Transthoracic Echo

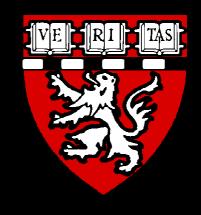
Thomas M Burch, M.D.
Beth Israel Deaconess Medical Center
Children's Hospital Boston



Children's Hospital Boston



BIDMC

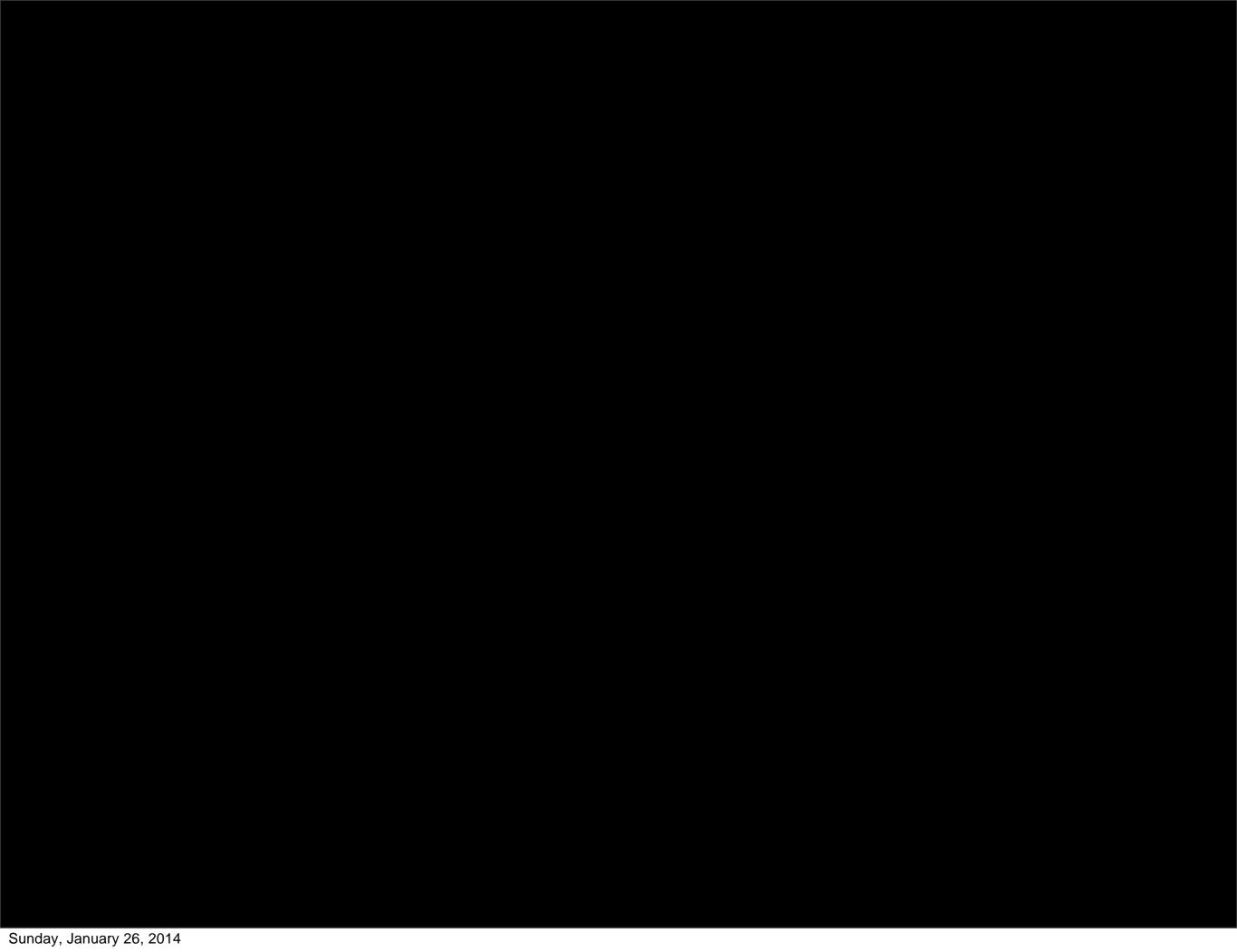


Harvard Medical School

CONFLICTS OF INTEREST?

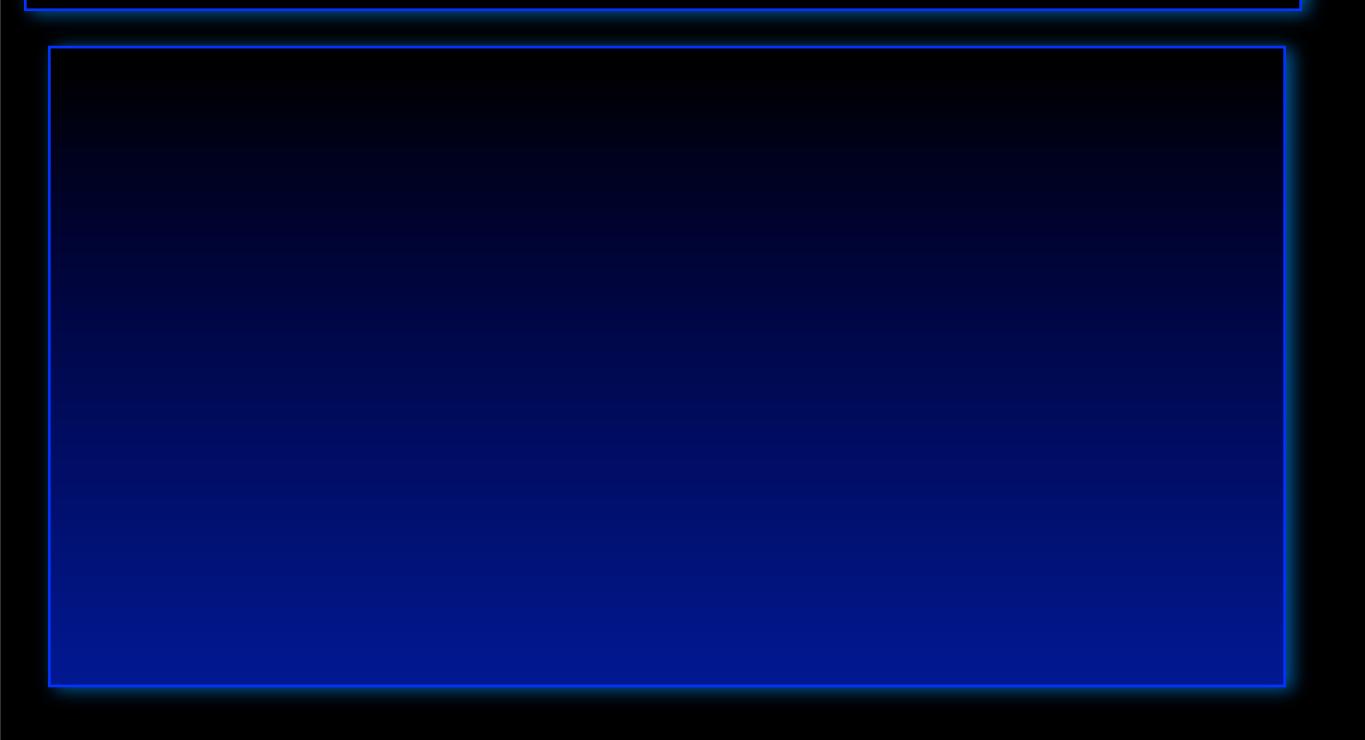
CONFLICTS OF INTEREST?

PIEmasters.com





Sunday, January 26, 2014



Review BASIC TTE views.

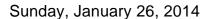
Review BASIC TTE views.

Describe common structures seen w TTE

Review BASIC TTE views.

Describe common structures seen w TTE

Describe how to do it? (simulation)



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Google: Toronto, PIE, and TTE

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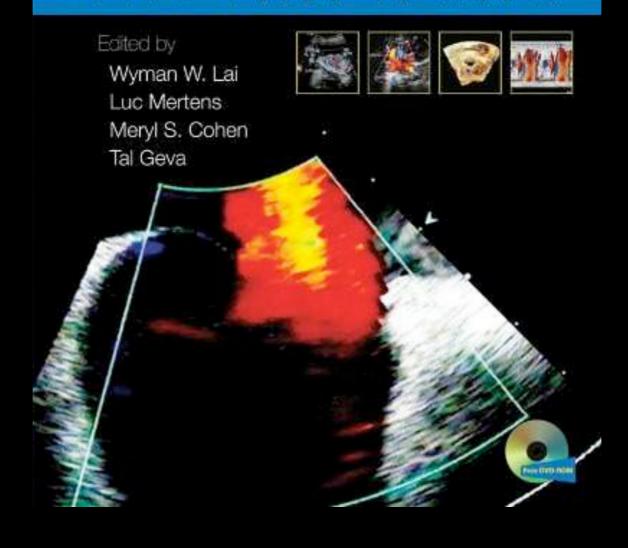
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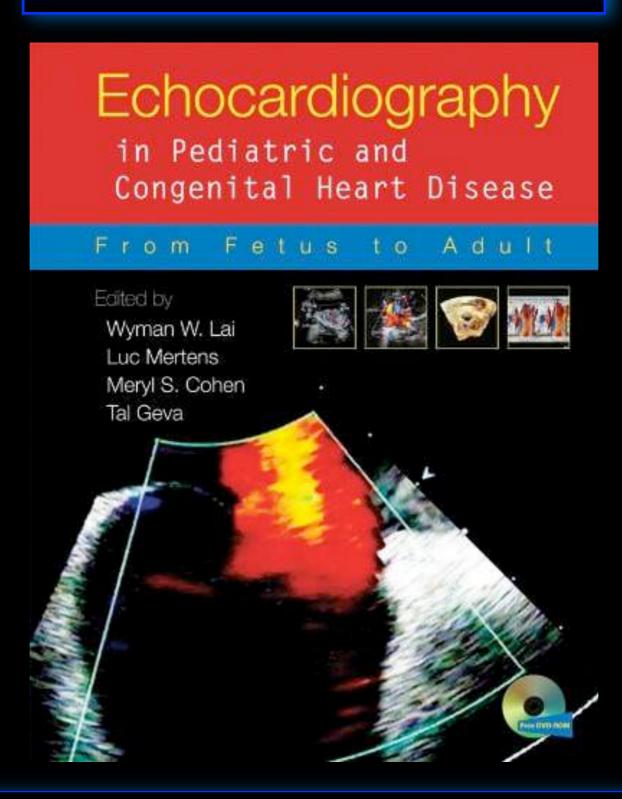
Google: Toronto, PIE, and TTE

Outstanding, Highly recommended

Echocardiography in Pediatric and Congenital Heart Disease

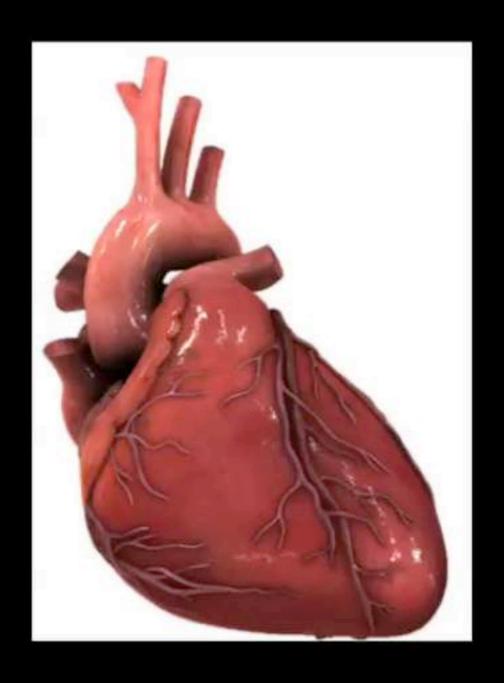
From Fetus to Adult



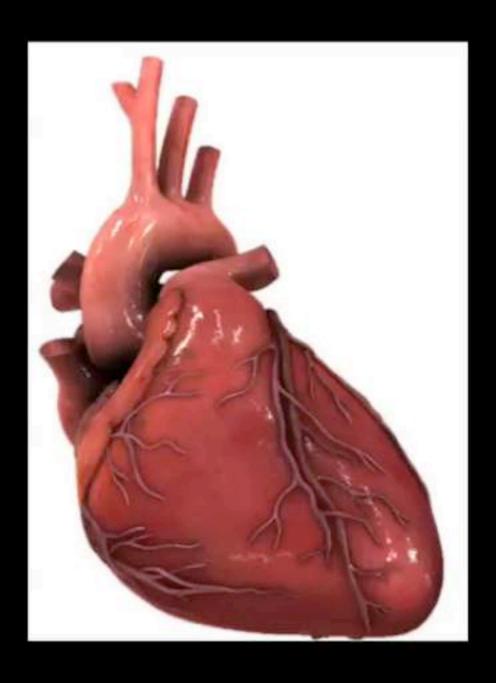


Echocardiography in Pediatric and Congenital Heart Disease From Fetus to Adult EDITED BY: Wyman W. Lai, MD, MPH, Luc L. Mertens, MD, PhD, Meryl S. Cohen, MD, Tal Geva, MD









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This course is suitable for individuals or institutions wishing to learn, teach or consolidate their understanding of TEE.

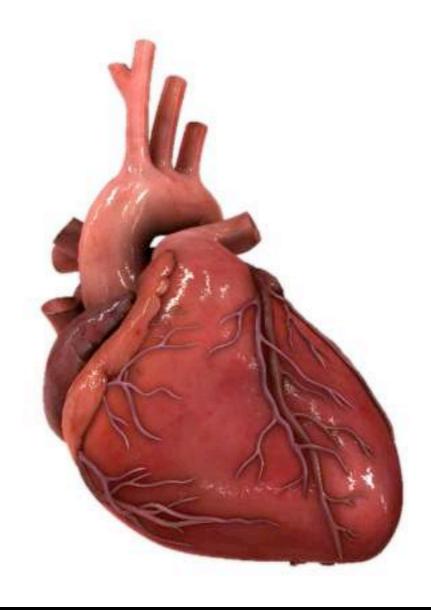
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NEW: Introducing the second suite of pathology models for HeartWorks simulators.

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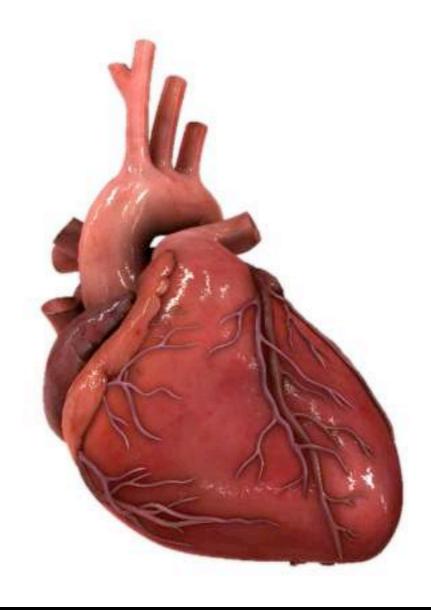
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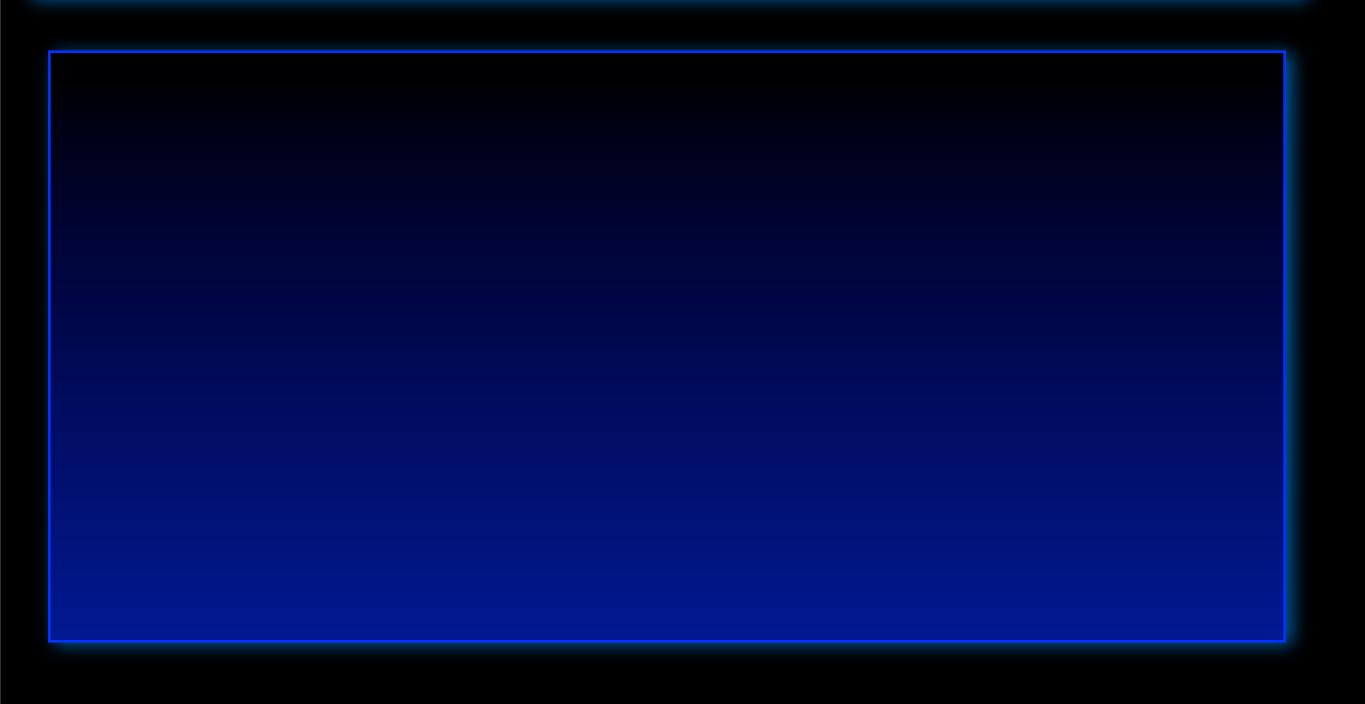
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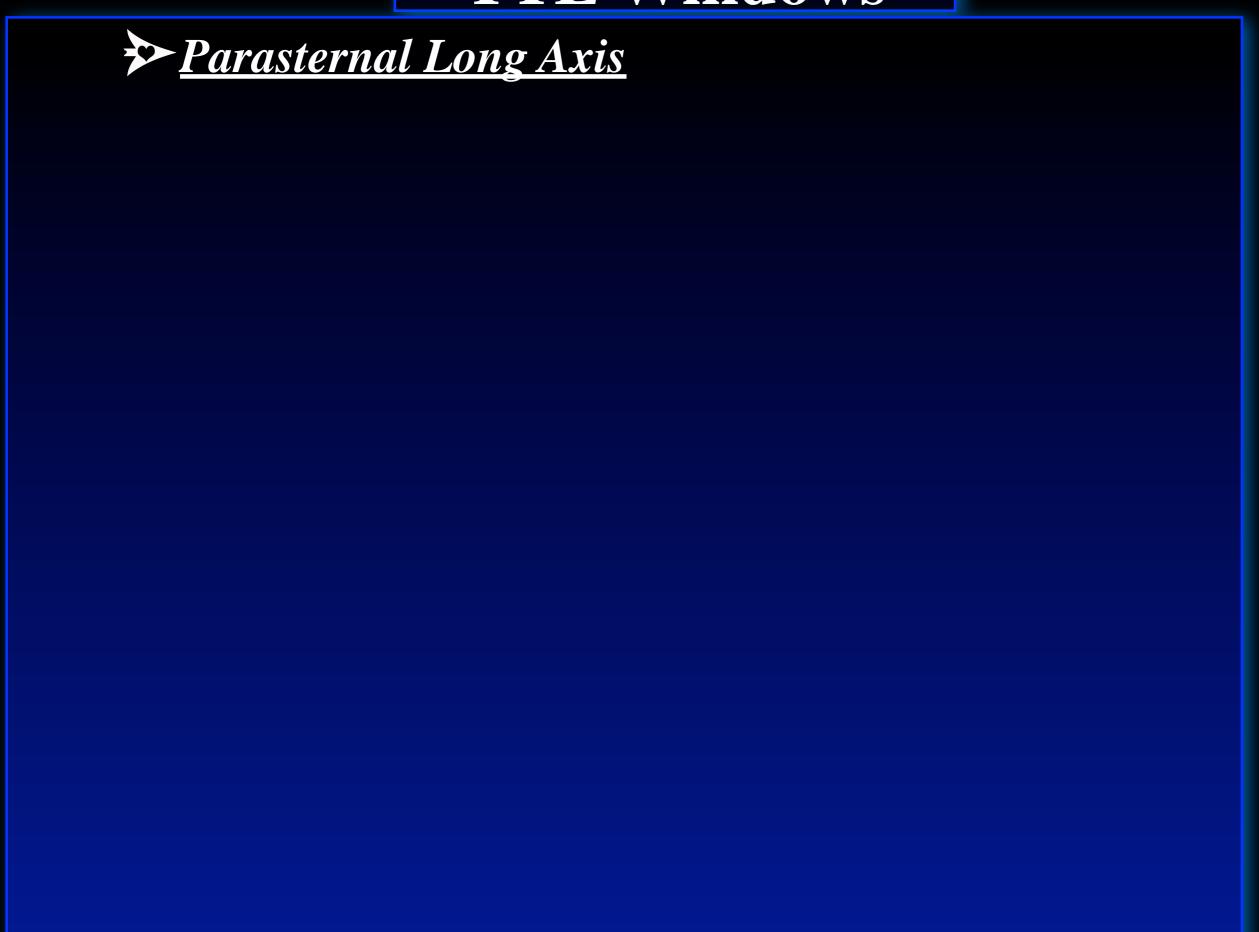




