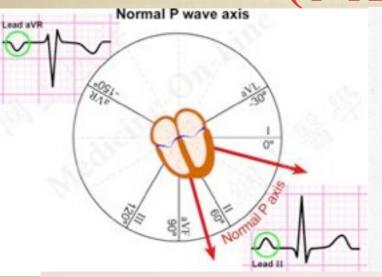
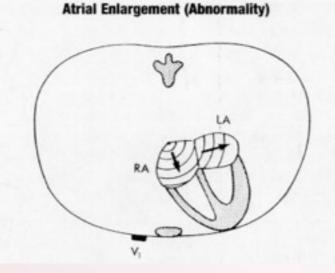
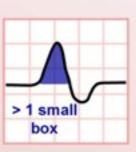
ATRIAL ENLARGEMENT

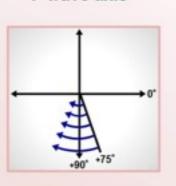
(ABNORMALITY) 1





Lead II Lead V₁ > 2.5mm





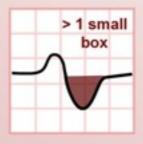
P wave axis

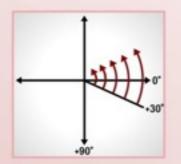
Left Atrial Enlargement

Right Atrial

Enlargement







P wave vector:

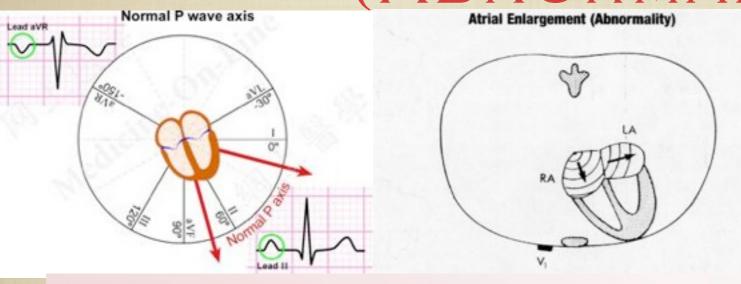
-normal range 30-75 degrees -best seen on EKG in lead II(60 degrees) since it's approx. parallel and same direction with lead II as a positive wave < 2.5 mV -obtained by summation of depolarization vectors RA and LA.

- RA depolarization vector: -normal orientation around 90 degrees pointing to inferior leads -on EKG normally makes the first half of the P wave
- LA depolarization vector: -normal orientation around 0-20 degrees pointing to lateral leads
 - -on EKG normally makes the second half of the P wave

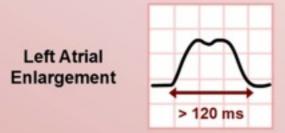
ATRIAL ENLARGEMENT

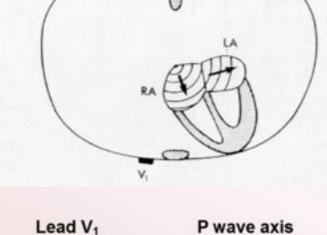
(ABNORMALITY)2

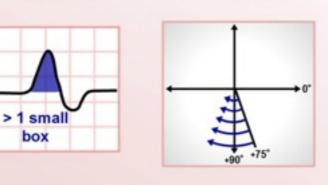




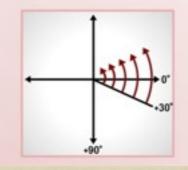
Lead II **Right Atrial Enlargement** > 2.5mm



