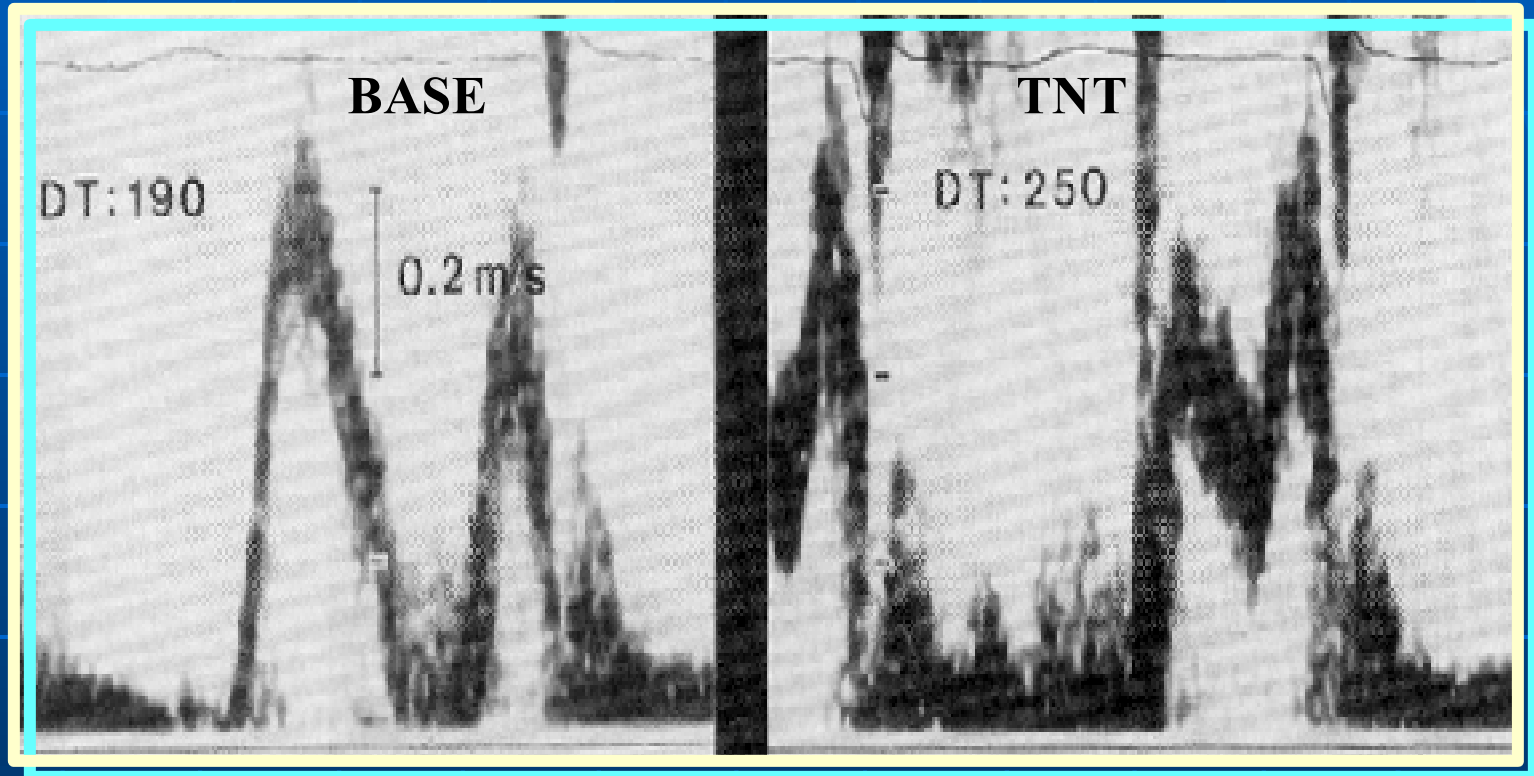


PAPO échocardiographie

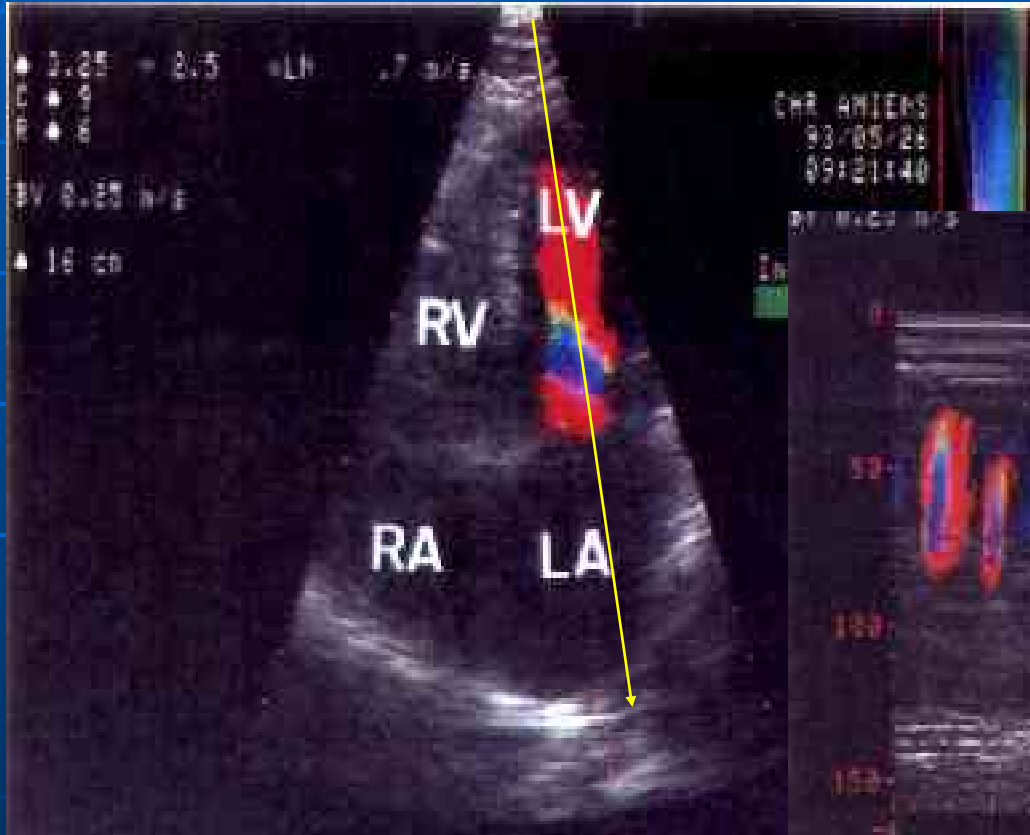
Michel Slama
Amiens

LV Diastolic Function

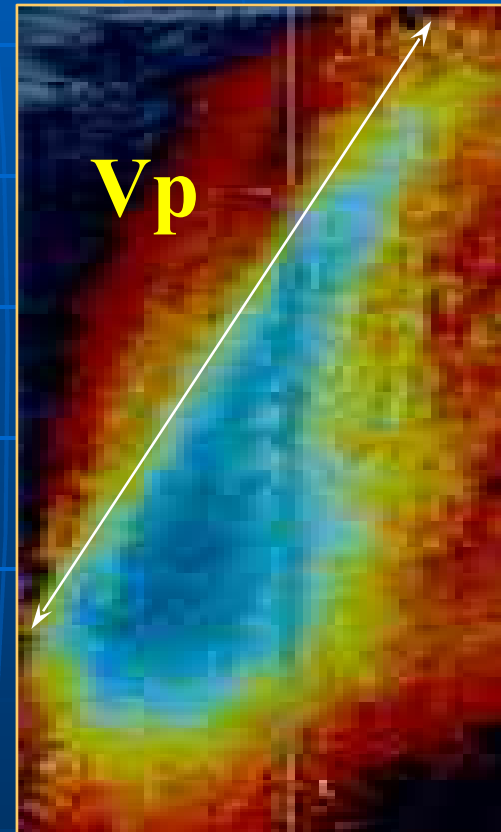
Preload dependance of mitral flow

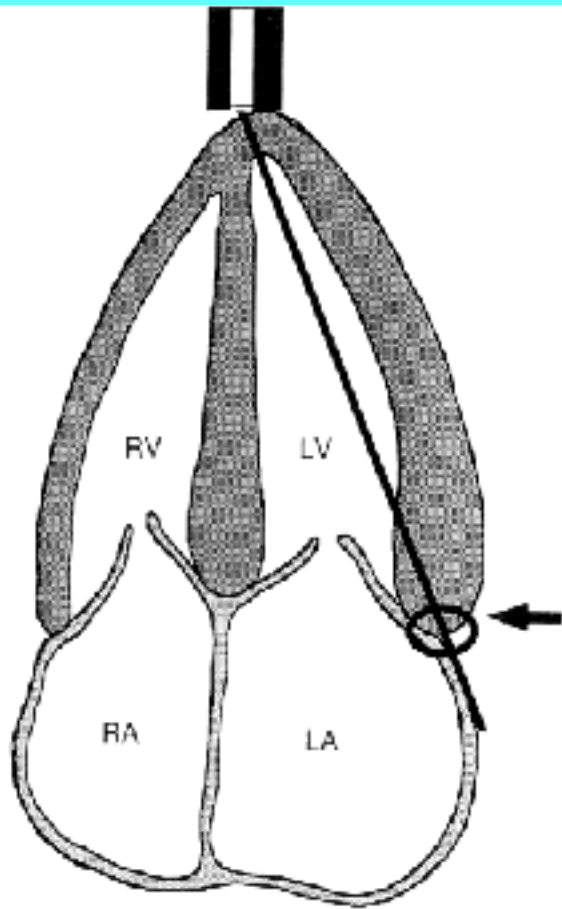


M-Mode Color Doppler Propagation of Mitral Flow (V_p)



