup>nd</sup> to 26<sup>th</sup> of August, 2023; Hybrid

## TRIP

# TRAINING IN TRANSLATIONAL PROTOCOLS FOR MINIMAL INVASIVE DIAGNOSIS AND THERAPY IN PANCREATICO-BILIARY CANCERS

[2022-2025]

HORIZON-WIDERA-2021-ACCESS-03: Twinning

## TRIP SUMMER SCHOOL REPORT

The TRIP summer school was dedicated to early career stage medical doctors working in hepato-bilio-pancreatic (HBP) malignancies. The aim of the event was to provide young clinicians an overview of the latest advances regarding the applications of ultrasound, endoscopy and endoscopic ultrasound (EUS) procedures in the diagnosis and management of these highly lethal malignancies and their complications.

The event was held at the Center of Innovation and eHealth (CleH) of Carol Davila University of Medicine and Pharmacy from Bucharest, Romania, during the the 22<sup>nd</sup> and 26<sup>th</sup> of August, 2023 and comprised two main types of activities – theoretical courses and hands on training.

\* Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or "European Research Executive Agency". Neither the European Union nor the granting authority can be held responsible for them.



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The theoretical courses had a hybrid format with the possibility of on-line (via Zoom) and on-site attendance both for participants and speakers. The main covered topics included:

- Endoscopic Ultrasound (EUS) – indications, tissue acquisition, pancreatic collections drainage, ablation procedures; with applications in the diagnosis and management of acute or chronic pancreatitis, biliary drainage in advanced pancreatico-biliary cancer etc.
- Endoscopic Retrograde Colangiopancreatography (ERCP) – indications, biliary drainage in advanced pancreatico-biliary cancer etc.;
- Mistakes in advanced endoscopy – hemostasis, ampullectomy, EUS, ERCP, sedation
- Ultrasound – elastography and contrast enhanced ultrasound (CEUS) for HBP disorders
- Palliative procedures for gastrointestinal tract malignancies – endoscopic procedures (stenting, anastomoses) versus surgical interventions
- Tips and tricks to boost research activity – how to write a scientific article, how to write a research grant, the publish or perish in academia, artificial intelligence in scientific writing

Each presentation was followed by a discussion session to allow participants to ask questions and debate further on the presented topics. The presentations were video recorded for subsequent availability.

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The hands-on training followed each day the theoretical courses and was related to the discussed topics. Each participant had the chance to practice under the guidance of highly experienced trainers (endoscopists and endoscopy assistants) a series of advanced endoscopic procedures on animal and silicon models and received personalized feedback to improve their technique as follows:

- EUS – tissue acquisition;
- ERCP – cannulation, stone removal, stenting;
- Hemostasis techniques including use of over the scope clips;
- Ultrasound – ultrasound guided biopsy, radiofrequency ablation, elastography, contrast enhancement, fusion

Overall, the event had a high addressability with 38 resident doctors attending on-site every day, of which 34 could benefit from hands on training. Moreover, 119 participants attended the theoretical courses online, via zoom. The team of speakers and trainers comprised other 33 local and international experts, members of the TRIP project but also external speakers having diverse expertise - gastroenterology, surgery, oncology, radiology. All centers involved in the TRIP project brought their contribution to the organization of the event which was hosted by the team from Carol Davila University of Medicine and Pharmacy from Bucharest.

Eighty five percent of participants offered feedback on the event through a standardized form – evaluating impact on the gained knowledge and abilities, impact on current practice, quality of the lectures and presented content, venue – which were rated mainly as very good.

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The event was credited with 24 continuous medical education points according to the 6013/24.07.2023 decision.

In conclusion, the TRIP summer school was an intensive educational event dedicated to young medical doctors with special interests in hepato-bilio-pancreatic malignancies where participants could improve their theoretical knowledge and practical skills for the diagnosis and management of these malignancies but provided also the opportunity for networking with peers and experts working in the field.

