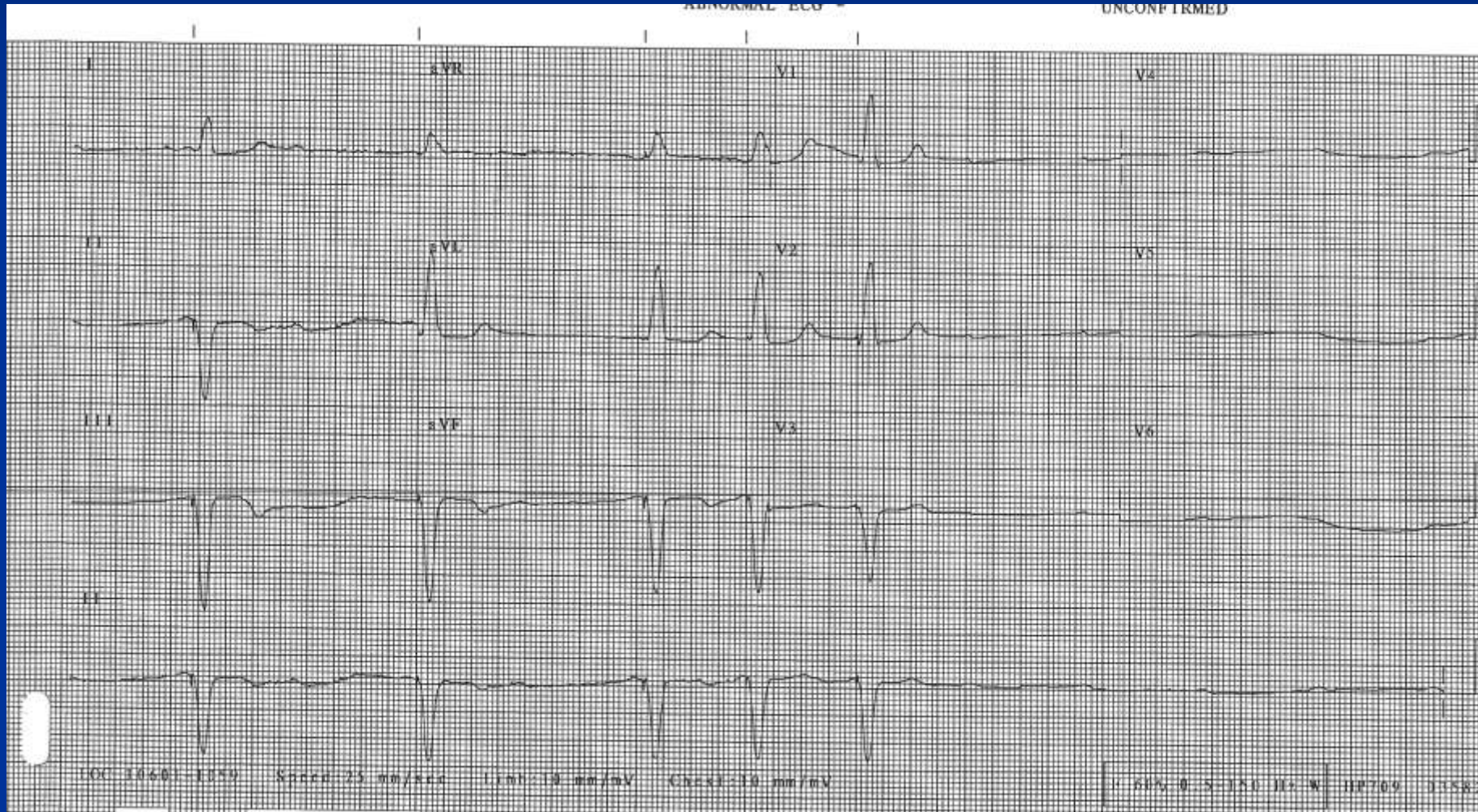


ICD Case Studies

63 year old with dual chamber ICD presents with recurrent ICD discharges to ED



Interrogation

ICD Model: InSync Maximo 7303

Serial Number: PRL106731H

Date of Visit: Mar 26, 2008

[REDACTED]

Quick Look

Patient, ICD and Lead Information

Physician: [REDACTED] Phone: 757-395-5300

ICD	Medtronic	InSync Maximo 7303	PRL106731H	
Atrial	Medtronic	5075 CapSureFix® Novus	PJN505326V	Nov 11, 2004
R/SVC	Medtronic	6949	LFJ019691V	Nov 11, 2004
LV	Medtronic	4194	LFG007788V	Nov 11, 2004

ICD Status

Battery Voltage (ERL)=2.62 V on Mar 25, 2008	2.62 V ERL	Mar 26, 2008
Last Full Energy Charge	9.13 sec	Nov 13, 2007
Last Capacitor Formation (interval=Auto)		Nov 13, 2007

