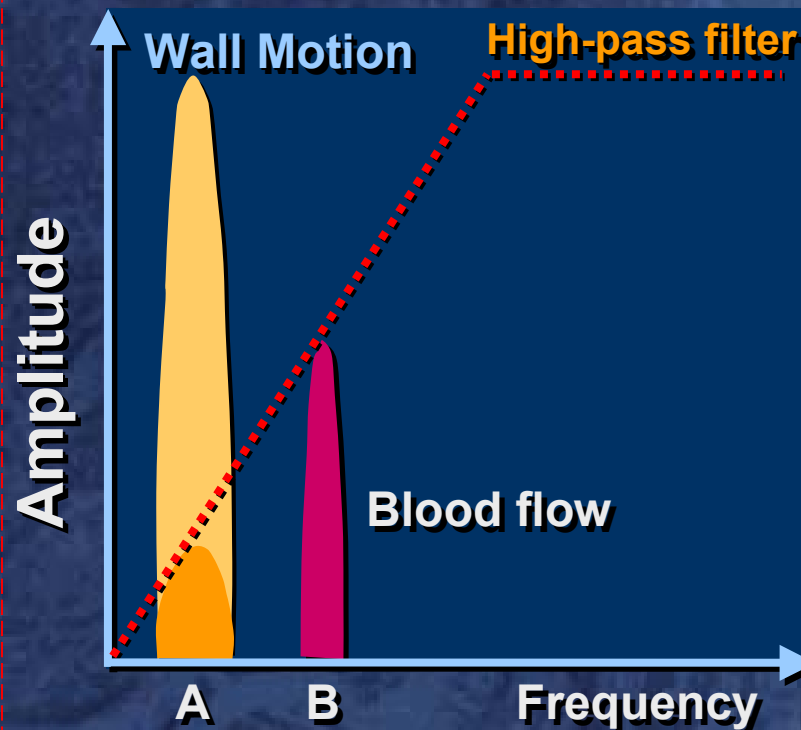


Element 70.00AP

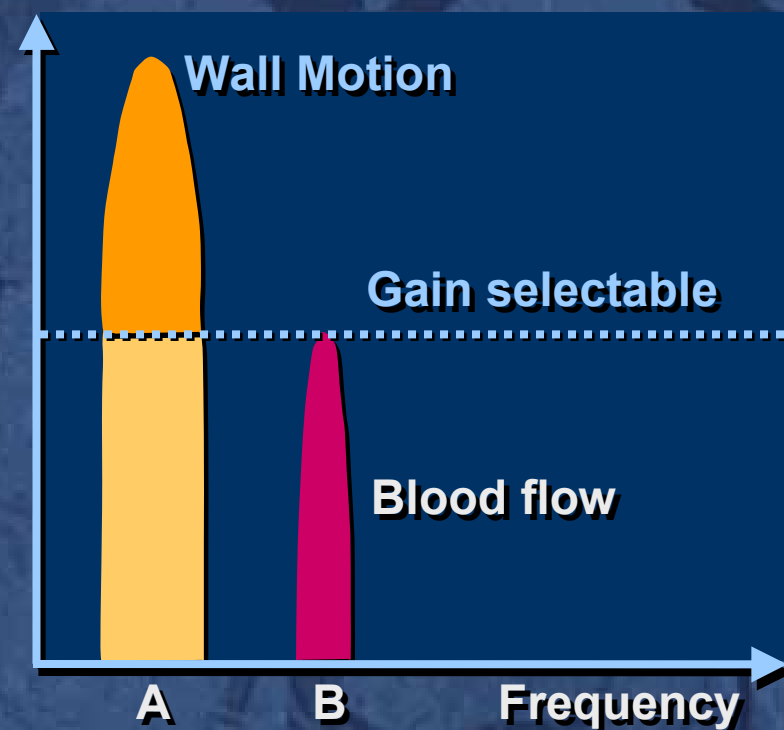
Li

The X's are ones that will be in workbook only. Keep the file intact now.