Annexes:

1. Educational Programme of the TRIP Summer School
2. Schedule of the hands-on stations
3. List of participants (national + international)
4. Images from the summer school
5. Recorded presentations of the summer school

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## TRIP SUMMER SCHOOL REPORT

### Educational program

#### Tuesday 22nd August

##### 1400-1430 Welcome of participants

1430-1500 How to write a scientific article? – Ștefania Bunduc (ICF)

1500-1530 How to write a research grant? – Adrian Săftoiu (SUEE)

1530-1600 Academic success and Publish or Perish – Irina Cazacu (ICF)

##### 1600-1630 Coffee Break

1630-1730 Artificial intelligence in academic writing

- PRO-AI (Vlad Croitoru) versus NO-AI (TBD) (Cristian Țieranu)

##### 1730-1800 Official opening ceremony

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**Wednesday 23<sup>th</sup> AUG**

## **ADVANCED IMAGING IN HEPATO-PANCREATICO-BILIARY DISEASES**

### **0830-0900 Welcome of participants**

### **0900-1030 - Pancreas and biliary diseases**

0900-0930 - Who should do EUS / ERCP – Paul Fockens (AUMC)

0930-1000 - Ten Mistakes in EUS – Rogier Voermans (AUMC)

1000-1030 - Ten Mistakes in ERCP – Radu Pârvulețu, Mugur Ardelean (SUEE)

### **1030-1100 Coffee Break**

### **1100-1330 Hands-on training**

**EUS track**     Station 1 > Endo simulator #1 (Upper + Lower + EUS + ERCP)

Station 3 > EUS-FNA #1 (silicon model)

Station 4 > Endo #1 (hemostasis + ampulectomy – pig stomach model)

Station 5 > Endo #1 (hemostasis + ampulectomy – silicon model)

**ERCP track**  Station 2 > Endo simulator #2 (Upper + Lower + EUS + ERCP)

Station 6 > ERCP #1 (cannulation / stones / stenting – silicon model)

Station 7 > Endo #1 (hemostasis OTSC – pig model)

Station 8 > Endo #1 (hemostasis – silicon model)

### **1330-1430 Lunch Break**

### **1430-1600 Interventional EUS**

1430-1500 EUS-FNA/FNB: How I do it? – Vasile Balaban, Mariana Jinga (SMC-UMFCD)

1500-1530 EUS-guided drainage of pancreatic fluid collections – Bojan Kovacevic (background) + Peter Vilmann (how to) (RHHH)

1530-1600 EUS-guided ablation procedures – Stephen Pereira (UCL)

### **1600-1630 Coffee Break**

### **1630-1730 Discussions with experts in small groups**

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## Thursday 24<sup>st</sup> AUGUST – DO's AND DON'ts IN INTERVENTIONAL ENDOSCOPY

### 0900-1030 Mistakes in advanced endoscopy

0900-0930 Ten mistakes in hemostasis – Vlad Iovănescu (UMFCD)

0930-1000 Ten mistakes in ampulectomy – Cristian Gheorghe (ICF - UMFCD)

1000-1030 Ten DO's and DON'ts in non-anesthesiologists propofol sedation – Peter Vilmann (RHHH)

### 1030-1100 Coffee Break

### 1100-1330 Hands-on training

**EUS track**     Station 1 > Endo simulator #1 (Upper + Lower + EUS + ERCP)

Station 3 > EUS-FNA #1 (silicon model)

Station 4 > Endo #1 (hemostasis + ampulectomy – pig stomach model)

Station 5 > Endo #1 (hemostasis + ampulectomy – silicon model)

**ERCP track**  Station 2 > Endo simulator #2 (Upper + Lower + EUS + ERCP)

Station 6 > ERCP #1 (cannulation / stones / stenting – silicon model)

Station 7 > Endo #1 (hemostasis OTSC – pig model)

Station 8 > Endo #1 (hemostasis – silicon model)

