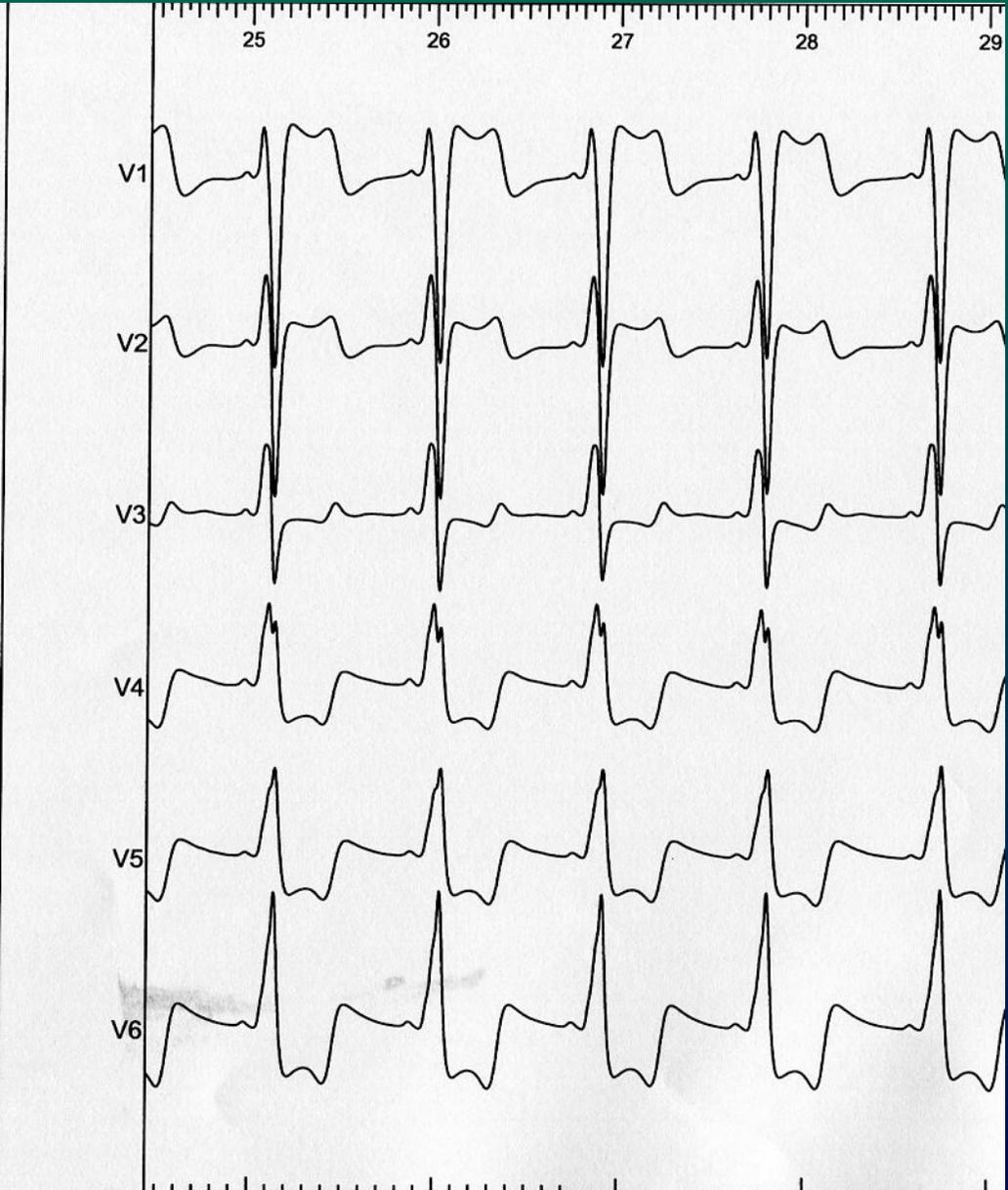
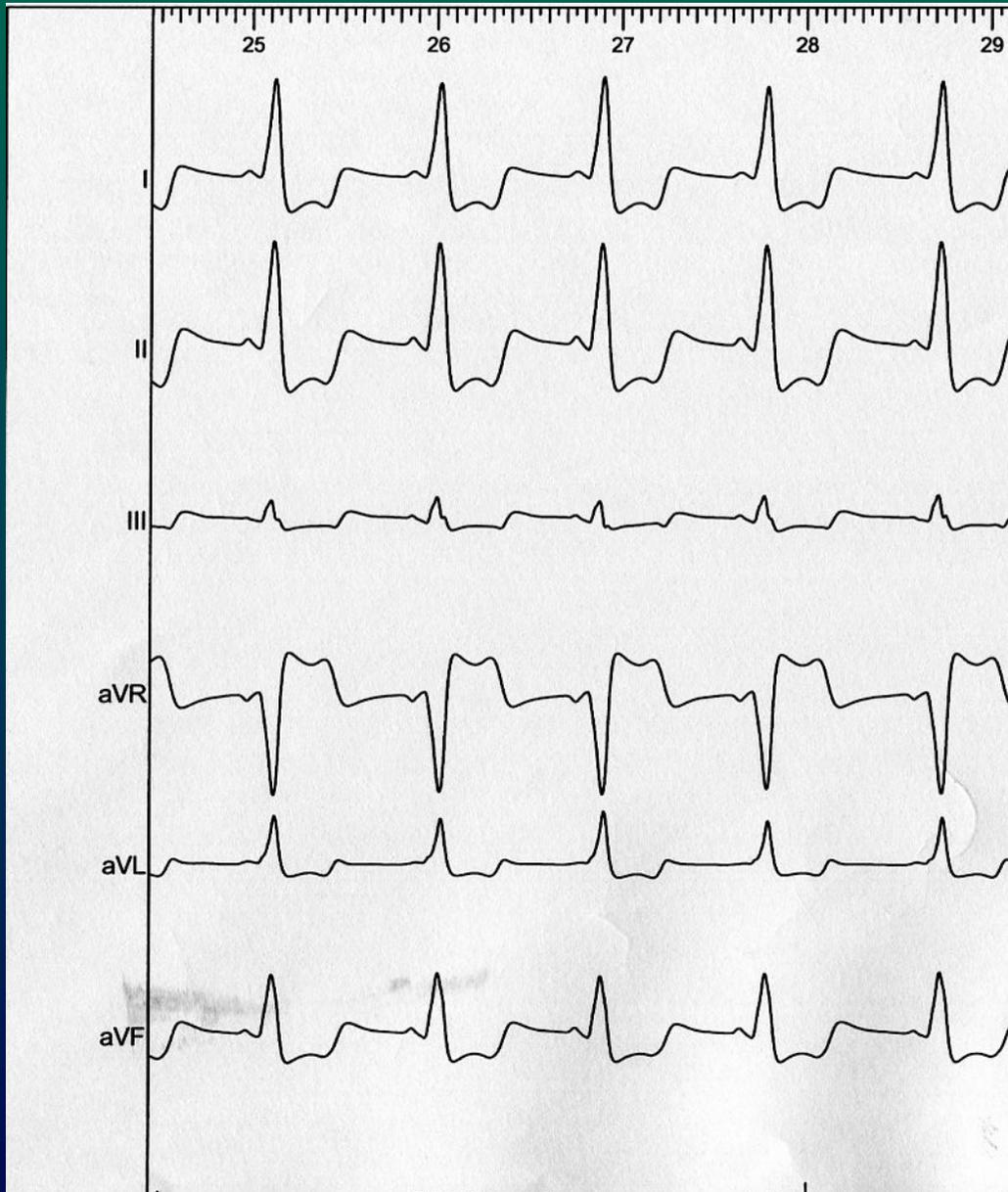