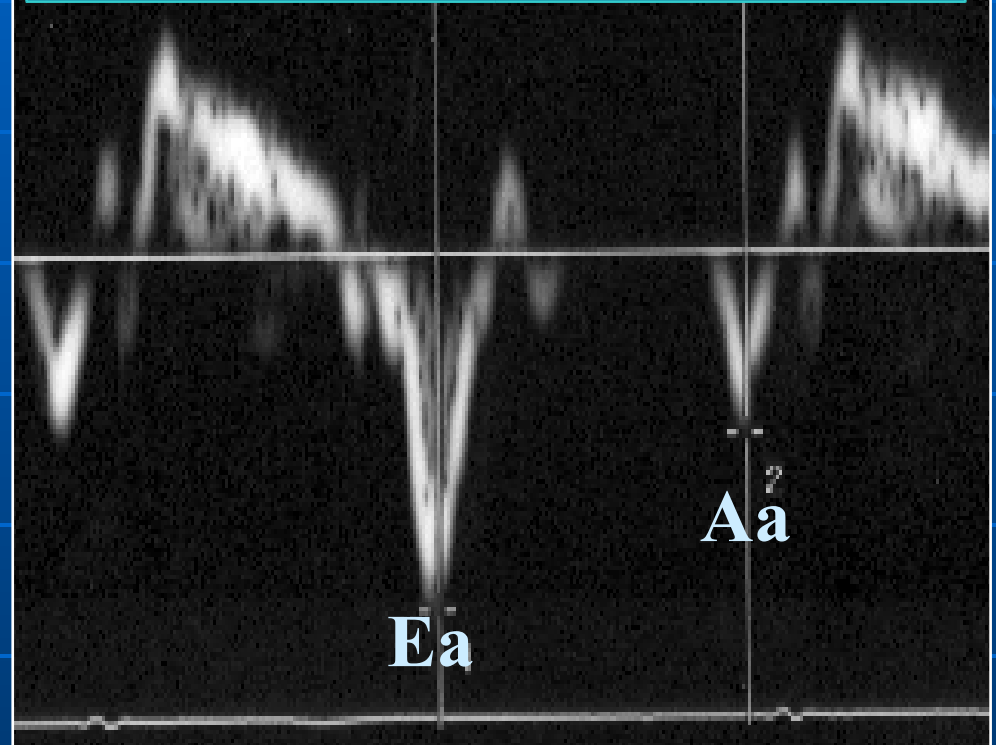
M-Mode Color Doppler Propagation of Mitral Flow (V_p)