### 1330-1430 Lunch Break

### 1430-1600 Hands-on training

**US track**     Station 9 > Ultrasound (US) simulator #1

Station 10 > Interventional US (US-guided biopsy / RFA – pig liver model)

Station 11 > Diagnostic US (elastography / contrast / fusion – live model)

### 1600-1630 Coffee Break

### 1630-1730 Hands-on training

**US track**     Station 9 > Ultrasound (US) simulator #1

Station 10 > Interventional US (US-guided biopsy / RFA – pig liver model)

Station 11 > Diagnostic US (elastography / contrast / fusion – live model)

## Friday 25th – ULTRASOUND FOR THE MASSES

### 0900-1030 Role of ultrasound in HBP disorders

0900-0945 Tandem talk – General Ultrasound YAY / NAY

- PRO Ultrasound (incl. elasto and CEUS) in liver disorders - Mirela Ionescu (SUEE)
- PRO EUS in endohepatology - Andrada Seicean (UMFCN)

0945-1030 Tandem talk – Pancreas Ultrasound

- PRO Ultrasound incl. CEUS for acute / chronic pancreatitis – Cristi Țieranu (SUUE)
- PRO EUS for evaluation & therapy of acute / chronic pancreatitis – Raluca Costache

### 1030-1100 Coffee Break

### 1100-1330 Hands-on training

- EUS track**
- ☑ Station 1 > Endo simulator #1 (Upper + Lower + EUS + ERCP)
  - ☑ Station 3 > EUS-FNA #1 (silicon model)
  - ☑ Station 4 > Endo #1 (hemostasis + ampulectomy – pig stomach model)
  - ☑ Station 5 > Endo #1 (hemostasis + ampulectomy – silicon model)
- ERCP track**
- ☑ Station 2 > Endo simulator #2 (Upper + Lower + EUS + ERCP)
  - ☑ Station 6 > ERCP #1 (cannulation / stones / stenting – silicon model)
  - ☑ Station 7 > Endo #1 (hemostasis OTSC – pig model)
  - ☑ Station 8 > Endo #1 (hemostasis – silicon model)

### 1330-1430 Lunch Break

### 1430-1600 Hands-on training

- US track**
- ☑ Station 9 > Ultrasound (US) simulator #1
  - ☑ Station 10 > Interventional US (US-guided biopsy / RFA – pig liver model)
  - ☑ Station 11 > Diagnostic US (elastography / contrast / fusion – live model)

### 1600-1630 Coffee Break

### 1630-1730 Hands-on training

- US track**
- ☑ Station 9 > Ultrasound (US) simulator #1
  - ☑ Station 10 > Interventional US (US-guided biopsy / RFA – pig liver model)
  - ☑ Station 11 > Diagnostic US (elastography / contrast / fusion – live model)



## **Saturday 26th – SYNERGIES BETWEEN ENDOSCOPY AND SURGERY**

### **0900-1030 Gastro-surgical debates in HBP disorders**

0900-0945 Bile duct drainage:

PRO-EUS/ERCP – Daniela Tabacelia

PRO-Surgery – Radu Pirvulețu

0945-1030 Palliation of the GI tract:

PRO GASTRO Enteral stents vs EUS GJA - Roy van Wanrooij (AUMC)

PRO-SURGERY LAP-GJA – Oana Stanciulea, Simona Dima (ICF-UMFCD)

### **1030-1100 Coffee Break**

### **1100-1330 Hands on training**

#### **US track**

- Station 9 > Ultrasound (US) simulator #1
- Station 10 > Interventional US (US-guided biopsy / RFA – pig liver model)
- Station 11 > Diagnostic US (elastography / contrast / fusion – live model)

### **1330 Wrap-up and Conclusions**

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## TRIP SUMMER SCHOOL REPORT