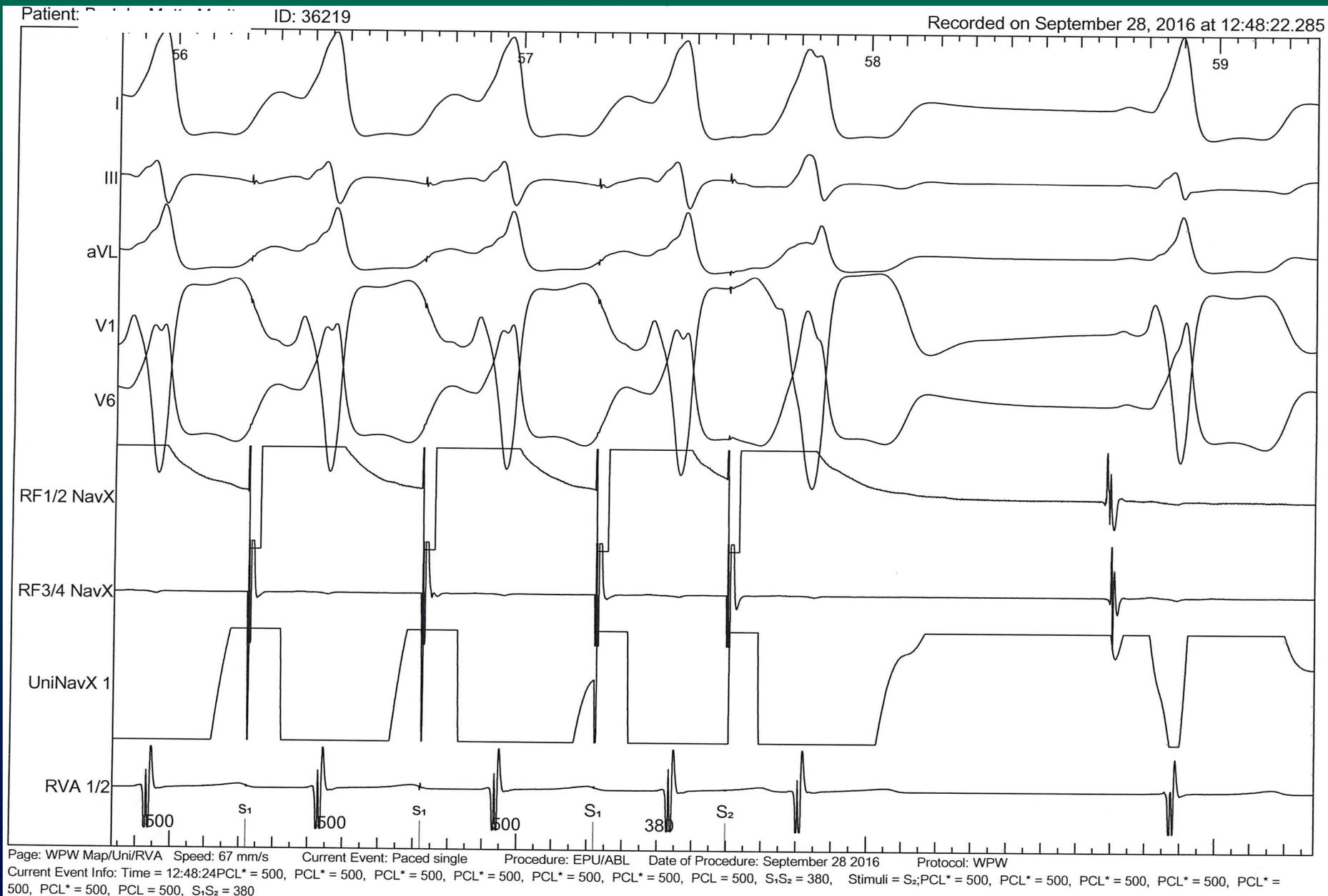