- > Parasternal > Apical
- > Subcostal

Parasternal Apical > Subcostal > Suprasternal





Parasternal Long Axis Parasternal Long-Axis View

- Parasternal Long Axis
 - Parasternal Long-Axis View
 - RV Inflow View

- Parasternal Long Axis
 - Parasternal Long-Axis View
 - RV Inflow View
 - RV Outflow View

- Parasternal Long Axis
 - Parasternal Long-Axis View
 - RV Inflow View
 - RV Outflow View
- Parasternal Short Axis

- Parasternal Long Axis
 - Parasternal Long-Axis View
 - RV Inflow View
 - RV Outflow View
- Parasternal Short Axis
 - Aortic Valve Short Axis View

- Parasternal Long Axis
 - Parasternal Long-Axis View
 - >RV Inflow View
 - RV Outflow View
- Parasternal Short Axis
 - Aortic Valve Short Axis View
 - **→** Mitral Valve Short Axis View

- Parasternal Long Axis
 - Parasternal Long-Axis View
 - >RV Inflow View
 - RV Outflow View
- Parasternal Short Axis
 - Aortic Valve Short Axis View
 - Mitral Valve Short Axis View
 - Mid-Papillary Short Axis View

- Parasternal Long Axis
 - Parasternal Long-Axis View
 - >RV Inflow View
 - RV Outflow View
- Parasternal Short Axis
 - Aortic Valve Short Axis View
 - **→** Mitral Valve Short Axis View
 - **→** Mid-Papillary Short Axis View
- * Apical

- Parasternal Long Axis
 - **≯** Parasternal Long-Axis View
 - RV Inflow View
 - RV Outflow View
- Parasternal Short Axis
 - Aortic Valve Short Axis View
 - Mitral Valve Short Axis View
 - Mid-Papillary Short Axis View
- **≯**Apical
 - Four Chamber View

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **≯** Mid-Papillary Short Axis View

- Four Chamber View
- Five Chamber View

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- ➤ Mid-Papillary Short Axis View

- Four Chamber View
- Five Chamber View
- Two Chamber View

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **≯** Mid-Papillary Short Axis View

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **≯** Mid-Papillary Short Axis View

- Four Chamber View
- Five Chamber View
- Two Chamber View
- > Apical Long Axis View
- > Subcostal

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- Mid-Papillary Short Axis View

* Apical

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

> <u>Subcostal</u>

Four Chamber View

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **≯** Mid-Papillary Short Axis View

> <u>Apical</u>

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

> <u>Subcostal</u>

- Four Chamber View
- Short Axis View

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

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- **≯** Mid-Papillary Short Axis View

* Apical

- Four Chamber View
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- Two Chamber View
- Apical Long Axis View

- Four Chamber View
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- >IVC Long Axis View

Parasternal Long Axis

- Parasternal Long-Axis View
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Parasternal Short Axis

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Parasternal Long Axis

- Parasternal Long-Axis View
- RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **→** Mid-Papillary Short Axis View

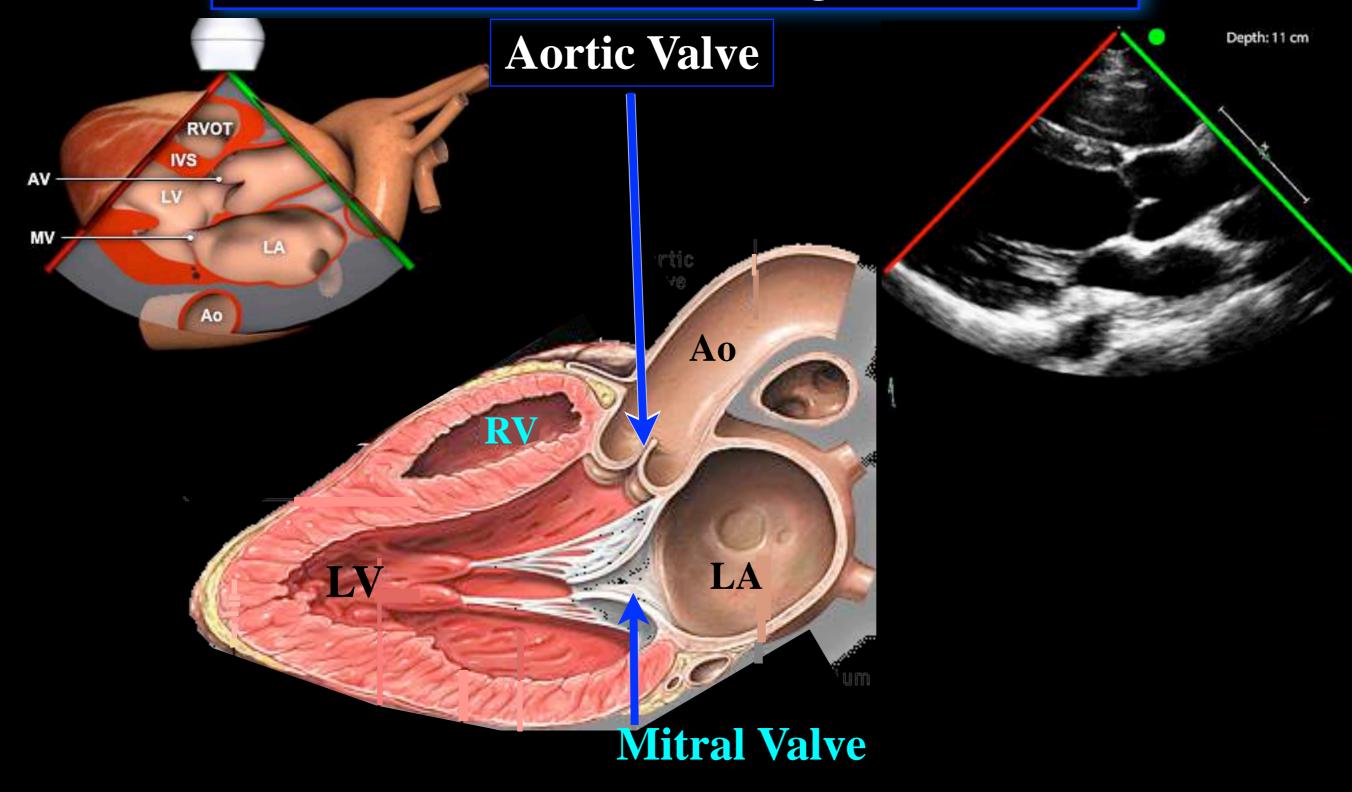
≯Apical

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

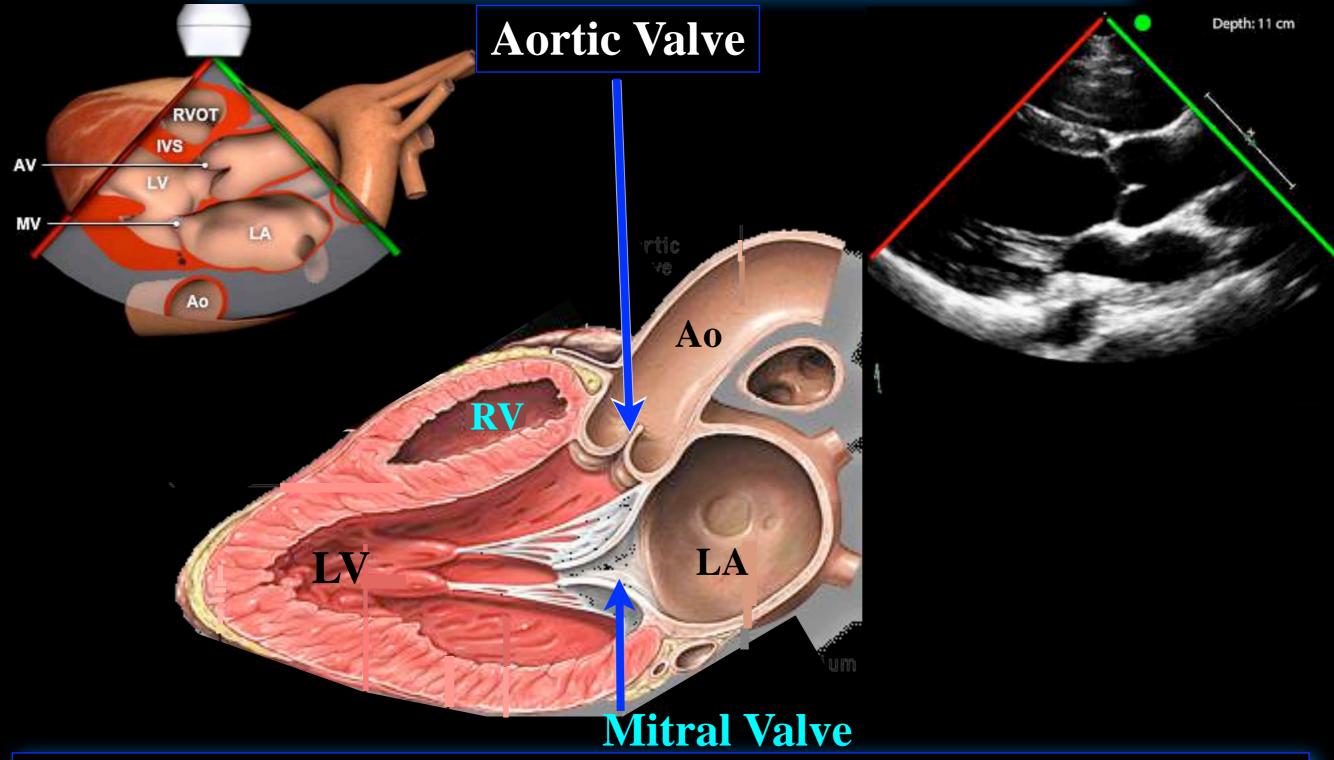
> Subcostal

- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal

PLAX: Parasternal Long Axis View

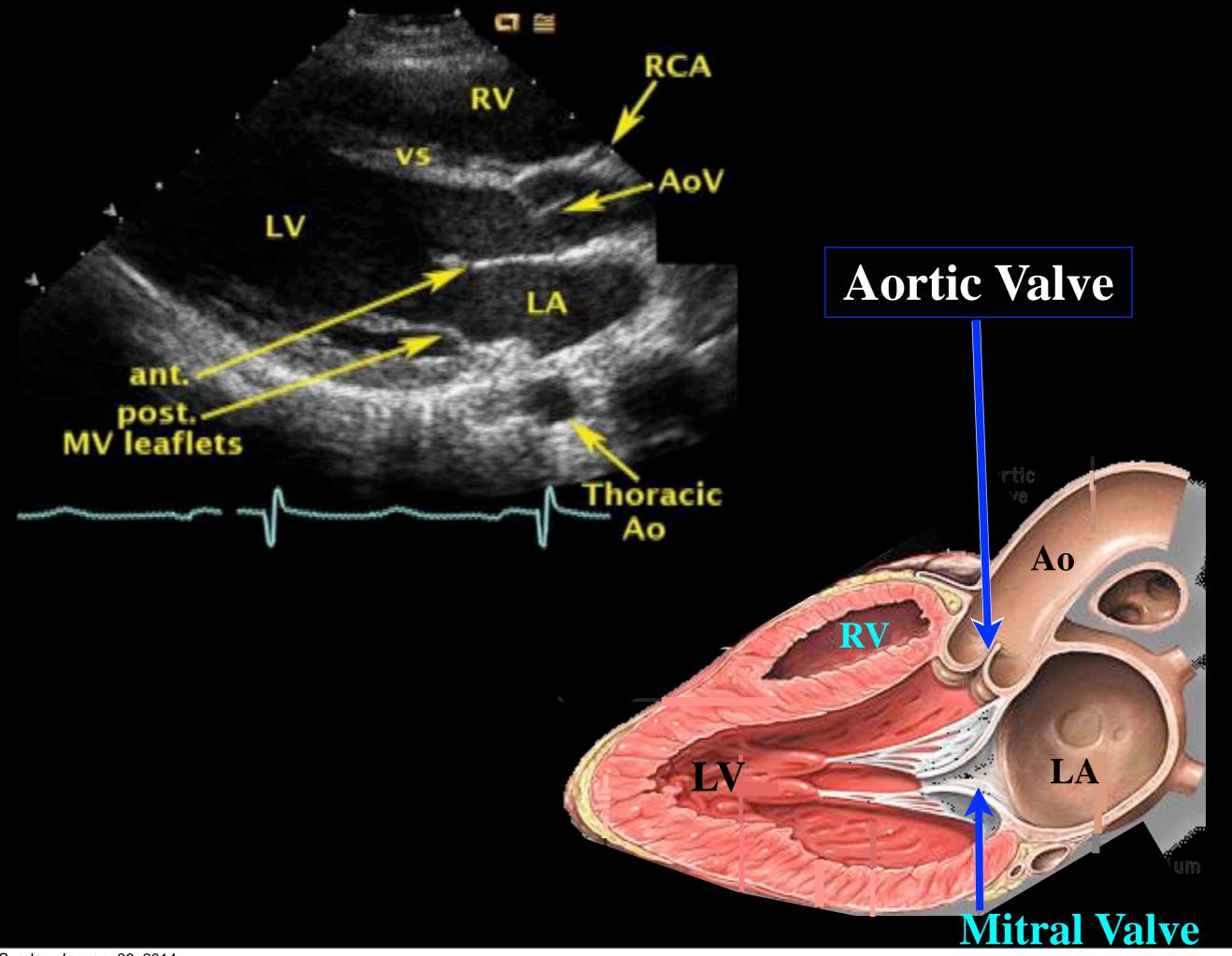


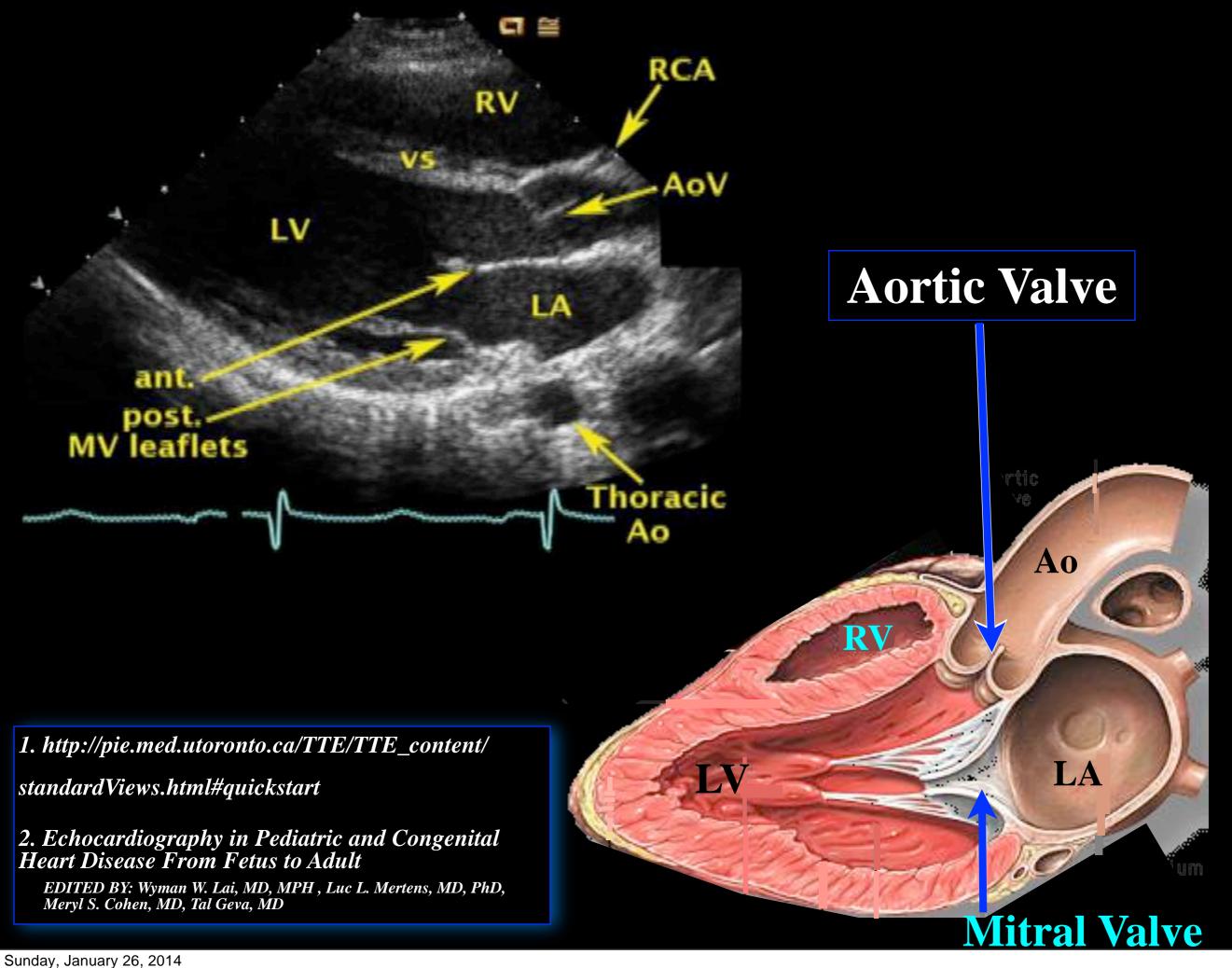
PLAX: Parasternal Long Axis View



- 1. http://pie.med.utoronto.ca/TTE/TTE_content/standardViews.html#quickstart
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Aortic Valve Ao RV LA





Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **→** Mid-Papillary Short Axis View

≯Apical

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

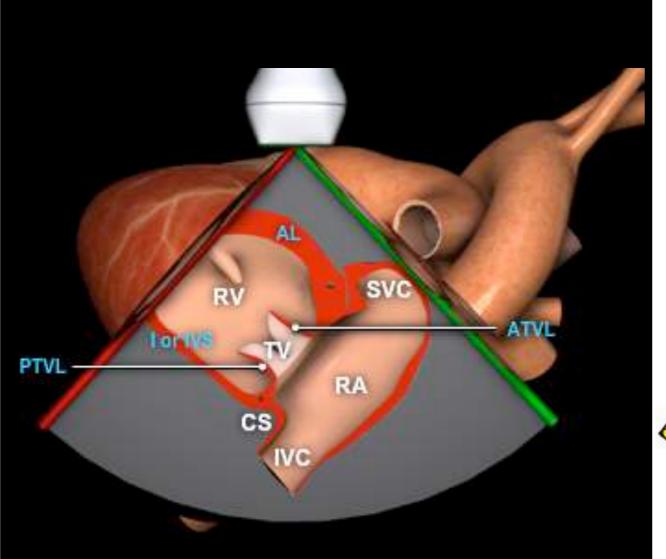
- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **≯** Mid-Papillary Short Axis View