### List of participants

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**Date:** 22<sup>nd</sup> to 26<sup>th</sup> of August, 2023; Hybrid

| <b>NAME</b>                   | <b>SPECIALTY/COMPANY</b>               |
|-------------------------------|--|
| PROF. DR. MARIANA JINGA       | INTERNAL MEDICINE AND GASTROENTEROLOGY |
| PROF. DR. CRISTIAN GHEORGHE   | INTERNAL MEDICINE AND GASTROENTEROLOGY |
| PROF. DR. ADRIAN SAFTOIU      | GASTROENTEROLOGY                       |
| DR. MARINA BALABAN            | GASTROENTEROLOGY                       |
| DR. IRINA MIHAELA CAZACU      | ONCOLOGIE                              |
| DR. VLAD MIHAI CROITORU       | ONCOLOGIE                              |
| DR. STEFANIA BUNDUC           | GASTROENTEROLOGY                       |
| C.S.I DR. SIMONA OLIMPIA DIMA | SURGERY                                |
| SICA GABRIEL                  | INTERNAL MEDICINE AND GASTROENTEROLOGY |
| DR. MUGUR CRISTIAN ARDELEAN   | SURGERY                                |
| DR. ELENA MIRELA IONESCU      | GASTROENTEROLOGY                       |
| DR. ANDRADA SEICEAN           | GASTROENTEROLOGY                       |
| DR. OANA STANCIULEA           | SURGERY                                |
| DR. IONUT SAIZU               | GASTROENTEROLOGY                       |
| DR. ROXANA SAIZU              | GASTROENTEROLOGY                       |
| DR. VASILE DANIEL BALABAN     | GASTROENTEROLOGY                       |
| DR. RALUCA SIMONA COSTACHE    | INTERNAL MEDICINE AND GASTROENTEROLOGY |
| DR. RADU PARVULETU            | SURGERY                                |
| DR. DANIELA TABACELIA         | GASTROENTEROLOGY                       |
| DR. CRISTIAN GEORGE TIERANU   | GASTROENTEROLOGY                       |
| DR. VLAD IOVANESCU            | GASTROENTEROLOGY                       |
| DR. CODRUTA ELENA GHEORGHE    | MEDICINA DE FAMILIE                    |
| DR. IOAN CRISTIAN NEDELCU     | GASTROENTEROLOGY                       |

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| NAME                              | SPECIALTY/COMPANY                      |
|-----------------------------------|--|
| DR. ADELINA MUSA                  | GASTROENTEROLOGY                       |
| DR. MIHAI MUSA                    | GASTROENTEROLOGY                       |
| DR. SORIN COMAN                   | GASTROENTEROLOGY                       |
| DR. ANDREI OVIDIU OLTEANU         | GASTROENTEROLOGY                       |
| DR. NICOLETA PODINA               | GASTROENTEROLOGY                       |
| BRÎNZAN IOANA                     | GASTROENTEROLOGY                       |
| CABA ALEXANDRA                    | GASTROENTEROLOGY                       |
| MUNTEANU MIHAELA-DENISA           | GASTROENTEROLOGY                       |
| TELESCU SORINA                    | GASTROENTEROLOGY                       |
| DAVIDOIU ANA-MARIA                | GASTROENTEROLOGY                       |
| BOCIOAGĂ ALEXANDRA GEORGIANA      | GASTROENTEROLOGY                       |
| GODEANU ROBERT CRISTIAN           | GASTROENTEROLOGY                       |
| STANCIU ADELA                     | GASTROENTEROLOGY                       |
| ROTARU MADALINA                   | GASTROENTEROLOGY                       |
| DOICA IRINA-PAULA                 | GASTROENTEROLOGY                       |
| CONSTANTIN NICOLETA-EUGENIA       | GASTROENTEROLOGY                       |
| DAVID RAZVAN ANDREI               | GASTROENTEROLOGY                       |
| PANAIT MONICA-ELENA               | GASTROENTEROLOGY                       |
| MARIN FLAVIUS-STEFAN              | GASTROENTEROLOGY                       |
| DRĂGAN LIVIA-ȘTEFANA (DUMITRACHE) | GASTROENTEROLOGY                       |
| CIOCARLAN RUXANDRA                | GASTROENTEROLOGY                       |
| ENCIU VLAD-TEODOR                 | GASTROENTEROLOGY                       |
| GHEORGHE BOGDAN-EUGEN             | GASTROENTEROLOGY                       |
| RADU ANDREI CHRISTIAN             | GASTROENTEROLOGY                       |
| AYATOLLAHI SIMIN                  | GASTROENTEROLOGY                       |
| BADEA LARISA EMANUELA             | GASTROENTEROLOGY                       |
| MARIN MARIA                       | INTERNAL MEDICINE AND GASTROENTEROLOGY |