f, 17 yoi, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yoi

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



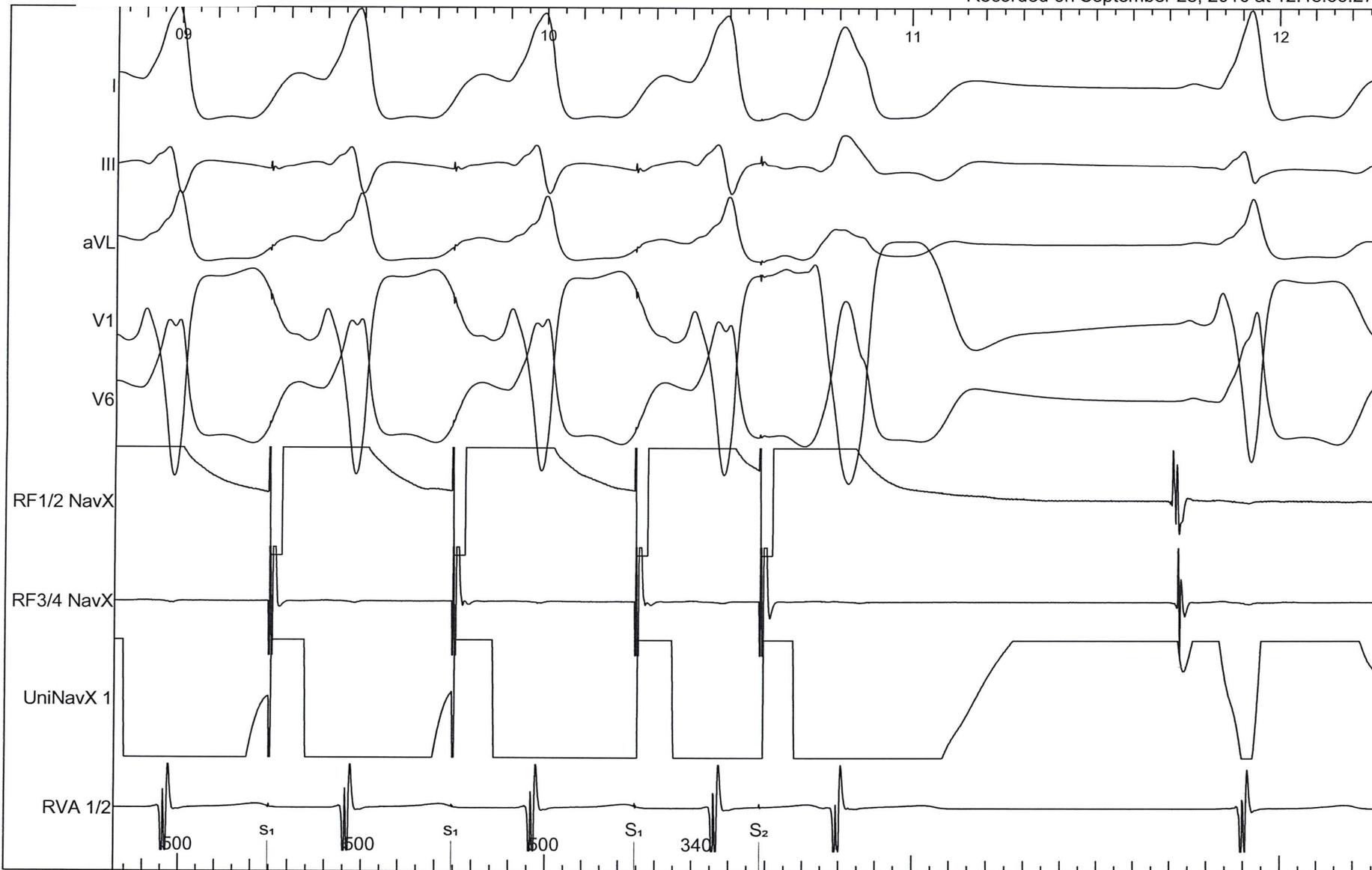
a-pace + 1 extra-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

Patient:

ID: 36219

Recorded on September 28, 2016 at 12:48:35.272



Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: Paced single Procedure: EPU/ABL Date of Procedure: September 28 2016 Protocol: WPW
Current Event Info: Time = 12:48:37PCL* = 500, PCL* = 500, PCL = 500, S1S2 = 340, Stimuli = S2:PCL* = 500, PCL* = 500, PCL = 500, S1S2 = 340

a-pace + 1 extra-stim



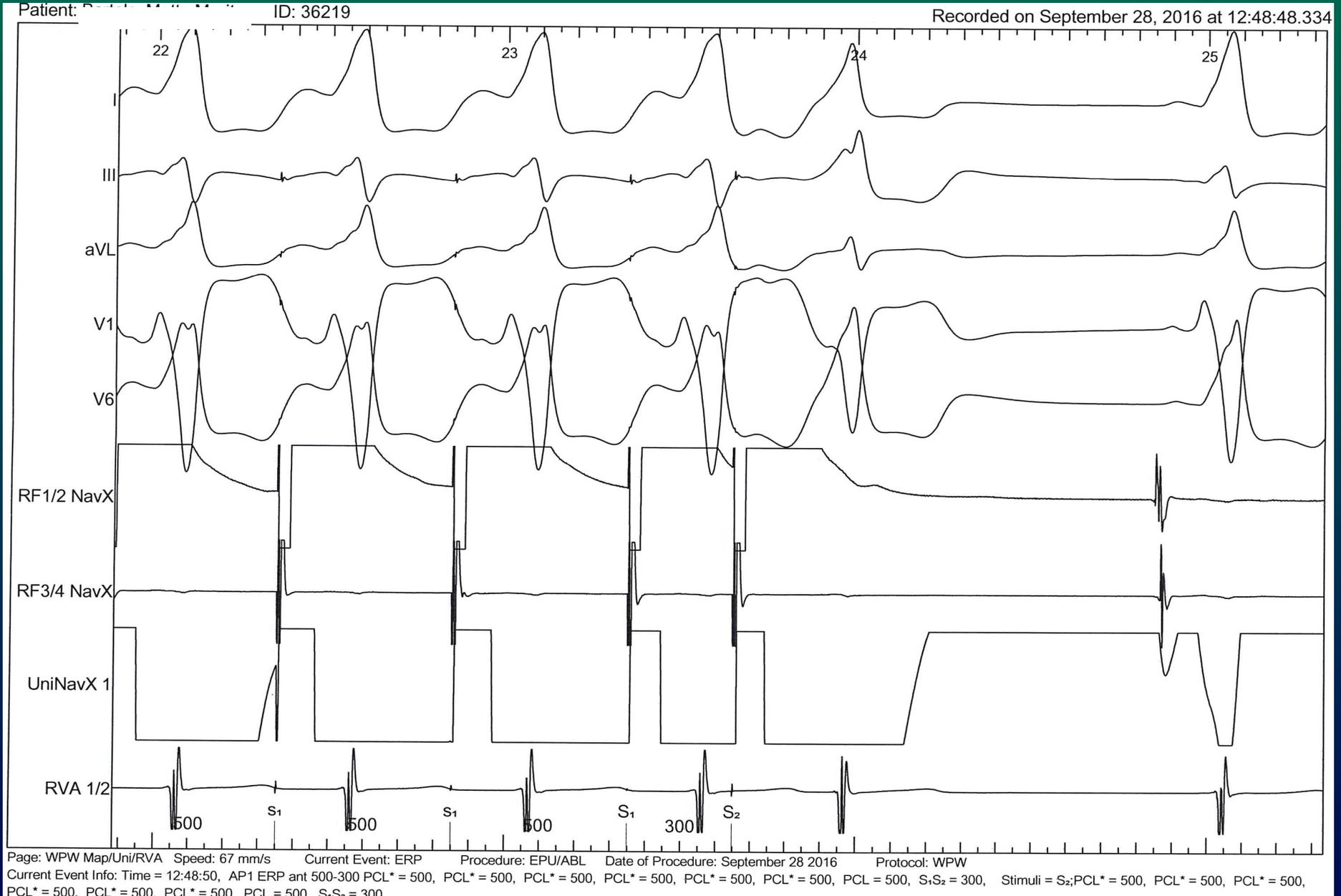
f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: Paced single Procedure: EPU/ABL Date of Procedure: September 28 2016 Protocol: WPW
Current Event Info: Time = 12:48:43PCL* = 500, PCL* = 500, PCL = 500, S₁S₂ = 320, Stimuli = S₂;PCL* = 500, PCL* = 500, PCL = 500, S₁S₂ = 320

