



Παραδείγματα τυπικών ηλεκτροφυσιολογικών μελετών

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Supraventricular Tachycardias

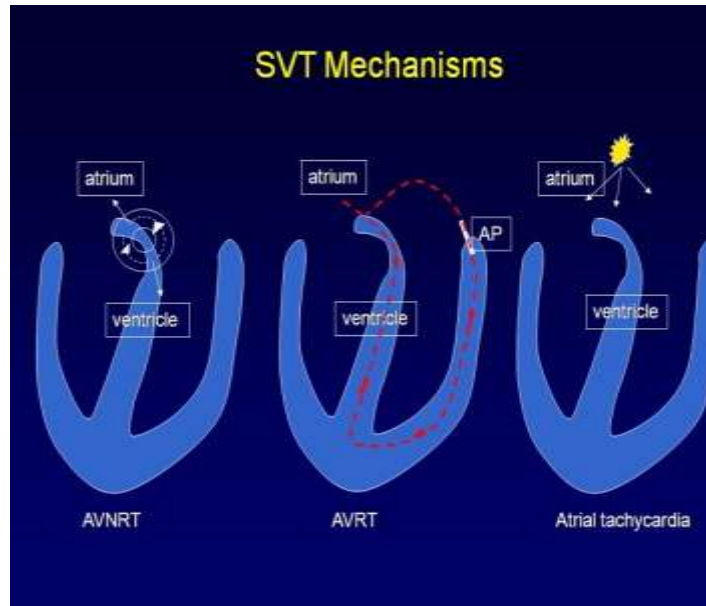
Differential Diagnosis

AV node dependent

AV node Independent

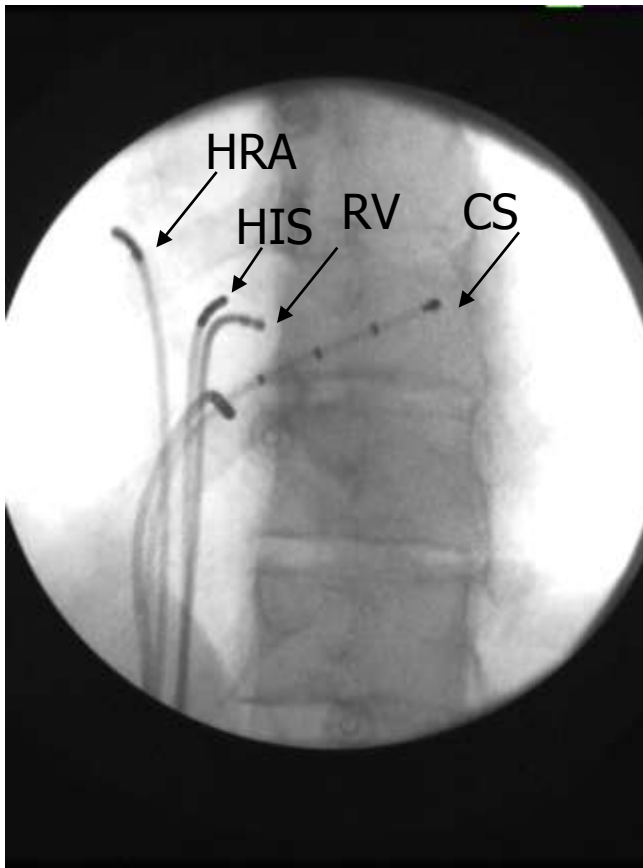
- AVNRT
Typical
Atypical

- AVRT
Orthodromic
Antidromic

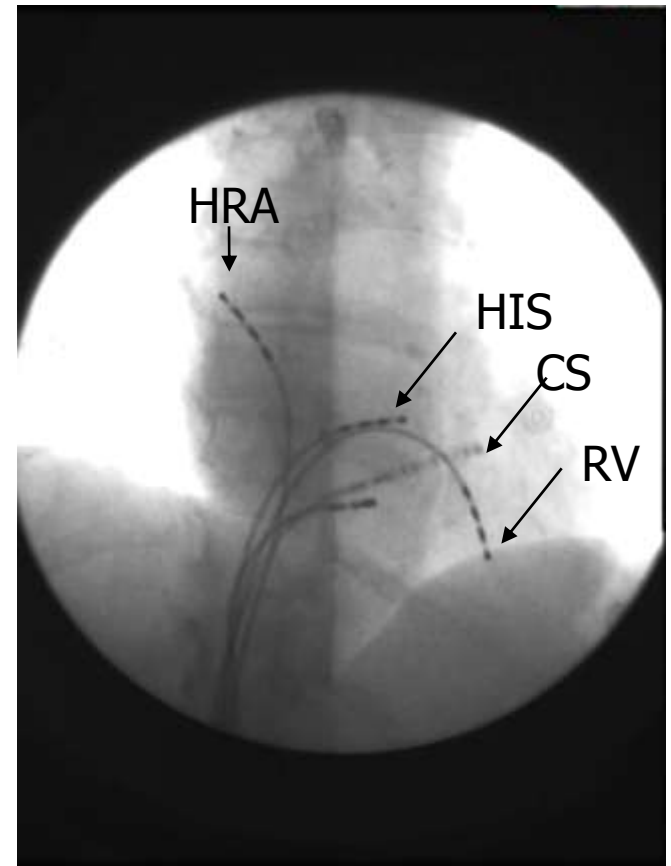