Technical Principles of DTI

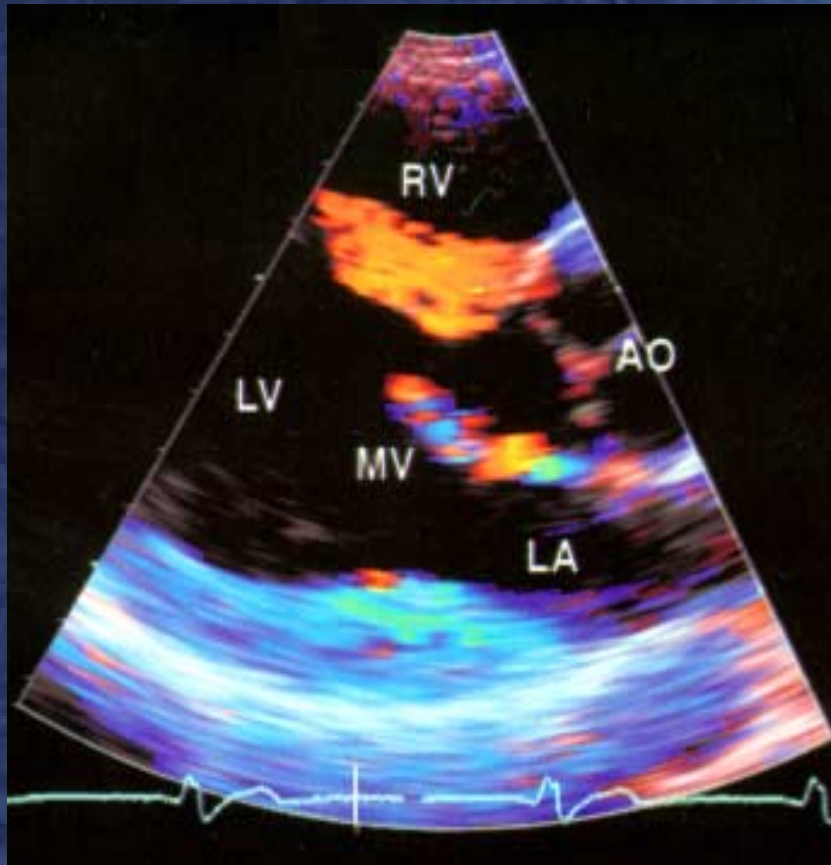


Blood Doppler Imaging

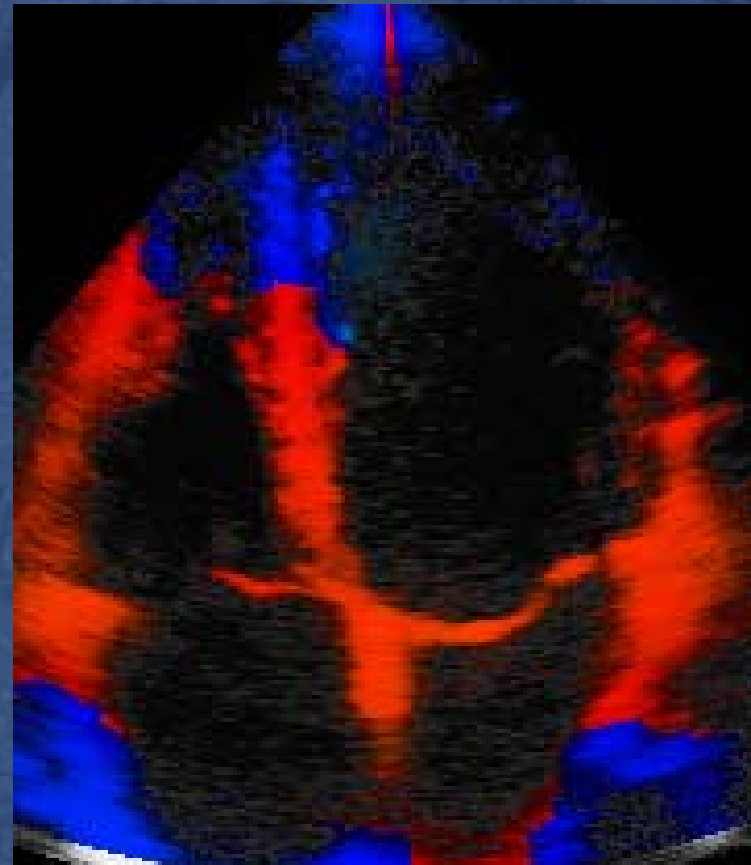


Tissue Doppler Imaging

Color 2D-Mode DTI

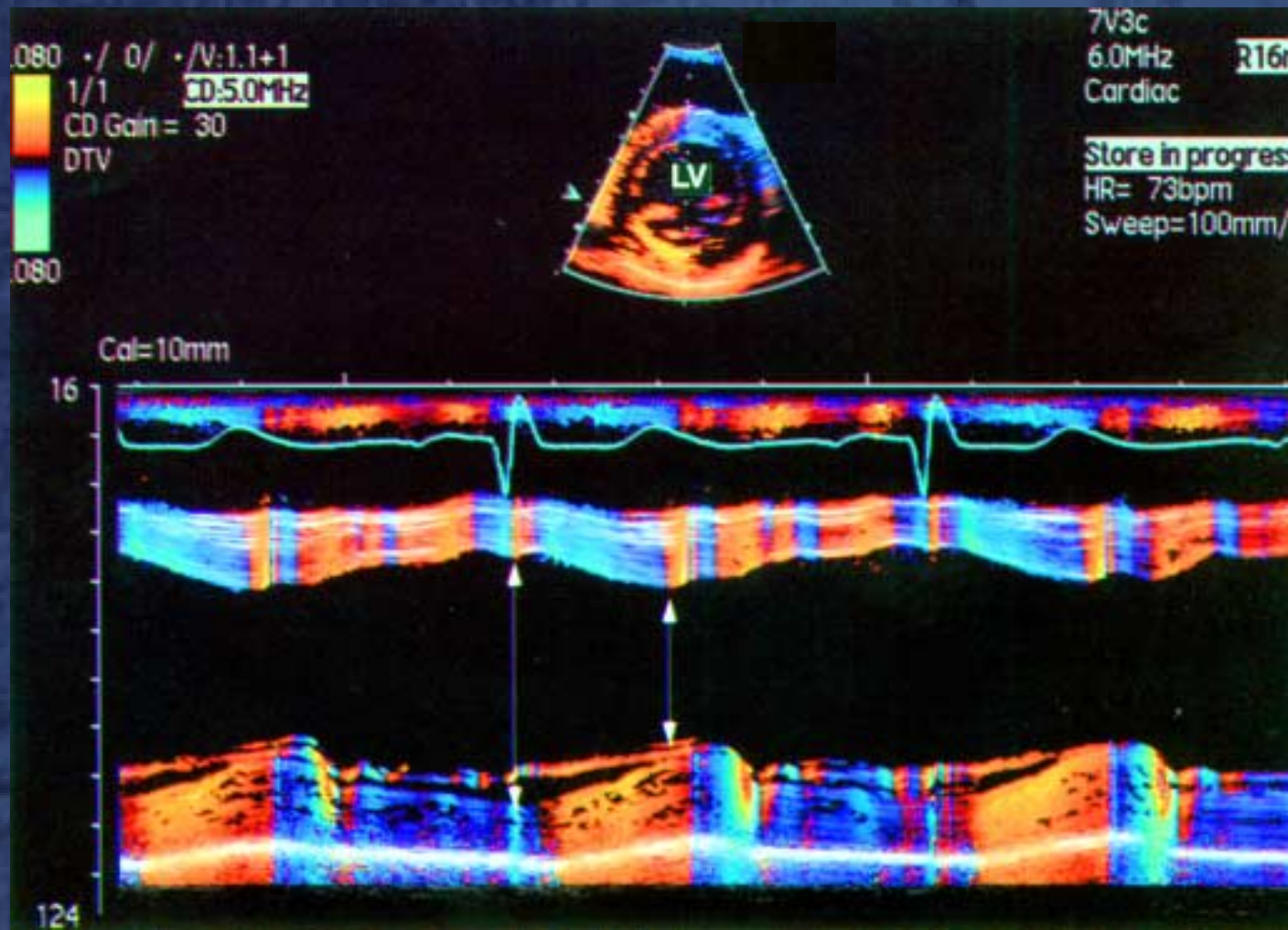


Parasternal long axis

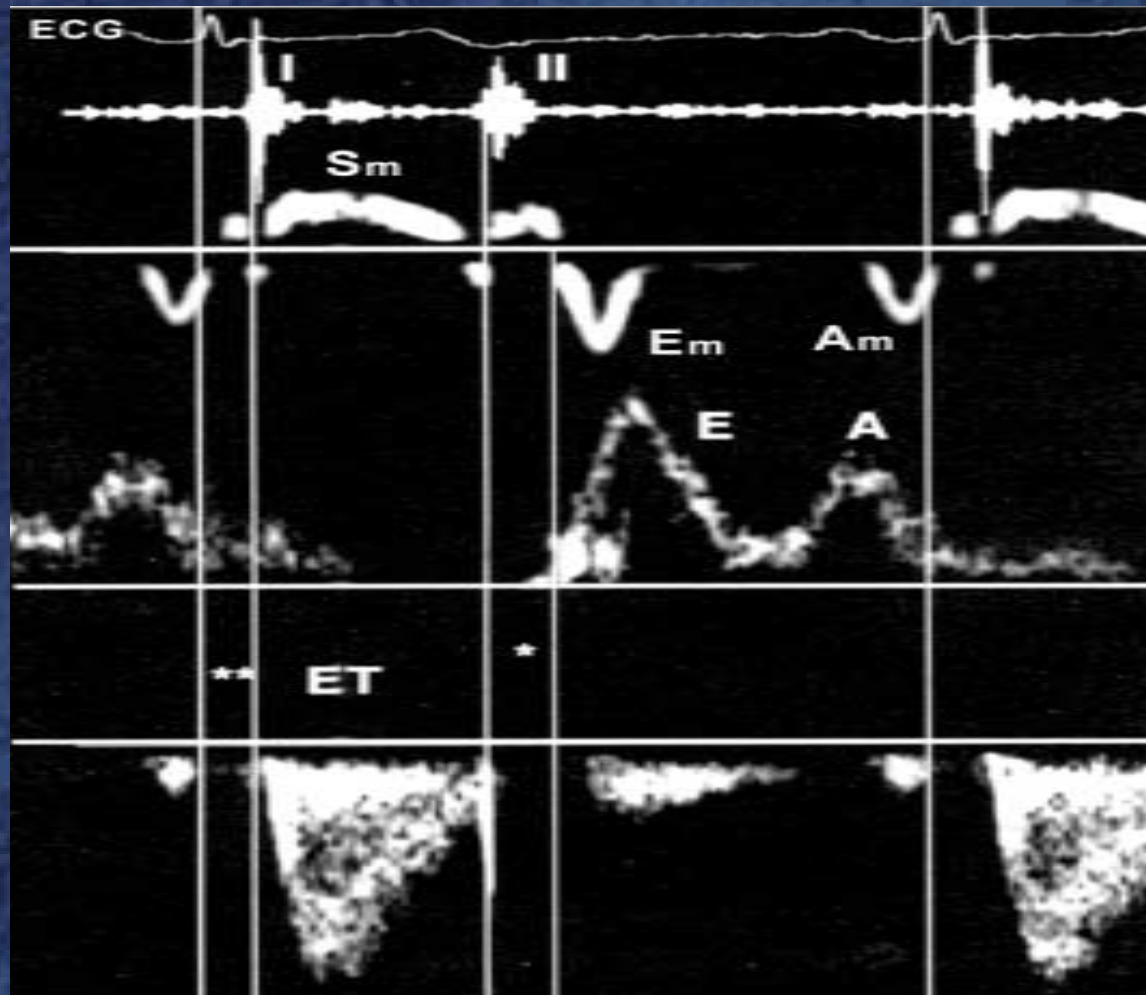


Apical four chamber

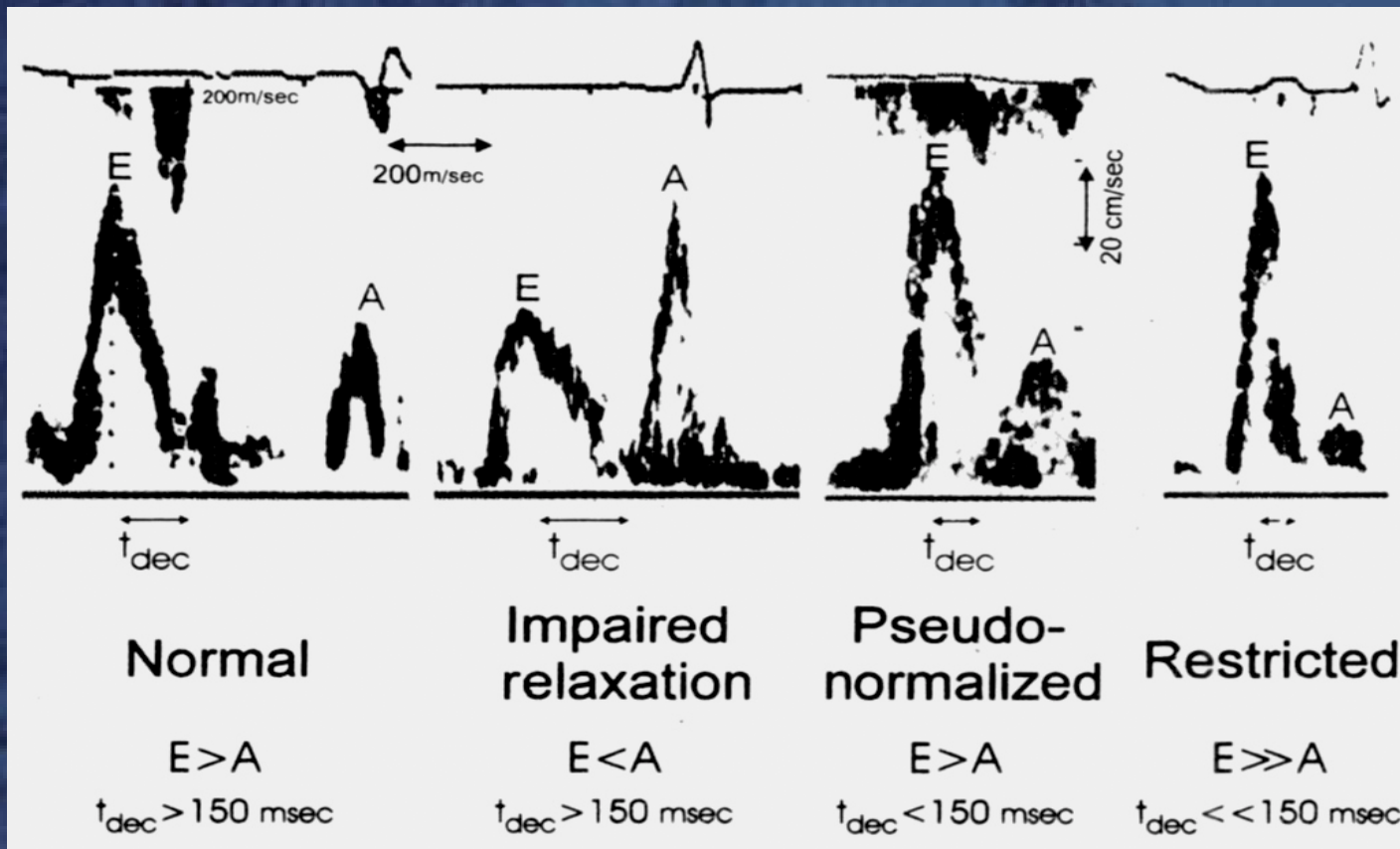
Color M-Mode DTI



