

Tanzania Transthoracic Echocardiography Workshop

PreTest 2024

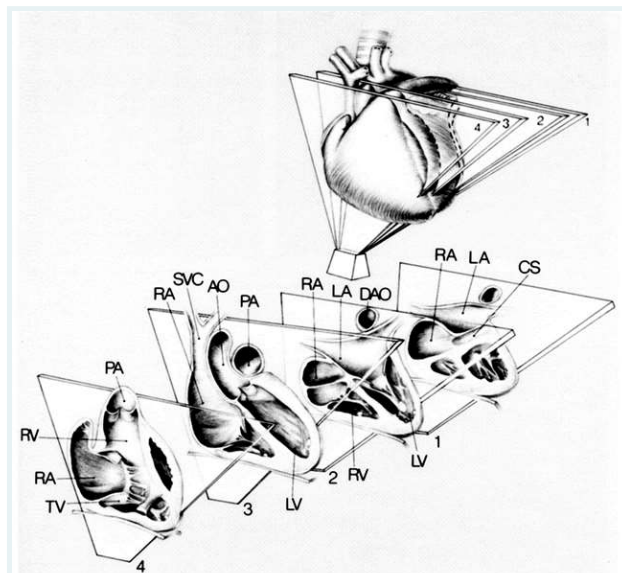
1

Please enter your name and role

Enter your answer

2

Which Imaging Plane is depicted in this picture (1 Point)



☐ Subcostal Coronal

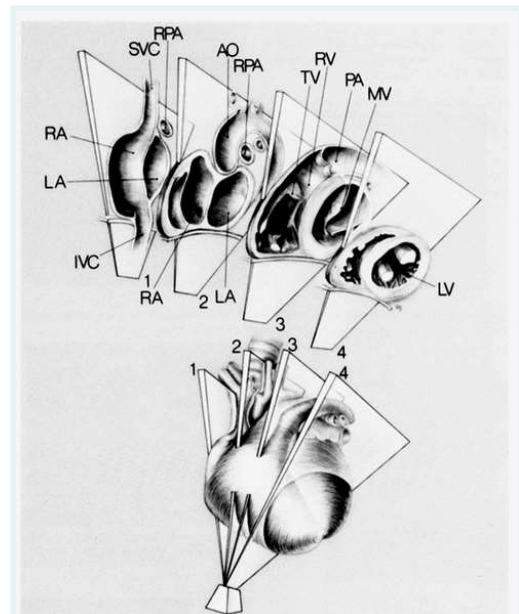
☐ Subcostal Sagittal

☐ Apical

☐ Paraternal long axis

3

Which Imaging Plane is depicted in this picture (1 Point)



☐ Subcostal Coronal

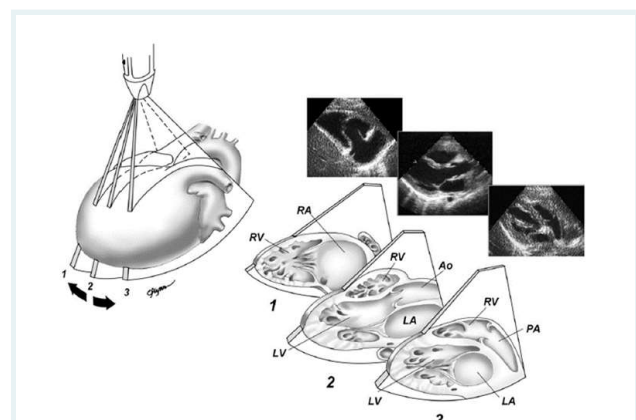
☐ Subcostal Sagittal

☐ Apical

☐ Paraternal long axis

4

Which Imaging Plane is depicted in this picture (1 Point)



☐ Subcostal Coronal

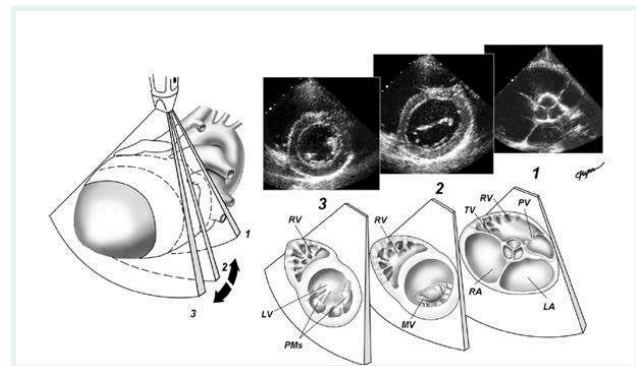
☐ Subcostal Sagittal

☐ Apical

☐ Parasternal long axis

5

Which Imaging Plane is depicted in this picture (1 Point)