- Atrial Tachycardia

Diagnostic catheters in EPS



LAO



RAO

Baseline pacing to define the electrophysiological substrate

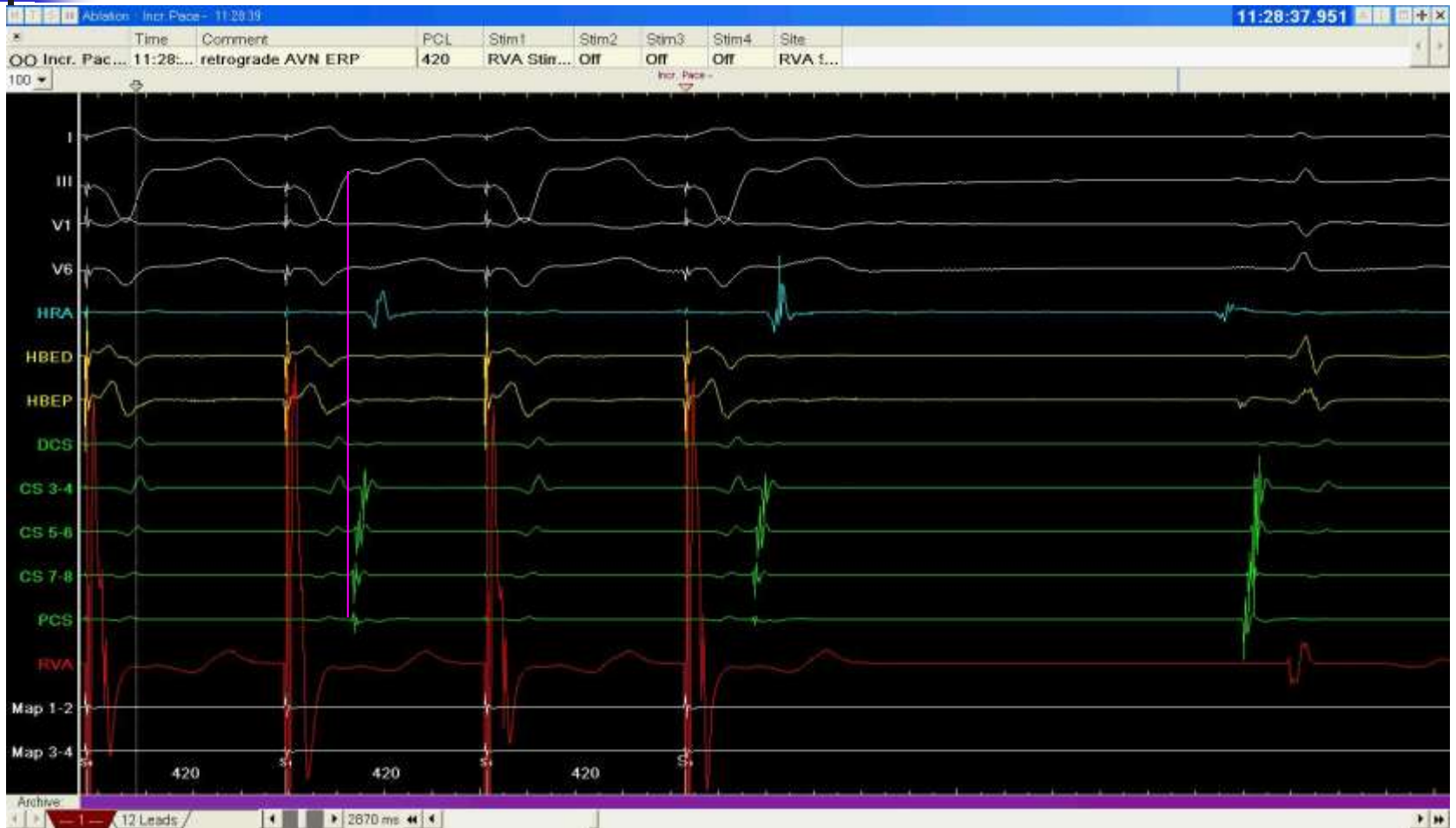
Pace from RV apex

- presence or **absence** of retrograde conduction
- pattern of atrial activation (**concentric or eccentric**)
- pattern of retrograde conduction (**decremental or fixed**)