Normal Values

$Ea > 8 \text{ cm/s}$ et $Ea / Aa > 1$

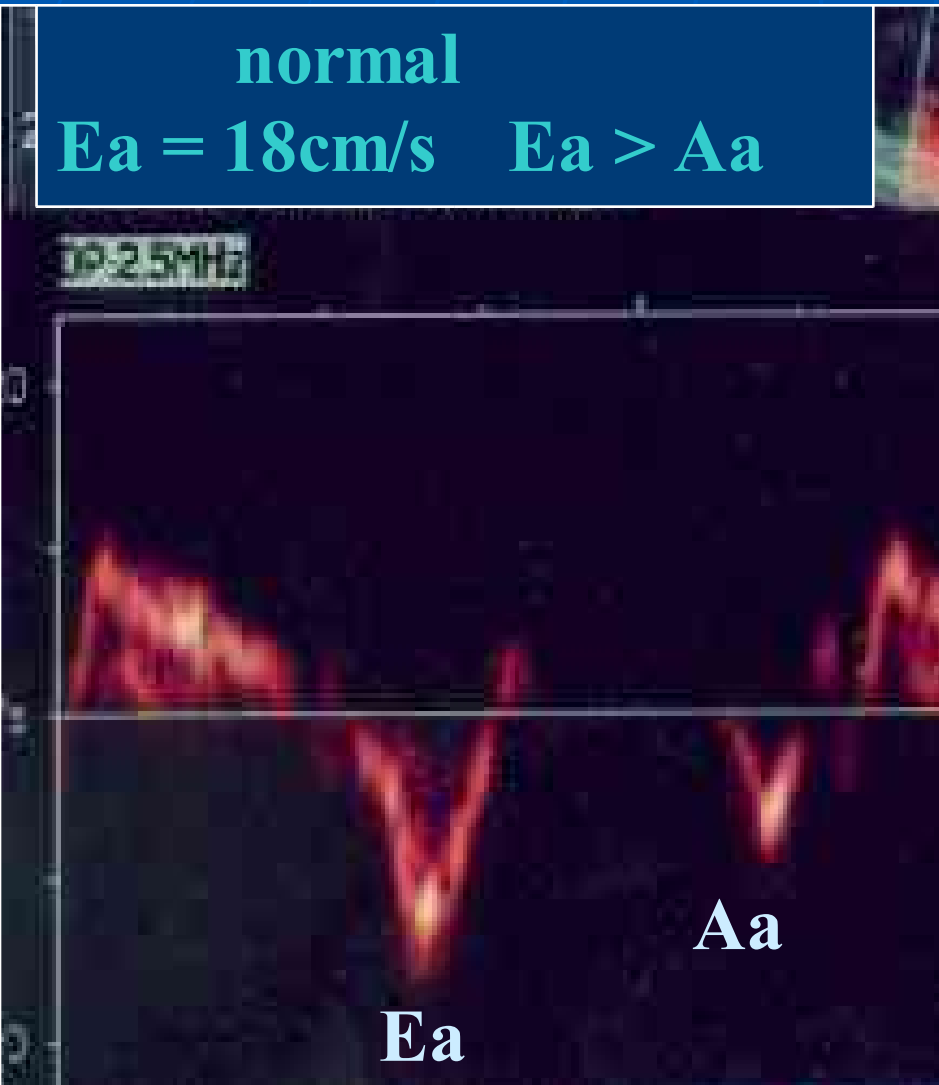


- DTI
- Mitral Annulus

Early diastolic velocity (Ea) DTI

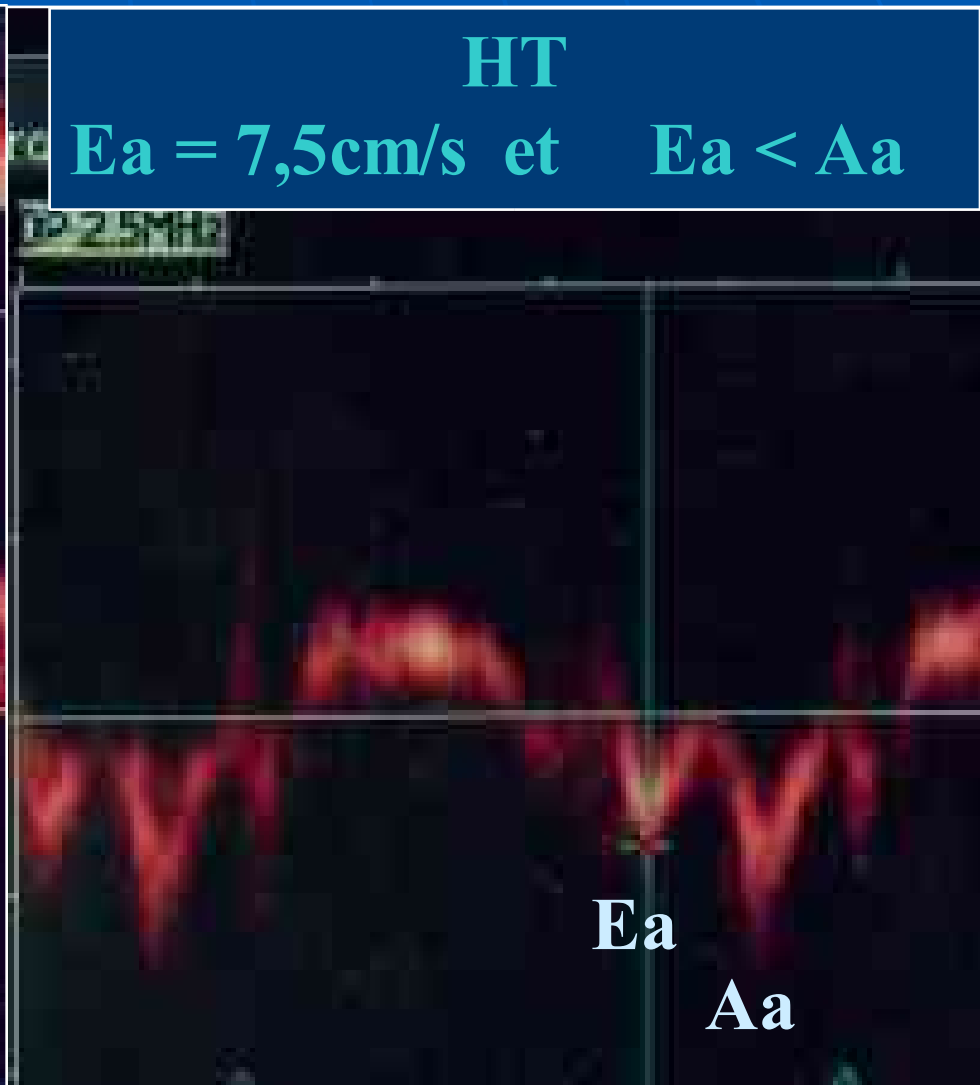
normal

Ea = 18cm/s Ea > Aa



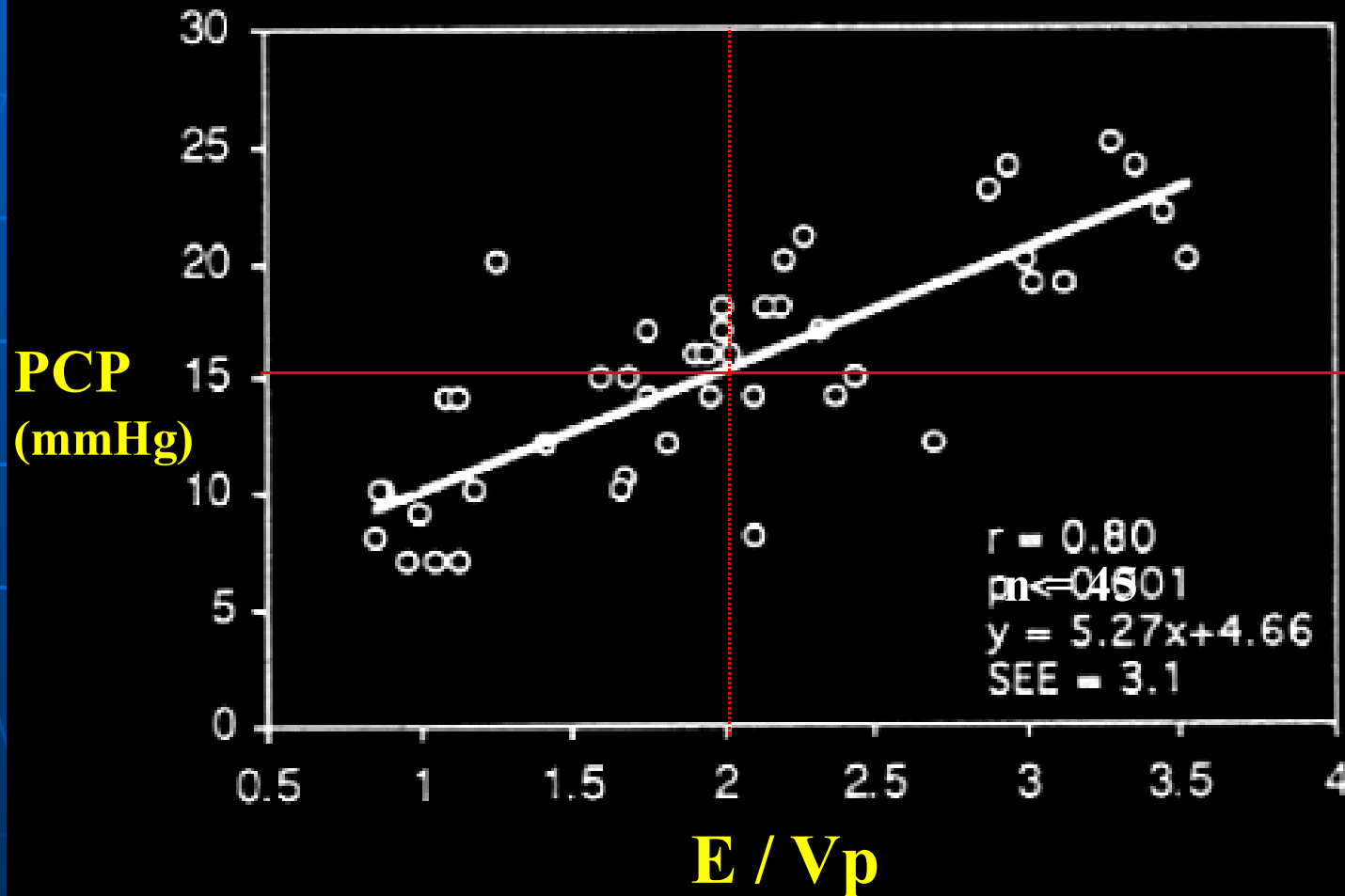
HT

Ea = 7,5cm/s et Ea < Aa



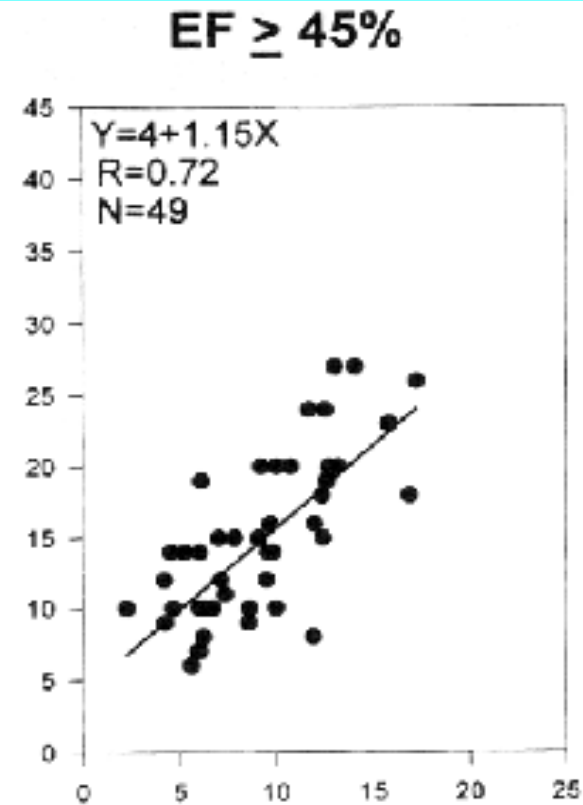
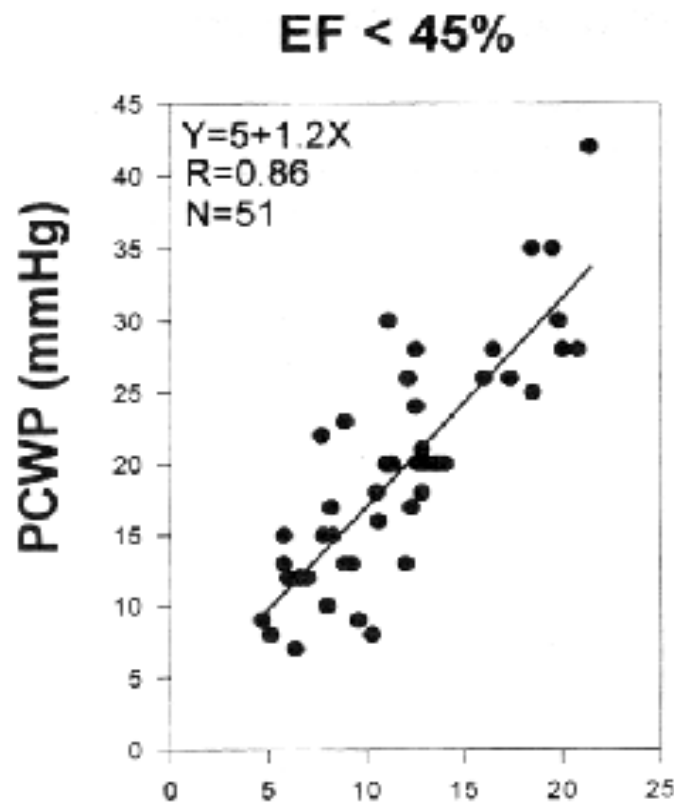
E/Vp

(Garcia et al. JACC 1997; 29: 448-54)