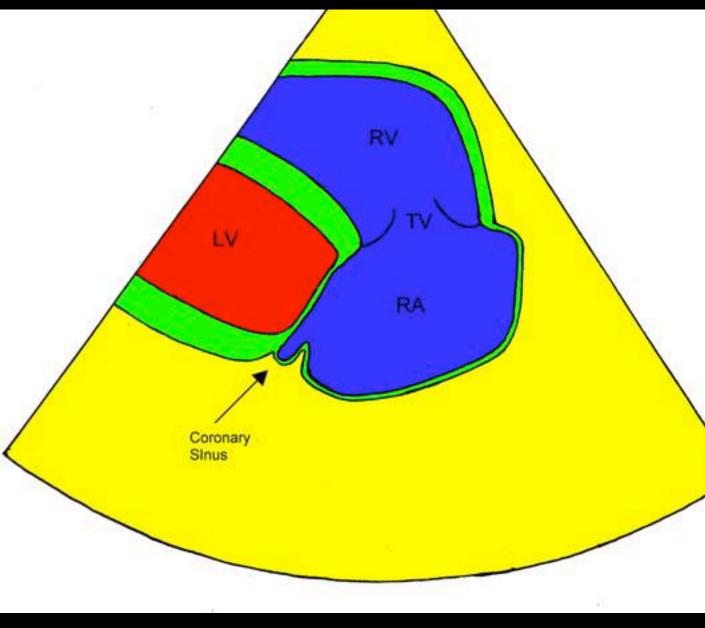
* Apical

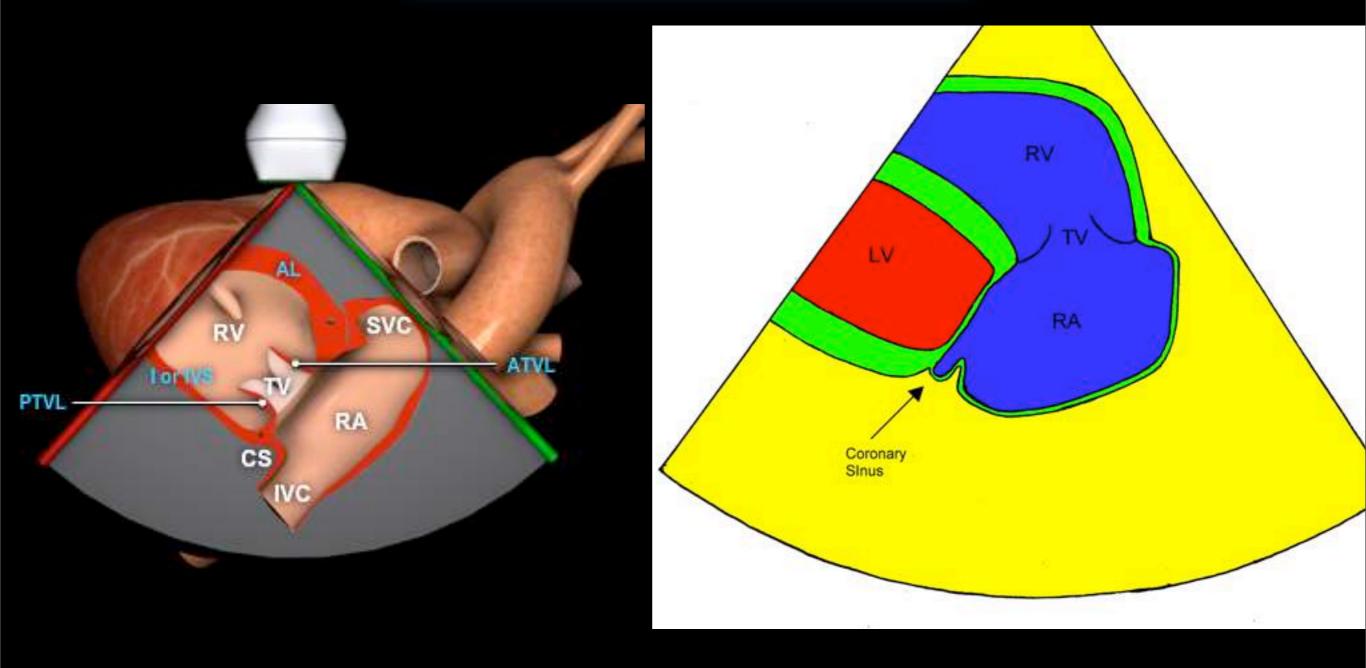
- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

> <u>Subcostal</u>

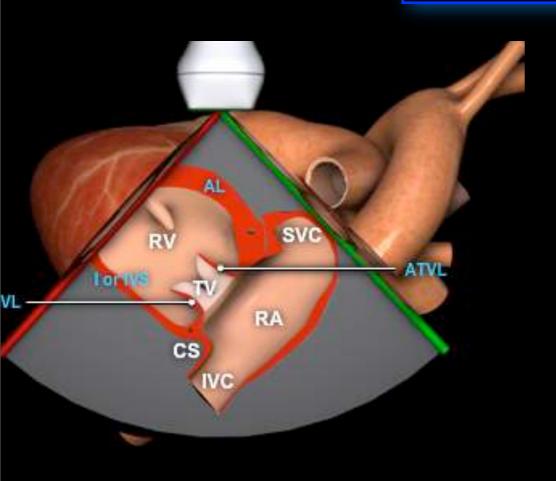
- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal

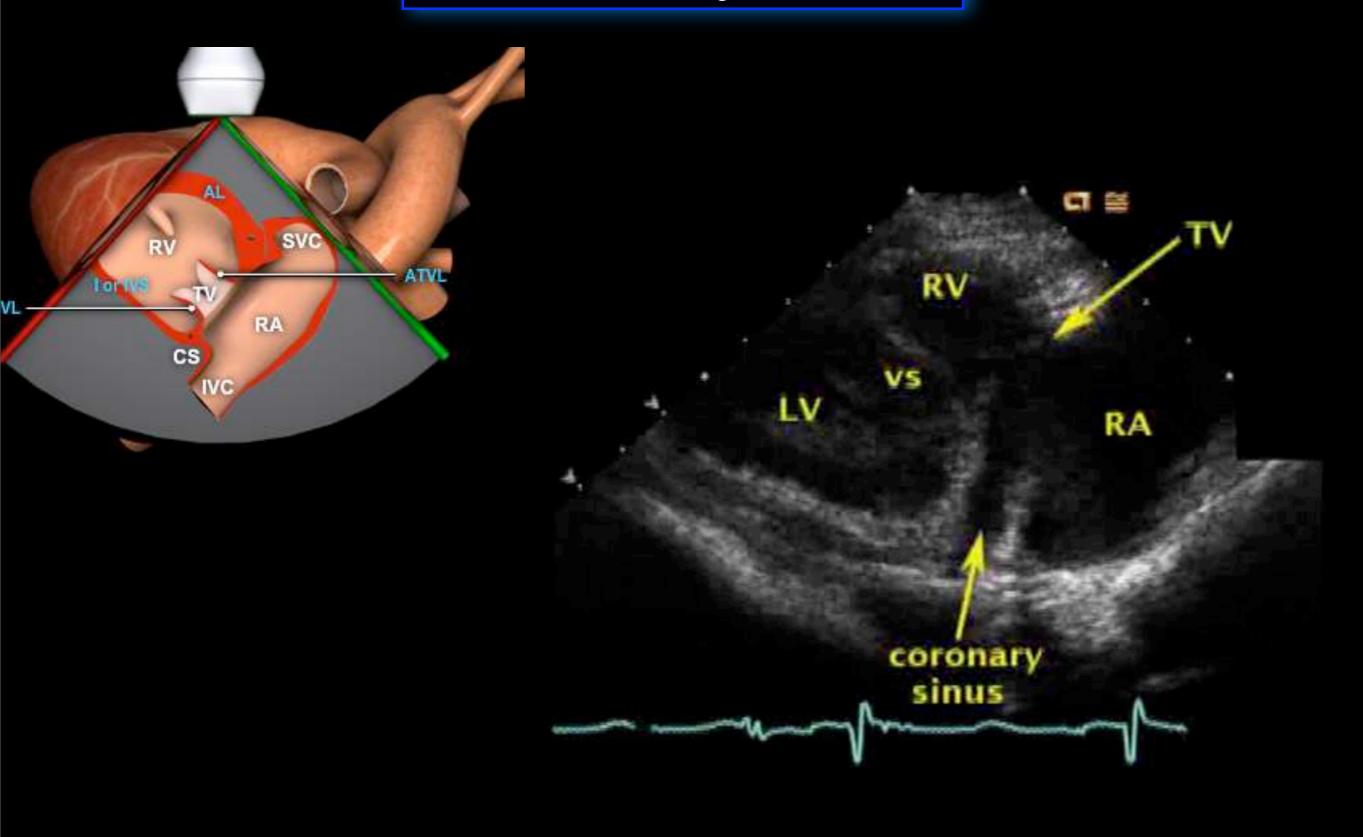


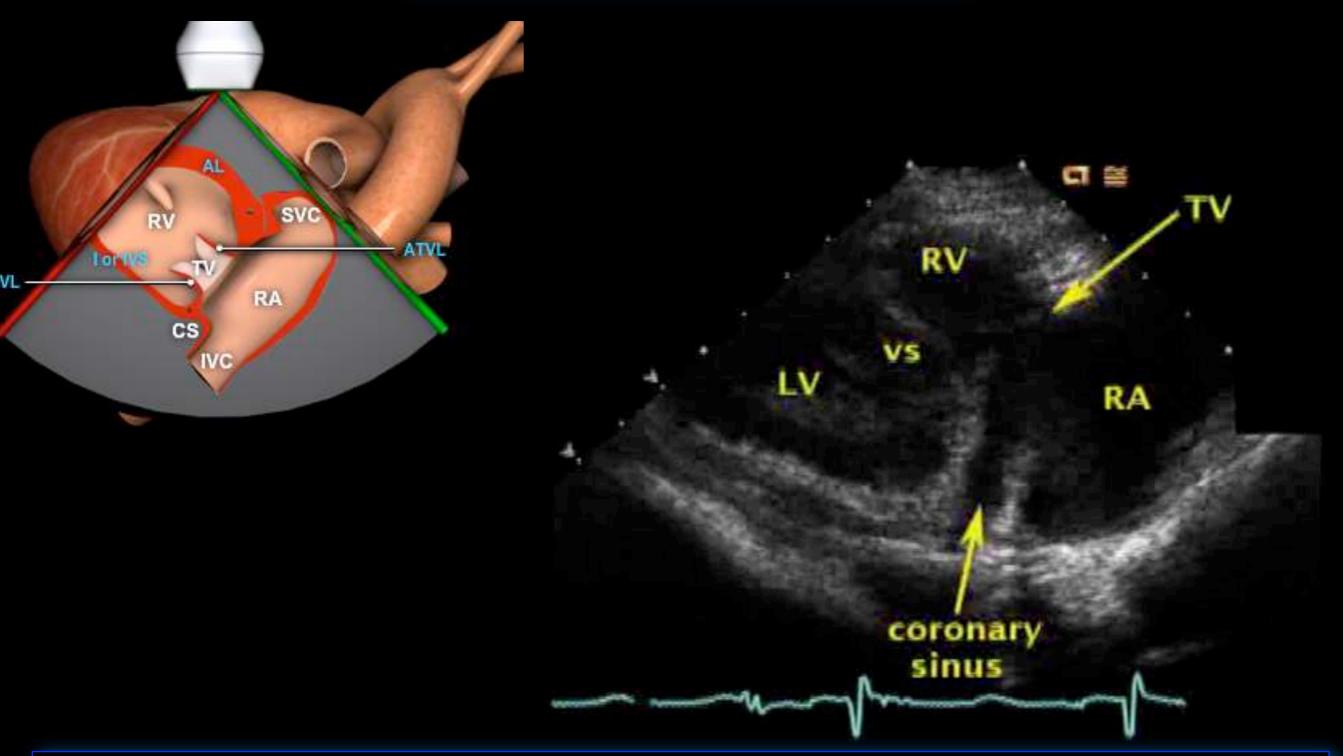




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Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **→** Mid-Papillary Short Axis View

≯Apical

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > <u>Suprasternal</u>

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- ➤ Mitral Valve Short Axis View
- **→** Mid-Papillary Short Axis View

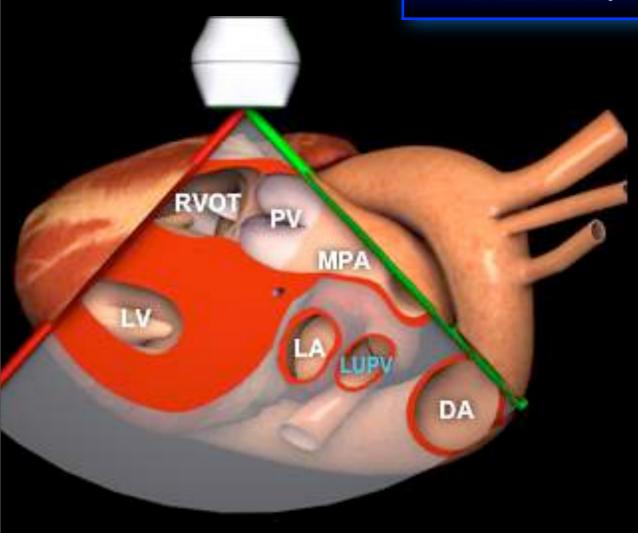
* Apical

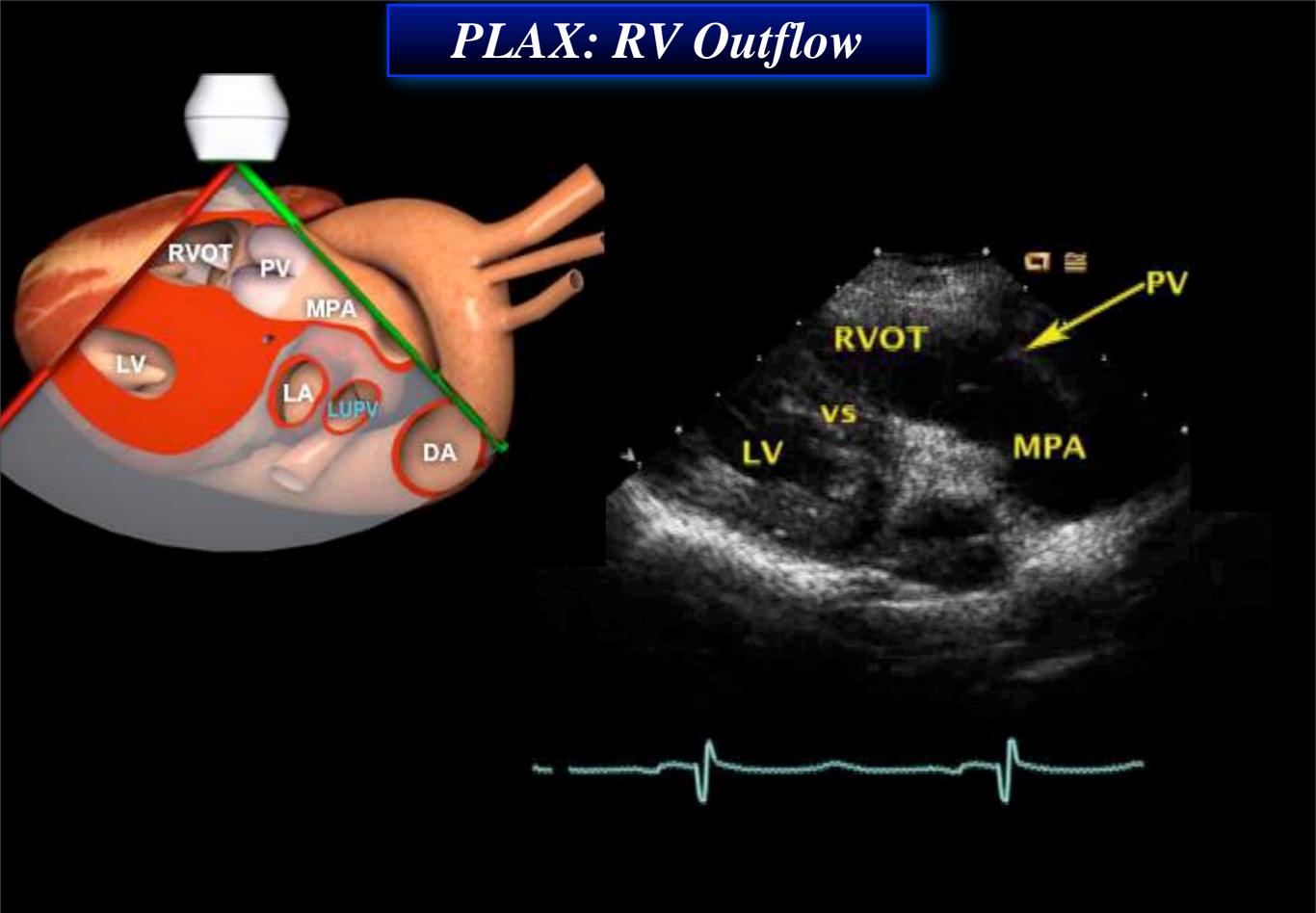
- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

> Subcostal

- Four Chamber View
- Short Axis View
- > IVC Long Axis View
- > Suprasternal

PLAX: RV Outflow





PLAX: RV Outflow MPA DA

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Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
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Parasternal Short Axis

- Aortic Valve Short Axis View
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- **→** Mid-Papillary Short Axis View

≯Apical

- Four Chamber View
- Five Chamber View
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- Apical Long Axis View

- Four Chamber View
- Short Axis View
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- > <u>Suprasternal</u>

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **≯** Mid-Papillary Short Axis View

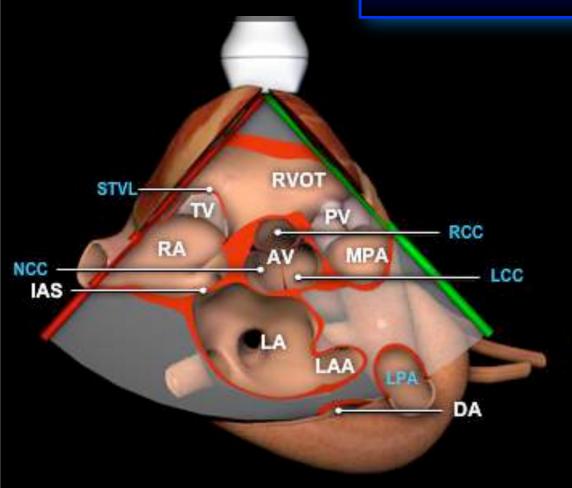
> <u>Apical</u>

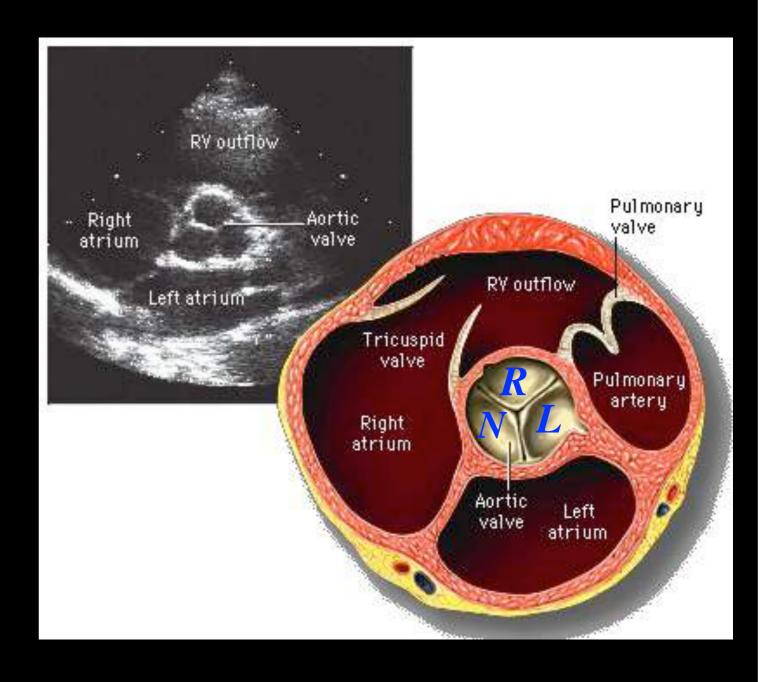
- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