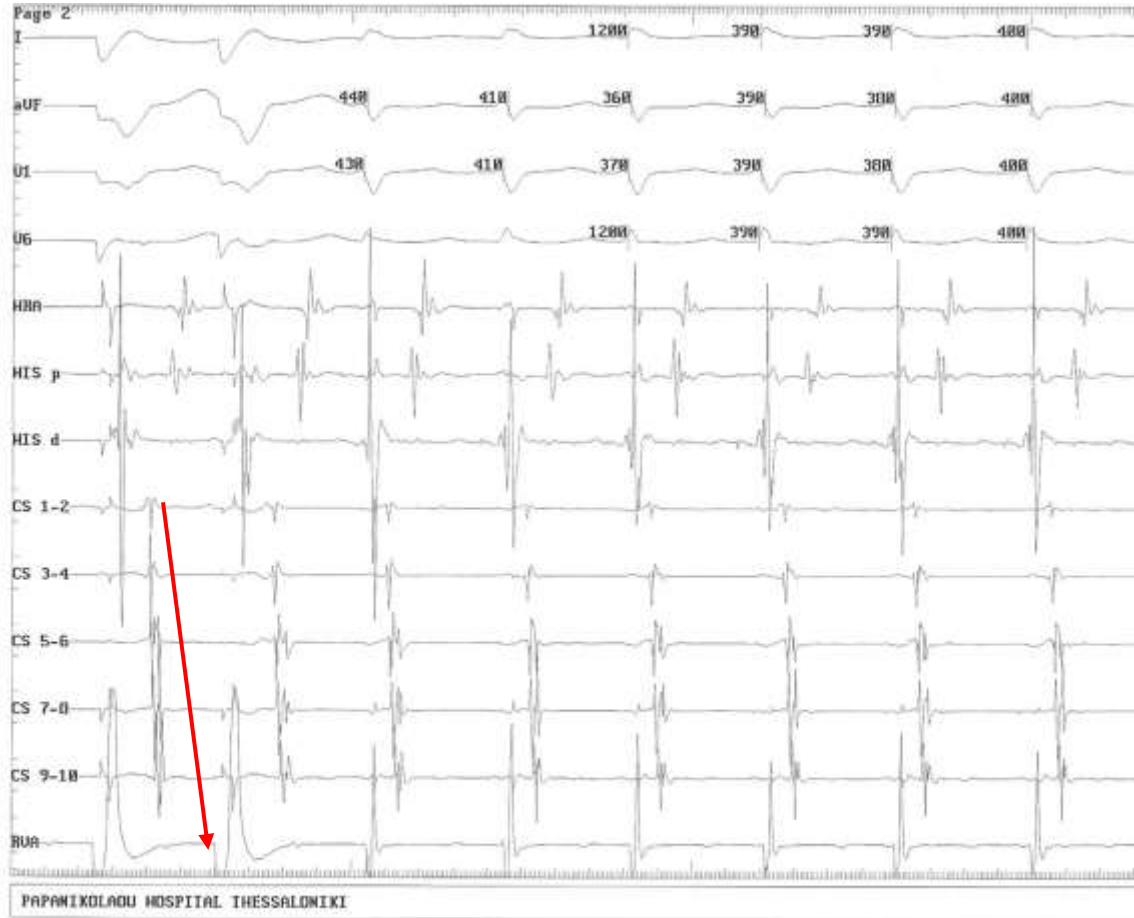
VA Dissociation



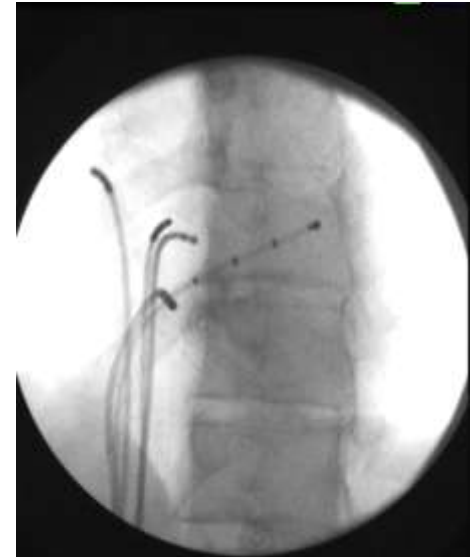
Concentric conduction



Eccentric conduction



Cs distal
↓
CS prox



Baseline pacing to define the electrophysiological substrate

Pace from RV apex

- **presence or absence of retrograde conduction**

absence VA conduction \Rightarrow accessory pathway (AP) mediated tachycardia very unlikely