Elevated diastolic pressure : $E/Vp > 2.5$

E/Ea



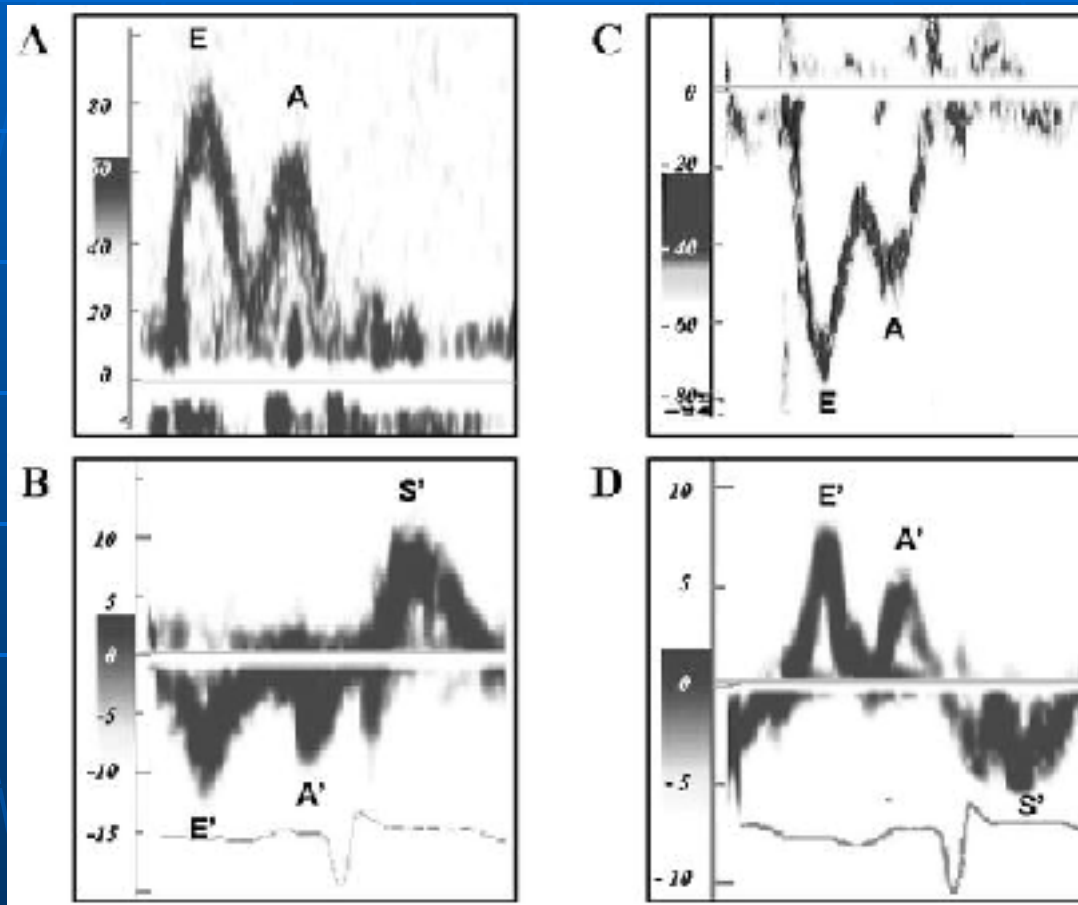
E/Ea

*Nagueh; Circulation
1998*

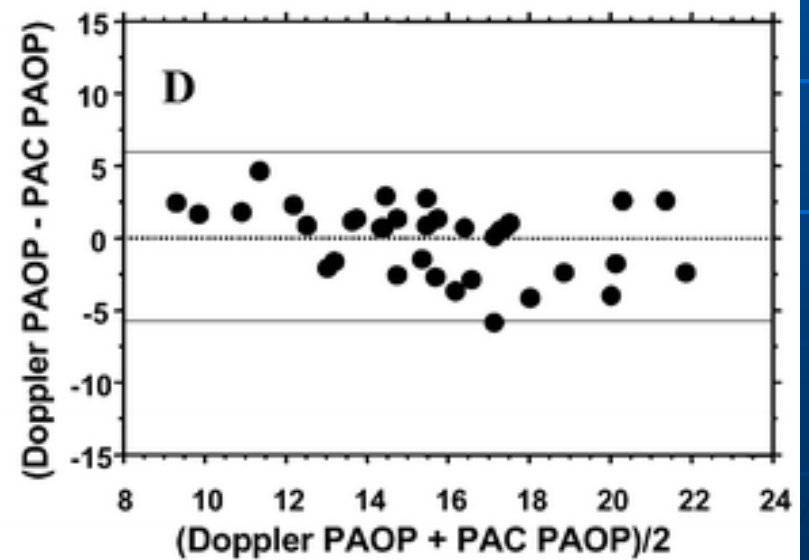
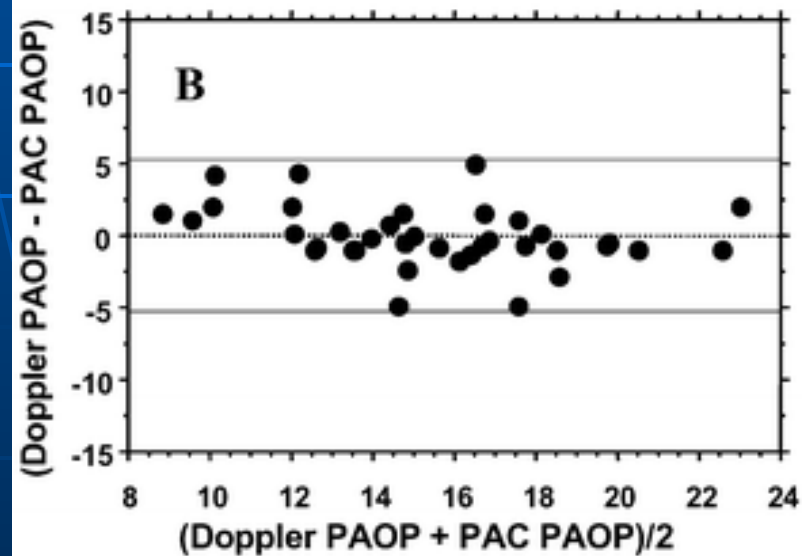
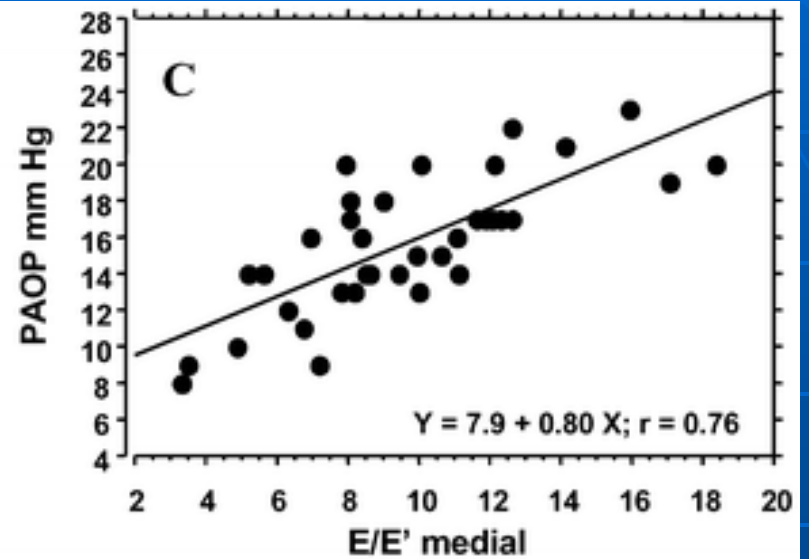
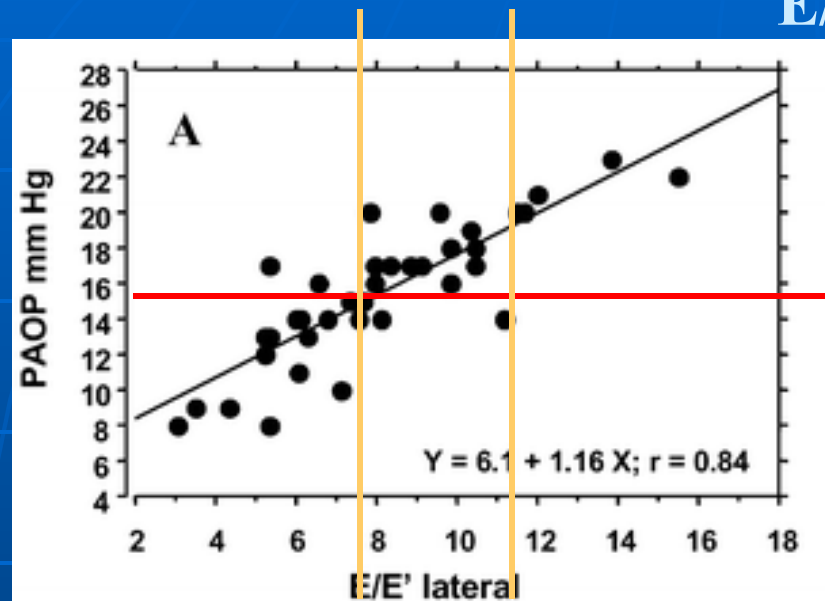
Elevated Diastolic Pressure

E/Ea > 10 (Nagueh JACC 1997) or E/Ea > 15 (Ommen Circulation 2000)