Spectral Pulsed Wave DTI



Assessment of Diastolic Function *Transmitral Doppler*



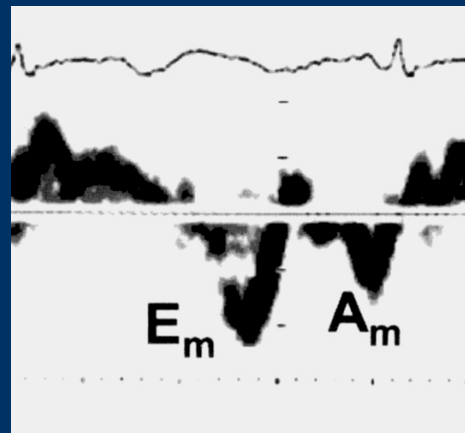
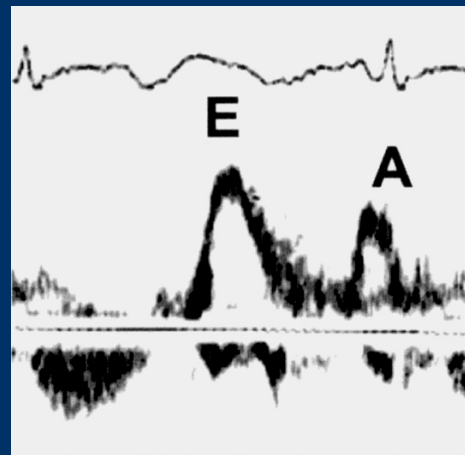
Diastolic Function by Doppler

	Mitral PWD	PVF PWD	DTI
Normal	$E/A > 1$ $150 < EDT < 220ms$ $IVRT < 100ms$	$S/D \geq 1$ $AR < A$ $ARd < Ad$	$Em/Am > 1$ $Em > 8cm/s$