- **pattern of atrial activation (concentric or eccentric)**

Eccentric \Rightarrow accessory pathway mediated tachycardia likely

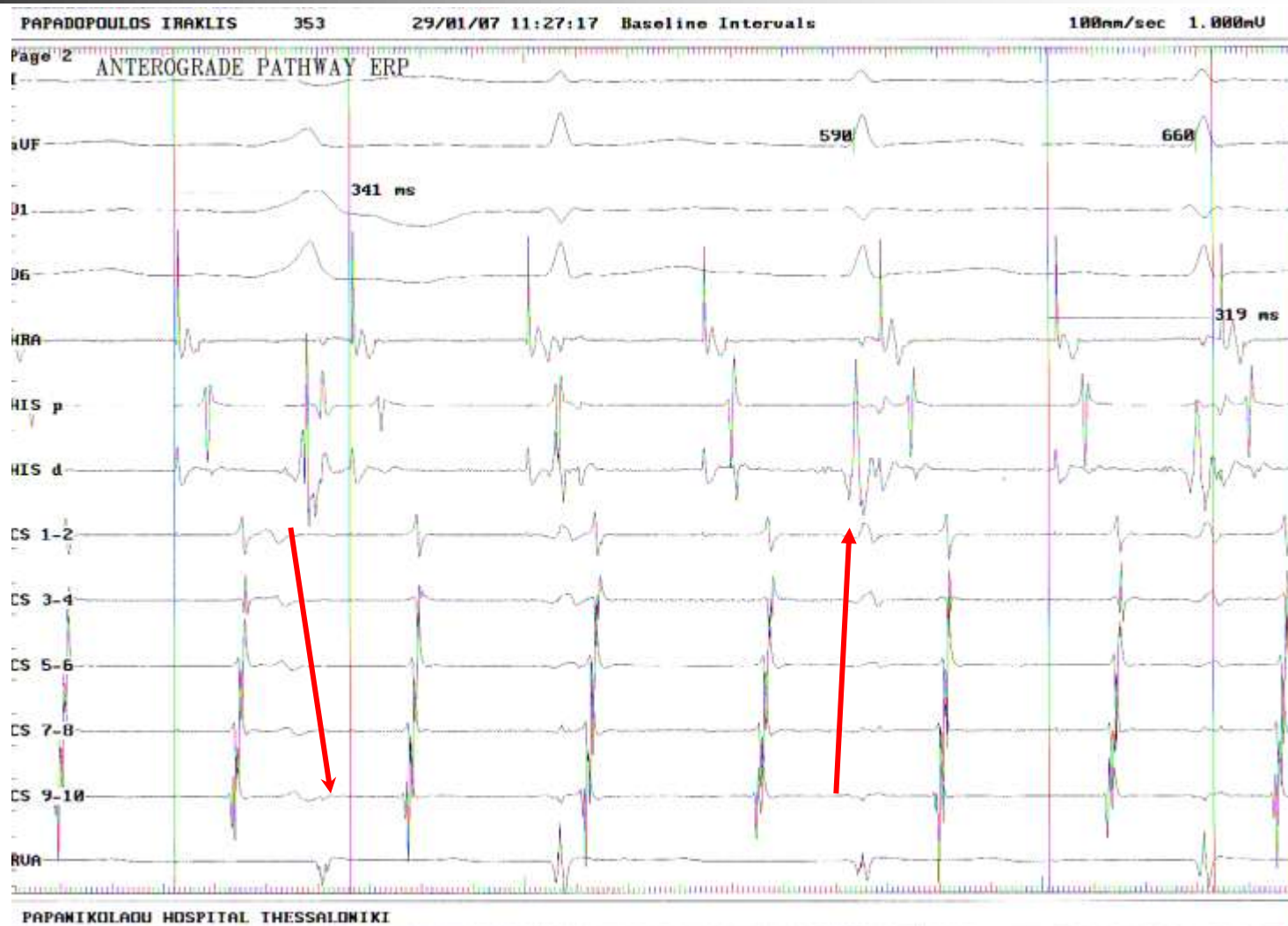


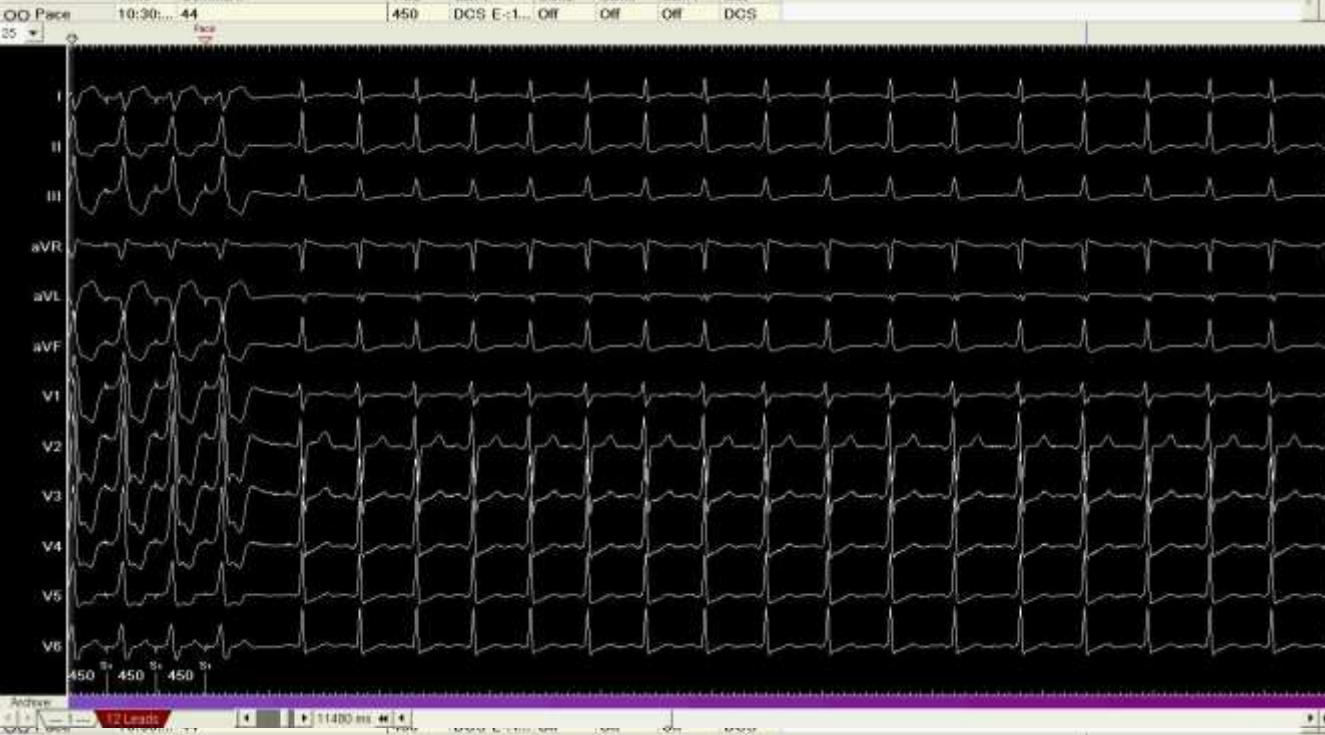
Baseline pacing to define the electrophysiological substrate