☐ Subcostal Coronal

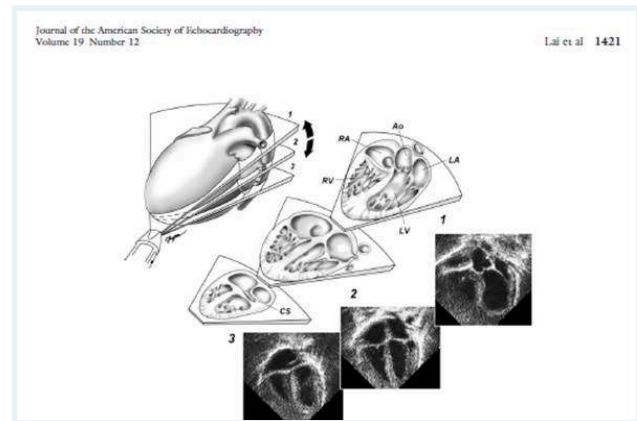
☐ parasternal short axis

☐ Apical

☐ Parasternal long axis

6

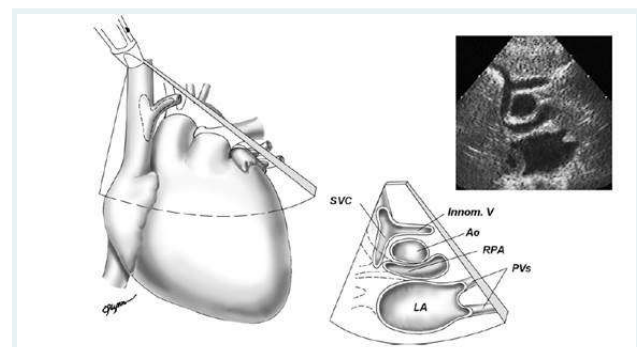
Which Imaging Plane is depicted in this picture (1 Point)



- ☐ Subcostal Coronal
- ☐ parasternal short axis
- ☐ Apical
- ☐ Parasternal long axis

7

Which Imaging Plane is depicted in this picture (1 Point)

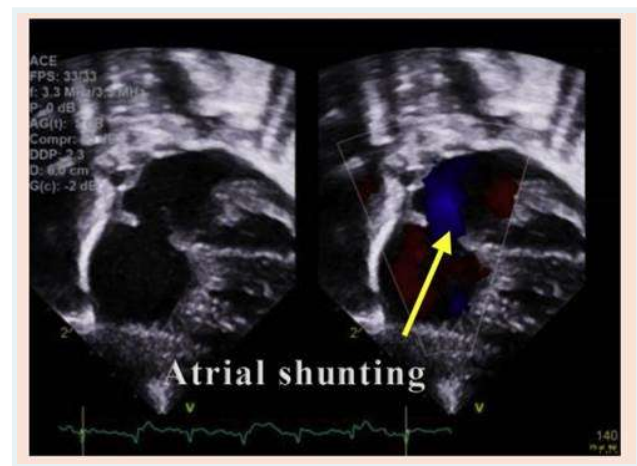


- ☐ suprasternal short axis
- ☐ parasternal short axis
- ☐ Apical

☐ Paraternal long axis

8

This image from a subcostal view on a newborn represents
(1 Point)



☐ a normal finding

☐ an abnormal finding

9

According to the American Society of Echocardiography, in a young child, the left ventricle should be measured at the region of the: (1 Point)

☐ A. Papillary muscles from a short axis image

☐ B. Aortic valve from a long axis image

☐ C. Mitral valve where only the anterior leaflet is seen from the long axis image

☐ D. Mitral valve where both the anterior and posterior leaflets are visualized from a short axis image

10

A patient has a blood pressure of 130/80 and a VSD jet of 5 m/sec. Assuming there is no aortic valve gradient, what is the right ventricular systolic pressure? (1 Point)

- ☐ A. 30 mmHg
- ☐ B. 80 mmHg
- ☐ C. 105 mmHg
- ☐ D. 125 mmHg
- ☐ E. 230 mmHg

11

A typical left aortic arch in the "candy cane view" is best seen with the transducer rotated with indicator pointed towards: (1 Point)

- ☐ A. 12 o'clock
- ☐ B. 1-2 o'clock
- ☐ C. 4-5 o'clock
- ☐ D. 7-8 o'clock
- ☐ E. 10-11 o'clock

12

Using a peak velocity of 4 m/sec across the pulmonary valve, estimate the severity of the pulmonary stenosis and its peak instantaneous pressure gradient.