Delayed relaxation	$E/A < 1$ $EDT \uparrow$ $IVRT \uparrow$	$S/D \geq 1$	$Em/Am < 1$ $Em < 8cm/s$
Pseudo-normal	$E/A > 1$ $EDT \downarrow$ $IVRT \downarrow$	$S/D < 1$ $AR > A$ $ARd > Ad$	$Em/Am < 1$ $Em < 8cm/s$
Restrictive	$E/A \gg 1$ $EDT \downarrow \downarrow$ $IVRT \downarrow$	$S/D \ll 1$	$Em/Am < 1$ $Em \ll 8cm/s$

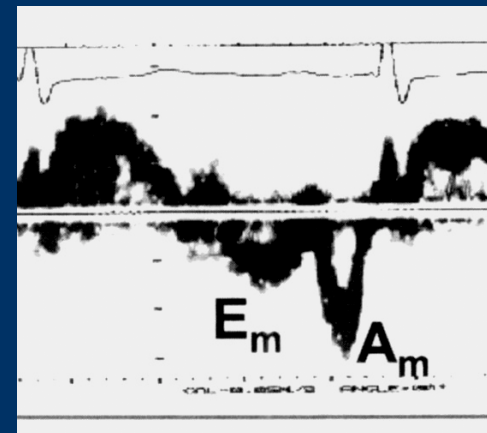
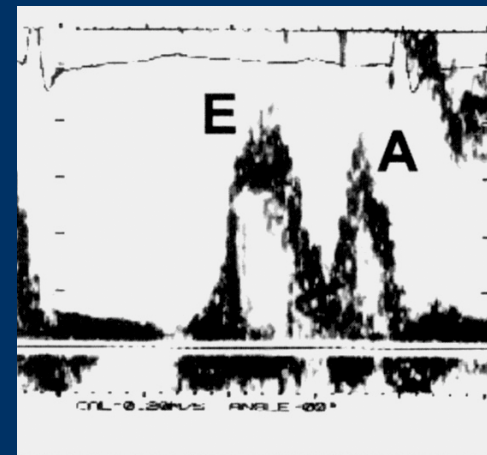
Mitral PWD