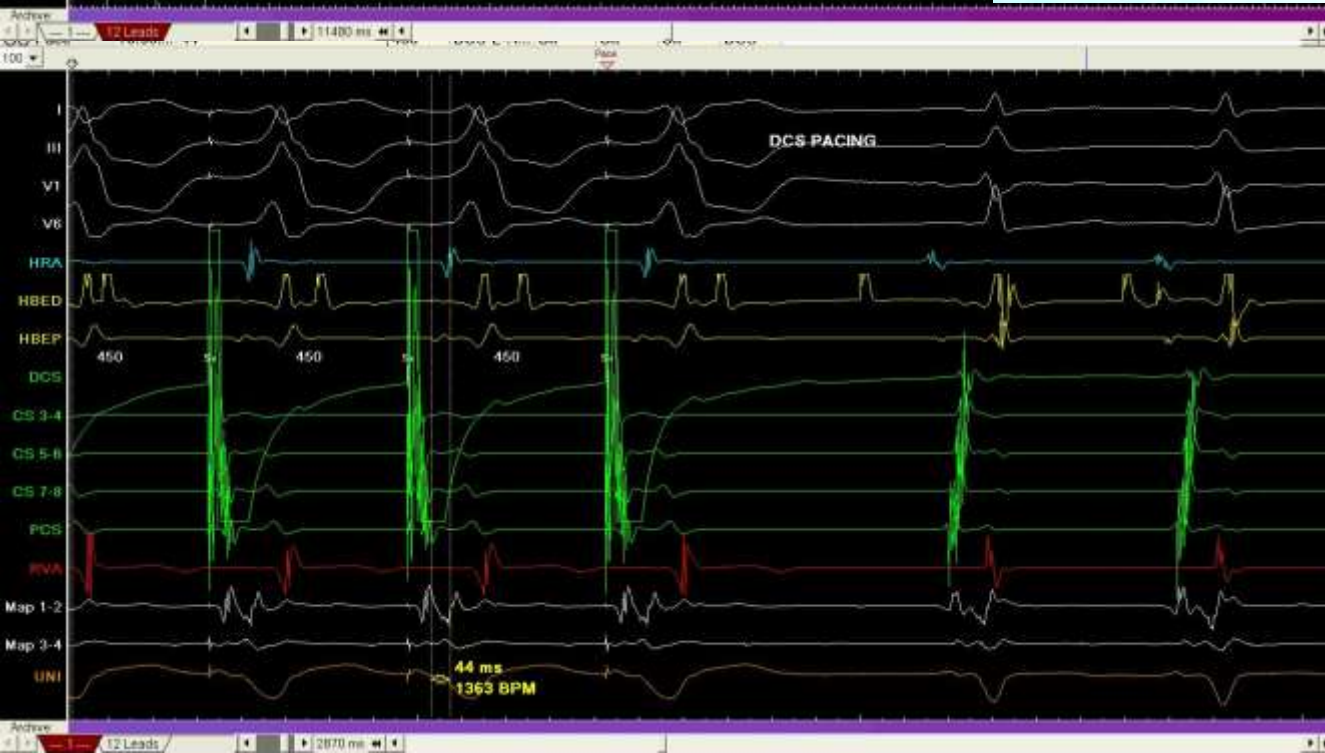
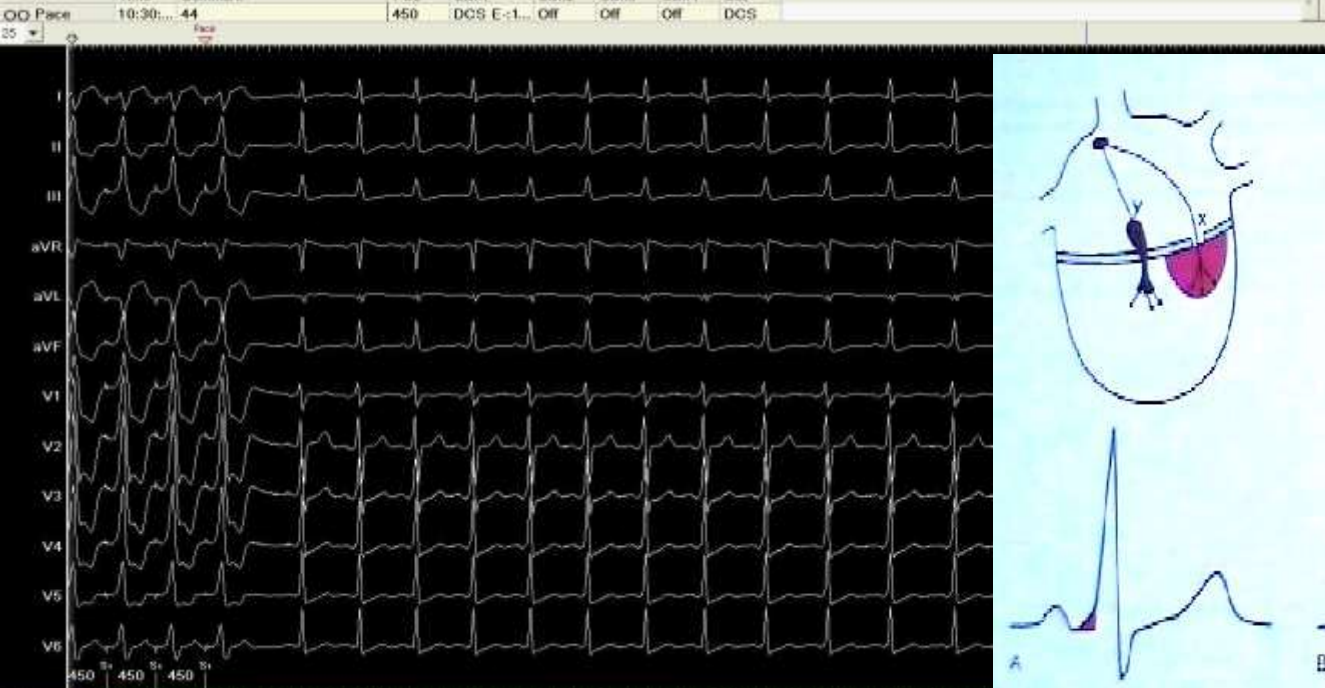
- Atrial Pacing