a-pace + 1 extra-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

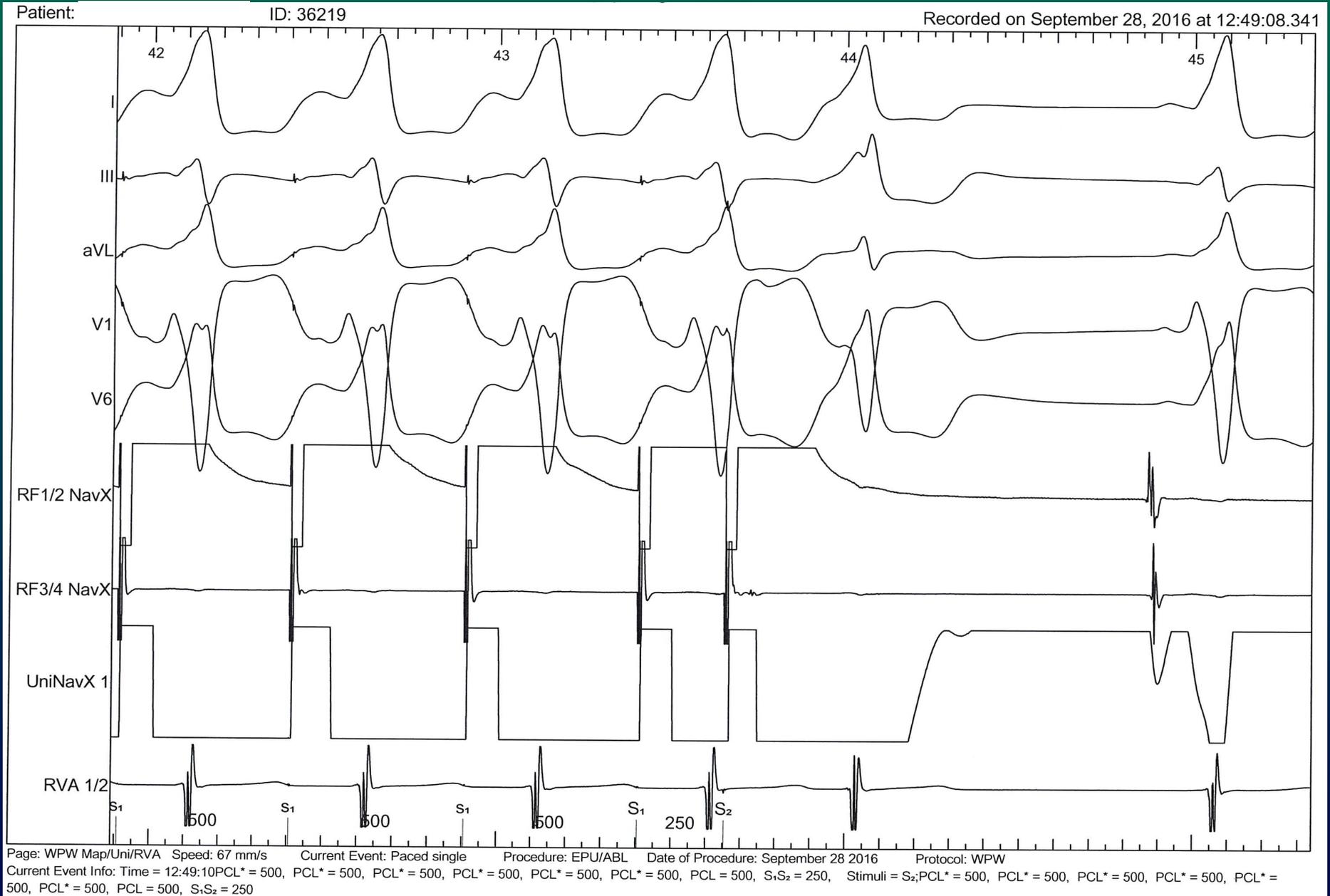


f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



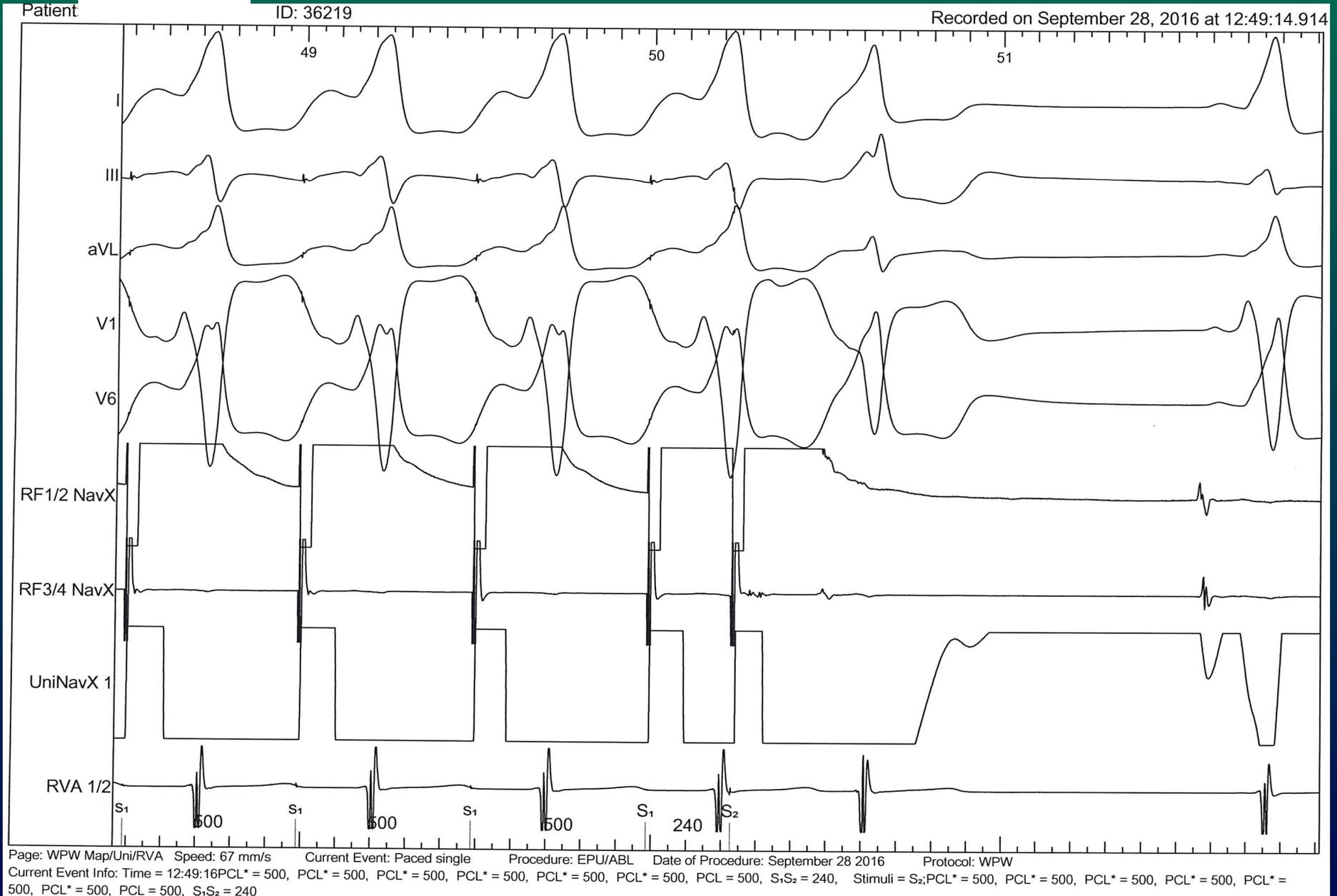
a-pace + 1 extra-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