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|---------------------------------|--|
| IRINA FLORINA CHERCIU HARBIYELI | INTERNAL MEDICINE AND GASTROENTEROLOGY |
| TEODORESCU ANA-MARIA            | GASTROENTEROLOGY                       |
| DINU MARIA                      | GASTROENTEROLOGY                       |
| TIERANU IOANA                   | PEDIATRY                               |
| ANCHIDIN GEORGIANA              | GASTROENTEROLOGY                       |
| NUTU FLAVIA GISELLE             | GASTROENTEROLOGY                       |
| NIȚĂ (CULEA) ELENA-VIORICA      | GASTROENTEROLOGY                       |
| POPESCU IOANA LUCIANA           | GASTROENTEROLOGY                       |
| BUCURICA SANDICA NICOLETA       | GASTROENTEROLOGY                       |
| BORCOSI CATALIN-NICOLAE         | GASTROENTEROLOGY                       |
| RADU ANDREI EMILIAN             | GASTROENTEROLOGY                       |
| PATONI CRISTINA                 | GASTROENTEROLOGY                       |
| CRISTIAN-VALENTIN TOMA          | UROLOGY                                |
| PODARITA-PETCUSIN ALINA-MARIANA | UROLOGY                                |
| DUMITRACHE MIHAI                | UROLOGY                                |
| BUDAU MARINA SORINA             | NUCLEAR MEDICINE                       |
| DUMITRACHE PANAIOTA             | ENT                                    |
| DR. SĂFTOIU ELENA               | DENTISTRY AND ORTODONTICS              |

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| NAME                               | SPECIALITATY/COMPANY |
|------------------------------------|----------------------|
| ȘARLEA MARCELA- IULIANA            | GASTROENTEROLOGY     |
| BOTA ANDREEA                       | GASTROENTEROLOGY     |
| BOLBOASA MIHAELA                   | GASTROENTEROLOGY     |
| ISTRĂTESCU DOINA (PROCA)           | GASTROENTEROLOGY     |
| OLOGEANU PRISCILA MĂDĂLINA         | GASTROENTEROLOGY     |
| BINDA JOSEFINA SANDRA DA CONCEICAO | GASTROENTEROLOGY     |
| DR. STEPHEN PEREIRA                | GASTROENTEROLOGY     |
| DR. ROY VAN WANROOIJ               | GASTROENTEROLOGY     |
| DR. ROGIER VOERMANS                | GASTROENTEROLOGY     |
| PROF. DR. PETER VILMANN            | SURGERY              |
| DR. BOJAN KOVACEVIC                | SURGERY              |
| PAUL FOCKENS                       | GASTROENTEROLOGY     |
| DANIELA ELENA BURTEA               |                      |
| GEORGIANA CHESNOIU                 |                      |
| COSTIN MANGARU                     |                      |
| BOGDAN TOMA                        |                      |
| ALEXANDRU VADINEANU                |                      |
| MARINELA PIRVU                     |                      |
| ANDREI MIHAI SAFTOIU               |                      |
| ALEXANDRA MARIA RADUT              |                      |
| POPA STEFAN                        |                      |
| ALEXADRU BOJICA                    |                      |
| BOGDAN BOBOC                       |                      |
| COSMIN POPESCU                     | MEDIQ                |
| STEFANIA RUSOIU                    | LOGARITM             |
| REBECA PUIU                        | BOSTON SCIENTIFIC    |
| LUCIAN RADU                        | BOSTON SCIENTIFIC    |
| DRAGOS ALDEA                       | TEMCO                |