(1 Point)

- ☐ A. Mild, 8 mmHg
- ☐ B. Mild, 16 mmHg
- ☐ C. Severe, 32 mmHg
- ☐ D. Severe, 64mmHg

13

What is a common 2D finding in a patient with severe PHTN? (1 Point)

- ☐ A. Round ventricular septal contour throughout the cardiac cycle
- ☐ B. Mild septal flattening in diastole
- ☐ C. Mild septal flattening in systole
- ☐ D. "D" sign due to flattening/bowing of interventricular septum in systole

14

Where should the probe indicator be when obtaining a standard PLAX view for a normally positioned heart? (1 Point)

- ☐ A. Towards the patient's left shoulder
- ☐ B. Towards the patient's right shoulder
- ☐ C. Towards the patient's feet
- ☐ D. Towards the patient's head

☐ E. Towards the liver

15

22. On Spectral Doppler, where is a positive Doppler shift depicted? (1 Point)

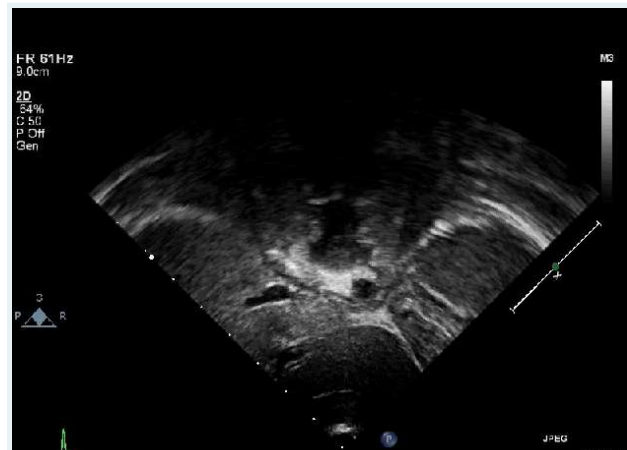
☐ A. Above the baseline

☐ B. Below the baseline

☐ C. Both above and below the baseline

16

This echo image demonstrates what subcostal imaging finding (1 Point)



☐ A. Normal abdominal situs

☐ B. Abdominal situs inversus

☐ C. Interrupted IVC

☐ D. Left sided IVC

17

27. The normal orientation of the semilunar valves can be described as
(1 Point)

- ☐ A. Aorta anterior and rightward of the pulmonary valve
- ☐ B. Aortic anterior and leftward of the pulmonary valve
- ☐ C. Pulmonary valve anterior and rightward of the aortic valve
- ☐ D. Pulmonary valve anterior and leftward of the aortic valve

18

29. Blood always flows from an area of ____ pressure to an area of ____ pressure (1 Point)

- ☐ A. high--high
- ☐ B. low--low
- ☐ C. low--high
- ☐ D. high--low

19

30. What are energy or pressure differences called? (1 Point)

- ☐ A. Velocities
- ☐ B. Transducers

- ☐ C. Medians
- ☐ D. Gradients

20

Making the color box bigger increases the frame rate and resolution of your image. (1 Point)

- ☐ True
- ☐ False

21

From a parasternal imaging plane, the expected direction of flow in an isolated patent ductus arteriosus is (1 Point)

- ☐ A. away from the probe, consistent with L to R flow
- ☐ B. away from the probe, consistent with R to L flow
- ☐ C. towards the probe, consistent with L to R flow
- ☐ D. towards from the probe, consistent with R to L flow
- ☐ E. bidirectional flow