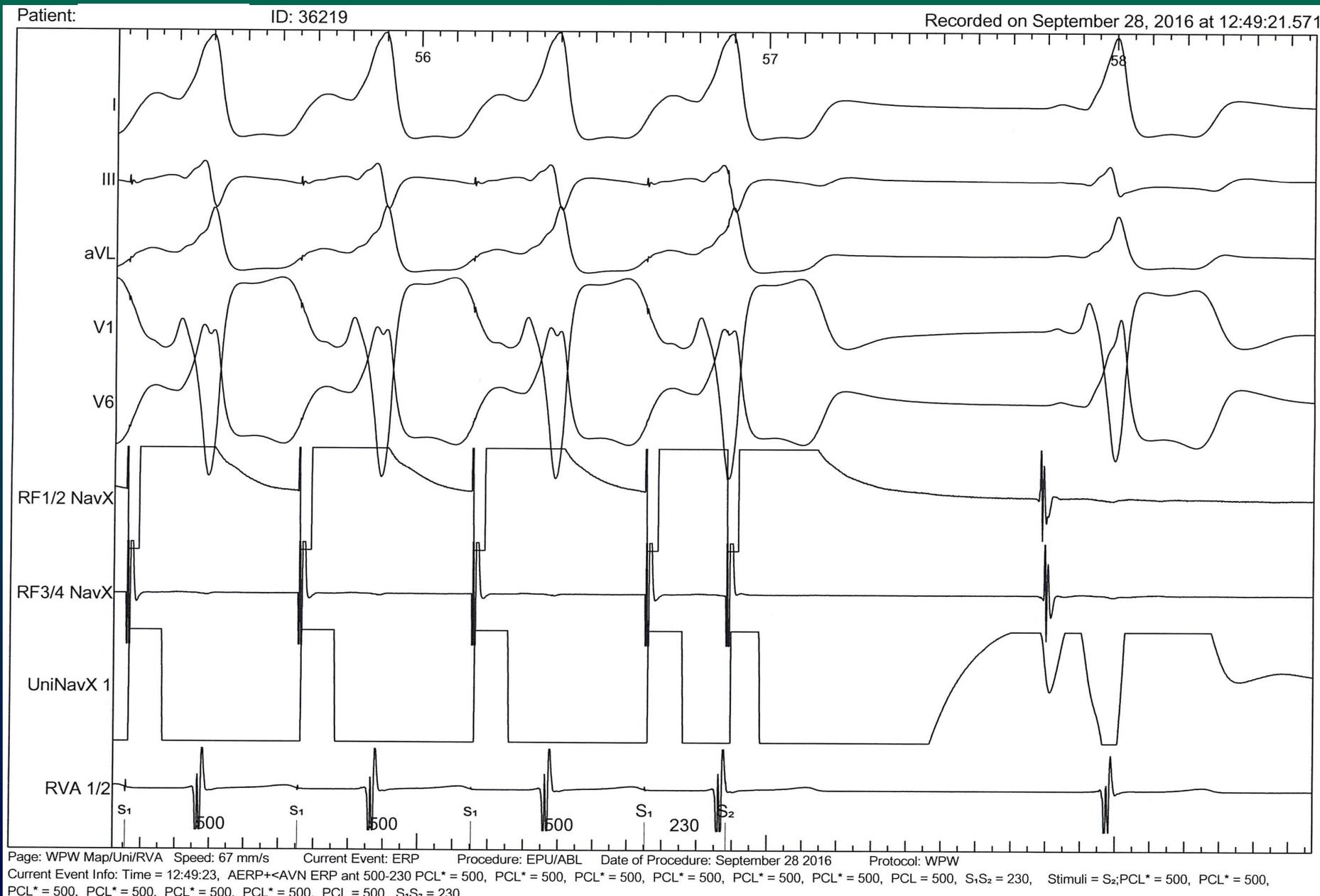
a-pace + 1 extra-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