DTI

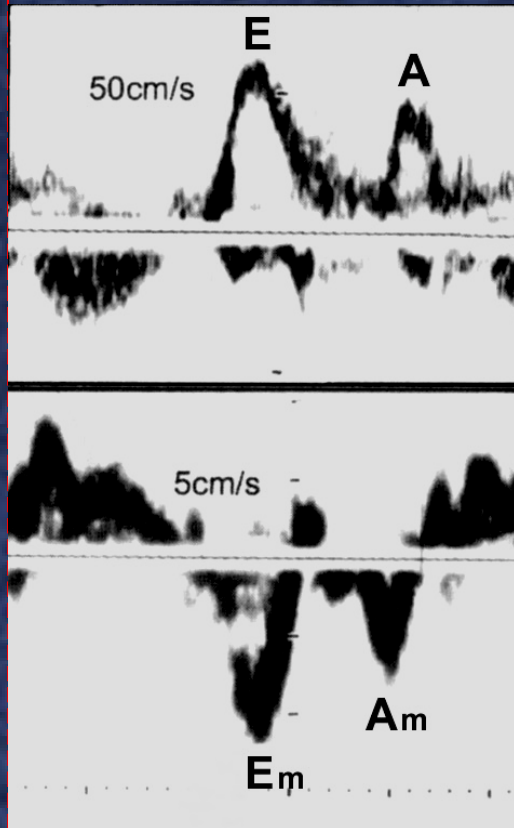
Normal



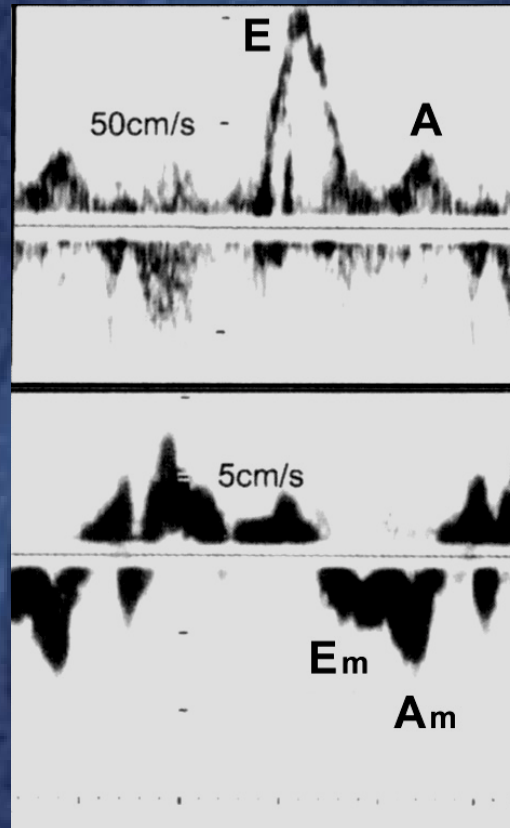
Pseudonormal



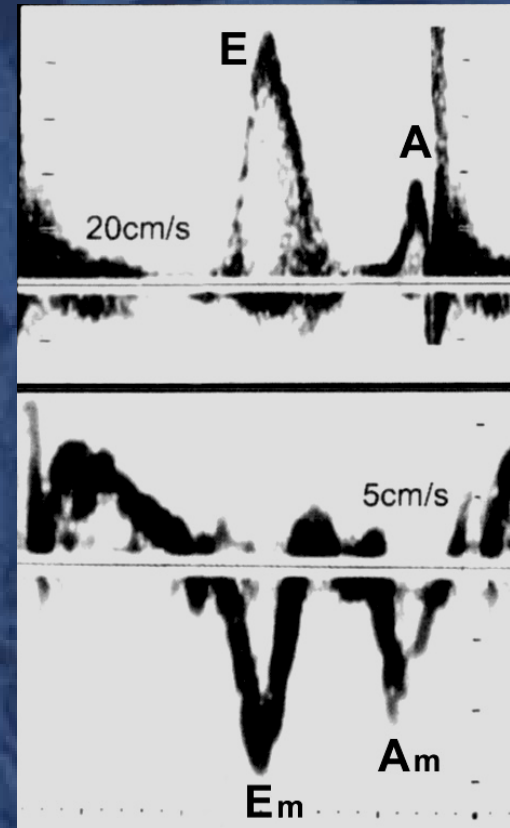
Restriction and Constriction



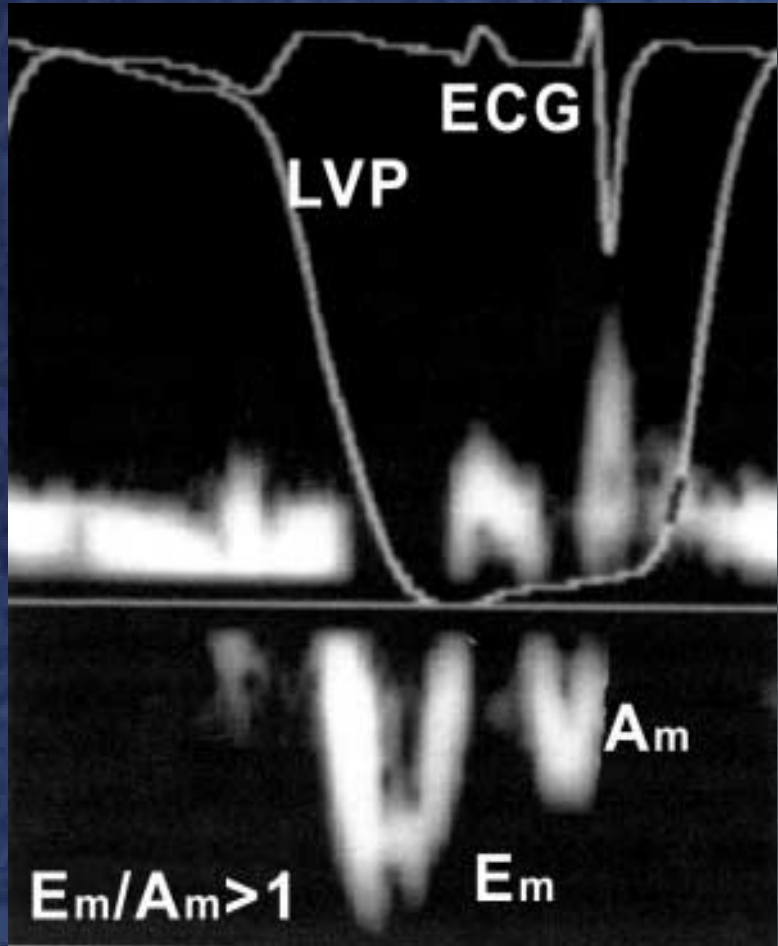