- Ventricular activation pattern (concentric or eccentric)

Ventricular activation pattern: concentric or eccentric?







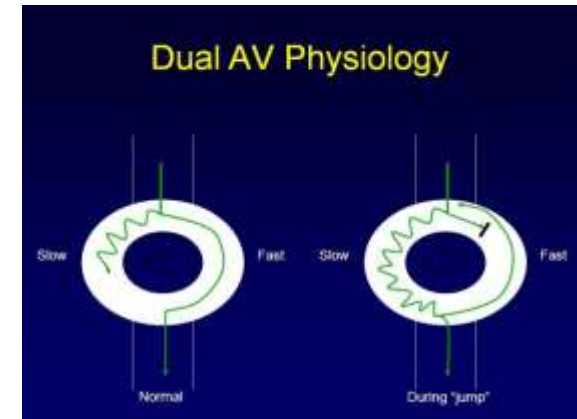
Baseline pacing to define the electrophysiological substrate



- Atrial Pacing

- Is dual AV nodal pathway physiology present?

Is dual AV nodal pathway physiology present?





SVT induction and termination with pacing or spontaneously

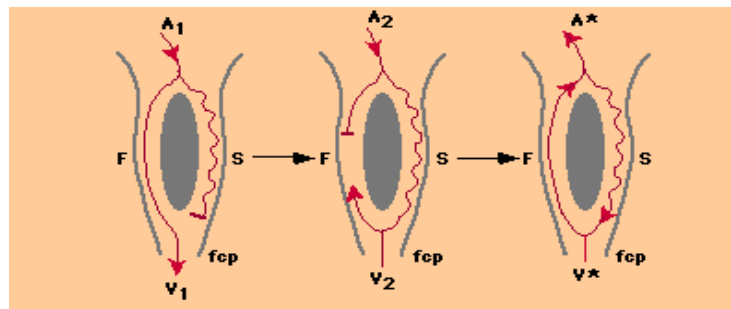
Induction with atrial pacing

- If SVT initiated with AH jump favors typical AVNRT

Assess VA interval during SVT

<70 msec ⇒ AVNRT



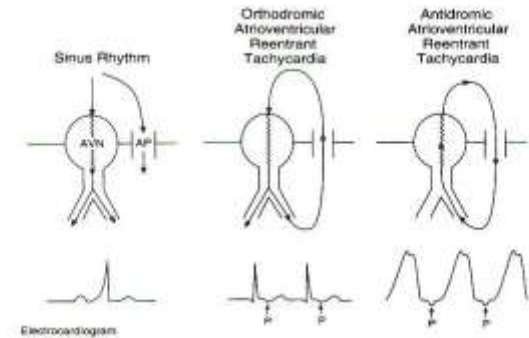
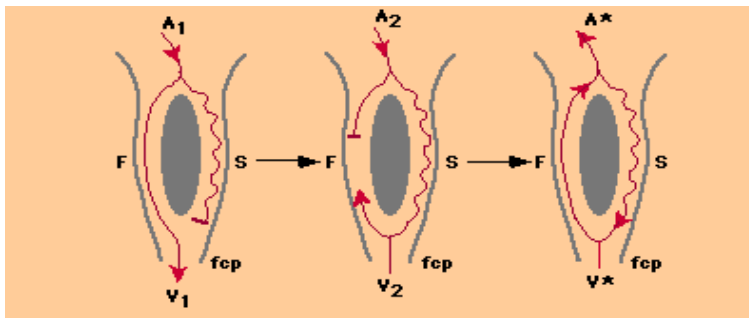