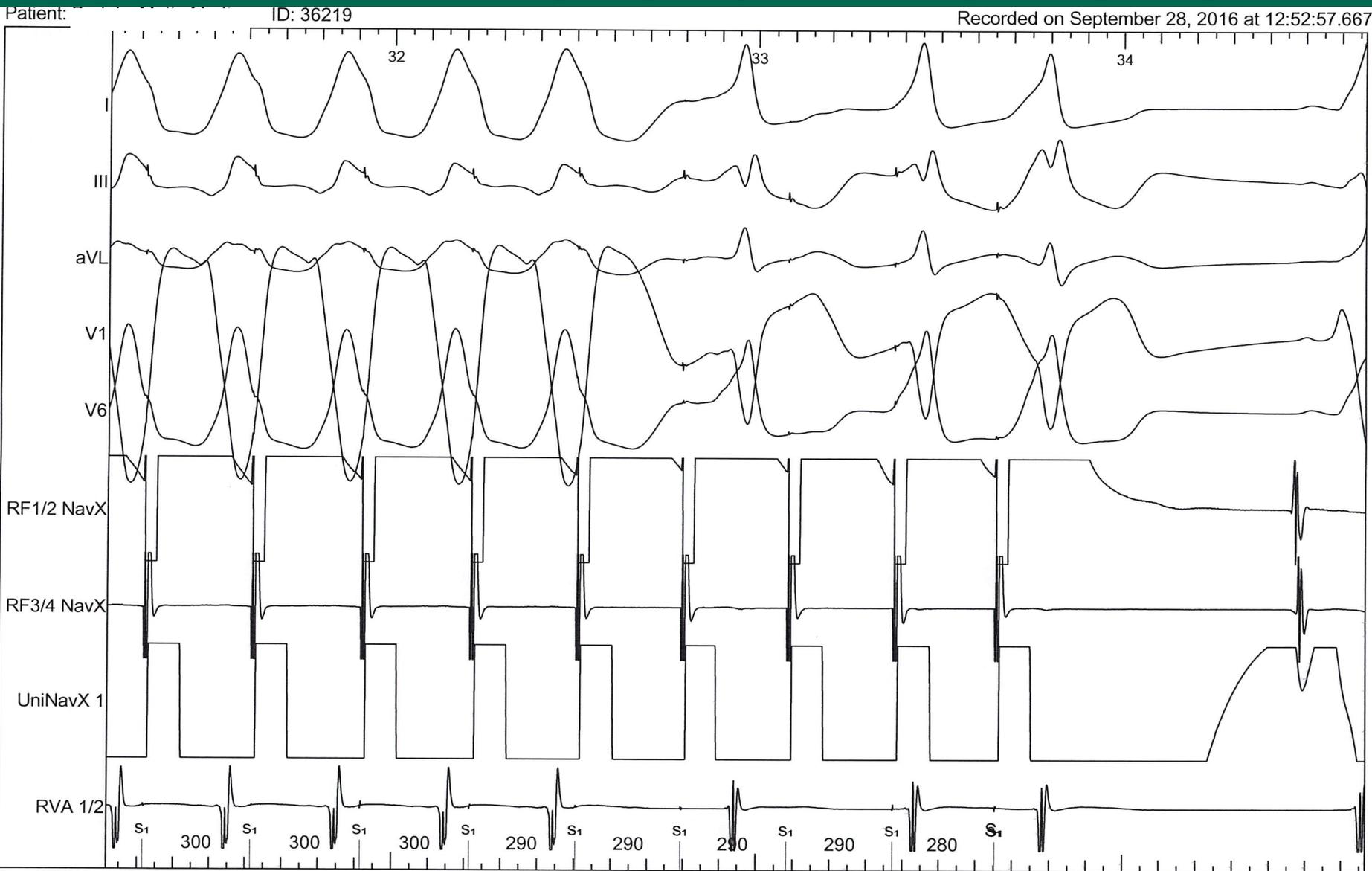
a-pace + 1 extra-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



a-pace + 1 extra-stim : A-ERP + ≤ AVN-ERP + ≤ AP 2 ERP ?