Lead Performance	Atrial	R/S	LV	
EGM Amplitude	2.5 mV	Not Taken		Mar 26, 2008
Pacing Impedance	504 ohms	928 ohms	775 ohms	Mar 26, 2008
Defibrillation Impedance		42 ohms		Mar 26, 2008
SVC Impedance	50 ohms			Mar 26, 2008

Parameter Summary

Type	Detection	Rx1	Rx2	Rx3	Rx4	Rx5	Rx6
VF	On	25 J	35 J	35 J	35 J	35 J	35 J
FVT	On	Burst/EY	25 J	35 J	35 J	35 J	35 J
VT	On						

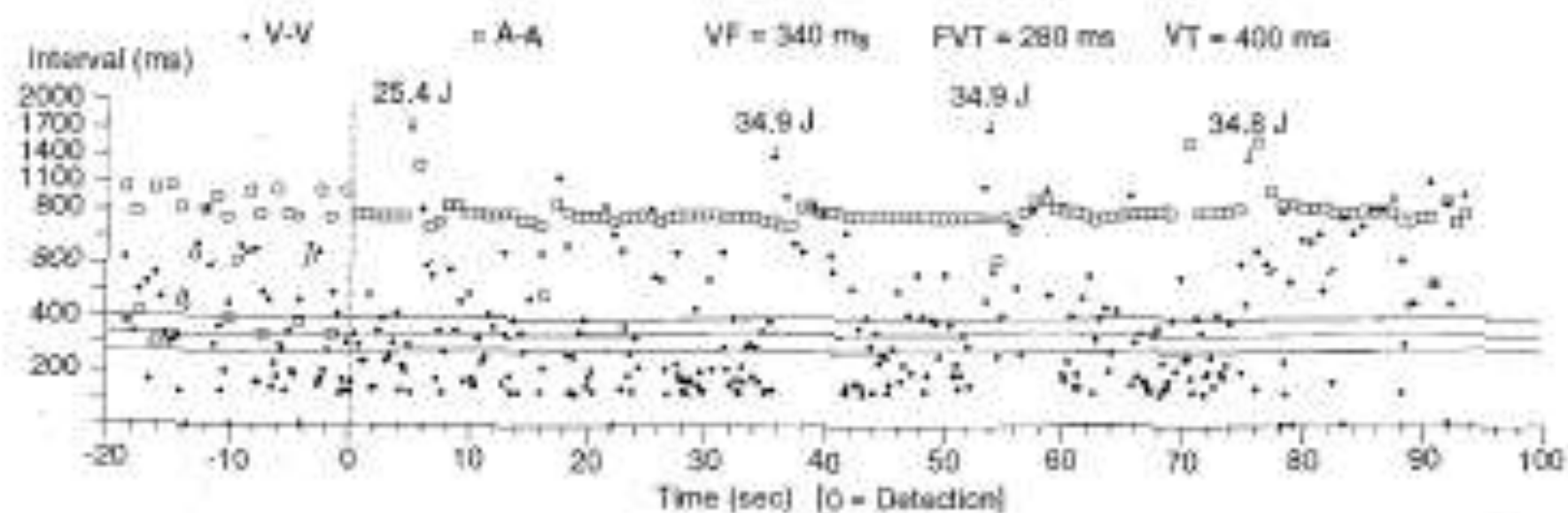
Clinical Status: Since Oct 24, 2007

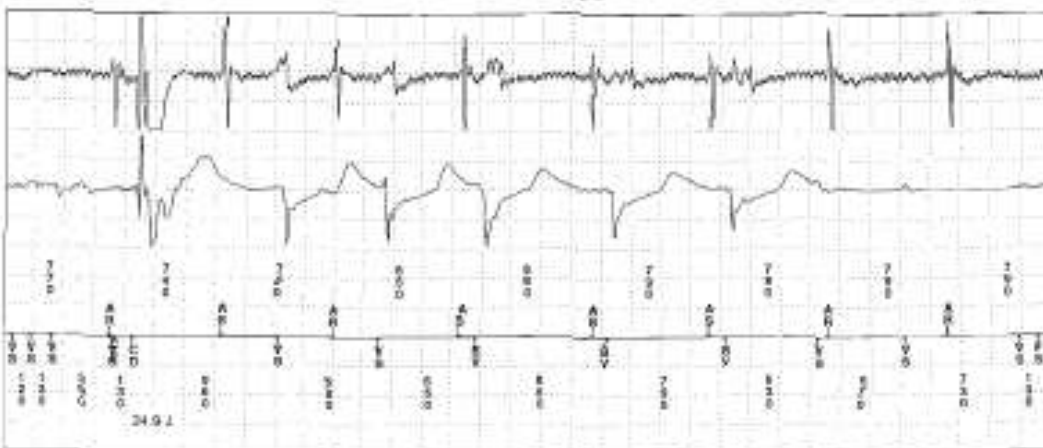
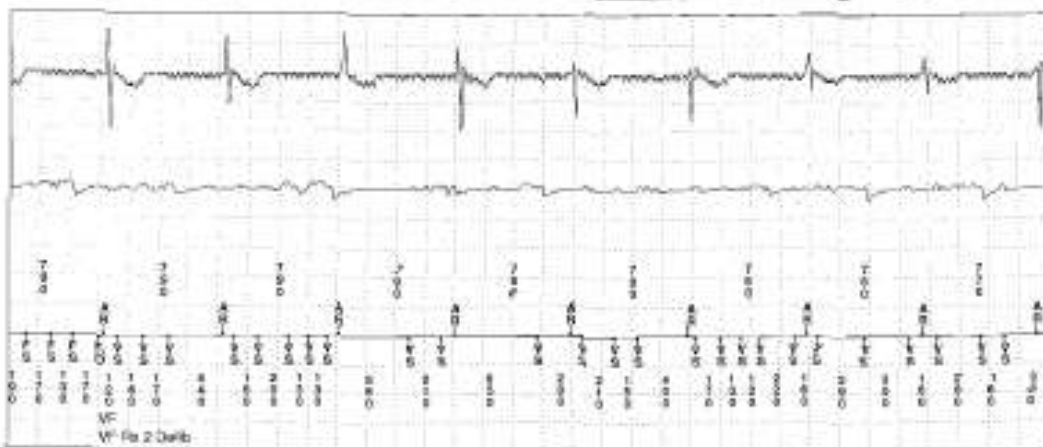
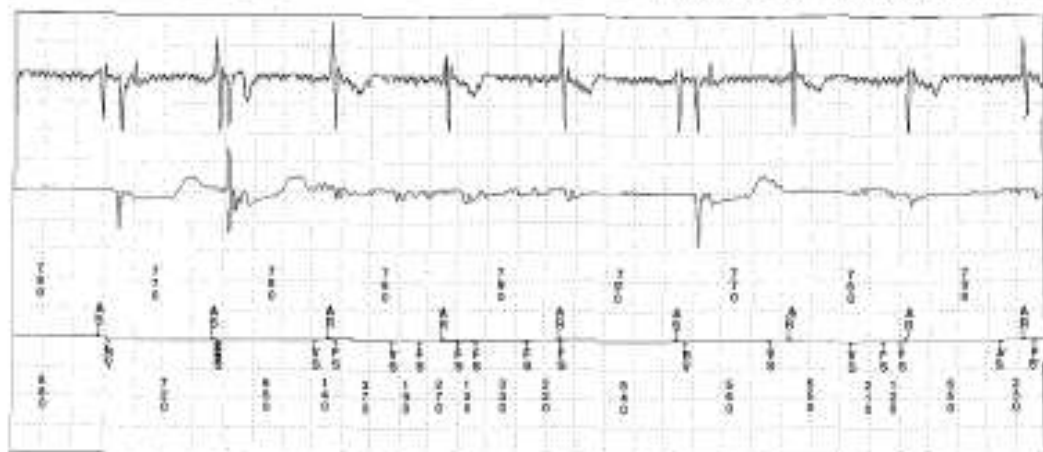
Episodes		Pacing	
VF	28	AS-VS	<0.1 %
FVT	0	AS-VP	92.8 %
VT	0	AP-VS	<0.1 %
SVT	0	AP-VP	7.2 %
NST and Others	520		
Mode Switch	1		

Observations (11)

- Battery voltage is <= 2.62 V. ERL Replacement of the ICD is recommended.
- 5888 V-V intervals have been sensed at 120 or 130ms since Mar 25, 2008 14:58:55. Check for sensing issues (e.g. double counting of R-waves, lead fracture, loose set screw).
- Patient Alert triggered - VF detection Off, three or more VF therapies Off.
- 2 VF episodes indicate last therapy was not successful. Most recent was Episode #28, Mar 25, 2008 03:42:55.
- 13 VF episodes indicate more than one therapy was attempted. Most recent was Episode #29, Mar 26, 2008 03:46:39.
- 19 VF episodes were longer than 30 seconds. Most recent was Episode #29, Mar 26, 2008 03:46:39.
- Longest ventricular sensing episode Since Last Session is greater than 60 seconds.

ID#	Date/Time	Type	V. Cycle	Last Rx	Success	Duration
29	Mar 26 03:48:39	VF	180 ms	VF Rx 4	Yes	1.4 min





- What is the problem?
- How do you manage this?

Upgrade of Separate ICD and Dual Chamber pacemakers to combined BiV ICD

- Explanted ICD from abdominal site
- Removed ventricular pace sensed lead from pacemaker from Right side
- Implanted New RV ICD lead and LV lead retaining old atrial lead from explanted dual chamber pacemaker on right side
- DFTs performed and unable to convert at 41J delivered
 - Now what?