Assess VA interval during SVT

Short VA (<70msec)
AVNRT

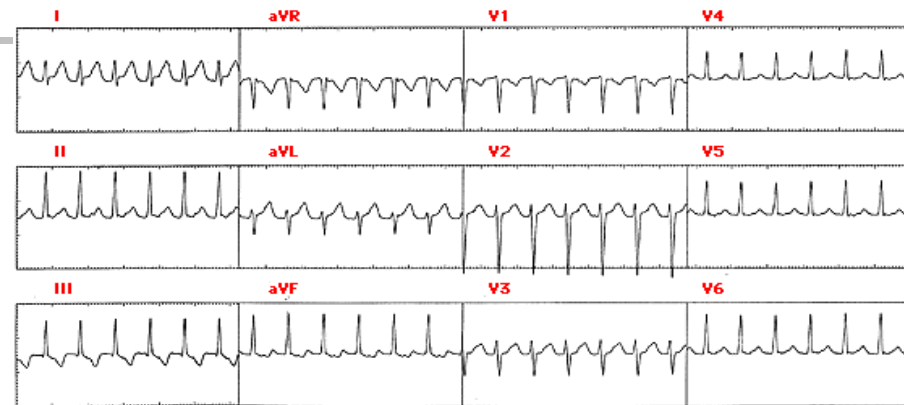
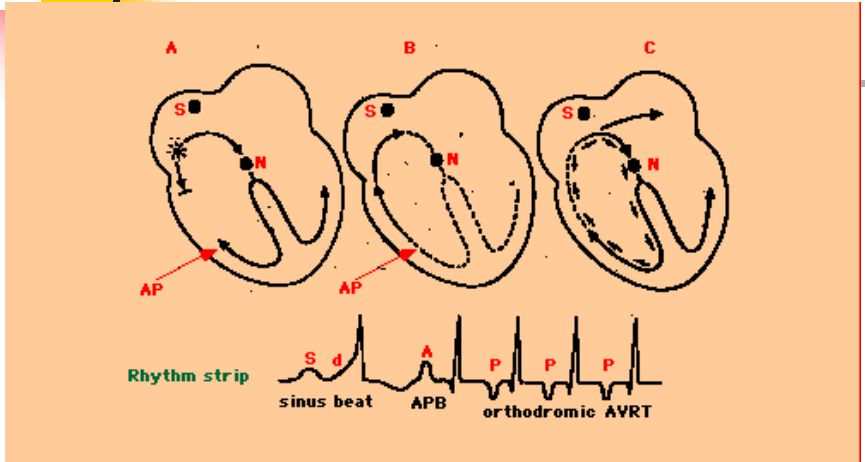


long VA (>70msec)
AVRT



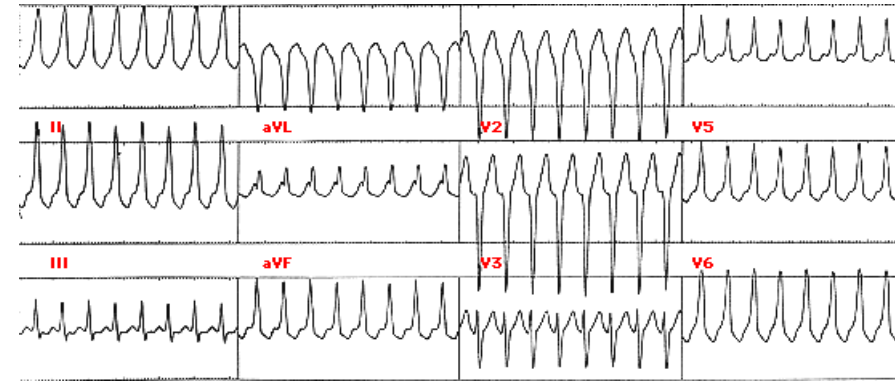
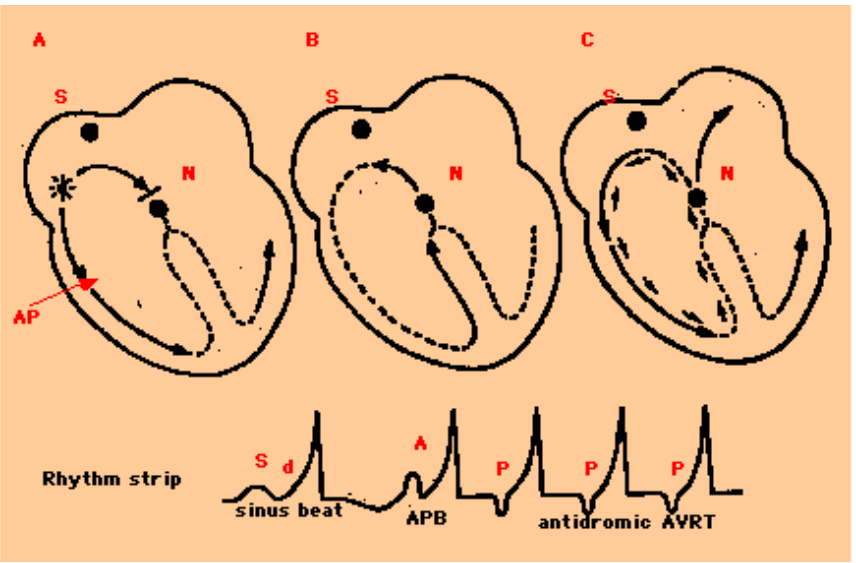
Αρρυθμίες σχετιζόμενες με το σύνδρομο WPW