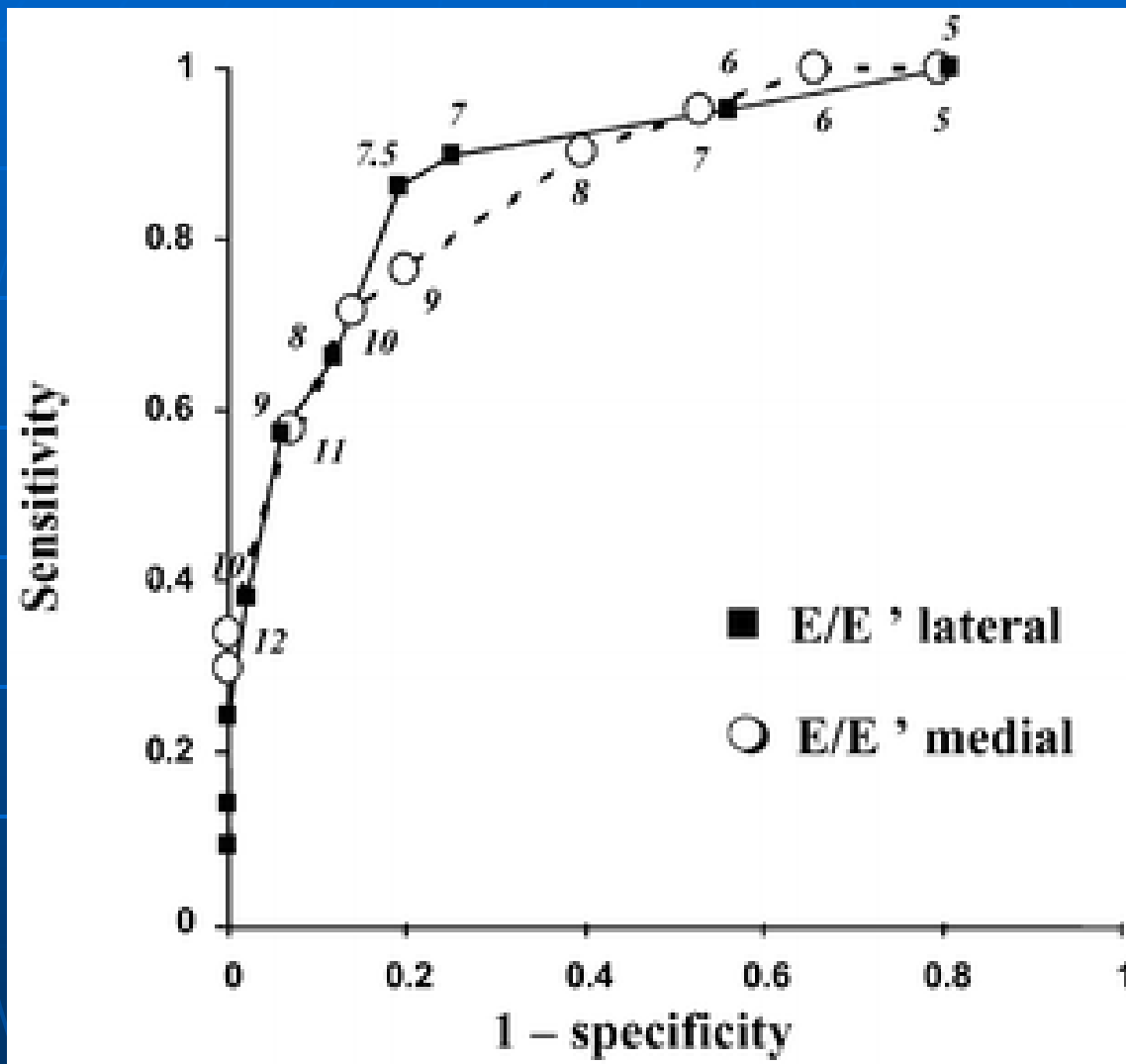
E/Ea



E/Ea

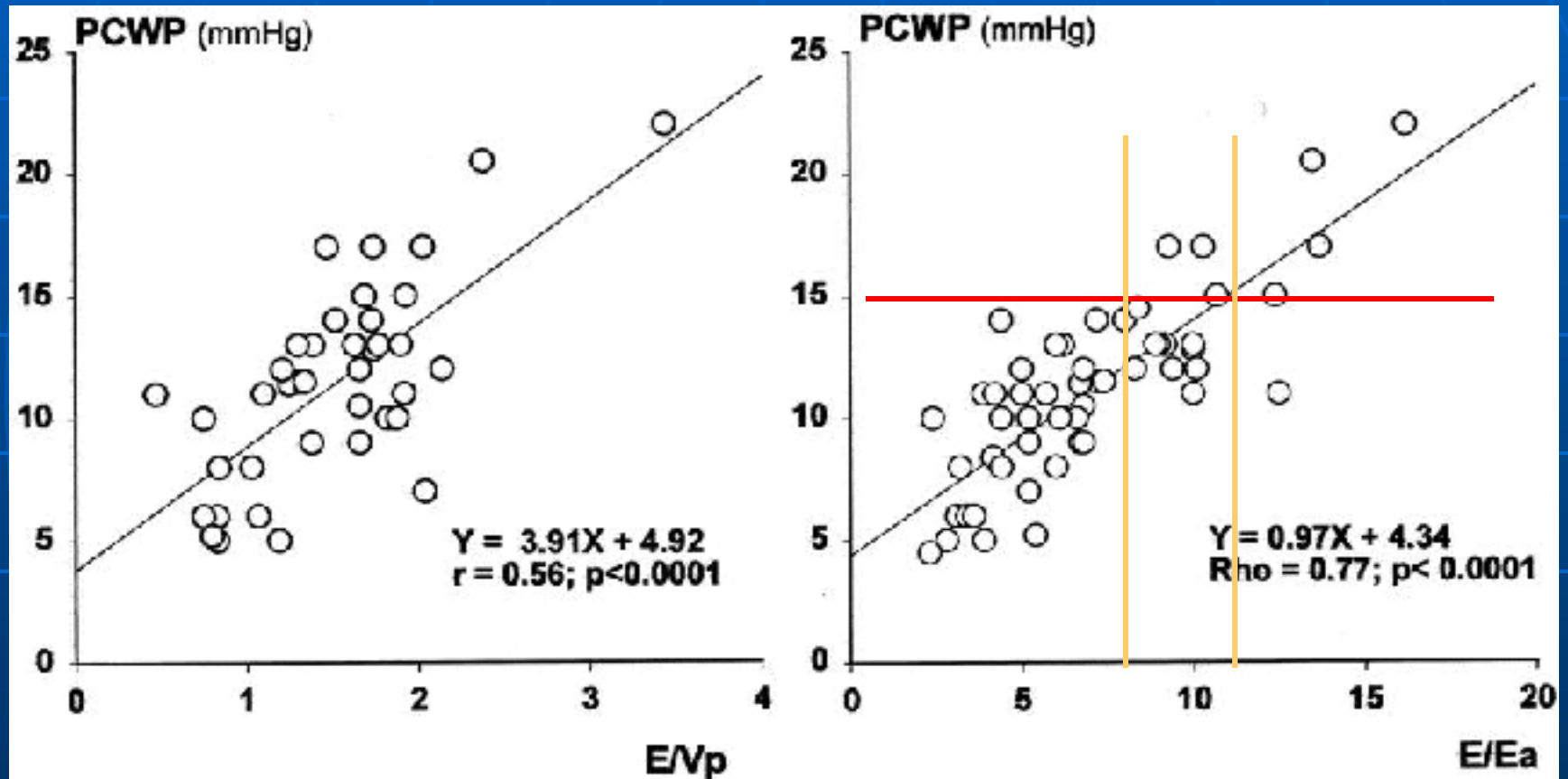


E/E_a

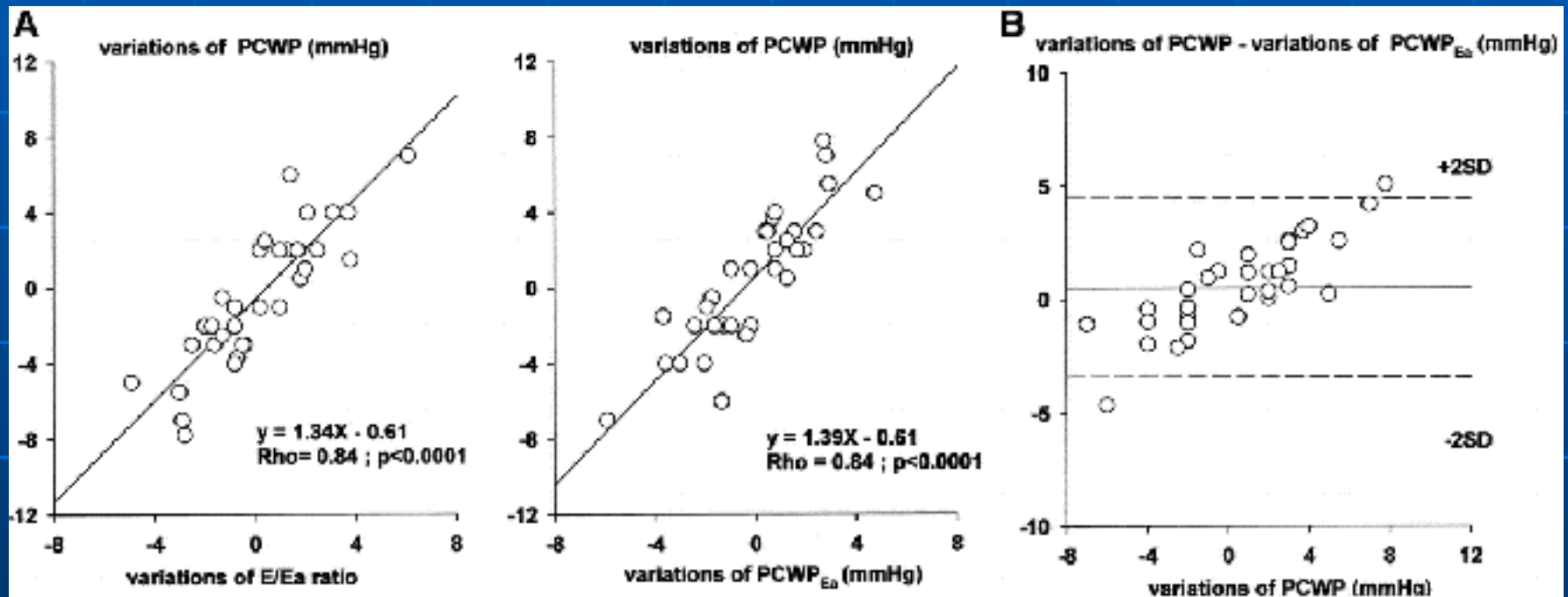


ROC curve for predicting PAOP of 15 mmHg or higher using E/E at both medial and lateral mitral annuli. Area under the curve 0.89 (lateral, *closed squares*) and 0.81 (medial, *open circles*)

