SNS COLLEGE OF ALLIED HEALTH SCIENCE, COIMBATORE -35

(Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai) **B.Sc. CARDIAC TECHNOLOGY-II-YEAR**



SUBJECT CODE & NAME -1533- ECHOCARDIOGRAPHY UNIT 1 – TRANSTHORACIC ECHOCARDIOGRAPHY (TTE) DOPPLER: PW, CW, COLOR & CARDIAC DIMENSIONS.

Brainstorm & Logic Puzzles for TTE Doppler and Cardiac Dimensions

I Riddle — Aliasing Mystery
I measure flow, sometimes low, sometimes high,
On PW Doppler,
I twist and I fly.
Colors flip, trace jumps, a trick on the screen,
Switch me to CW, and I'll stay clean.

Question: What am I?

From Aliased to Clean Doppler Signal

Aliased PW	Identify Aliasing	Switch to CW Doppler	Clean CW
Doppler Unreliable flow	Recognize flipped colors	Change mode for accurate	Doppler Accurate flow
measurement	and jumps	reading	measurement
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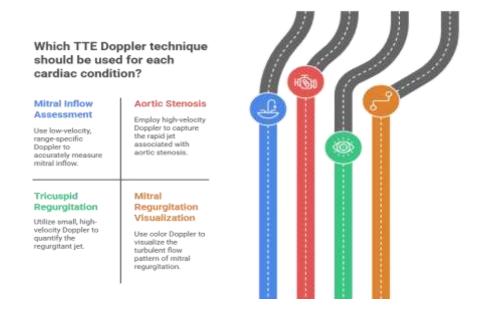
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Logic Puzzle — Probe Choice

You have four patients:



- 1. Mitral inflow assessment (low velocity, need range specificity)
- 2. Aortic stenosis (high velocity jet)
- 3. Tricuspid regurgitation quantification (small high-velocity jet)
- 4. Visualizing turbulent mitral regurgitation (color pattern)

Puzzle: Match each patient with the correct Doppler mode: PW, CW, or Color. Only one mode per patient

Which Doppler mode should be assigned to each patient?