Normal



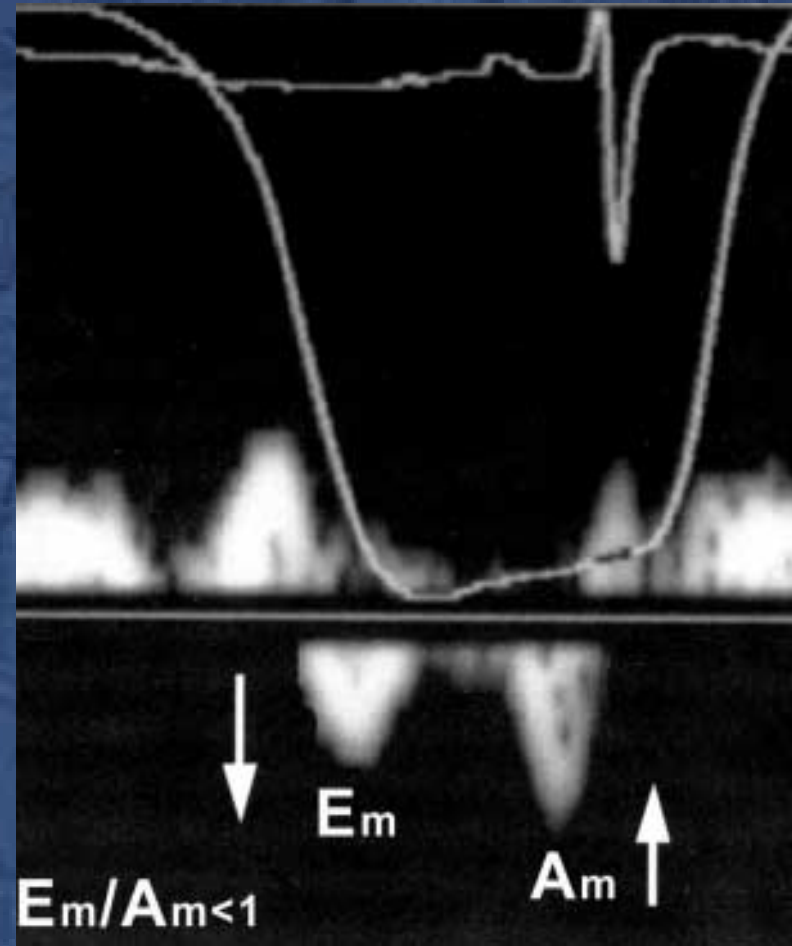
Restriction



Constriction



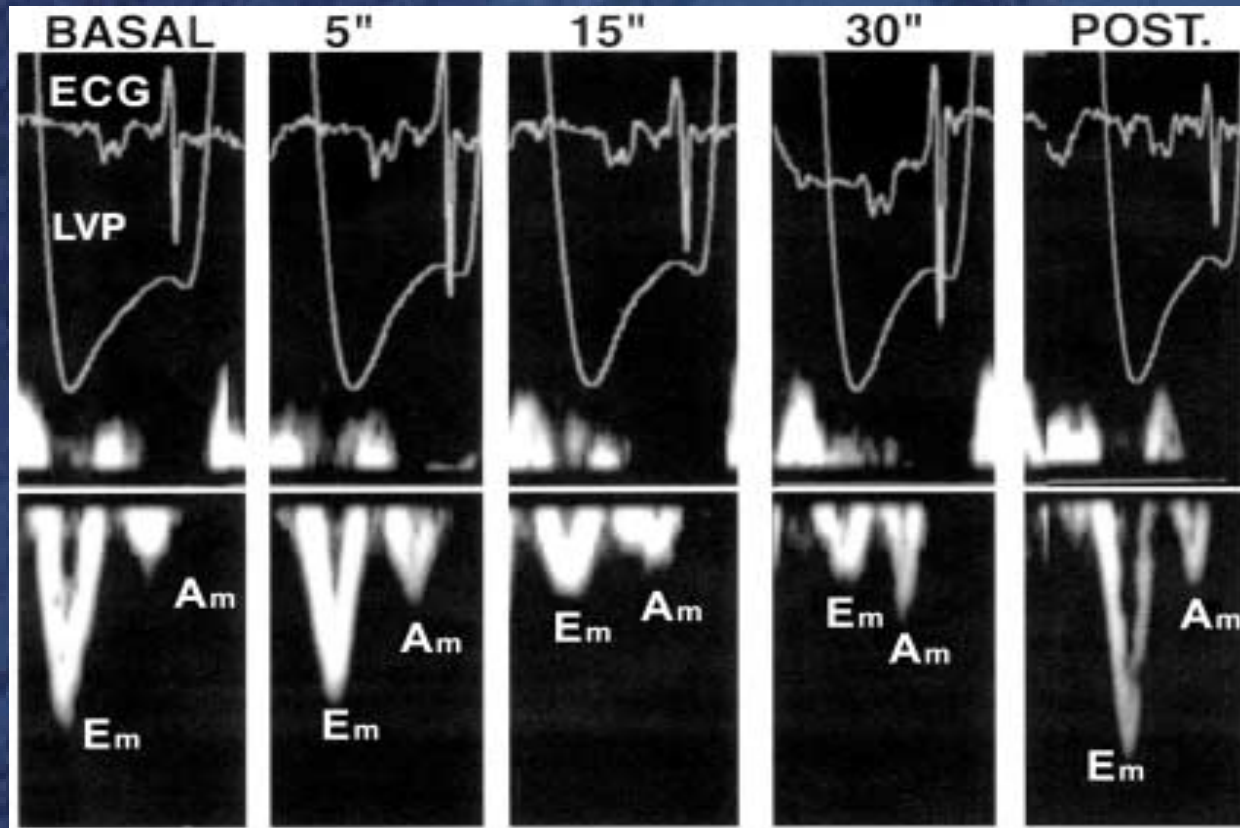
Non-ischemic



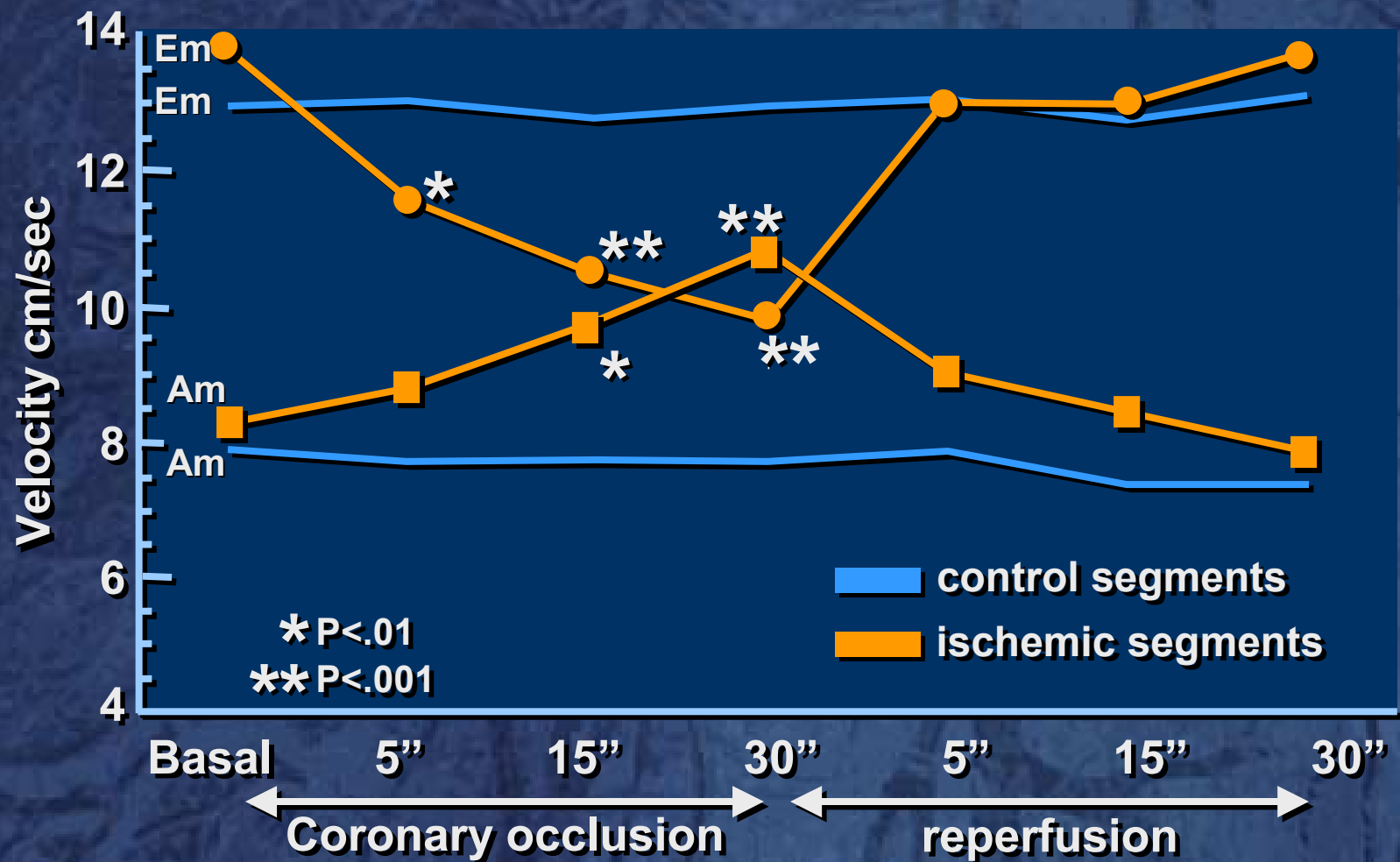
Ischemic

X

Sequential Spectral DTI Recordings

