

**17 th October-Thursday- Introduction to 3D and TOE**

<b>Time</b>	<b>Session</b>
<b>08:00-09:00</b>	<b>Registration</b>
<b>09:00-09:10</b>	<b>Welcome and Introduction of the Course – Nurgül Keser, Navin C. Nanda</b>
<b>09:10-10:30</b>	<b>Session I: Basics of Transesophageal Echocardiography</b> <b>Chair: Lütfullah Orhan, Cihangir Kaymaz</b>
09:10-09:40	Beginning to TOE: Sedation and Anesthesia, Probe Insertion Techniques, Instrument Controls, Instrument Manipulation- <b>Gülay Gök</b>
09:40-10:10	Standard Tomographic TOE views-Esophageal, Transgastric and Aortic- <b>Alev Kılıçgedik</b>
10:10-10:30	Physics and Image Optimization (Case based)- <b>Mehmet Uzun</b>
<b>10:30-10:50</b>	<b>Coffee break</b>
<b>10:50-12:00</b>	<b>Session II: Basics of 3D Echocardiography</b> <b>Chair: Navin C. Nanda, Cevdet Erdöl</b>
10:50-11:10	How 3D ultrasound works? Basic principles.Which patients would benefit from 3D TTE in day-to-day clinical practice- <b>Navin C. Nanda</b>
11:10-11:30	How 3D images are created? Acquisition of 3D datasets (modes and image settings, dealing with artefacts): TTE and TOE- <b>Gökhan Kahveci</b>
11:30-12:00	How 3D images are created? Post processing of 3D datasets (cropping, slicing): TTE and TOE- <b>Navin C. Nanda</b>
<b>12:00-13:00</b>	<b>Lunch break</b>
<b>13:00-13:40</b>	<b>Session II: Basics of 3D (cont.)</b> <b>Chair: ...Nurgül Keser, Ertuğrul Okuyan</b>
13:00-13:20	Assessing LV function with 3D (TTE)- <b>Nihan Turhan Caglar</b>
13:20-13:40	Assessing RV function with 3D (TTE)- <b>Elif Eroğlu</b>
<b>13:40-14:00</b>	<b>Coffee Break</b>

### Session III: Parallel hands-on sessions

- Knobology and acquisition of LV using the matrix probe (on volunteer case)-  
**Philips-Alpay Sezer and Çiğdem Koca**
- Knobology and acquisition of RV using the matrix probe (on volunteer case)-  
**Philips- Elif Eroğlu and Alev Kılıçgedik**
- TOE simülatör- **Mehmet Uzun and Gökhan Kahveci**

Attendees will be divided into 3 groups:

14:00-17:00

*Between 14:00-15:00; **Group A will practice LV, Group B will practice RV and Group C will practice TOE.***

*Between 15:00-16:00; **Group A will practice RV, Group B will practice TOE and Group C will practice RV.***

*Between 16:00-17:00; **Group A will practice TOE, Group B will practice LV and Group C will practice LV.***