> <u>Subcostal</u>

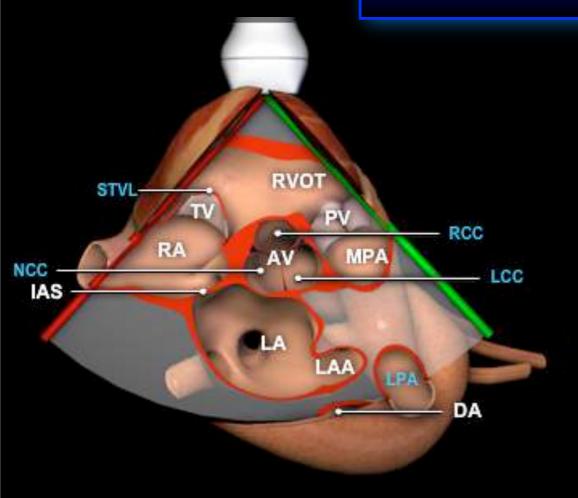
- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal

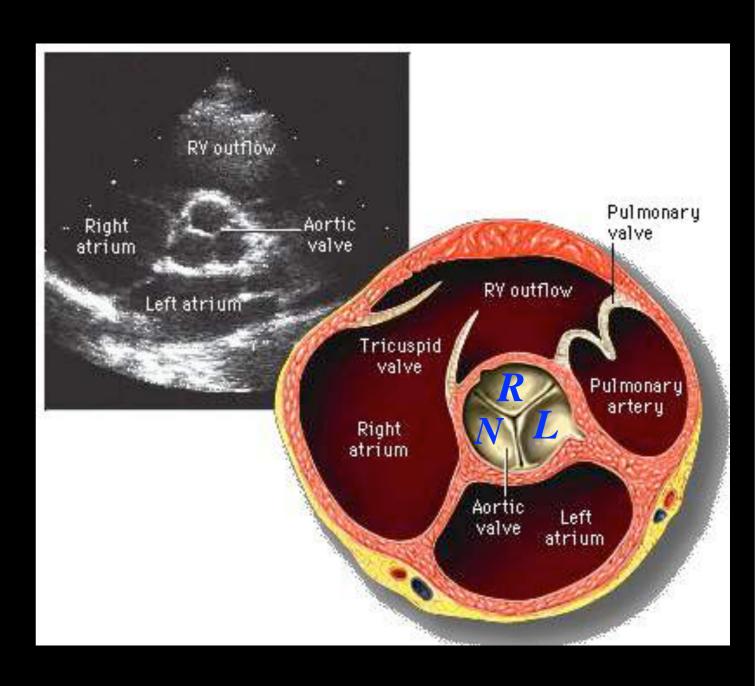
PSAX: Aortic Valve Short Axis View





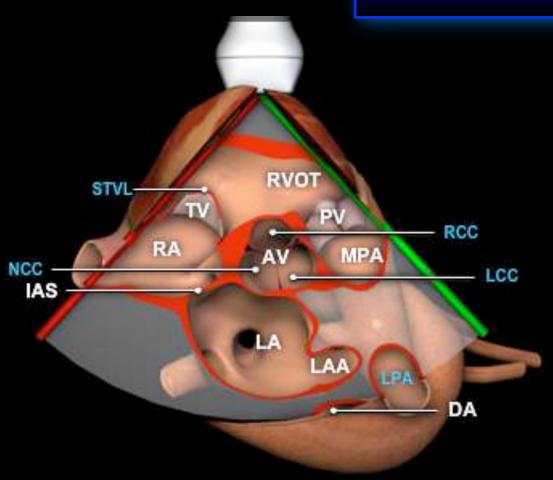
PSAX: Aortic Valve Short Axis View





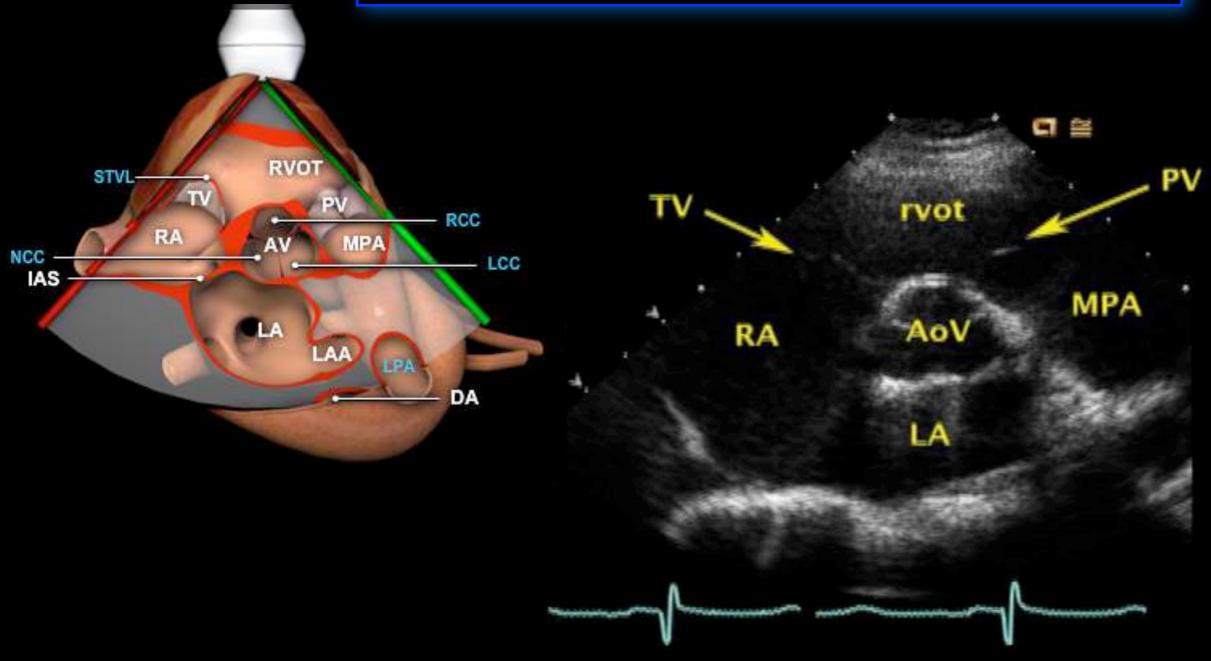
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PSAX: Aortic Valve Short Axis View



PSAX: Aortic Valve Short Axis View RVOT rvot RCC RA NCC LCC IAS MPA

PSAX: Aortic Valve Short Axis View



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Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **→** Mid-Papillary Short Axis View

≯Apical

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- **→** Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- > Mid-Papillary Short Axis View