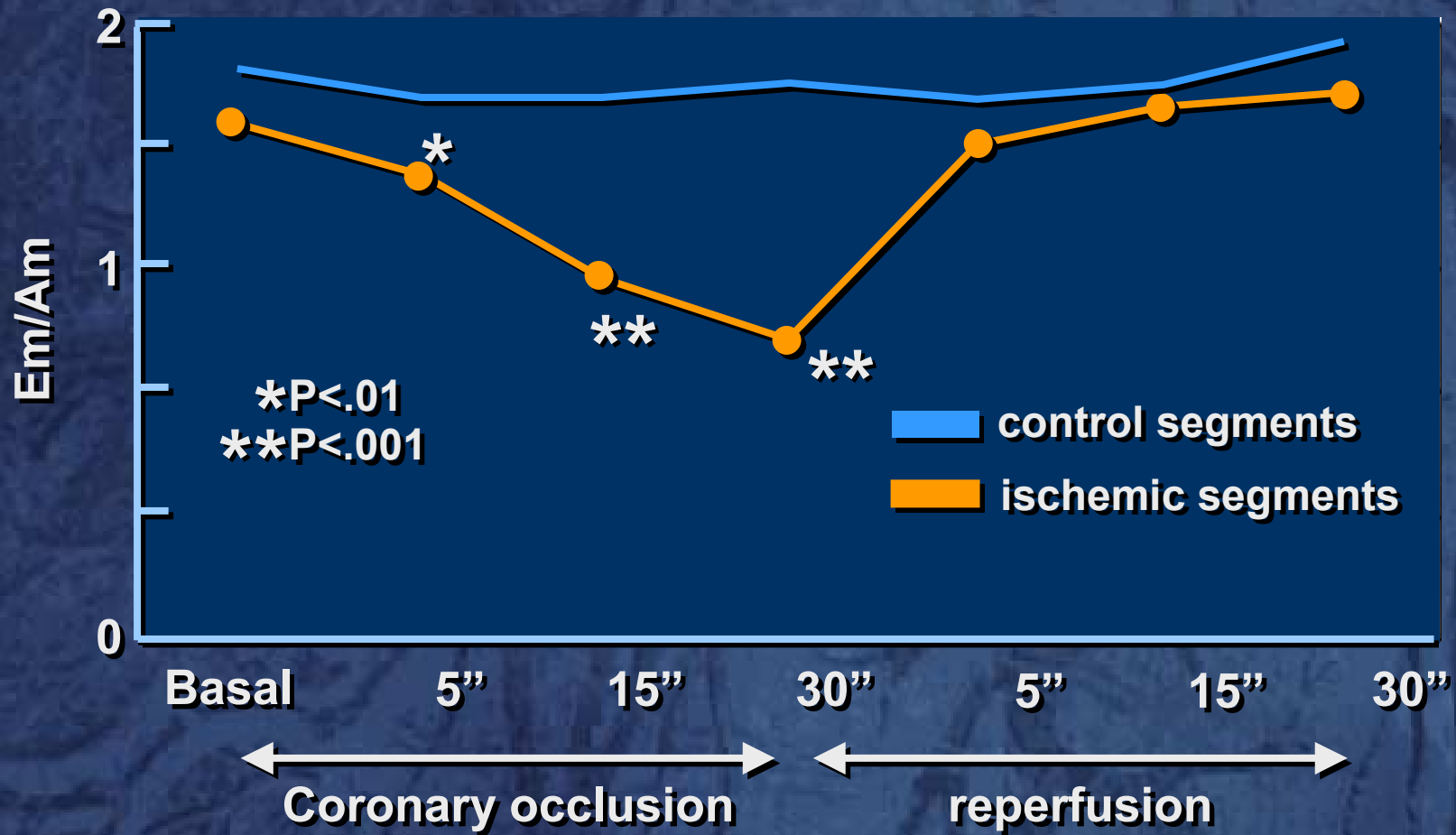


Garcia-Fernandez MA 1998



Garcia-Fernandez MA 1998

X

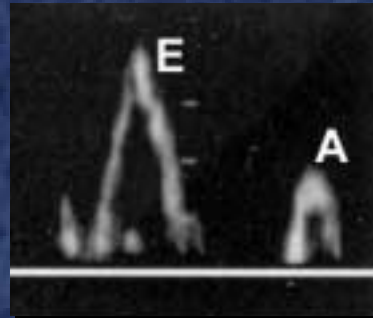


Garcia-Fernandez MA 1998

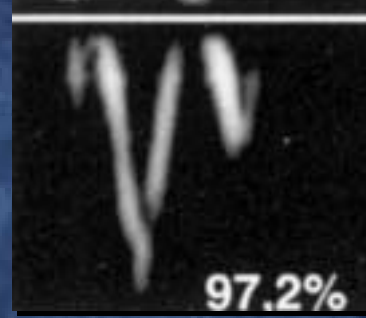
X

Normal
(n=25)

