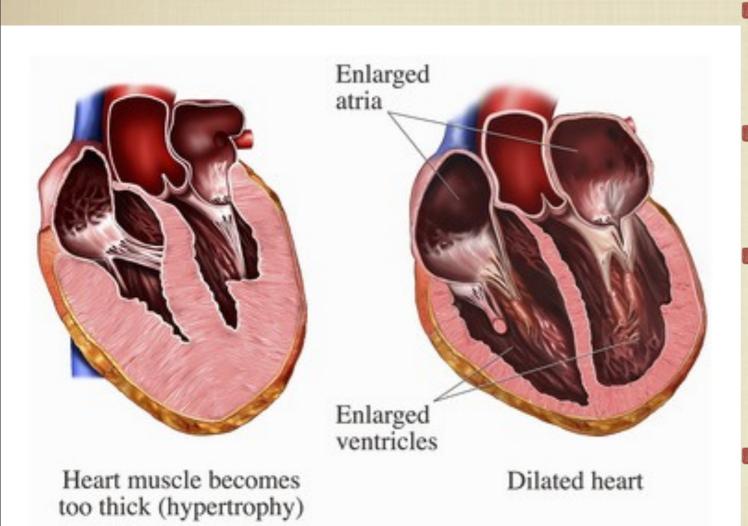
HYPERTROPHY & ENLARGEMENT





HYPERTROPHY means increase in chamber wall thickness.

ENLARGEMENT refers to increase in chamber size.

On EKG, H&E show low sensitivity and a higher specificity for both atria and ventricles

We use always the term ENLARGED or ABNORMAL for ATRIA while for VENTRICLES we use HYPERTROPHY or ENLARGED depending on the findings on echocardiography.

HYPERTROPHY & ENLARGEMENT



Z Sarcomere Z				
		Hypertrophy	Enlargement	
Normal	muscle mass	concentric	eccentric	
	due to overload*	pressure*	volume*	
Concentric hypertrophy	myocyte	thickening	lengthening	
	molecular level	gene expression	gene expression	
	*in case of the pathophysiolo	overload pressure gy is much more cou	or volume nplicated	
		Imuscie mass due to overload* myocyte molecular level *in case of the	Normal Imuscle mass concentric Muscle mass concentric due to overload* pressure* myocyte thickening molecular gene	

Eccentric hypertrophy

Friday, January 1, 2016

HYPERTROPHY & ENLARGEMENT



	ENLARGEMENT	HYPERTROPHY
DEFINITION	chamber size	chamber wall thickness
DUE TO:	volume overload	pressure overload
EKG distinguishes btw E&H	NO	NO
ECHO, MRI distinguishes btw E&H	YES	YES
f muscle mass	atria enlargement or enlarged ventricles	ventricles hypertrophy