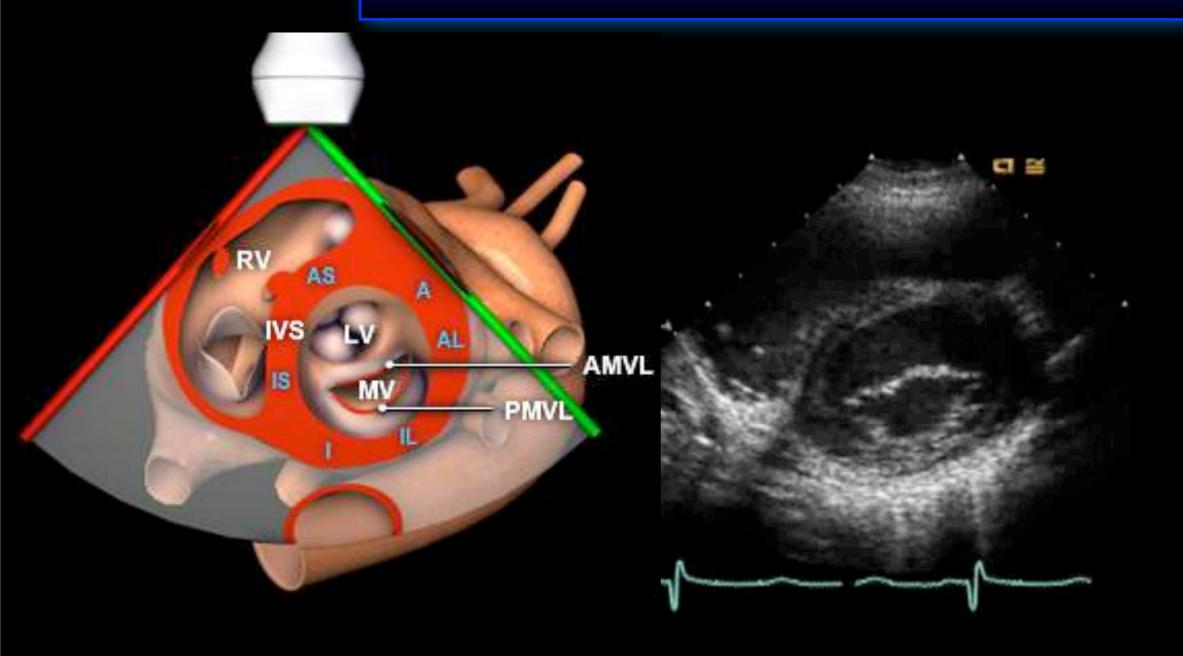
> <u>Apical</u>

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

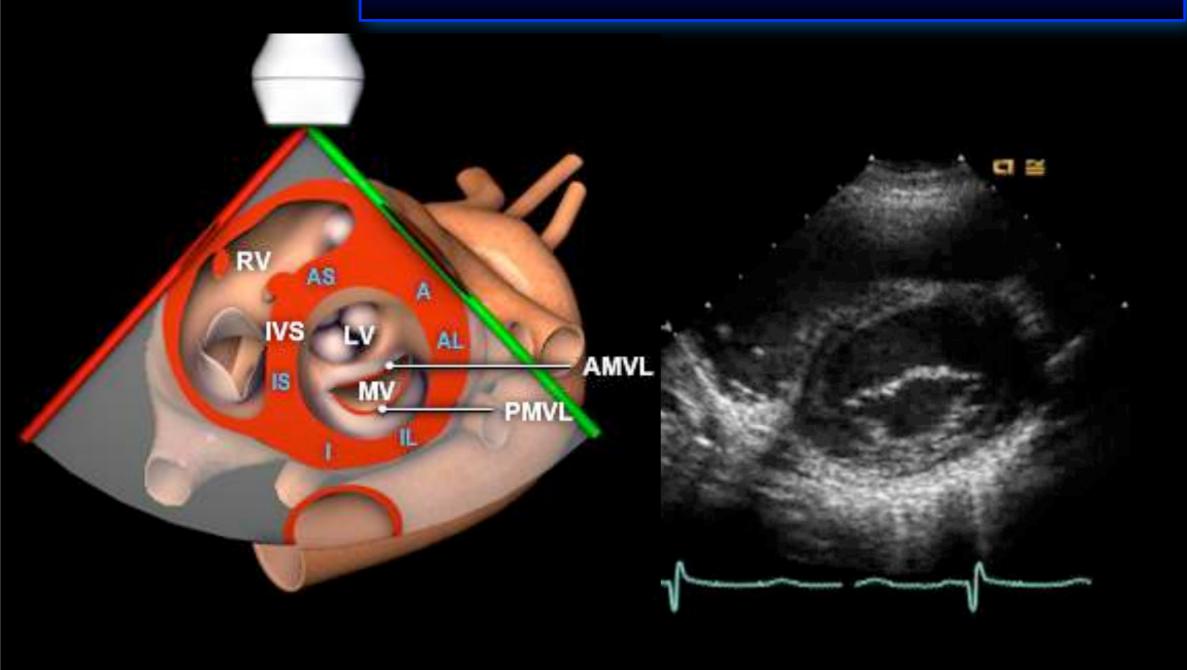
> Subcostal

- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal

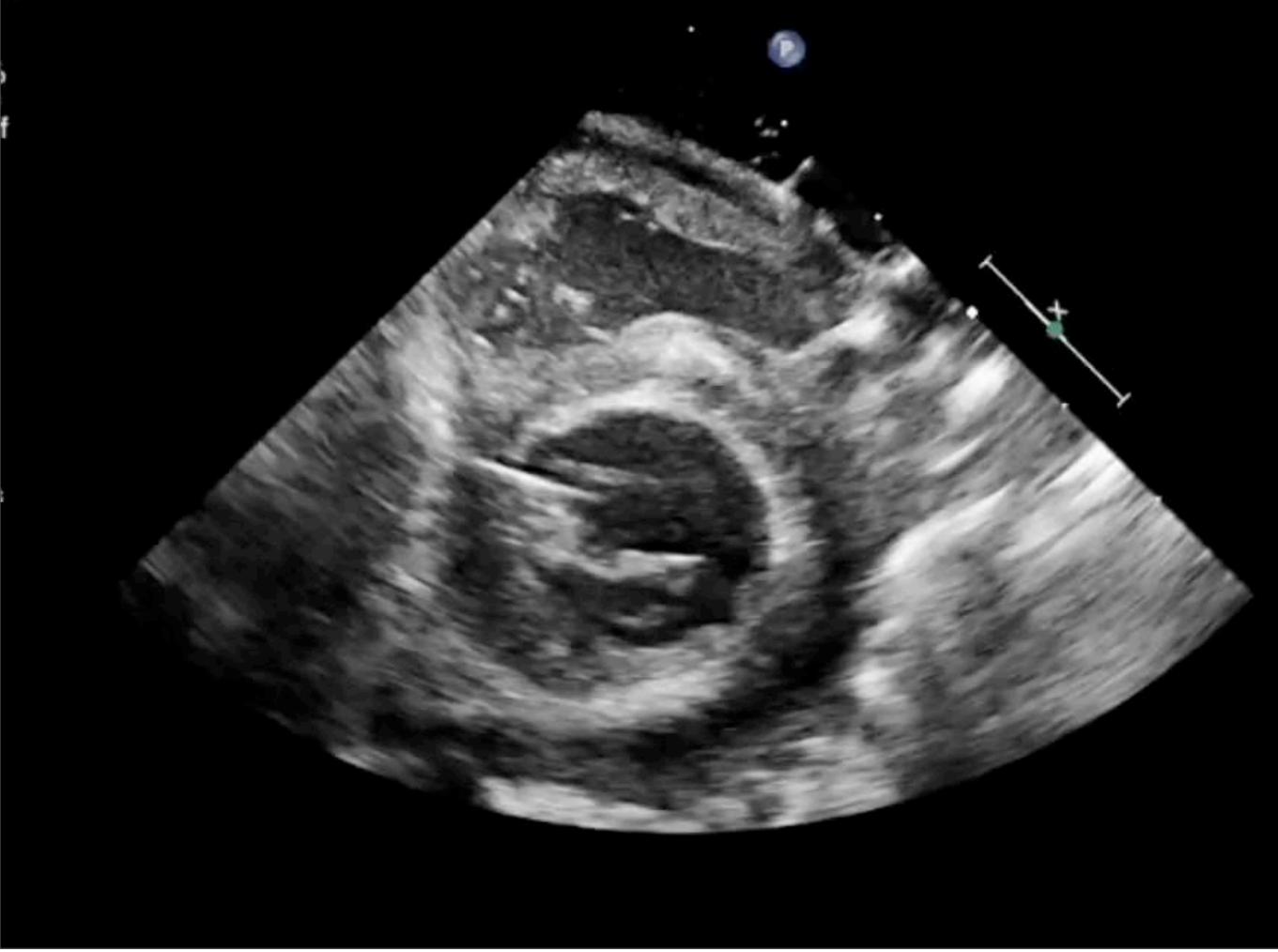
PSAX: Mitral Valve Short Axis View

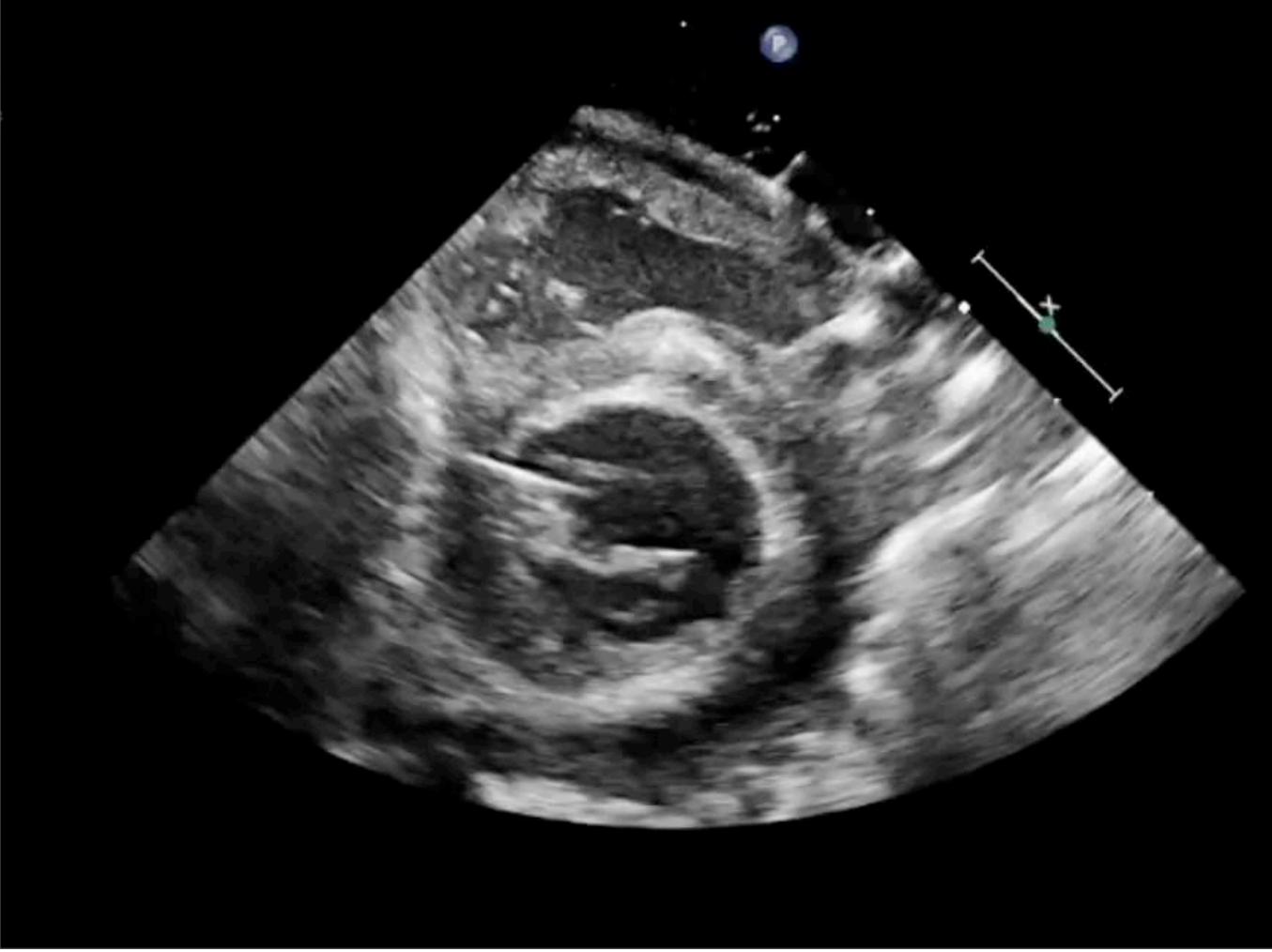


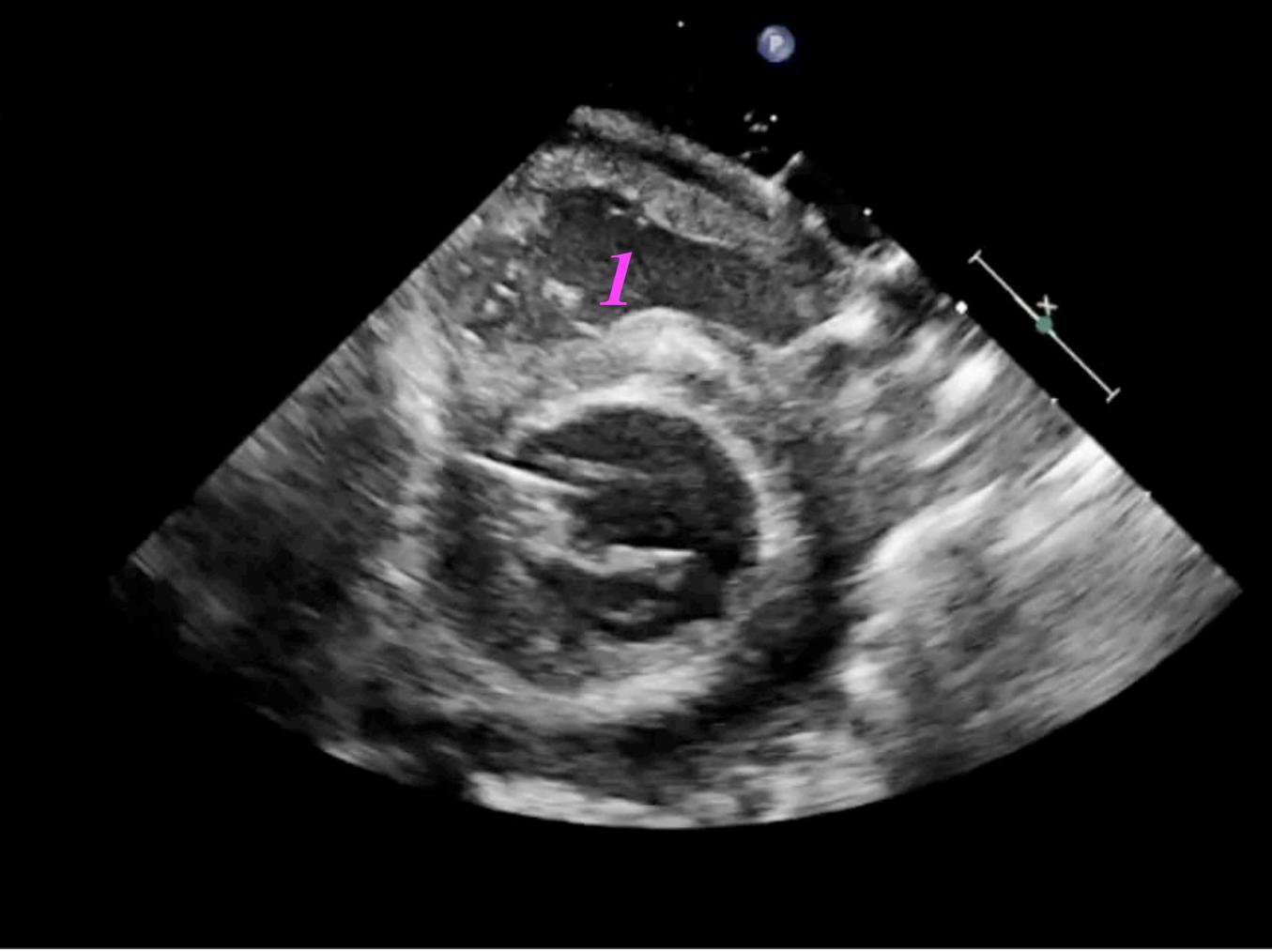
PSAX: Mitral Valve Short Axis View

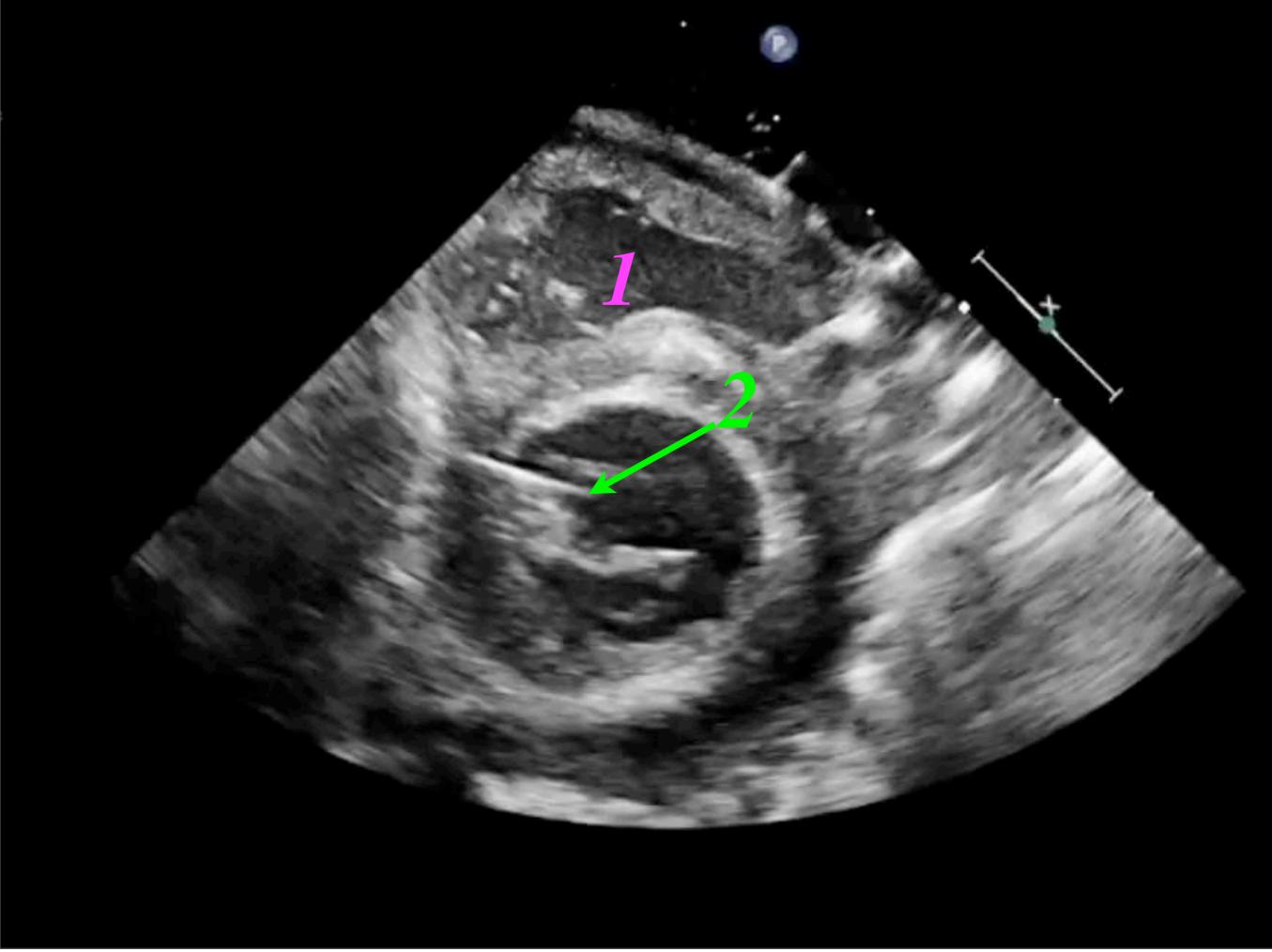


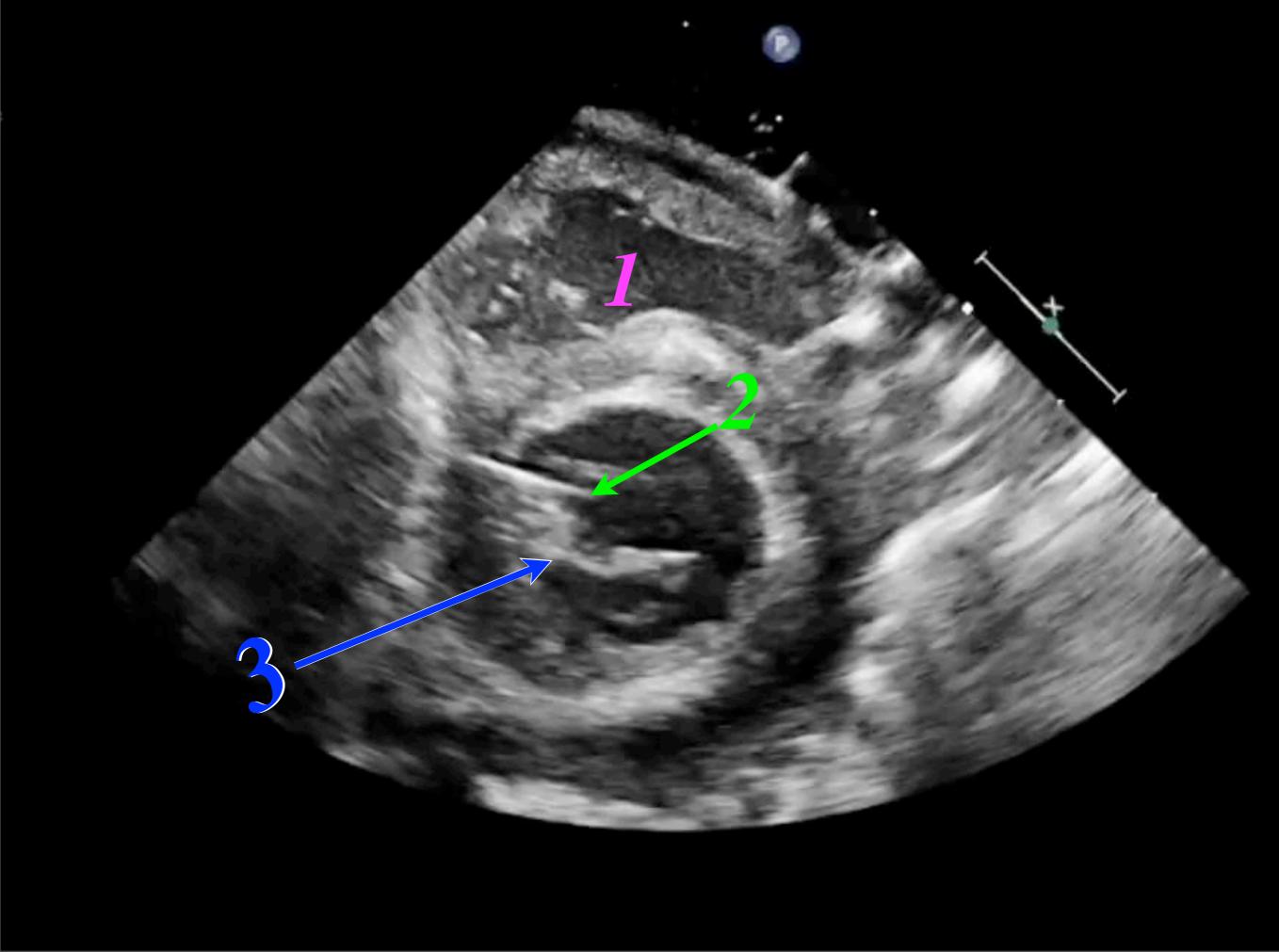
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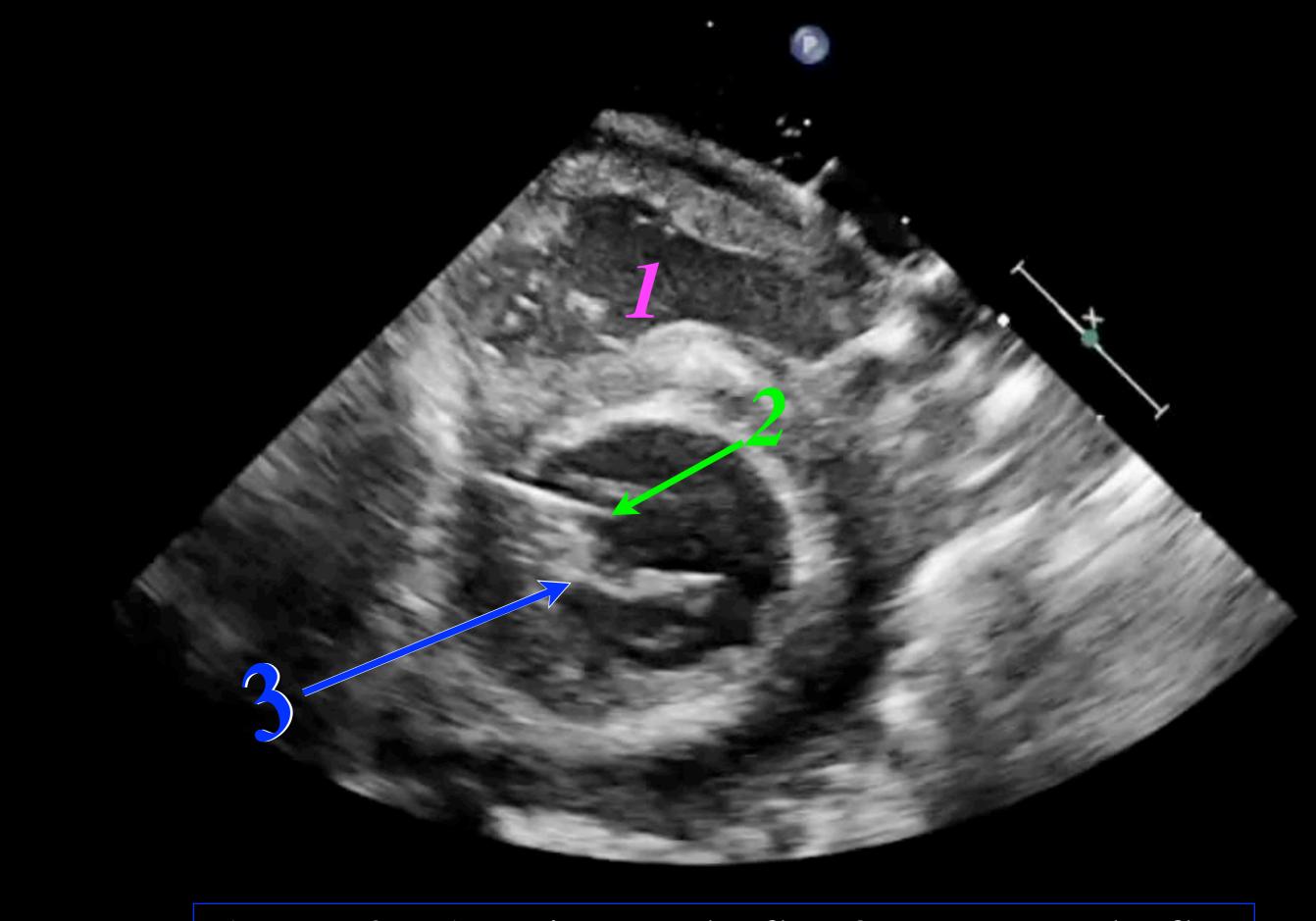












1= RV, 2 = Anterior MV leaflet, 3 = Post MV leaflet

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **→** Mid-Papillary Short Axis View

≯Apical

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- Mid-Papillary Short Axis View

