





CLAP Snaps

5 Key Messages Perioperative Transoesophageal Echocardiography Thursday 30th September 2021

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TOE – Teach and Learn

Prof Justiaan Swanevelder (University of Cape Town)



Smashing the Video Cases

Dr Stephen Shepherd (St Bartholomew's Hospital)



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Off Piste TOE & A Few Tips

Dr Sue Wright (St George's Hospital)





Know what's happening at the probe tip at all times when you move and manipulate the probe – HeartWorks shows the movements of the tip as you obtain various views

Understanding anatomical relationships of structures allows you to move between views in order to fully image and explore your target structure

> Know the anatomy

Centre the structure of interest on the screen so that when you rotate the omniplane the structure will still be centred

SAX and LAX are orthogonal

If anatomy is distorted or a view is unavailable. structures can be viewed via alternative windows to get a complete assessment

Structures can be seen in mutliple views

Understanding surgical techniques and potential complications can help recognise issues early and improve patient outcomes

5

Watch what the surgeons are doing

Understand your

probe

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3D TOE Basic Knobology

01	Trade-Offs	3D TOE requires finding a workable balance between temporal resolution, spatial resolution and sector size, all of which are inter-related
02	Understand the Physics	By understanding how 3D TOE images are created, we can optimise images with better centring and manipulation of images and appreciating the pyramidal section of the 3D sampling volume
03	CICO	Crap In = Crap Out! 3D modes will not magically make your por 2D images into amazing 3D reconstructions Make sure your 2D images are optimised
04	3D Modes	Live 3D imaging gives good temporal resolution but at the cost of spatial resolution, Multibeat reconstructions have superior spatial resolution but are not live and can suffer stitching atrifact.
05	Imaging Large Structures	For imaging big structures such as the LV, we can use Large (GE) or Full Volume (Philips) although temporal and spatial resolution suffer as we increase the simple volume size.

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Watch Carlos's presentation in our Member's area to see his tips for which controls to use!

Dr Carlos Corredor

(St Bart's Hospital)





TOE for VAD and Transplant

Dr Antonio Rubino (Royal Papworth Hospital)



Complications of TOE: ACTACC National Audit

Dr Ganesh Ramalingam (Royal Papworth Hospital)



to aid training

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Management & Sequelae of Oesophageal Injury

Miss Cara Baker (St Thomas's Hospital)



Boerhaave's Syndrome

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Diagnostic OGD 0.03%

Therapeutic OGD 2-5%

> Anterior disc surgery

> > TOE, NGT

Risk of latrogenic Perforation Early CXR may be normal

CT – pneumomediastinum, effusions

-Resuscitate, broad spectrum IVAB -Avoid blind NGT -Contact local OG service

Diagnosis & Initial Mgmt



HDU/ITU, IVABs, antifungals, PPI, nutrition

CT/endoscopy/co ntrast swallow

Surgery: locate perf, degree of contamination. neck/chest/abdo, +/- feeding jej & venting gatrostomy [or cons. mgmt]

Mgmt by OG

Deal with sepsis oesophagogastric surgeons Find the hole

5

Phone

De-function and

protect

Be prepared for

reintervention

Summary

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