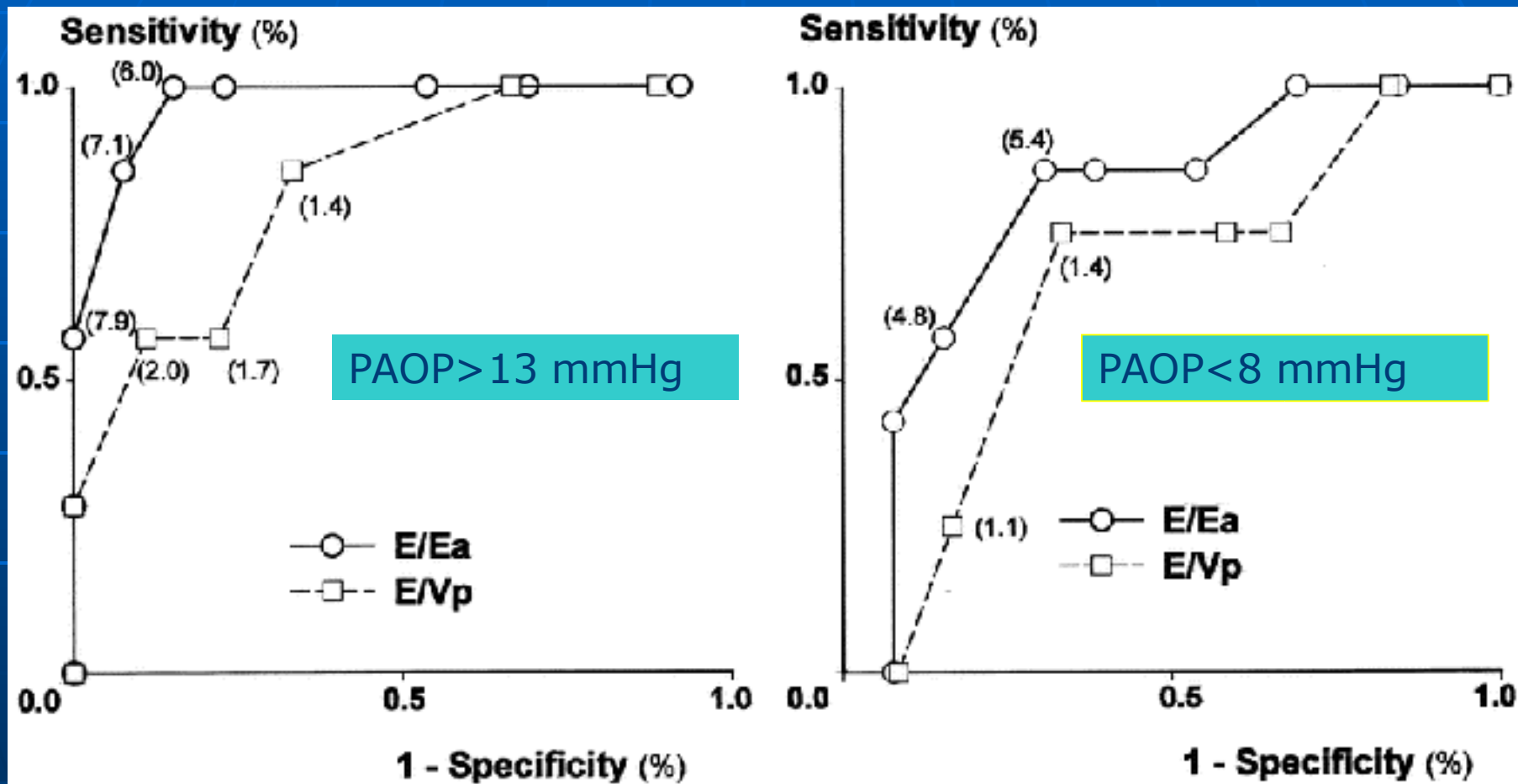
E/Vp et E/Ea



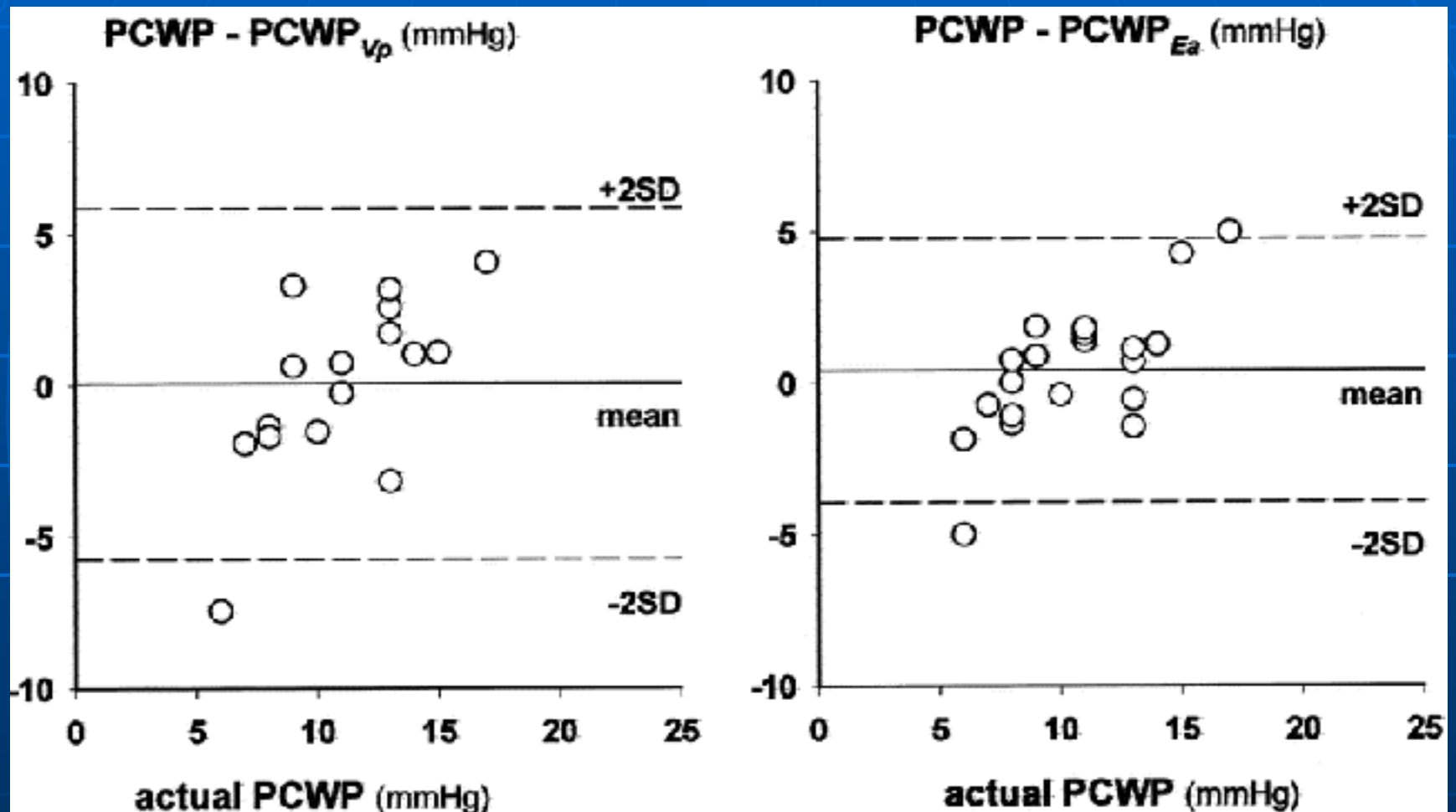
E/Vp et E/Ea



E/Vp et E/Ea



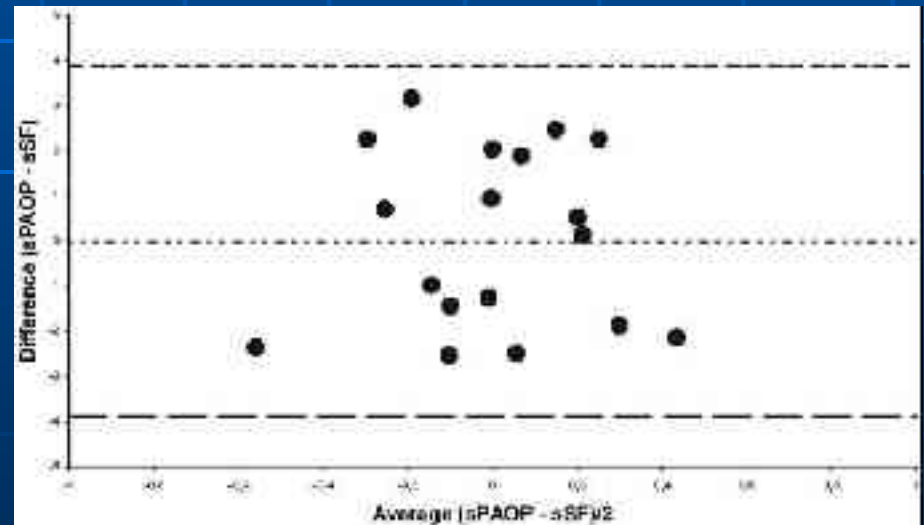
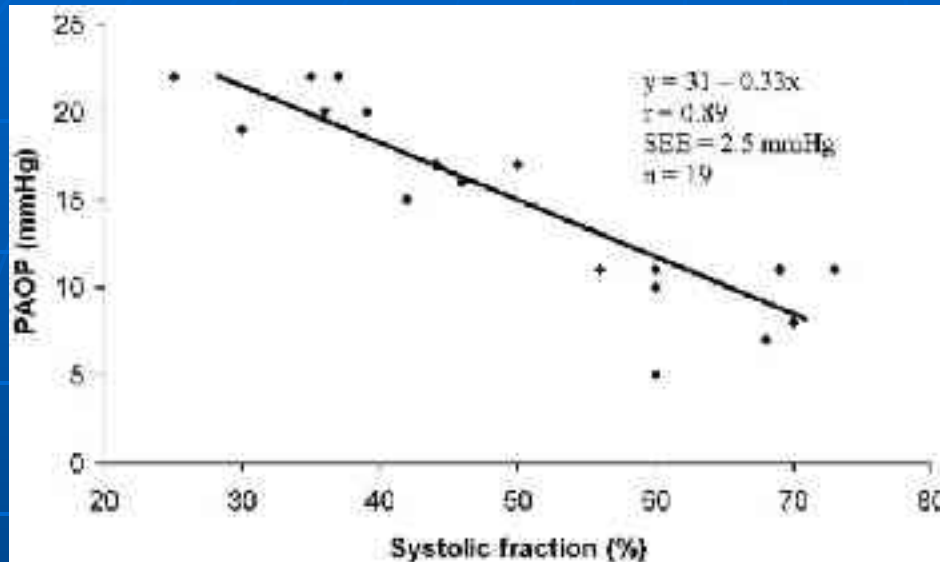
E/Vp et E/Ea