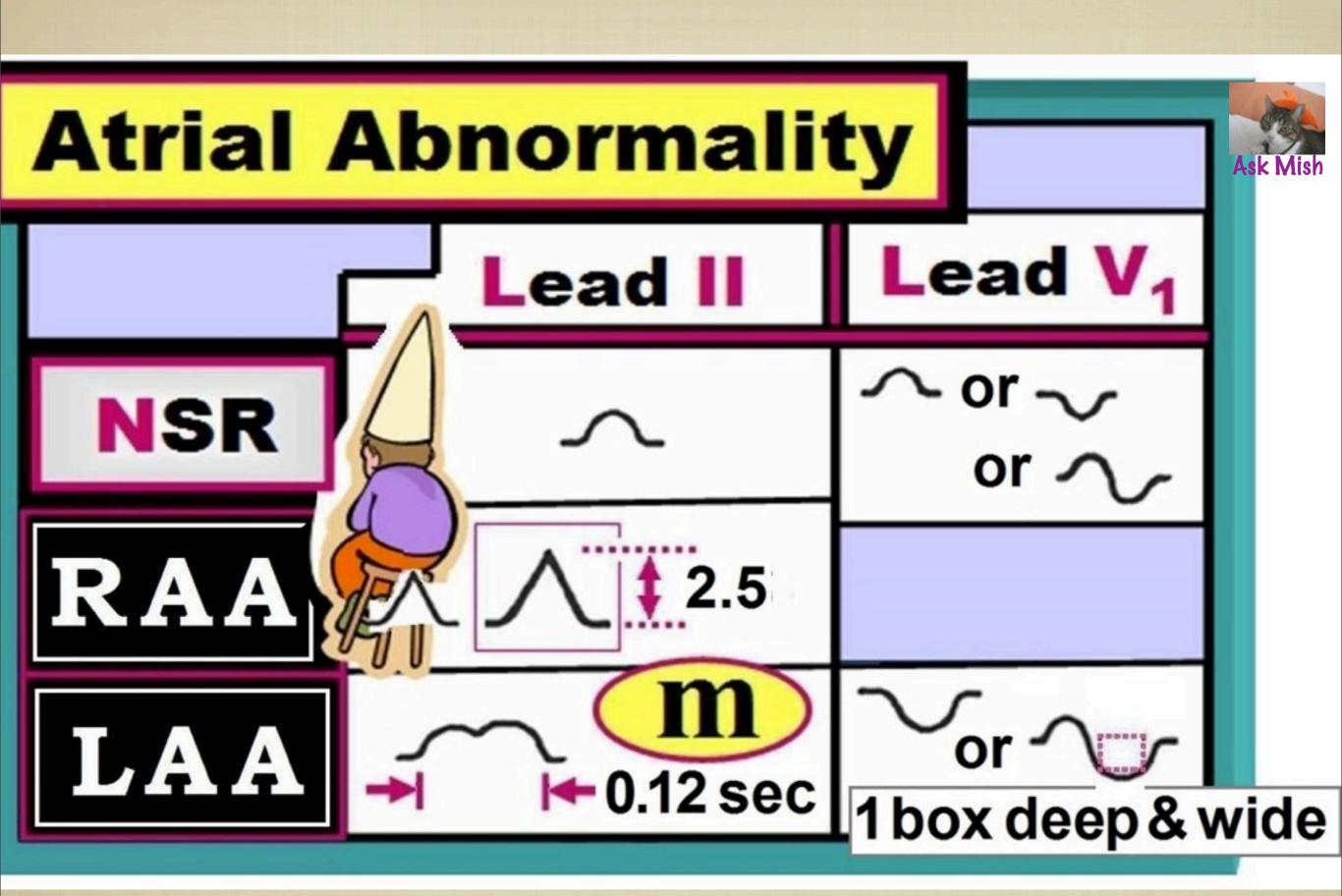




> 1 small box



Enlargement	RA	LA
Vector depolarization	↑RA	↑ LA
P wave	1st half 1 & covers 2nd half	2nd half &delayed
Lead II	tall p > 2.5 mV	m p > 0.12 s
LeadV ₁	tall p > 1 small box	deep p > 1 small box



HYPERTROPHY & ENLARGEMENT Paxis <30 >75 >2.5 mV **▽**0.1 mV QRSaxis LAD -30 +90