**18 th October-Friday -Advanced applications of 3D (TTE/TOE) and TOE**

Time	Session
<b>09:00-10:30</b>	<b>Session I: Specific structural imaging with TOE (2D and3D)</b> <b>Chair: Saide Aytekin, İlker Tekkeşin</b>
09:00-09:30	Mitral valve anatomy and function assessment- <b>Alpay Sezer</b>
09:30-10:00	Aortic valve anatomy and function assessment- <b>Çiğdem Koca</b>
10.00-10:30	Tricuspid and pulmonary anatomy and function assessment- <b>Elif Eroğlu</b>
<b>10:30-10:50</b>	<b>Coffee Break</b>
<b>10:50-12:30</b>	<b>Session I: Specific structural imaging with TOE (2D and3D) (cont.)</b> <b>Chair: Nurgül Keser , Lutfullah Orhan</b>
10:50-11:10	Evaluation of pulmonary valve and right atrial structures by 3DTTE- <b>Navin C.Nanda</b>
11:10-11:30	Examination of valvular prostheses with 2D/3D TOE- <b>Münevver Sarı</b>
11:30-11:50	Examination of LA/LAA/Pulmonary Veins/RA/IVC/SVC- <b>Özlem Yıldırım Türk</b>
11:50-12:10	Endocarditis – <b>Tuba Kemaloğlu Öz</b>
12:10-12:30	Masses and sources of embolism- <b>Sibel Enar</b>
<b>12:30-13:30</b>	<b>Lunch Break</b>
<b>13:30-17:00</b>	<b>Session II: Hands-on case studies of 3D TTE-TOE (pre-recorded cases on work sitations)- Philips</b>
<b>13:30-15:20</b>	<b>Chair: Navin C. Nanda, Şennur Ünal</b>
13:30-14:00	LV and LA quantification (from pre-recorded 3D-TTE images)- <b>Begüm Uygur</b>
14:00-14:30	Mitral valve proplapse with regurgitation (orientation, cropping, MR quantification-VCA, MVQ)- <b>Gamze Babür Güler</b>
14:30-14:50	Mitral valve stenosis (orientation, cropping, slicing, measuring MVA-MPR)- <b>Alev Kılıçgedik</b>
14:50-15:20	Mitral valve prosthesis with perivalvular leak (Leak location, cropping, measuring defect size-MPR, MR quantification)- <b>Gökhan Kahveci</b>

**15:20-15:40**      **Coffee break**

**15:40-17:00**      **Session II: Hands-on case studies of 3D TTE-TOE (pre-recorded cases on work situations)- Philips- Cont.**

**Chair: Navin C. Nanda, Nurgül Keser**

15:40-16:00      Tricuspid and pulmonary valve (orientation, cropping, TR quantification-VCA)- **Tuba Kemaloğlu Öz**

16:00-16:20      Aortic valve stenosis (orientation, cropping, MPR for TAVI measurements, measuring LVOT Area-AVA)- **Münevver Sarı**

16:20-16:40      Aortic valve regurgitation (orientation, cropping, MPR, measuring VCA) –**Çiğdem Koca**

16:40-17:00      Atrial septal defect (orientation, cropping, location, sizing, MPR, deciding for interv.)- **Ebru Özpelit**

19th October-Saturday	Interventional 2D/3D TOE
Time	Session
08:30-09:30	<b>Session I: Interventional 2D/3D TOE (Theoretical)</b> <b>Chair: Ahmet Turan Yılmaz, Lütfullah Orhan</b>
08:30-09:00	Interatrial septum puncture (Case based) -Dual presentation- <b>Alpay Sezer (Echo)-.Ahmet Taha Alper (Interv)- Mert İlker Hayiroğlu</b>
09:00-09:30	Percutaneous Mitral Interventions (Case based) (Mitraclip/Closureof Paravalvular Leaks)- <b>Navin C Nanda-</b>
09:30-09:50	LAA closure/imaging and interventional <b>Şükrü Akyüz</b>
09:50-12:20	<b>Session II: Interventional 2D/3D TOE (Live-Case session)</b> <b>Chair: Mustafa Kemal Erol, Nihal Özdemir</b>
09:50-10:50	ASD closure (Live case from Cath Lab)- <b>Müslüm Şahin, Tufan Çınar, Muhammed Keskin</b> Interventional Echo: <b>Ebru Özpelit</b>
10:50-11:10	<b>Coffee break</b>
11:10-12:15	<b>Session II: Interventional 2D/3D TOE (Live-Case session) Cont.</b> <b>Chair: Navin C. Nanda, Cevat Kıрма</b> Perivalvular leak closure (Live case from Cath Lab) – <b>Can Yücel Karabay, Mert İlker Hayiroğlu</b> Interventional Echo: <b>Gökhan Kahveci</b>
12:15-13:00	<b>Session III: Intraoperative 2D/3D TOE (Live-Case session from OR)</b> <b>Ahmet Turan Yılmaz (Surgeon)</b> Intraoperative Echo: <b>Mehmet Uzun- Emre Yalçinkaya</b>
13.00-13.30	Closing remarks and future of Imaging: <b>Navin C.Nanda, Nurgül Keser</b>

**19th October-  
Saturday**

**Interventional 2D/3D TOE**

**Time**

**Session**

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