Ορθόδρομη κυκλική ταχυκαρδία



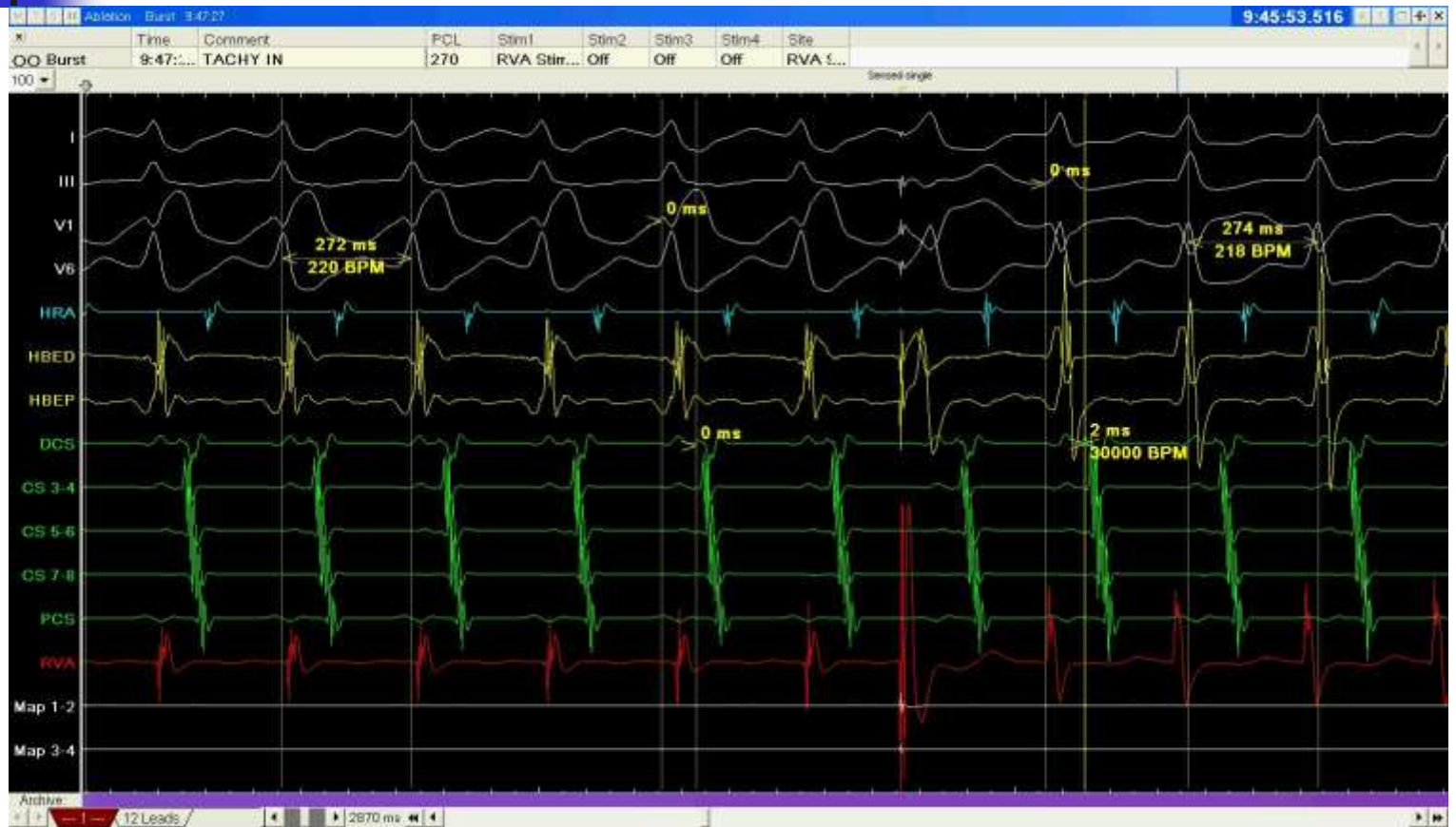
70%

Αντίδρομη κυκλική ταχυκαρδία



10%









techniques during SVT

➤ effect of His synchronous VPCs

advance A ?

terminates tachycardia with or without A ?

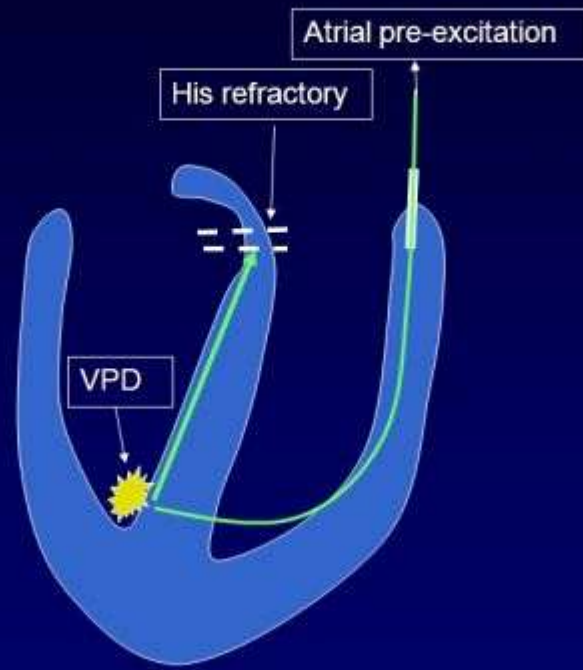
➤ effect of BBB on tachycardia CL and VA interval

Increase in VA > 20msec diagnostic of ipsilateral pathway

- LBBB ⇨ Left pathway
- RBBB ⇨ Right pathway

effect of His synchronous VPCs

His synchronous VPD in presence of accessory pathway



Time	Comment	Stim1	Stim2	Stim3	Stim4	Cycle	Stimuli	Site
OO Sensed s...	12:00:...	NO RESET	RVA Stir...	Off	Off	Off	Sense S _a	RVA t...



His synchronous