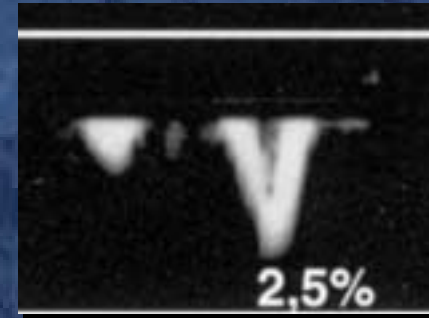
Mitral PWD



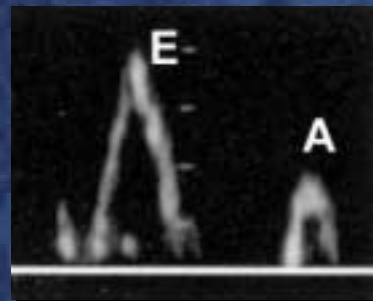
Normal DTI



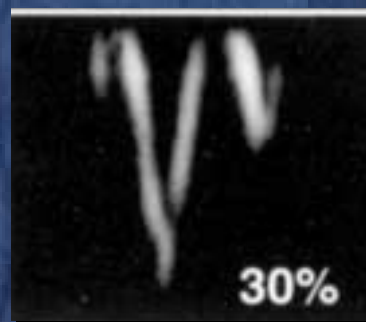
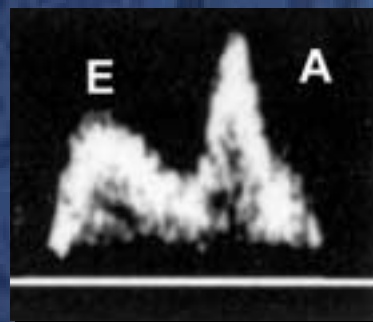
Abnormal DTI



CAD
(n=22)

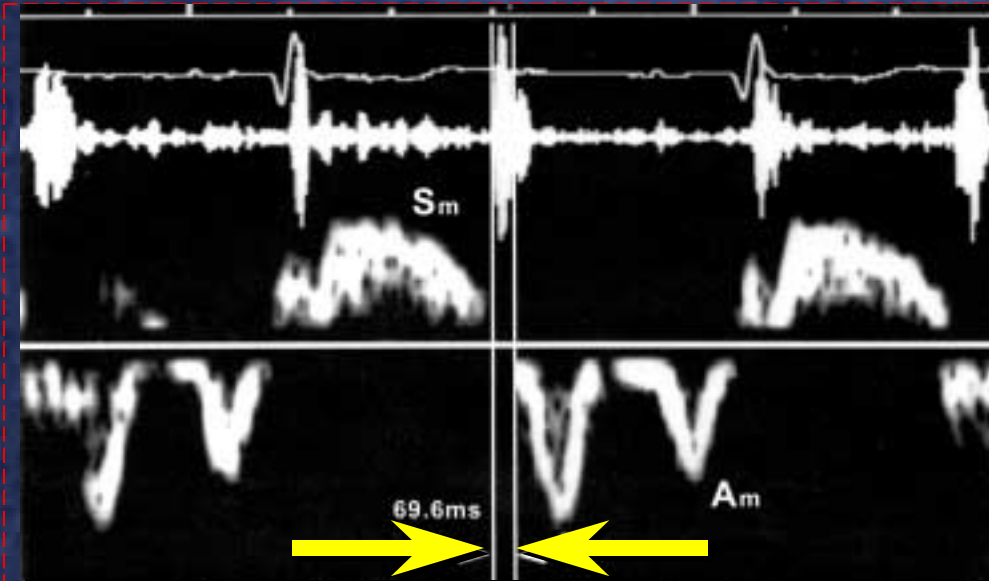


CAD
(n=24)



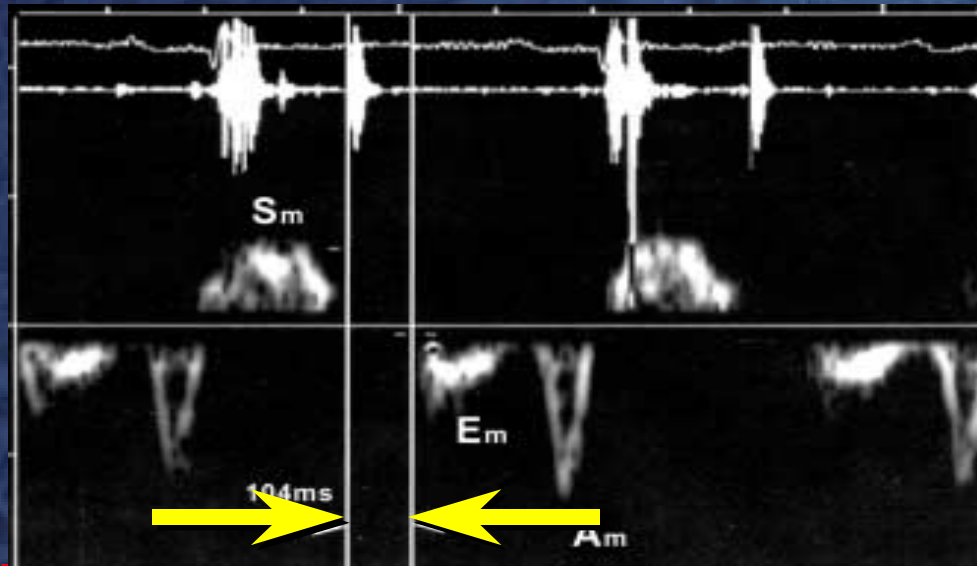
Garcia-Fernandez MA 1998

X



IVRT

normal segment



regional
diastolic
abnormalities