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| NAME                  | SPECIALITATY/COMPANY |
|-----------------------|----------------------|
| COSMIN DUMITRU        | TEMCO                |
| BOGDAN MANEA          | TEMCO                |
| ANA DOICESCU          | ERBE                 |
| DANIEL CONSTANTINESCU | DACO MEDICAL         |
| CRISTINA NEAGU        | DACO MEDICAL         |
| LUCIANA TUDOR         | DACO MEDICAL         |
| MARINA CHIRIAC        | DACO MEDICAL         |
| GHEORGHE BOGDAN       | MEDIQ                |
| SPAC MIHAI            | MEDIQ                |
| DR. MARTON FOGARASI   |                      |
| PALAGA MIHAI          |                      |

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TRIP SUMMER SCHOOL REPORT

Schedule of the hands-on stations

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| Name        | Station 1                    | Station 2                    | Station 3   | Station 4  | Statia 5   | Station 6   | Station 7                              | Station 8   |
|-------------|------------------------------|------------------------------|---|--|--|---|--|---|
| Location    | Ground floor room 1          | Ground floor room 1          | 3rd floor room 2                                    | 4 <sup>th</sup> floor room 1                       | 3rd floor room 2                                       | 4 <sup>th</sup> floor room 1  | 4 <sup>th</sup> floor room 1           | 3 <sup>rd</sup> floor room 2                        |
| Type        | Simulator endo 1             | Simulator endo 2             | EUS station 1                                       | Upper station 1                                    | Upper station 2  | ERCP station 2  | Upper station 3                        | Upper station 4                                     |
| Equipment   | Upper<br>Lower<br>EUS / ERCP | Upper<br>Lower<br>ERCP / EUS | EUS linear<br>Olympus                               | Gastro-scope<br>Olympus<br>ERBE                    | Gastro-scope<br>Olympus<br>ERBE                        | Duodeno-scope<br>Olympus<br>Colangio – Spy<br>BS                            | Gastro-scope<br>Olympus<br>ERBE        | Gastro-scope<br>Olympus<br>ERBE                     |
| Phantom     | -                            | -                            | EUS-FNA silicon phantom (Temco)                     | Hemostasis + ampulectomy (pig stomach - Daco)      | Hemostasis + polypectomy (silicon phantom – Dr. Henke) | ERCP silicon phantom (Temco)  | Hemostasis + Ampulectomy (pig stomach) | Hemostasis + polypectomy (silicon phantom – UMFC D) |
| Extra       |                              |                              | Optional LAMS phantom                               | Optional EMR / ESD                                 |  |   | Optional EMR / ESD                     |   |
| Consumables | -                            | -                            | 12 EUS-FNA needles (O+BS)<br>2 LAMS (HotAxios - BS) | 12 polypectomy snares<br>6 needles<br>48 hemoclips | 12 polypectomy snares<br>6 needles                     | 3 ERCP kits (sphincterotome + guide-wire + basket) (Temco) Exalt + Spyglass | 8 OTSC clips                           | 12 polypectomy snares<br>6 needles                  |
| Providers   | TEMCO                        | TEMCO                        | TEMCO<br>BS   | TEMCO<br>DACO<br>ERBE                              | TEMCO<br>DACO<br>ERBE                                  | TEMCO<br>BS   | TEMCO<br>DACO<br>ERBE                  | TEMCO<br>DACO<br>ERBE                               |