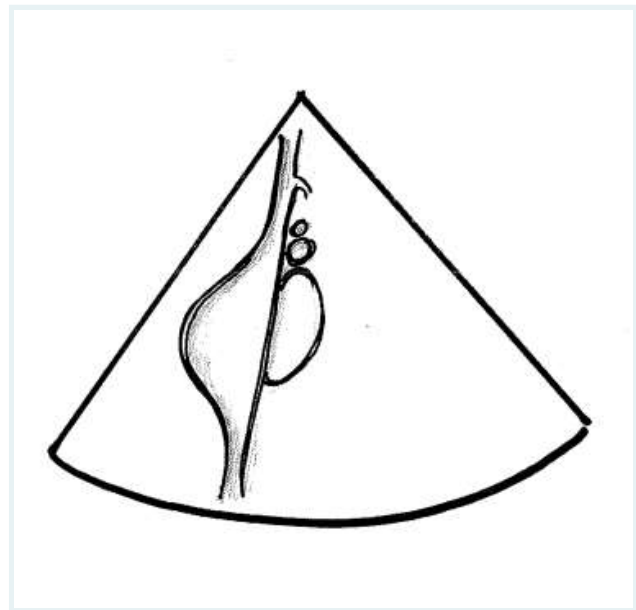
22

When assessing velocity of flow in a vessel by spectral Doppler, the ultrasound beam should be aligned (1 Point)

- ☐ A. Perpendicular to flow at 90 degrees
- ☐ B. Parallel to flow at 90 degrees
- ☐ C. Parallel to flow as close to 0 and no more than 20 degrees
- ☐ D. Parallel to flow at an angle >20 degrees
- ☐ E. None of the above

23

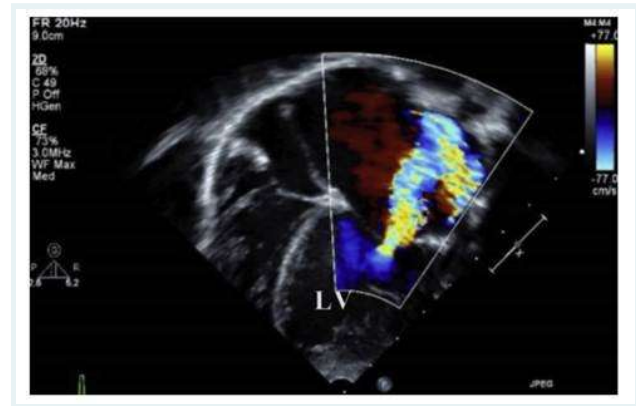
This view is helpful for looking at which of the following structures, especially in older children? (1 Point)



- ☐ A. Atrial septum
- ☐ B. Left upper pulmonary vein
- ☐ C. Aortic arch
- ☐ D. Coronary sinus
- ☐ E. Hepatic vein

24

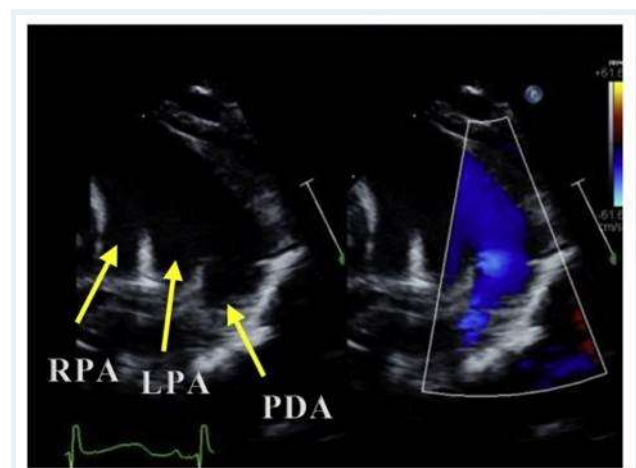
This apical 4 chamber view in color presents concern for
(1 Point)



- ☐ Mitral valve stenosis
- ☐ Mitral valve regurgitation
- ☐ Tricuspid valve stenosis
- ☐ Tricuspid valve regurgitation

25

Based on this image, pulmonary pressure is estimated to be
(1 Point)



- ☐ Subsystemic
- ☐ Systemic

☐ Suprasystemic

26

On obtaining this apical 4 chamber view, there is concern for which of the following cardiac pathologies (1 Point)

- ☐ Coarctation of the aorta
- ☐ Total anomalous pulmonary venous return
- ☐ Hypoplastic mitral valve
- ☐ All of the above

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