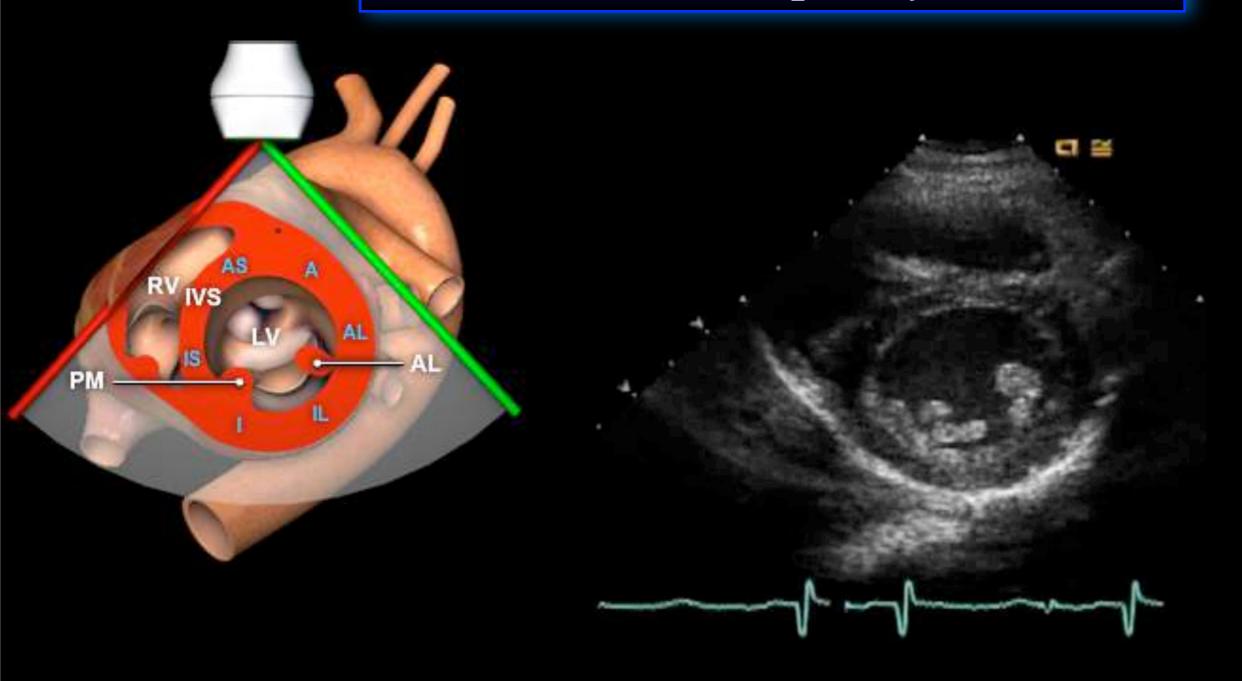
> <u>Apical</u>

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

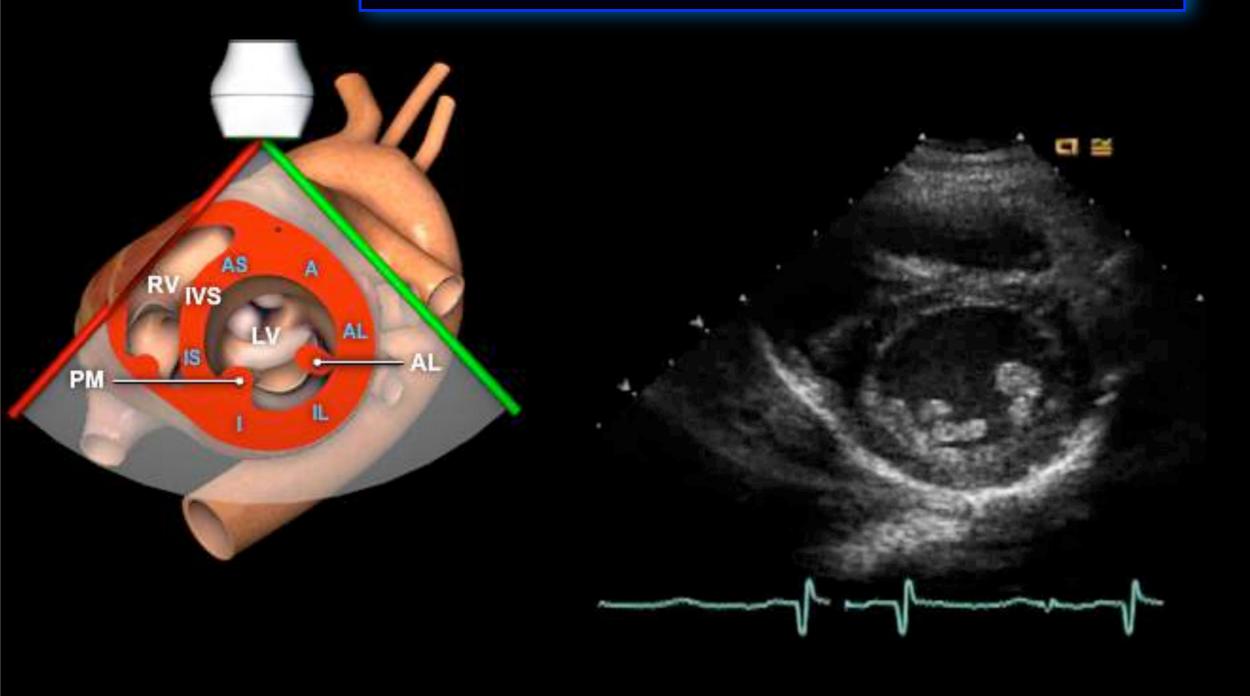
> <u>Subcostal</u>

- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal

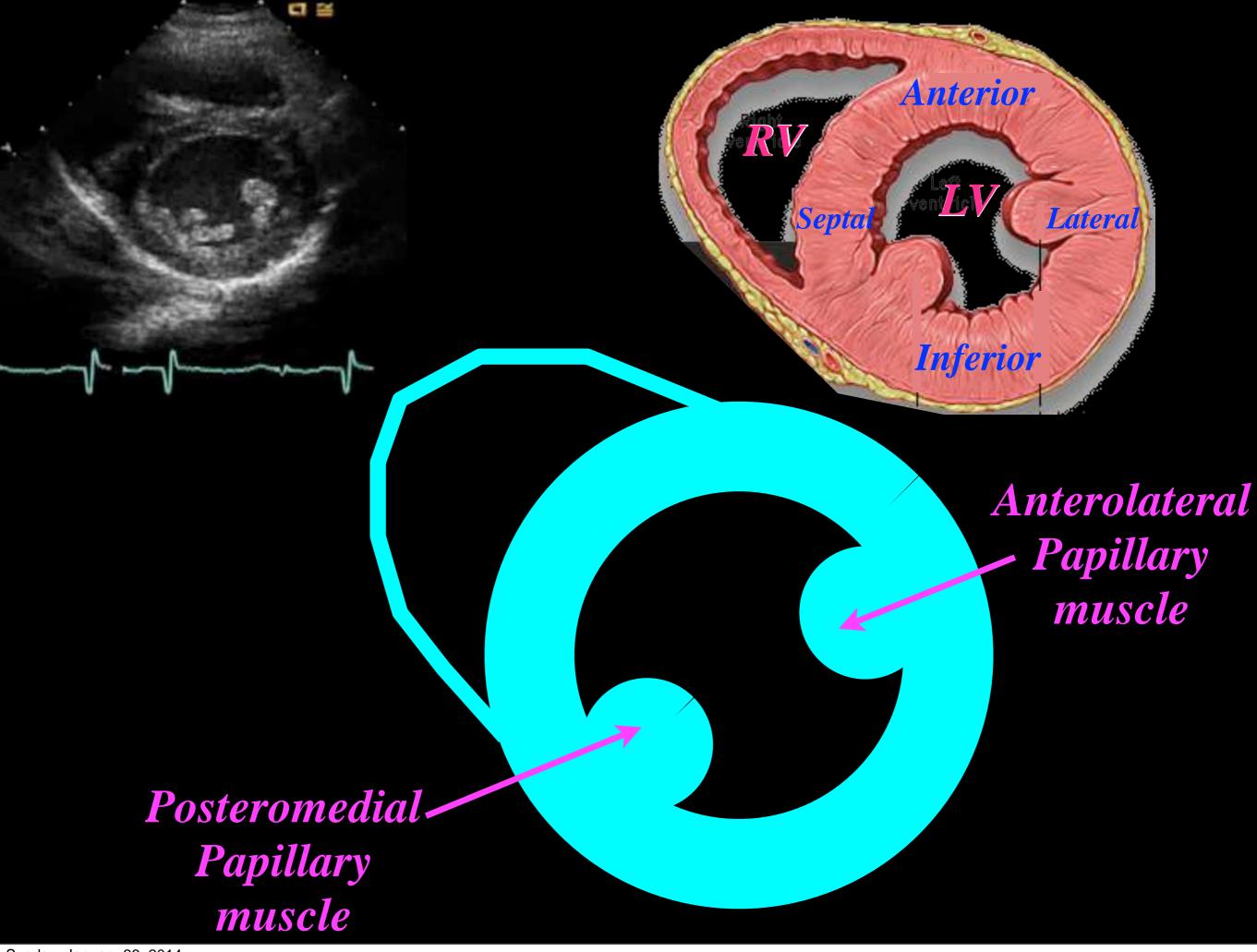
PSAX: Mid Papillary Level



PSAX: Mid Papillary Level



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Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

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- Mitral Valve Short Axis View
- **→** Mid-Papillary Short Axis View

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Parasternal Short Axis

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- **≯** Mid-Papillary Short Axis View

* Apical

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- Five Chamber View
- Two Chamber View
- Apical Long Axis View

- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal





- 1. http://pie.med.utoronto.ca/TTE/TTE_content/standardViews.html#quickstart
- 2. Echocardiography in Pediatric and Congenital Heart Disease From Fetus to Adult EDITED BY: Wyman W. Lai, MD, MPH, Luc L. Mertens, MD, PhD, Meryl S. Cohen, MD, Tal Geva, MD

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **→** Mid-Papillary Short Axis View

≯Apical

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- Five Chamber View
- Two Chamber View
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- Four Chamber View
- Short Axis View
- >IVC Long Axis View
- > Suprasternal

Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

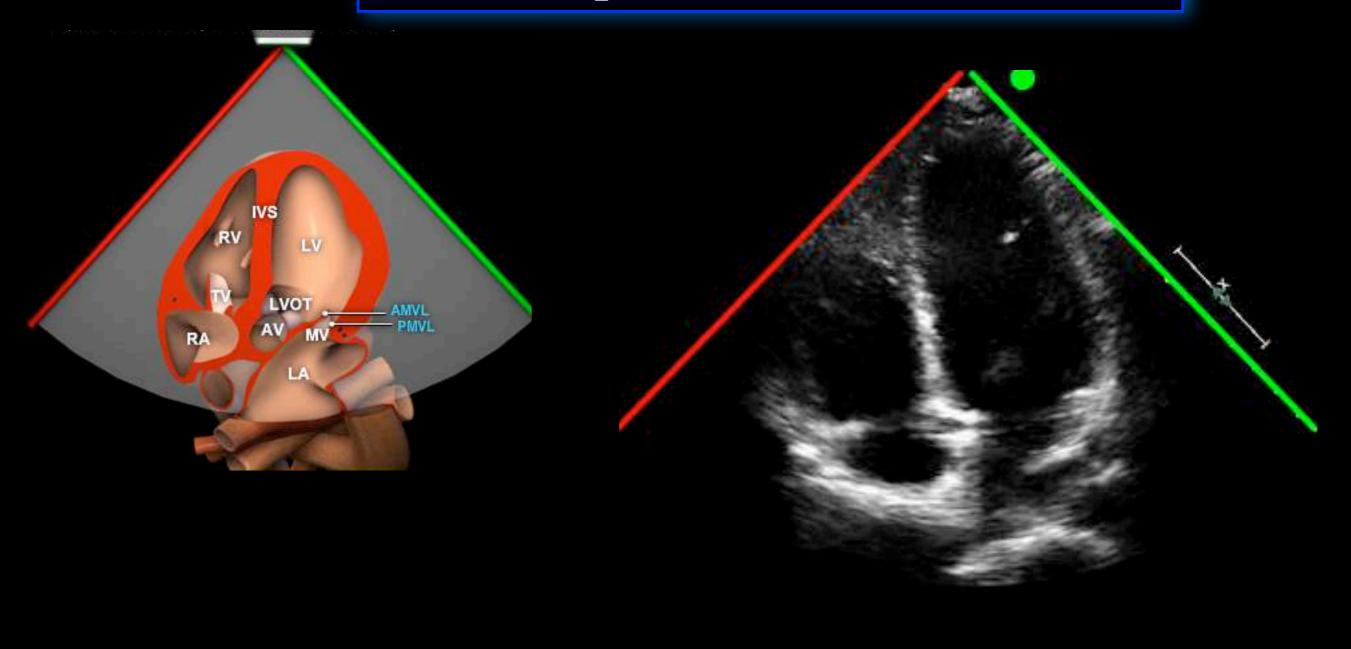
- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- **≯** Mid-Papillary Short Axis View

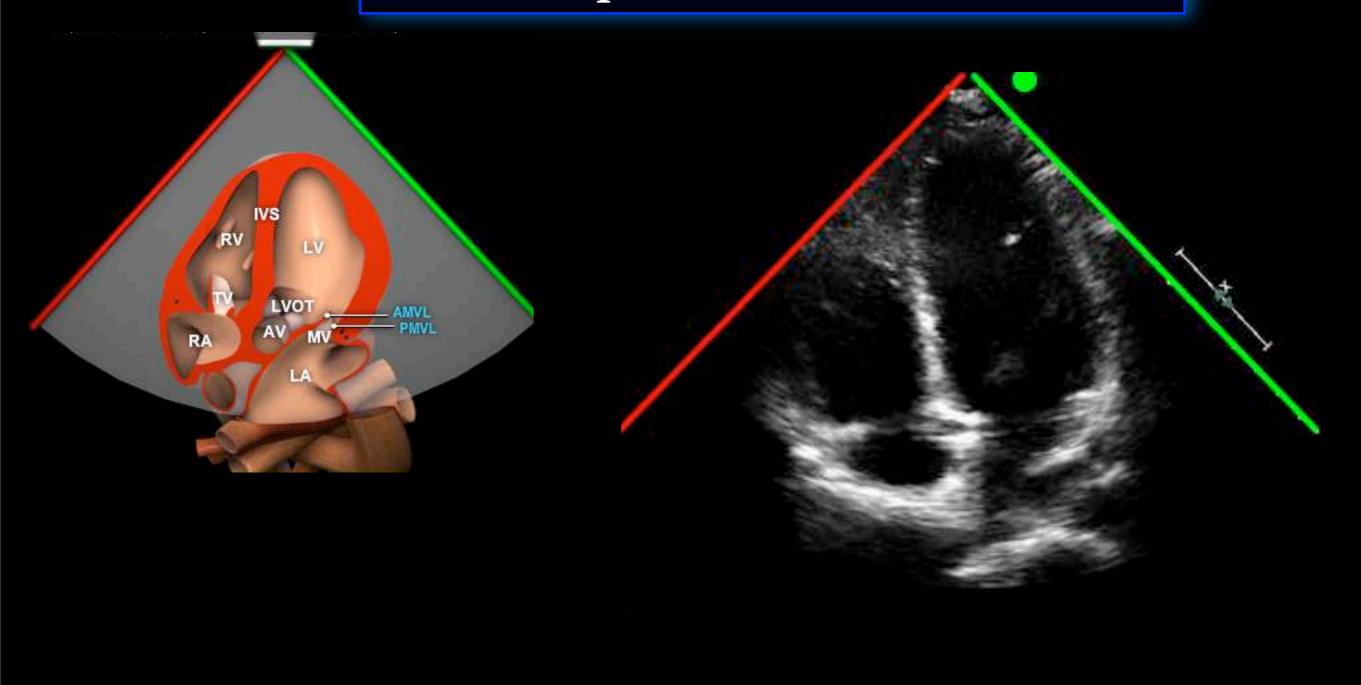
* Apical

- Four Chamber View
- Five Chamber View
- Two Chamber View
- Apical Long Axis View

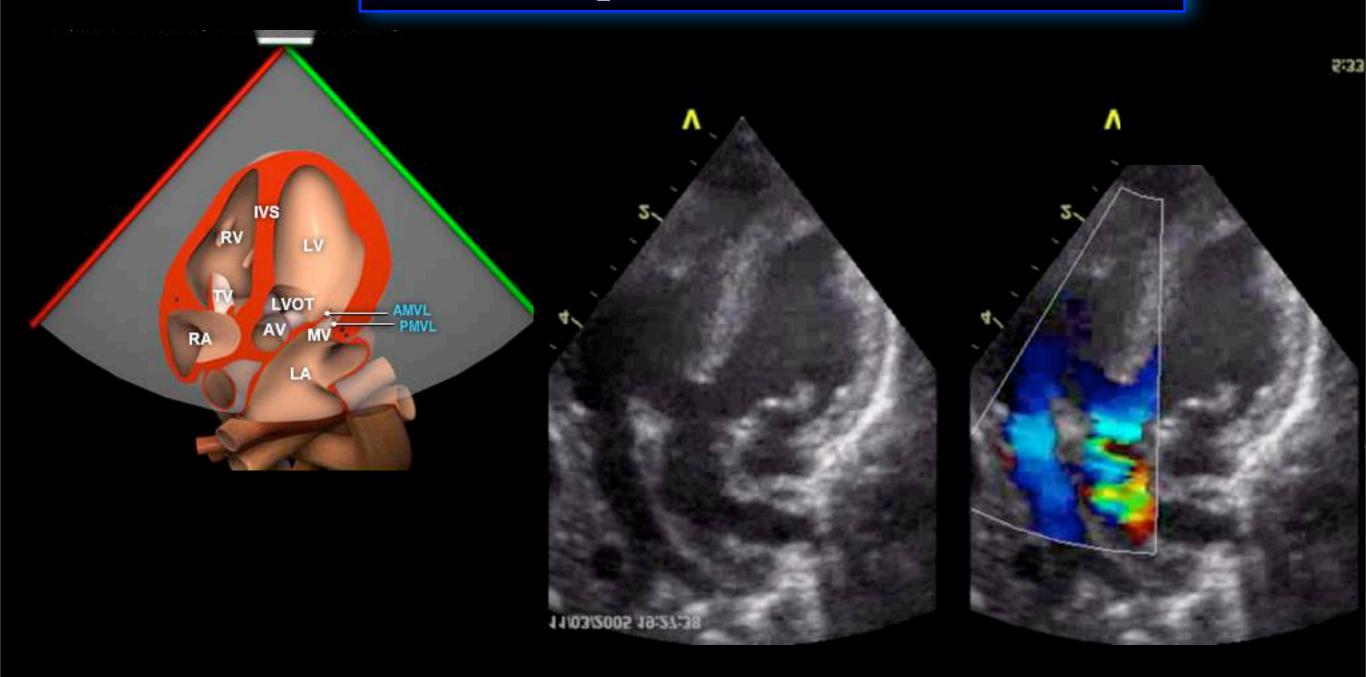
> Subcostal

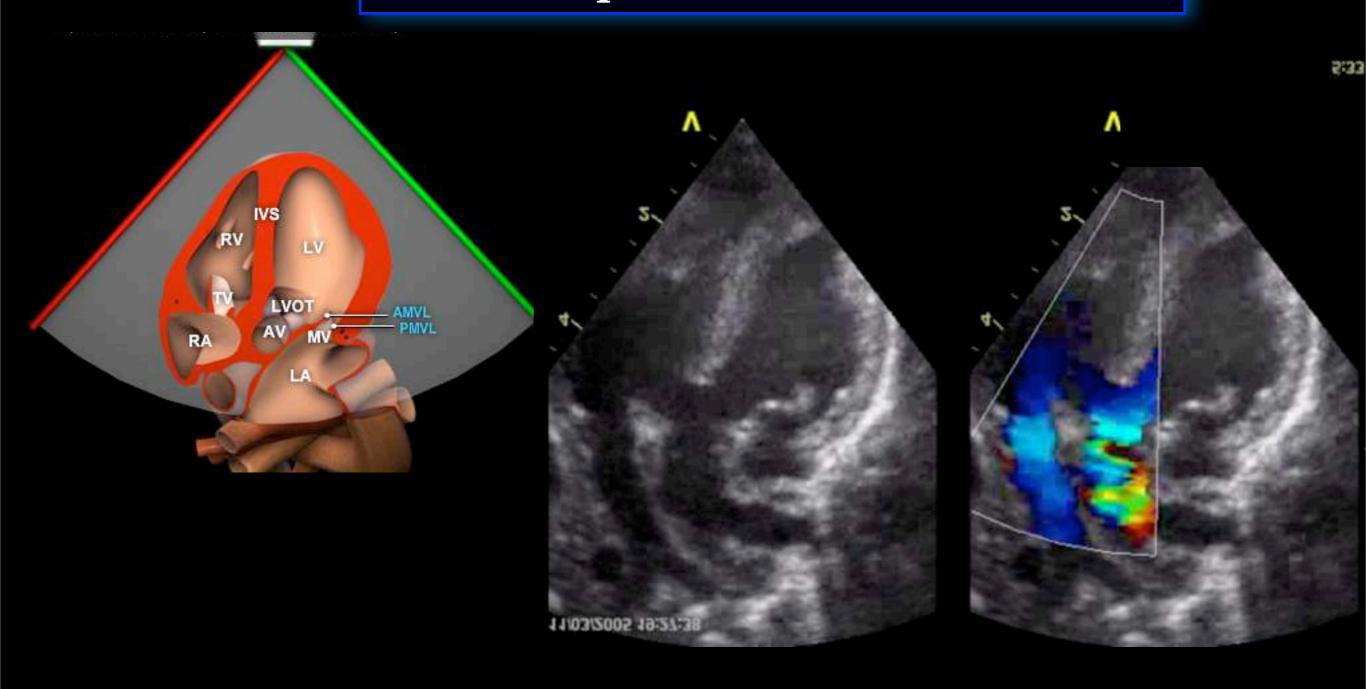
- Four Chamber View
- Short Axis View
- >IVC Long Axis View
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Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

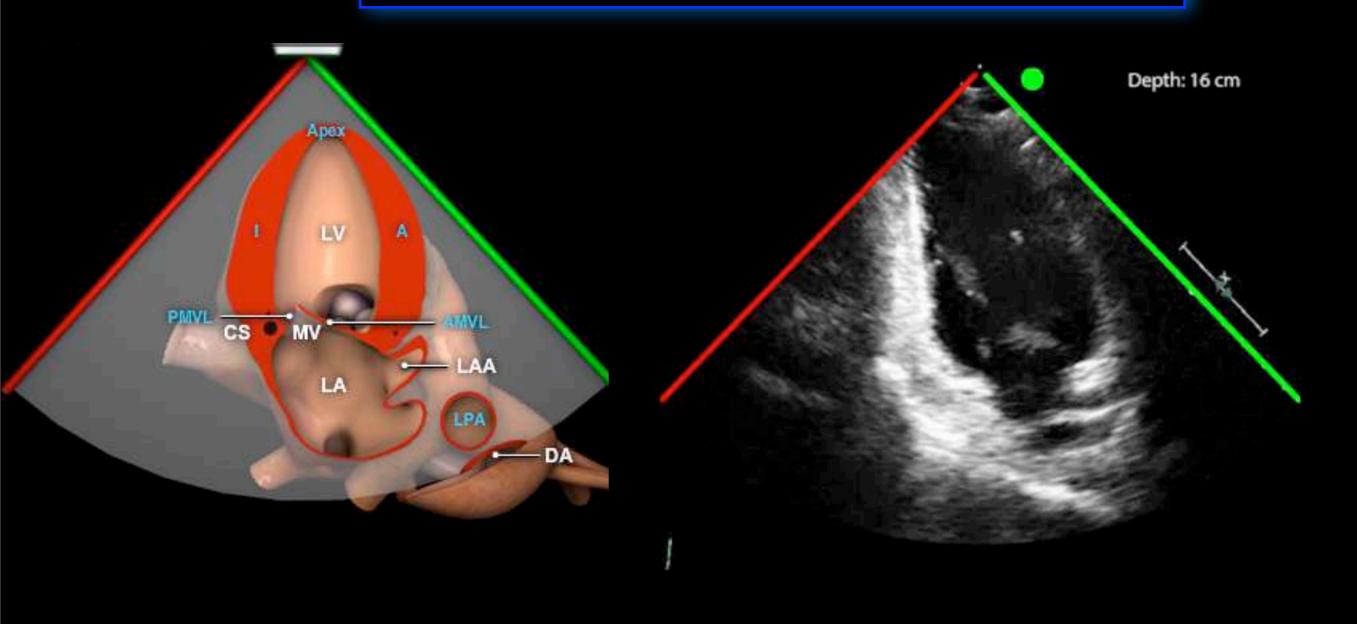
Parasternal Short Axis

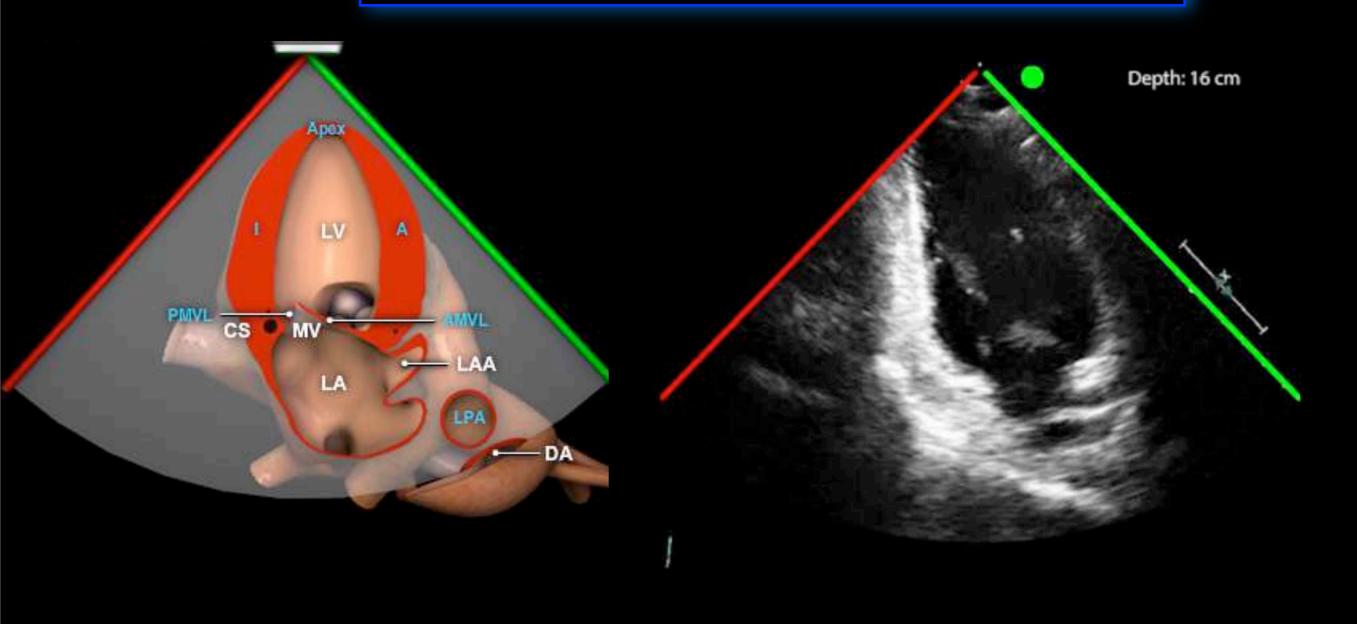
- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
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Parasternal Long Axis