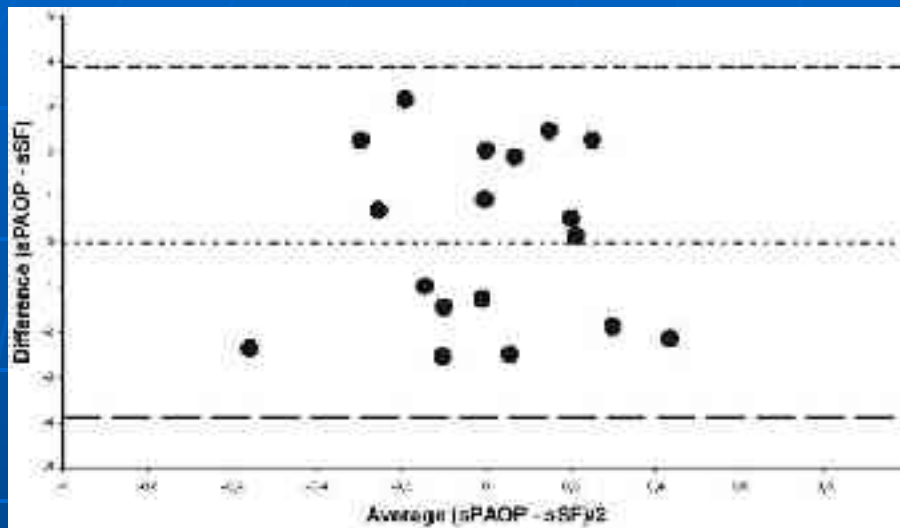


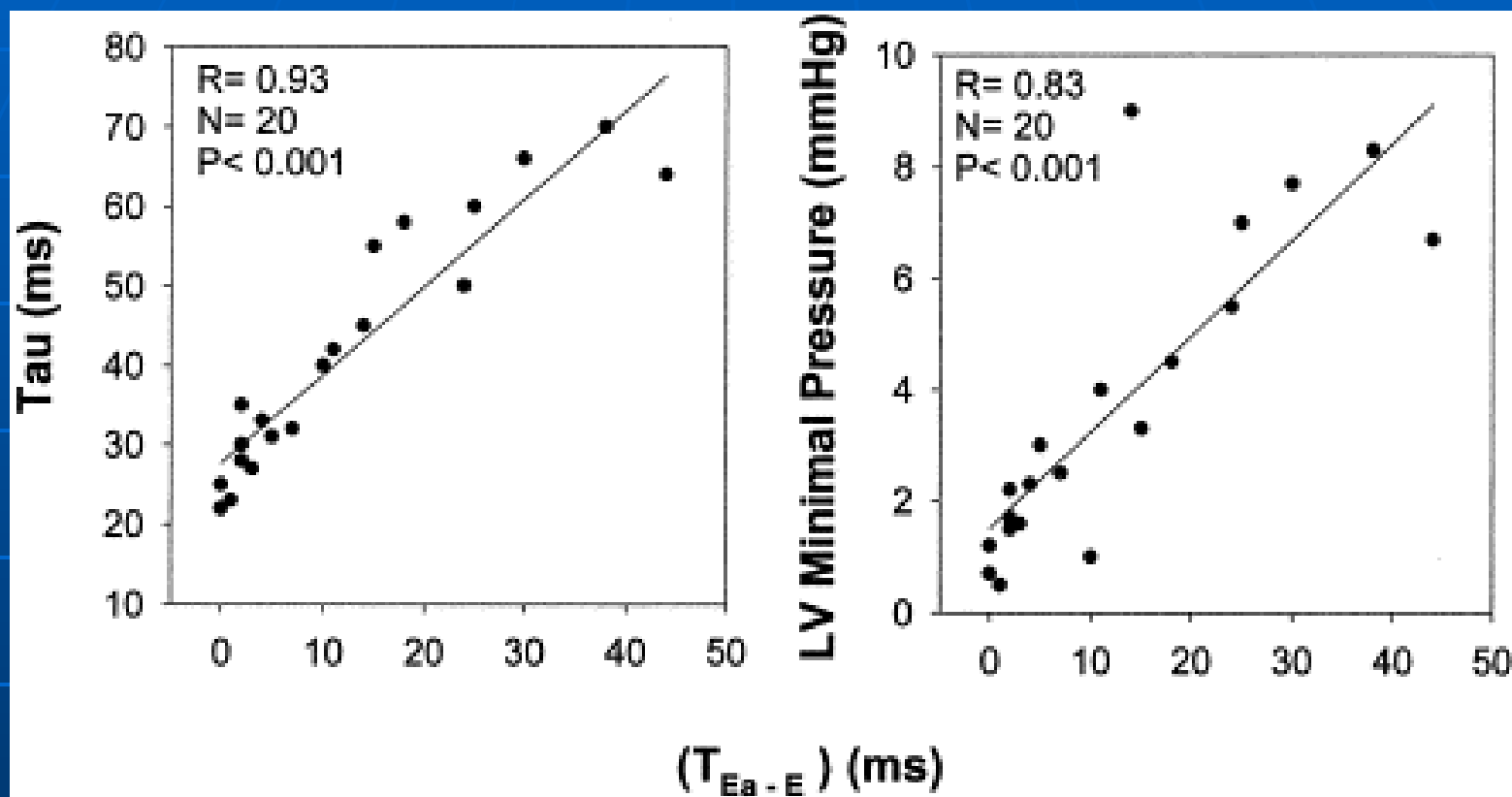
CONCLUSION

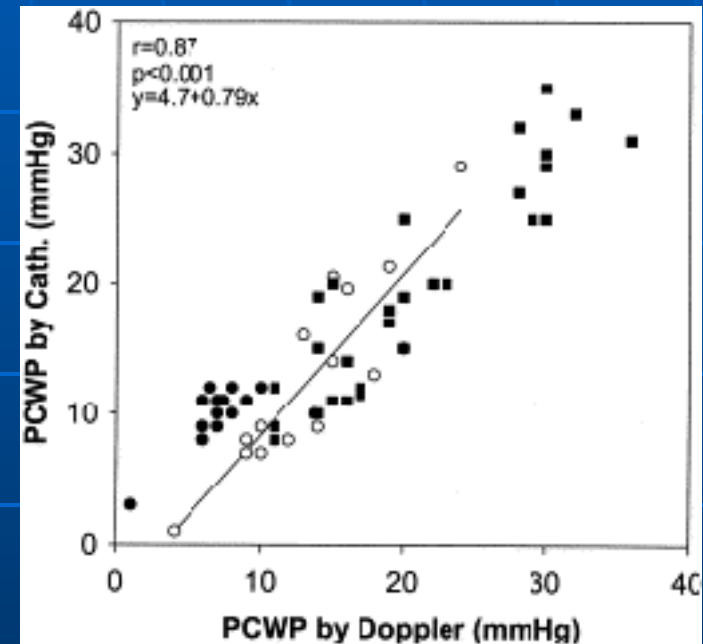
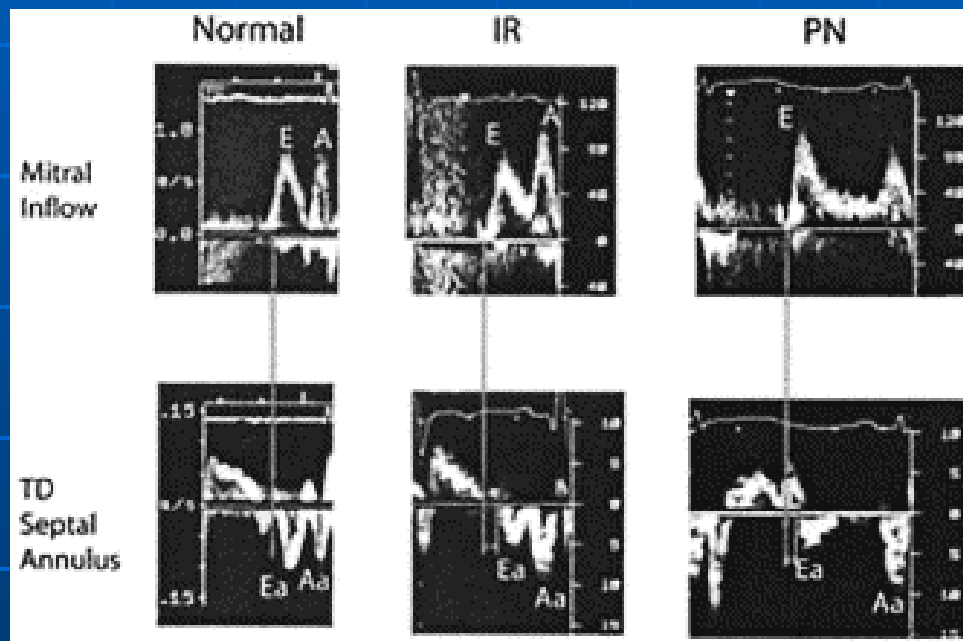
- Flux mitral et le flux pulmonaire sont dépendant des conditions de charge et de la Fc. Non utilisable pour évaluer la PAPO
- E/Ea (et E/Vp) est le meilleur indice afin d'évaluer la PAPO. $E/Ea < 8$ PAPO inférieure à 15 mmHg et $E/Ea > 12$ PAPO > 15 mmHg

