HOSPITAL DA LUZ
LISBOA

3D ECHO — Simulators Based Training

Mitral valve and Tricuspid valve course | 2nd Edition

From anatomy to intervention
Organized by Heart Valvular Diseases Center

October 18 and 19, 2024
Hospital da Luz Learning Health - Training and Simulation Center
Hospital da Luz Lisboa auditorium

Programme

October 18th | Day 1

PRESENTATION
Hospital da Luz Lisboa auditorium

08h00 Check in

08h30 **Welcome session**
Rui Maio | Pedro Adragão | Regina Ribeiras

08h45 **Tricuspid Regurgitation (TR - Clinical perspective – according to the ESC/EACVI guidelines only symptomatic severe TR should be treated. Did the evidence change? How does the new proposed classification impact echo screening for edge-to-edge repair?**
Victoria Delgado

09h00 **Tricuspid Valve: novel tricuspid leaflet nomenclature, novel proposed TR quantification methods, and classification**
Regina Ribeiras

09h15 **Focus on functional TR: atrial (A-STR) or ventricular (V-STR) Functional TR – are these two phenotypes too distinctive to impact treatment strategies?**
Nina Marsan

09h30 **Echo imaging for TR and pace wires: Which anatomic and functional echo clues are used to decide on an intervention strategy? Which are the alternatives?**
Manuel Barreiro

09h45 **Right heart, pulmonary hypertension, and RV-Pulmonary coupling. Should we always perform invasive evaluation? Align with guidelines.**
Marisa Trabulo

10h00 Coffee break

Hospital da Luz Learning Health
- Training and Simulation Center

10h30 **Screening Echo for TV TEER – focus on TTE: minimum and mandatory dataset**
Ana Galrinho

10h45 **Screening Echo for TV TEER – focus on TEE: minimum and mandatory dataset**
Ana Botelho | Pedro Freitas

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October 18th | Day 1

11h00 **HANDS-ON AND SIMULATORS HANDS-ON**
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- Training and Simulation Center

SESSION 1

Right heart catheterization simulator

TTE and 3D dataset acquisition and postprocessing (GE)

TTE and 3D dataset acquisition and postprocessing (Phillips)

Cases 3D dataset post-processing: MPR for anatomy recognition TEER guidance (Echopac and IntelSpace)

TEE simulator acquisition normal and pathology (Eve)

TEE simulator acquisition of 3D imaging and MPR (Mentice)

Intervention-TEE simulator – beating heart simulator (Edwards Pascal)

TV and MV Anatomy on pigs hearts and 3D modeling

13h00 Lunch

14h00 **Tricuspid Valve regurgitation: show us your most tricky 3 cases on screening and guiding TEER and how you solved them**
Manuel Barreiro

14h20 **Beating Heart Minimally invasive TV surgery: the phoenix of surgery for isolated tricuspid regurgitation. Does the minimally invasive approach make a difference?**
Marcio Madeira

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October 18th | Day 1

14h30 **HANDS-ON AND SIMULATORS HANDS-ON**
Hospital da Luz Learning Health
- Training and Simulation Center

SESSION 2

Right heart catheterization simulator

Healthy human 3D dataset acquisition and postprocessing (GE)

Healthy human 3D dataset acquisition and postprocessing (Phillips)

Cases 3D dataset post-processing: MPR for anatomy recognition TEER guidance (Echopac and IntelSpace)

TEE simulator acquisition normal and pathology (Eve)

TEE simulator acquisition of 3D imaging and MPR (Mentice)

Intervention-TEE simulator – beating heart simulator (Edwards Pascal)

Anatomy on pigs hearts and 3D imaging

17h30 End of 1st day

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October 19th | Day 2

PRESENTATION
Hospital da Luz Lisboa auditorium

08h30 **Is it never too late for Secondary Mitral Regurgitation Transcatheter Edge to Edge Repair (TEER)- lessons from the COAPT Trial to follow?**
Victoria Delgado

08h45 **Screening Functional MR for intervention: how important is separating atrial from ventricular etiology? Which adjunctive information can MRi add?**
João Abecasis

09h00 **Screening primary MR for TEER and surgical repair - why differentiate Barlow from fibroelastosis on Echo screening?**
Regina Ribeiras

09h15 **Focus on transeptal access – screening for difficult anatomies. Intraprocedural guiding: can it be done strictly by 3D-echo? How to use fusion TOE/FLuoro technology**
Pedro Freitas

09h30 **Mitral Valve regurgitation: show us your difficult 3 cases on screening and guiding MV-TEER and how you solved them**
Manuel Barreiro

09h45 Coffee break

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10h15 **What does the interventionalist need to know from the screening and guiding Echo for MV-TEER?**
Pedro Gonçalves | Afonso Oliveira

A proposal for standardization for the screening echo report for primary and secondary MV Regurgitation (pMR and sMR) percutaneous intervention – MV TEER
Sara Guerreiro

What does the surgeon need to know from the screening Echo for MV-surgical repair?
Miguel Abecasis

A proposal for standardization for the screening TTE and TOE echo report for MV surgical repair for primary MR
Regina Ribeiras

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October 19ᵗʰ | Day 2

11h00 **HANDS-ON AND SIMULATORS HANDS-ON**
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SESSION 1

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13h15 Lunch

PRESENTATION
Hospital da Luz Lisboa auditorium

14h30 **Focus on TMVR: which patients do not have anatomy to be treated by MV-TEER? TOE and AngioCT screening are mandatory? Can TOE-CT fusion help the intervention**
Sara Guerreiro

14h45 **Fusion imaging: CT-Fluoro fusion and TOE-Fluoroscopy fusion – how to apply for TV and MV interventions**
Manuel Barreiro

15h00 **Tricuspid and Mitral valve regurgitation: the impact of simulators training to achieve the best TOE performance on screening and guiding for TV and MV surgical and percutaneous interventions**
Victoria Delgado

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October 19th

15h30 HANDS-ON AND SIMULATORS HANDS-ON
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SESSION 2

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17h30 Closing
Regina Ribeiras | Marisa Trabulo | Pedro Freitas

Course directors: Regina Ribeiras (Cardiologia, Hospital da Luz Lisboa) | **Marisa Trabulo** (Cardiologia, Hospital da Luz Lisboa) | **Pedro Freitas** (Cardiologia, Hospital da Luz Oeiras)
Organization: Centro de Doença Valvular do Hospital da Luz e Hospital de Santa Cruz - CHLO
International faculty: Victoria Delgado | Nina Marsan | Manuel Barreiro

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