- Parasternal Long-Axis View
- >RV Inflow View
- RV Outflow View

Parasternal Short Axis

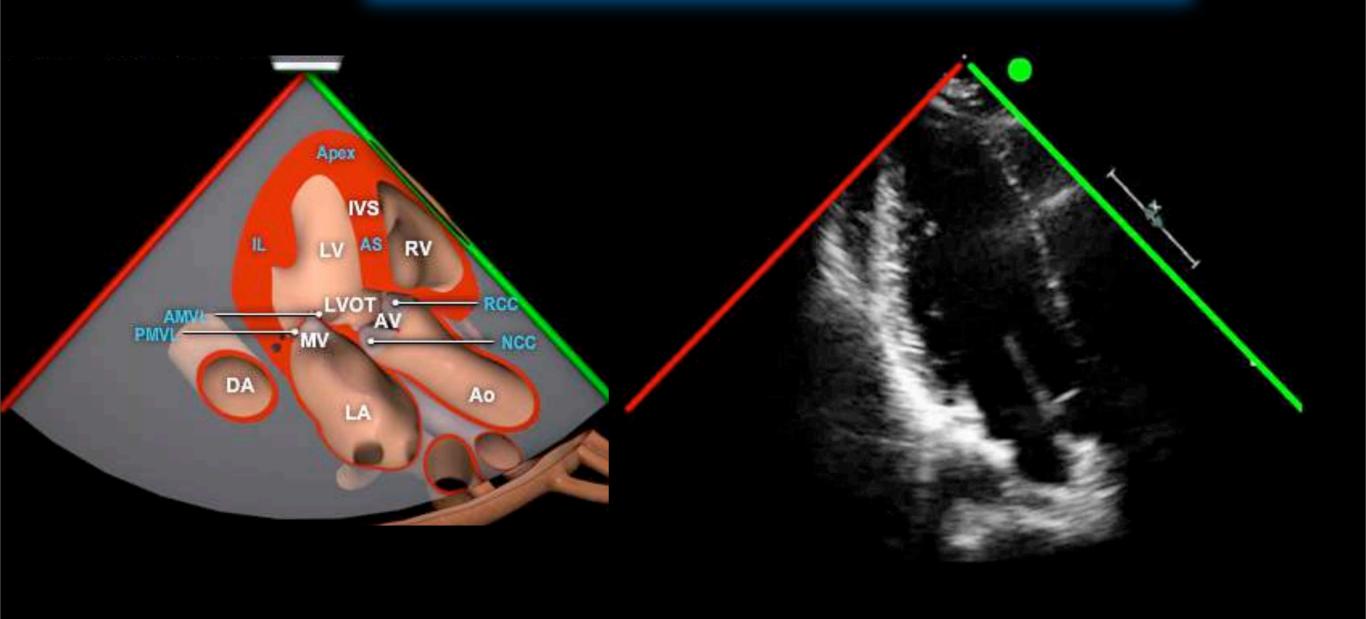
- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- Mid-Papillary Short Axis View

<u> Apical</u>

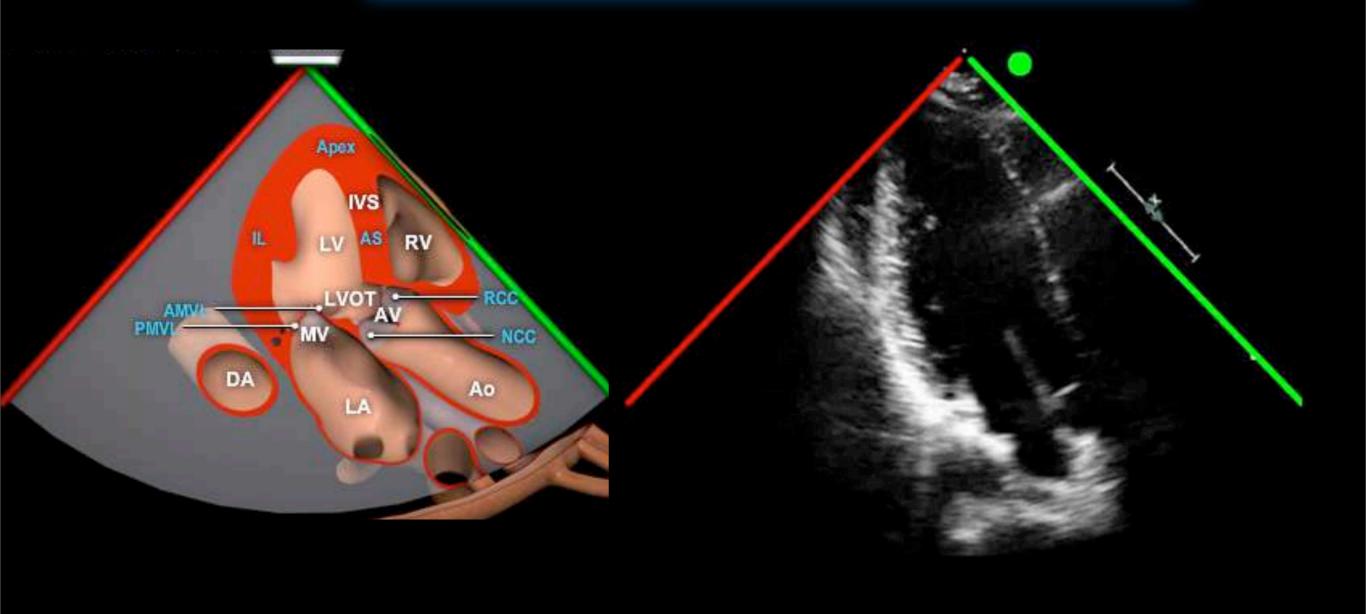
- Four Chamber View
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Apical: Long Axis



Apical: Long Axis



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- RV Outflow View

Parasternal Short Axis

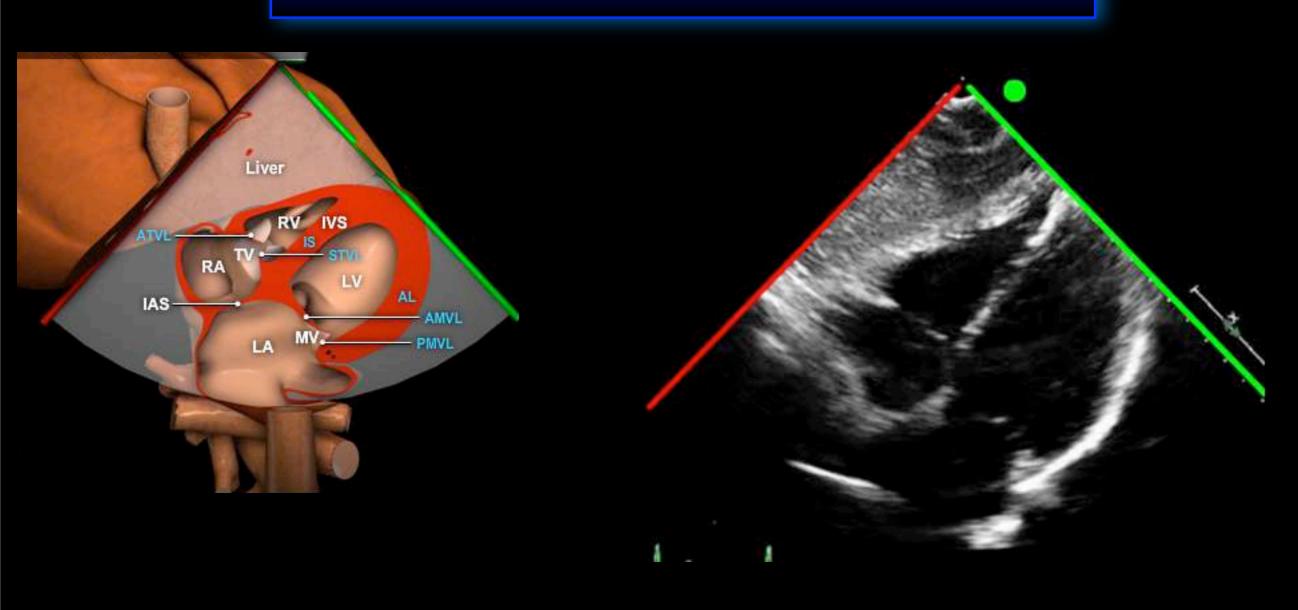
- Aortic Valve Short Axis View
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- **≯** Mid-Papillary Short Axis View

> <u>Apical</u>

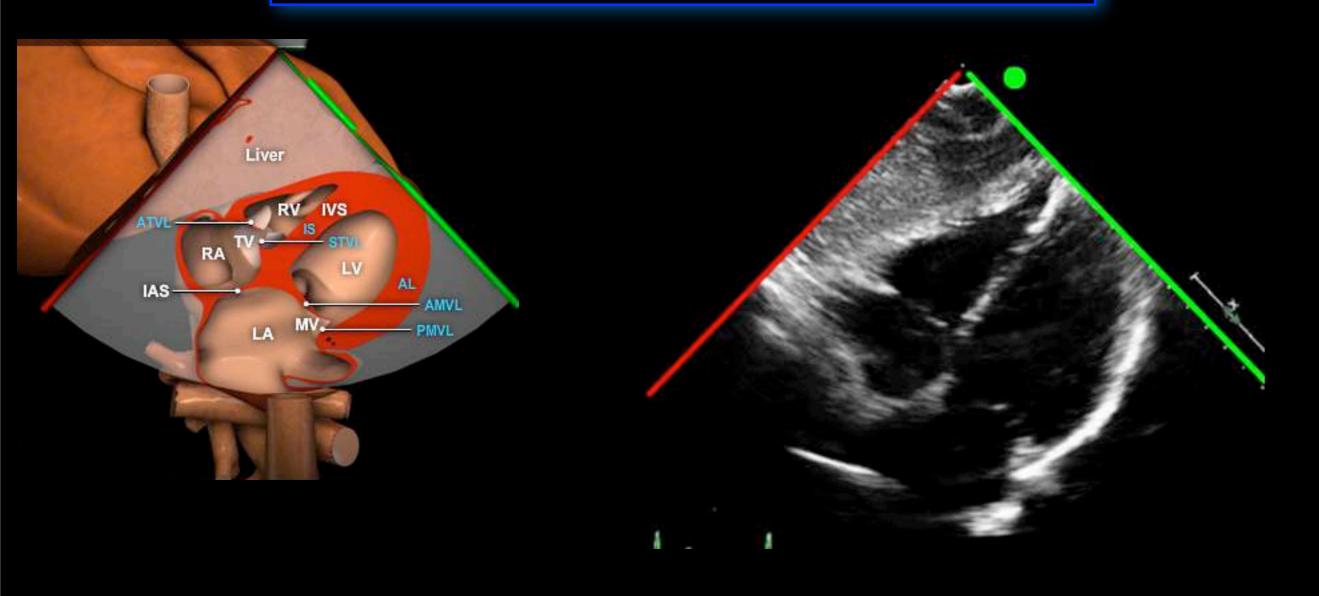
- Four Chamber View
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Subcostal: 4 Chamber



Subcostal: 4 Chamber



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Parasternal Long Axis

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- RV Outflow View

Parasternal Short Axis

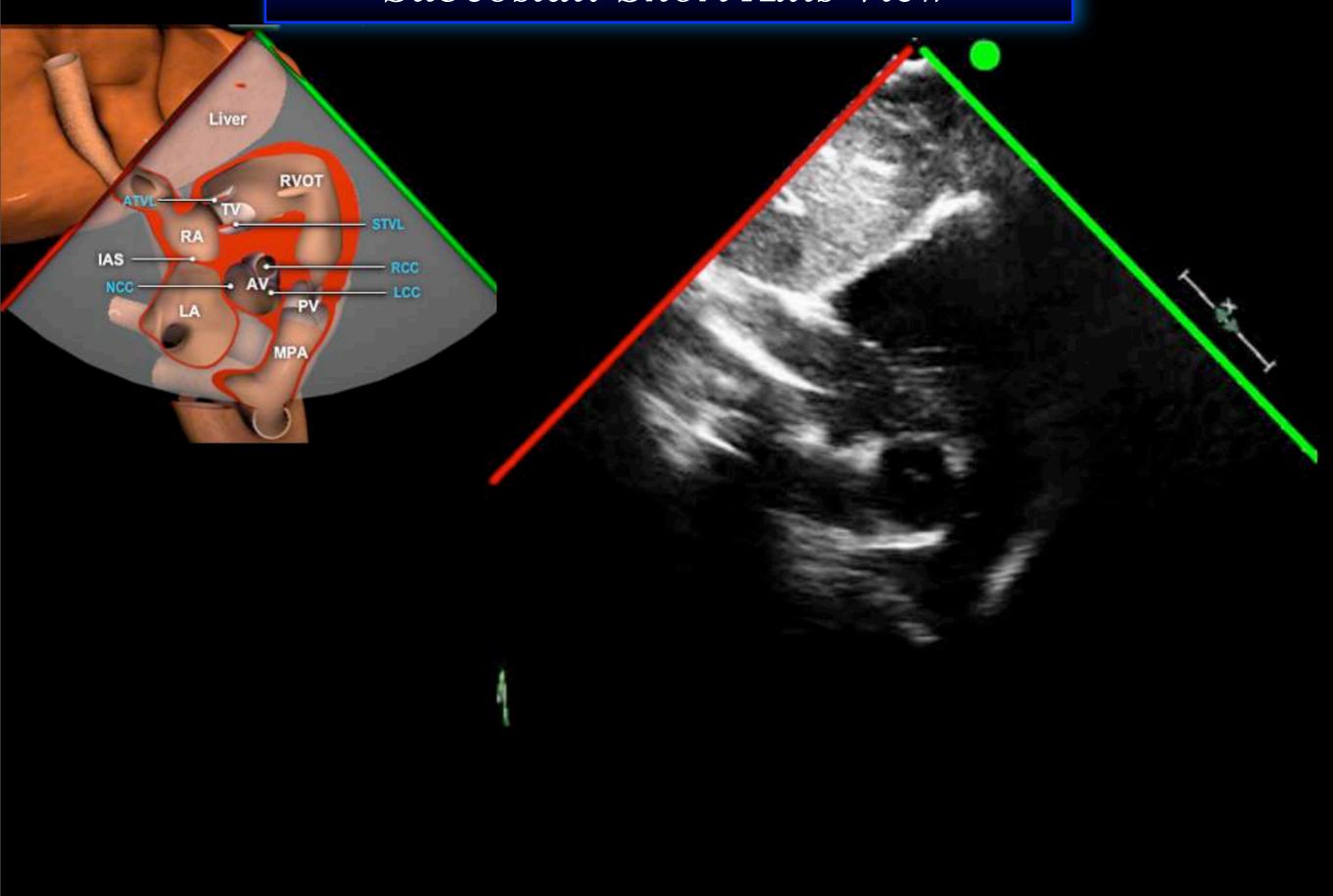
- Aortic Valve Short Axis View
- Mitral Valve Short Axis View
- Mid-Papillary Short Axis View

≯Apical

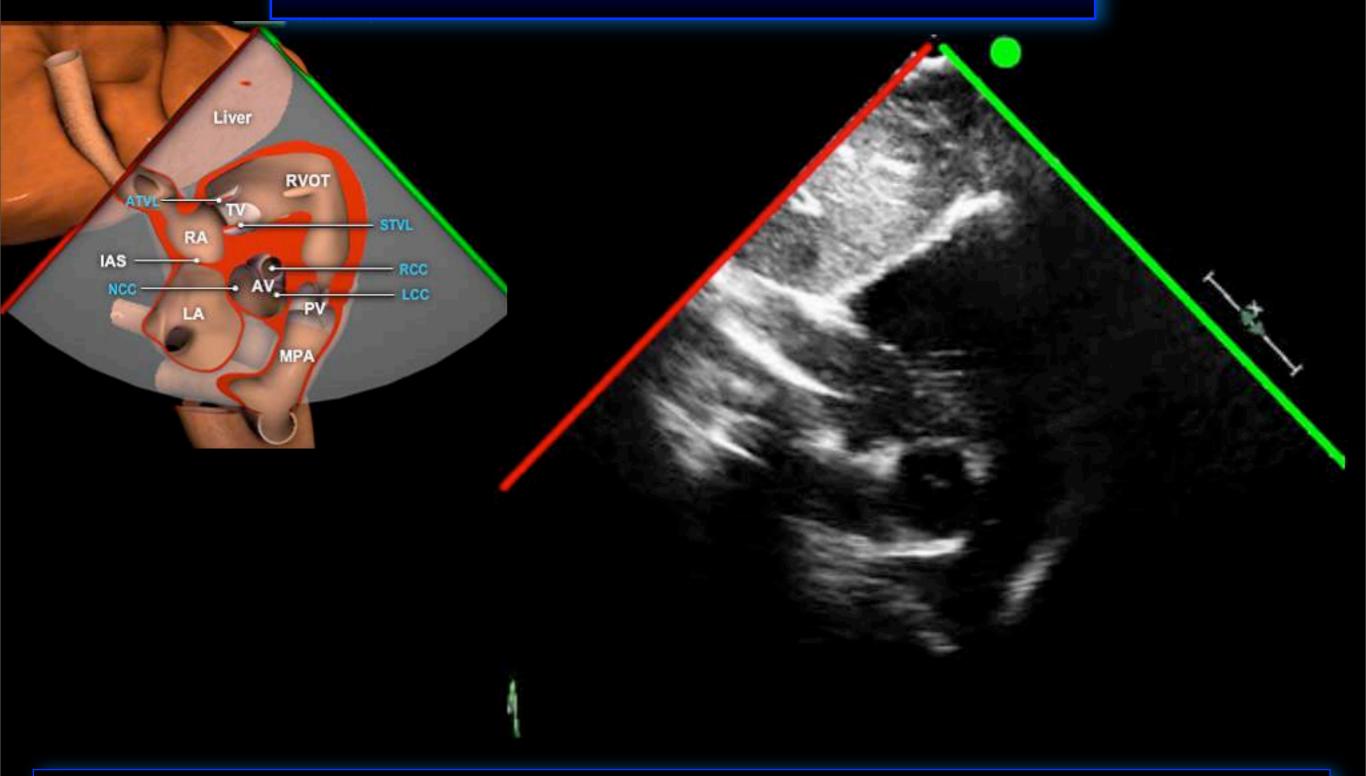
- Four Chamber View
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Subcostal: Short Axis View