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|                         |  |   |   |   |   |   |  |  |
|-------------------------|--|---|---|---|---|---|--|--|
| Wednesday<br>MD / Nurse | 1-5<br>Daniela<br>Tabacelia /<br>Marinela Pirvu        | 16-20<br>Vlad Iovanescu                     | 6-10<br>Cristi Tieranu/<br>Daniela Burtea   | 11-15<br>Vasi Balaban/<br>Costin Mangaru                            | -   | 21-25<br>Radu Pirvuletu /<br>Alexandru<br>Vadineanu | 26-30<br>Cristi Nedelcu+<br>Ionut Saizu /<br>Georgiana<br>Chesnoiu   | -  |
| Thursday<br>MD / Nurse  | 6-10<br>Vasi Balaban                                   | 21-25<br>Cristi Nedelcu /<br>Costin Mangaru | 11-15<br>Cristi Tieranu /<br>Daniela Burtea | 1-5<br>Raluca Costache/<br>Marinela Pirvu                           | Raluca Costache<br>Mihai Musa<br>Students                   | 26-30<br>Vlad Iovanescu<br>Georgiana<br>Chesnoiu    | 16-20<br>Radu Pirvuletu +<br>Ionut Saizu /<br>Alexandru<br>Vadineanu | Radu Pirvuletu /<br>Ionut Saizu<br>Sorin Coman<br>Students |
| Friday<br>MD / Nurse    | 11-15<br>Raluca<br>Costache /<br>Georgiana<br>Chesnoiu | 26-30<br>Radu Pirvuletu /<br>Marinela Pirvu | 1-5<br>Vasi Balaban /<br>Bogdan Toma        | 6-10<br>Cristi Tieranu +<br>Ionut Saizu /<br>Alexandru<br>Vadineanu | Cristi<br>Tieranu/Ionut<br>Saizu<br>Students<br>Sorin Coman | 16-20<br>Cristi Nedelcu /<br>Daniela Burtea         | 21-25<br>Vlad Iovanescu /<br>Costin Mangaru                          | Vlad Iovanescu<br>Mihai Musa<br>Students                   |

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**Location:** UMF Carol Davila Bucharest **Center of Innovation and eHealth (CIeH)**



**Date:** 22<sup>nd</sup> to 26<sup>th</sup> of August, 2023; Hybrid

| Name                          | Station 9           | Station 10                   | Station 11                               |                       |
|-------------------------------|---------------------|------------------------------|--|-----------------------|
| Location                      | Ground floor room 1 | 3 <sup>rd</sup> floor room 3 | 3 <sup>rd</sup> floor room 3             | 5 <sup>th</sup> floor |
| Type                          | Simulator US        | US station 2                 | US station 1                             | Catering              |
| Equipment                     | Ultra-sound         | Ultra-sound combi-elasto     | Ultra-sound biopsy                       | -                     |
| Phantom                       | -                   | Students / residents models  | Liver freehand biopsy (pig liver)        | -                     |
| Extra                         |                     | Optional fusion              | Optional RFA / MWA                       | -                     |
| Consumables                   | -                   | -                            | 12 Liver biopsy needles<br>4 RFA needles |                       |
| Providers                     | TEMCO               | MEDIQ elasto / fusion        | MEDIQ RFA                                |                       |
| Thursday afternoon MD / Nurse | 1-10 Adelina Musa   | 11-20 Sorin Coman            | 21-30 Daniela Tabacelia                  |                       |
| Friday afternoon MD / Nurse   | 11-20 Simona Badiu  | 21-30 Codruta Gheorghe       | 1-10 Daniela Tabacelia                   |                       |

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|                                |                      |                          |                       |  |
|--------------------------------|----------------------|--------------------------|-----------------------|--|
| Saturday morning<br>MD / Nurse | 21-30<br>Sorin Coman | 1-10<br>Codruta Gheorghe | 11-20<br>Roxana Saizu |  |
|                                |                      |                          |                       |  |
| Obs.                           |                      |                          |                       |  |

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