Flux veineux pulmonaire

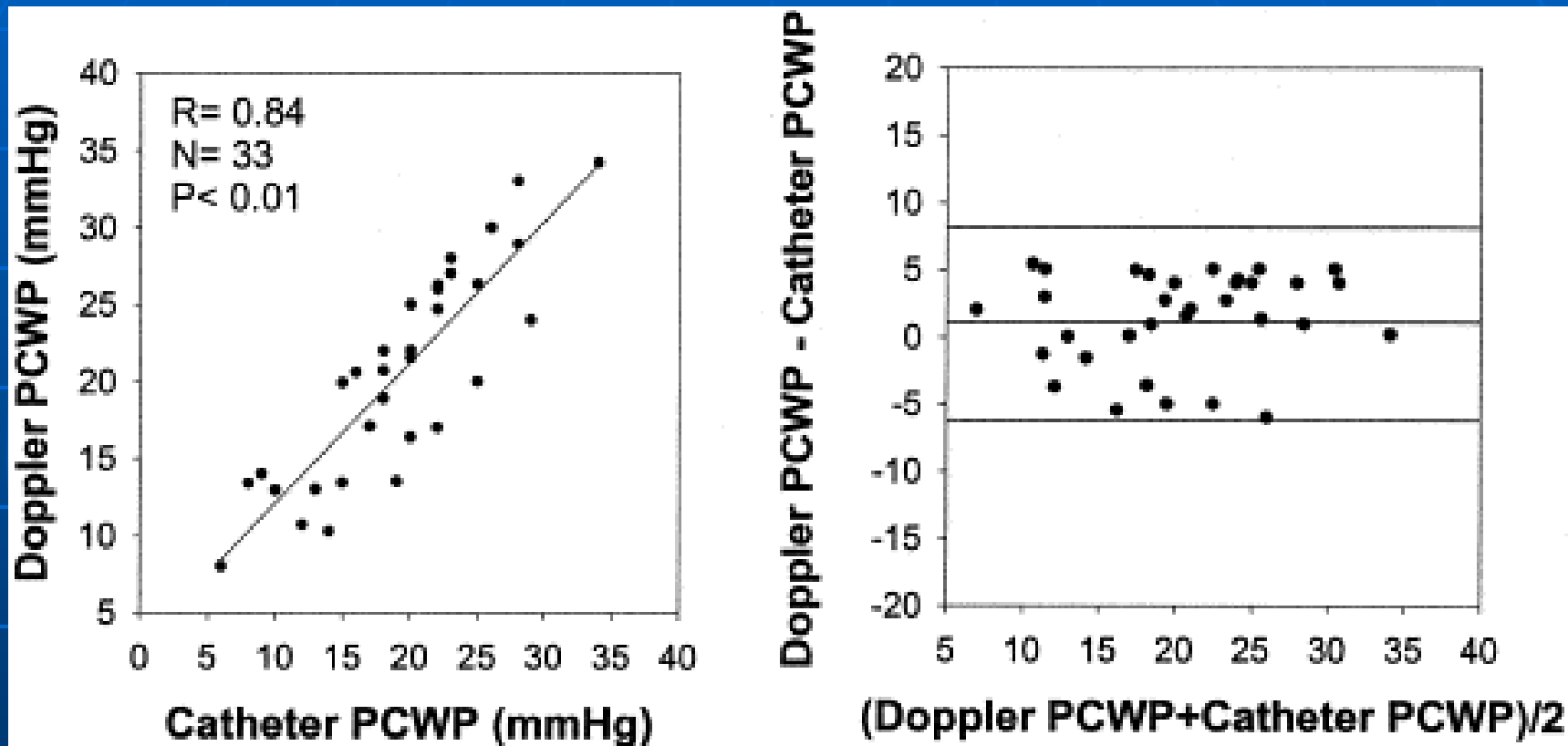








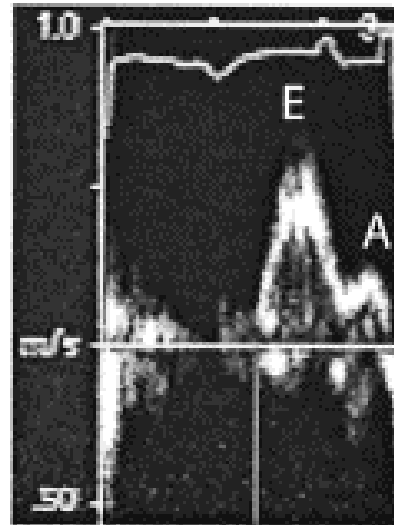
Rivas-Gotz C J Am Coll Cardiol. 2003 Oct 15;42(8):1463-70.



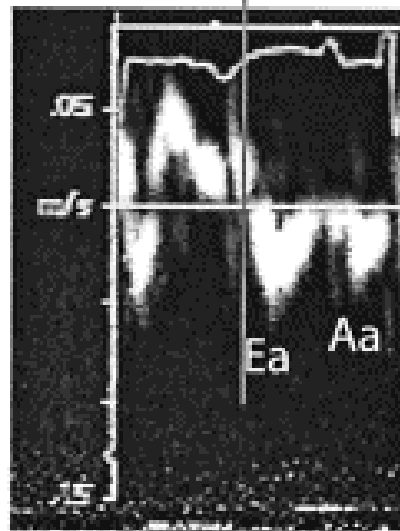
Rivas-Gotz C J Am Coll Cardiol. 2003 Oct 15;42(8):1463-70.

Pre Cx - Constriction

Mitral
Inflow



TD
Septal
Annulus



Post Cx - Constriction