Subcostal: Short Axis View



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- RV Outflow View

Parasternal Short Axis

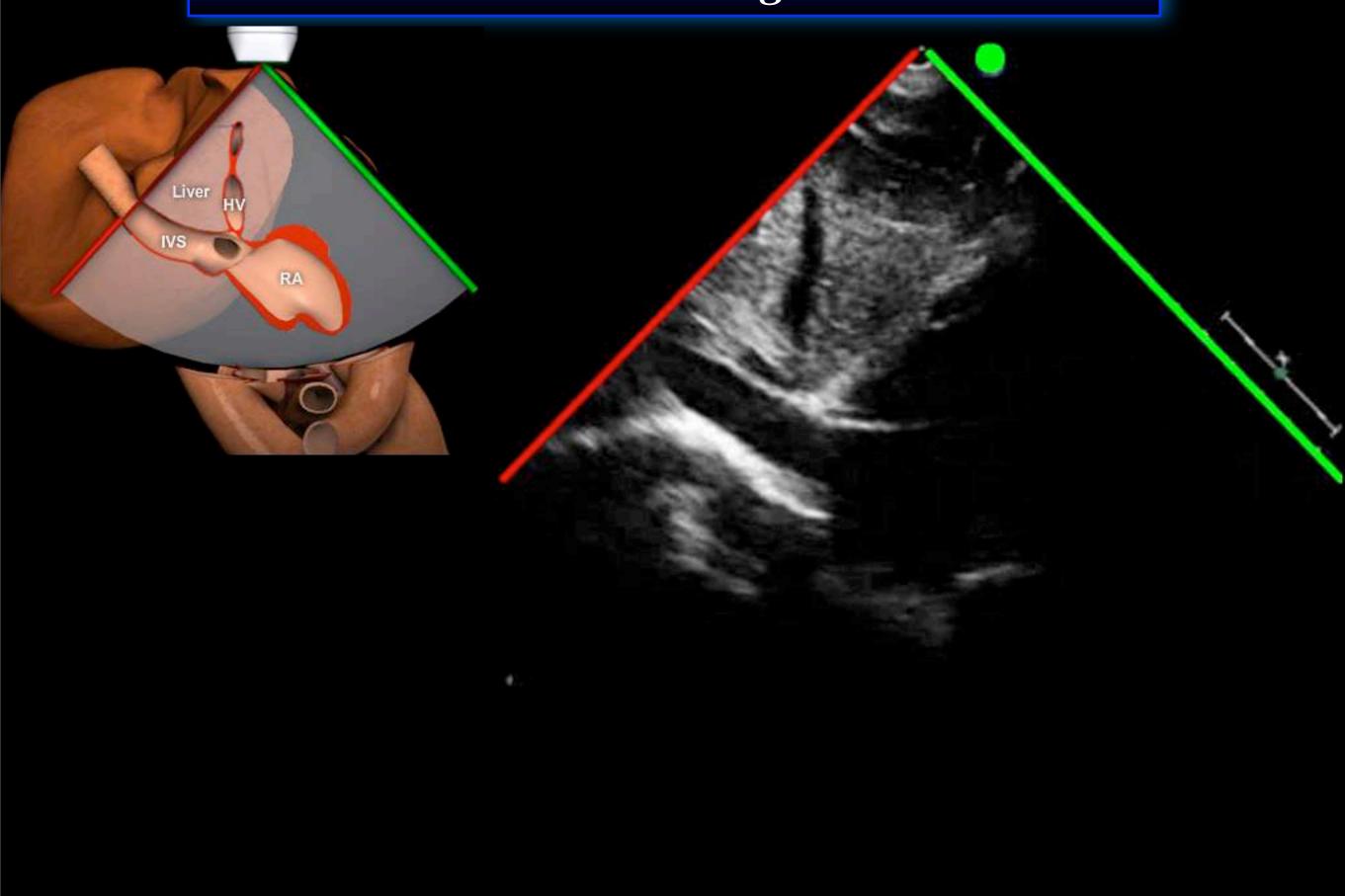
- Aortic Valve Short Axis View
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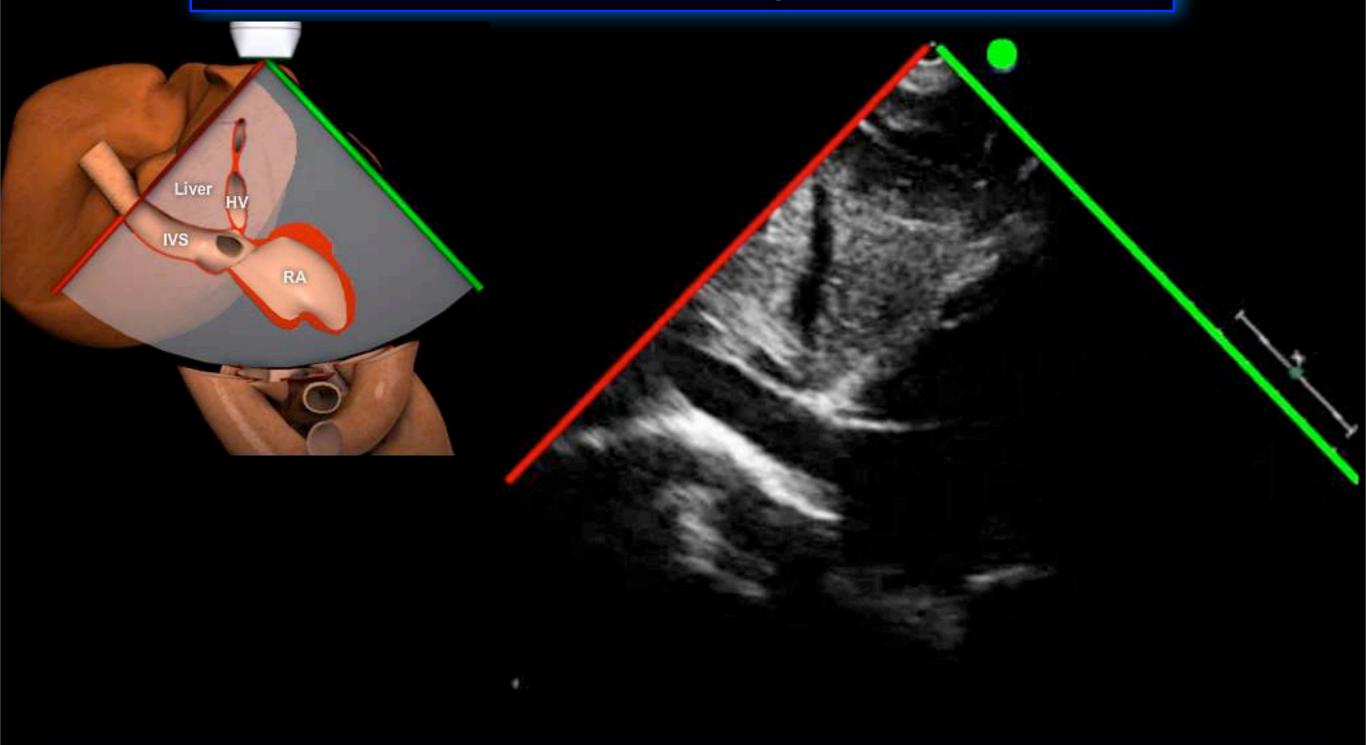
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Subcostal: IVC Long Axis View



Subcostal: IVC Long Axis View



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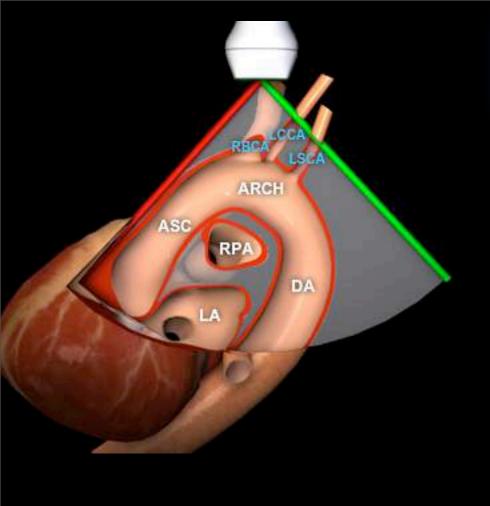
Parasternal Short Axis

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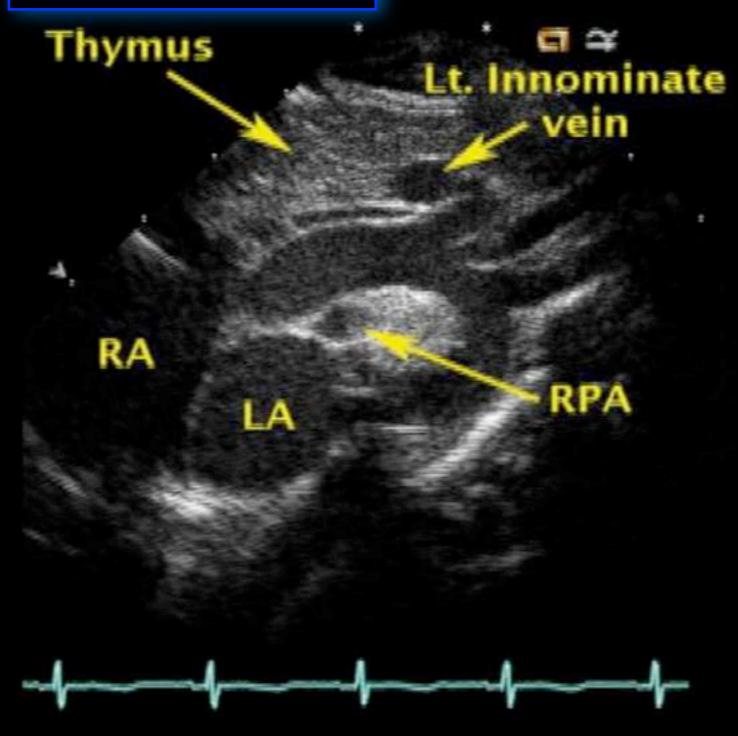
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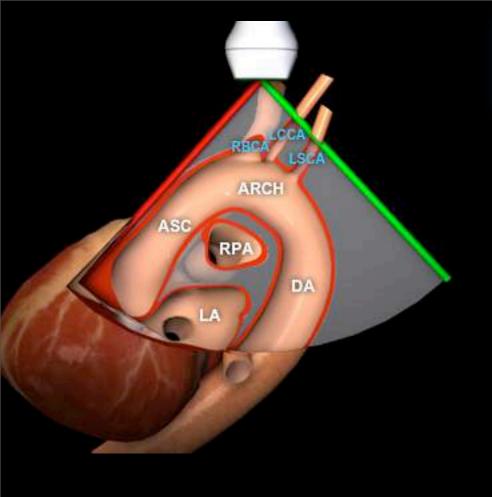
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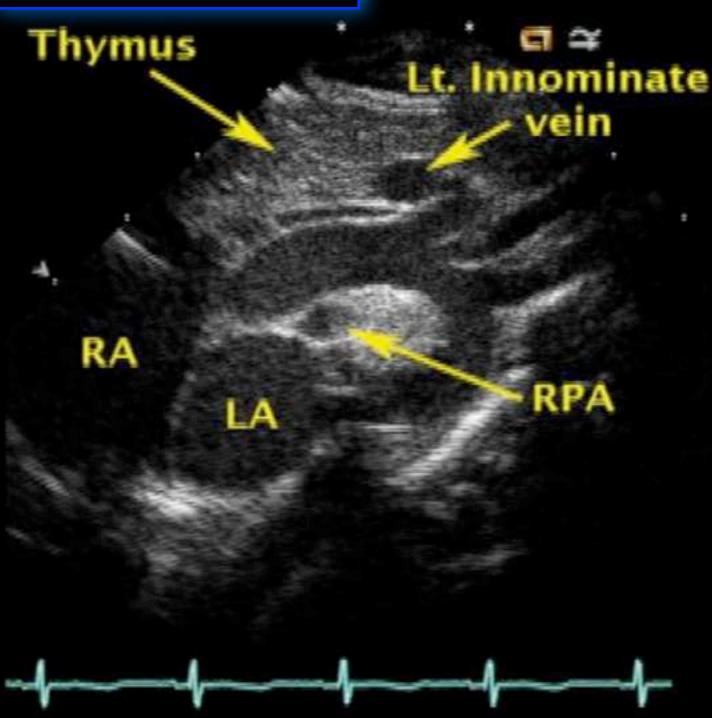


Suprasternal

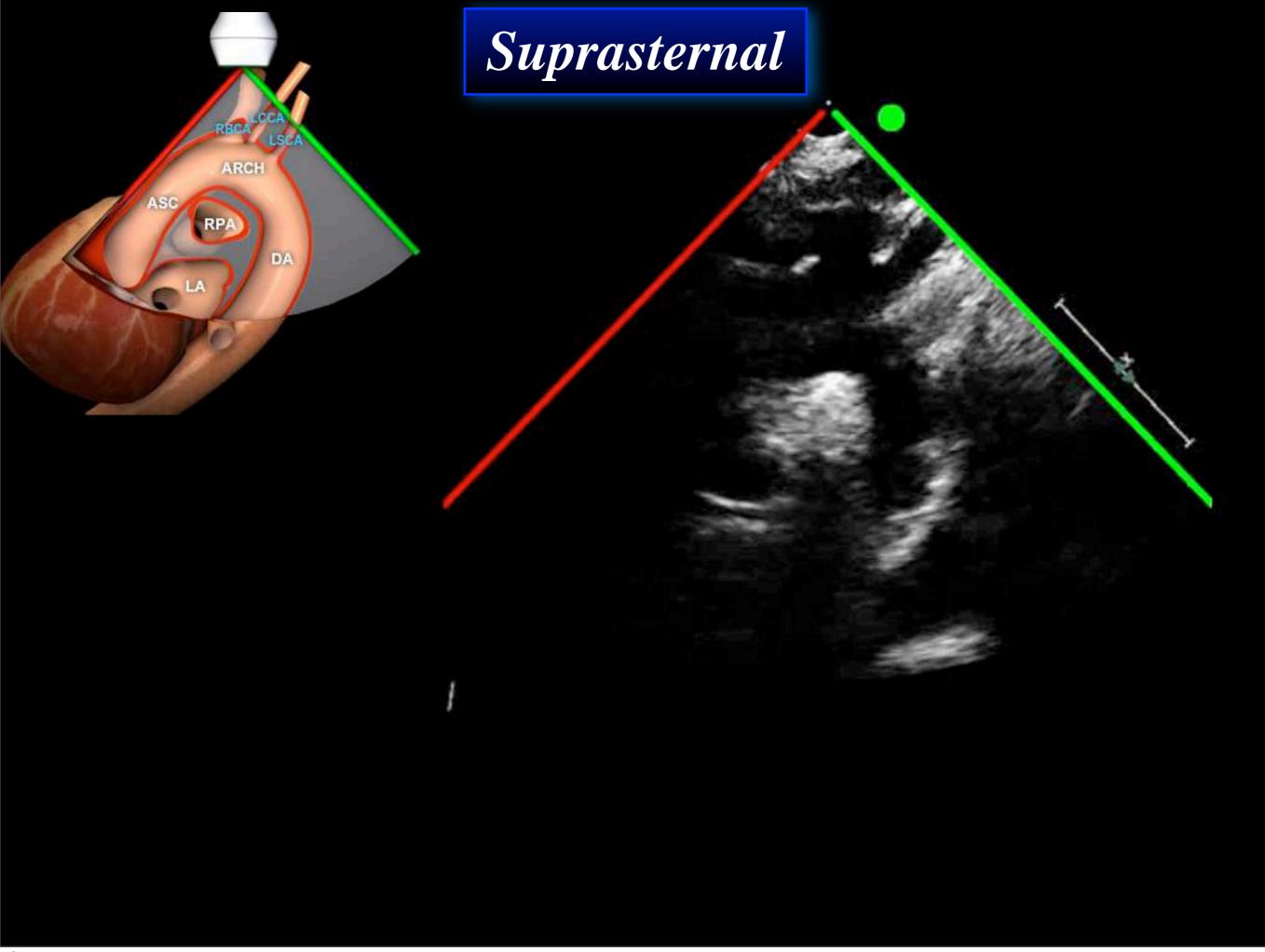


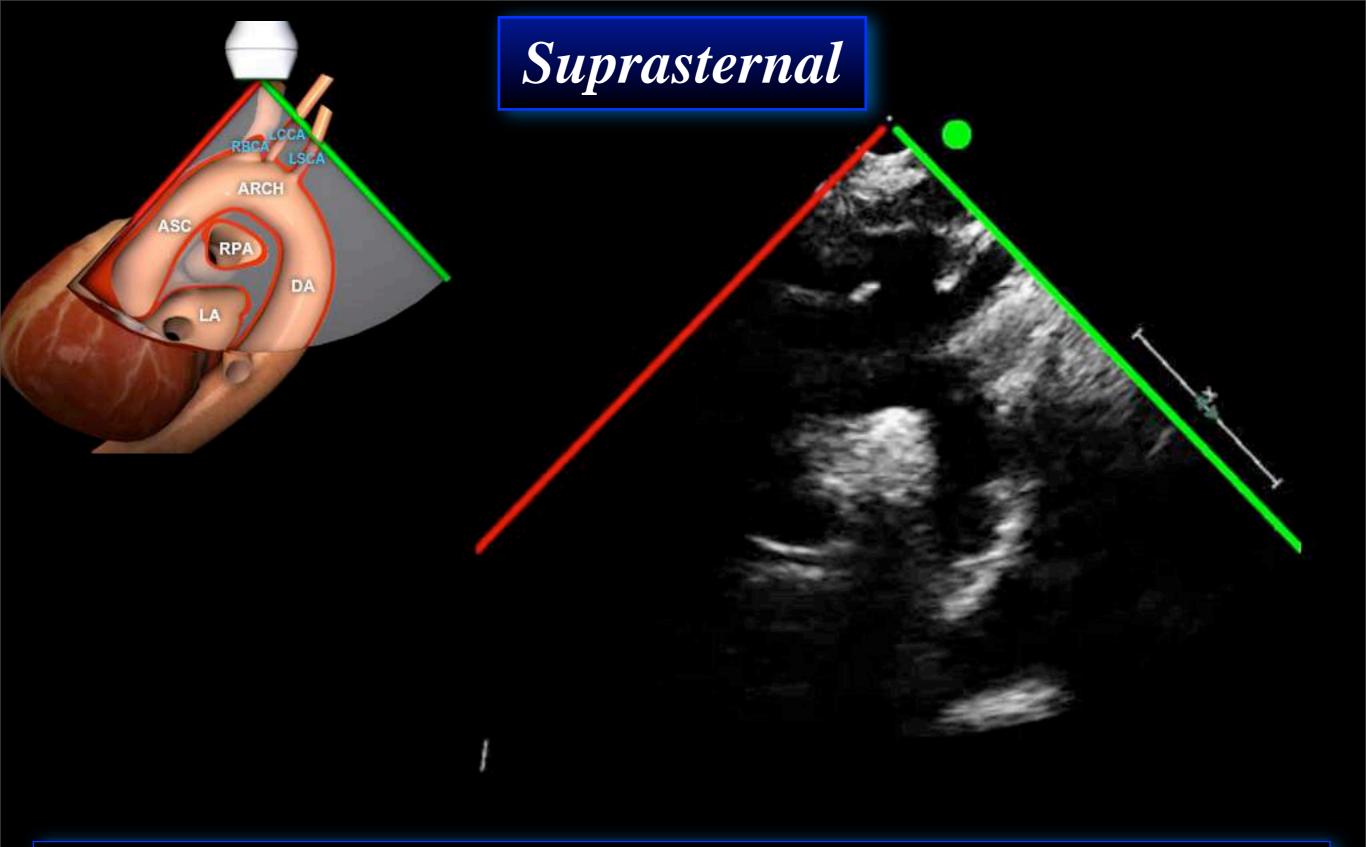






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Thanks & Good Luck!

Tburch333@yahoo.com