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

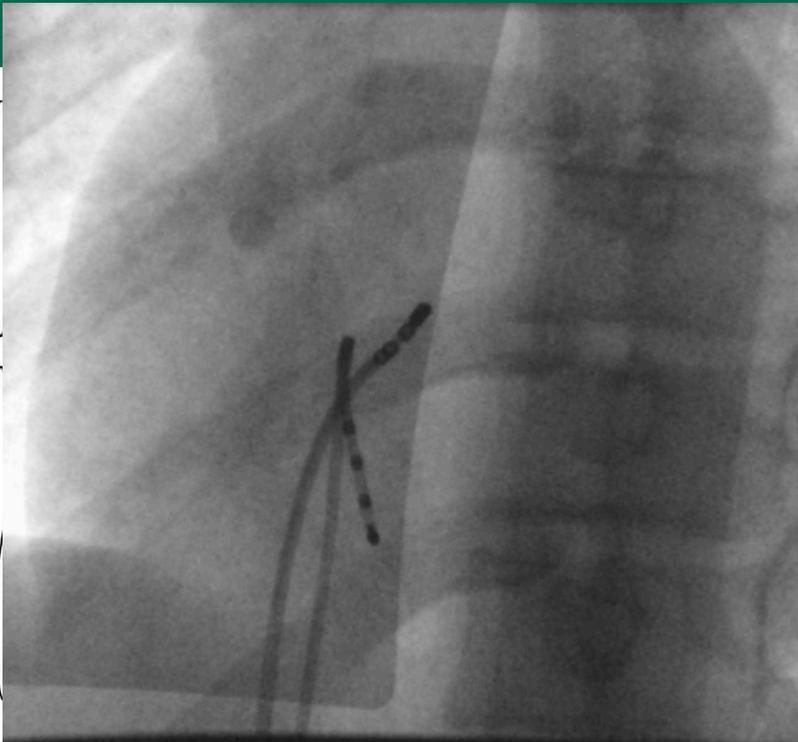
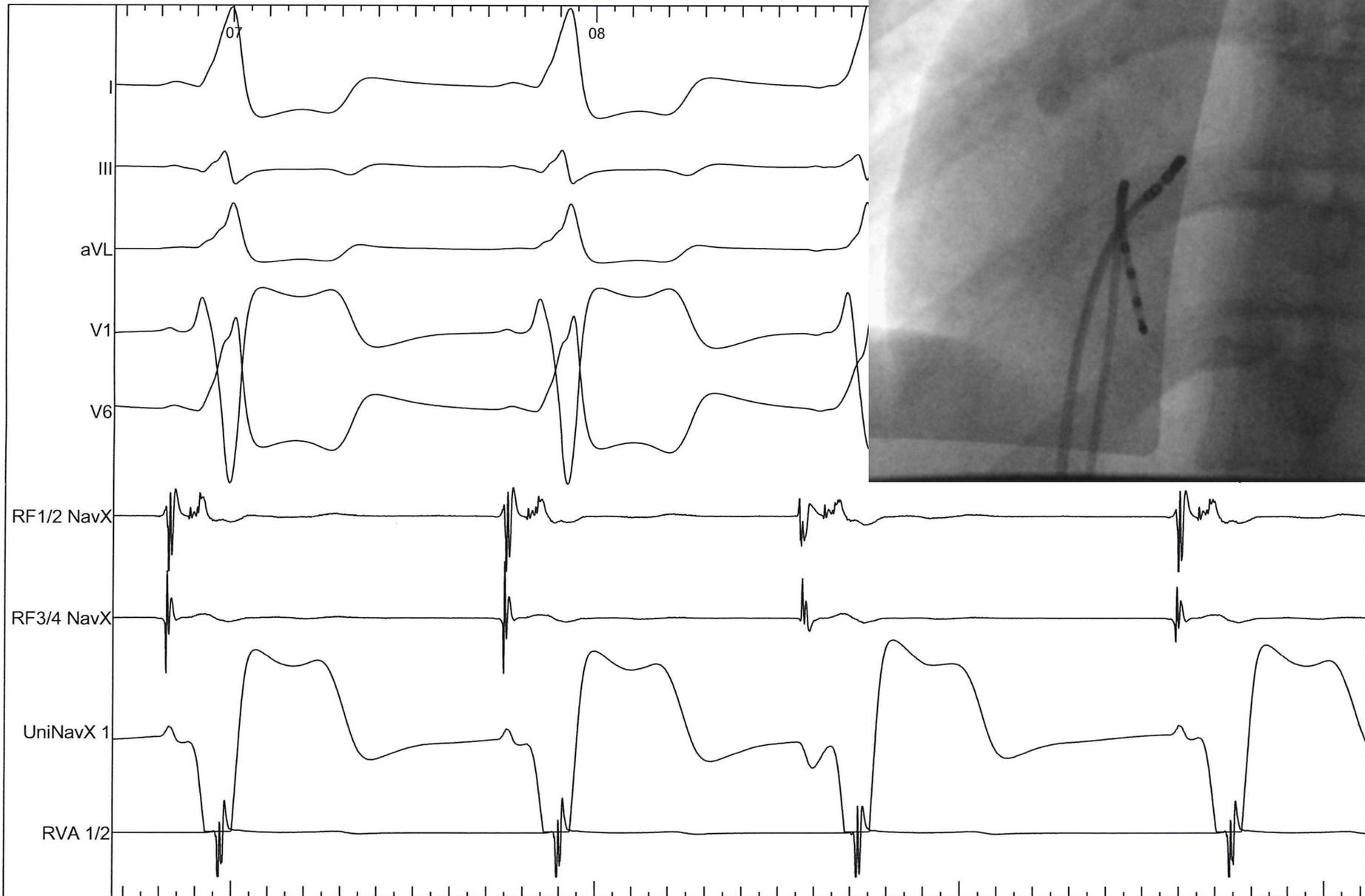


Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: Wenckeb. Procedure: EPU/ABL Date of Procedure: September 28 2016 Protocol: WPW
Current Event Info: Time = 12:53:00, AP 1 ant 290 PCL* = 500, PCL* = 490, PCL* = 490, PCL* = 480, PCL* = 470, PCL* = 460, PCL* = 460, PCL* = 450, PCL* = 450, PCL* = 440, PCL* = 440, PCL* = 430, PCL* = 430, PCL* = 430, PCL* = 420, PCL* = 420, PCL* = 410, PCL* = 410, PCL* = 410, PCL* = 400, PCL* = 400, PCL* = 390, PCL* = 390, PCL* = 380, PCL* = 380, PCL* = 380, PCL* = 370, PCL* = 370, PCL* = 370, PCL* = 370, PCL* = 360, PCL* = 360, PCL* = 360, PCL* = 350, PCL* = 350, PCL* = 350, PCL* = 340, PCL* = 340, PCL* = 340, PCL* = 330, PCL* = 330, PCL* = 330,

a-pace – WCL: AP N° 1 : 290 ms

Patient:

ID: 36219

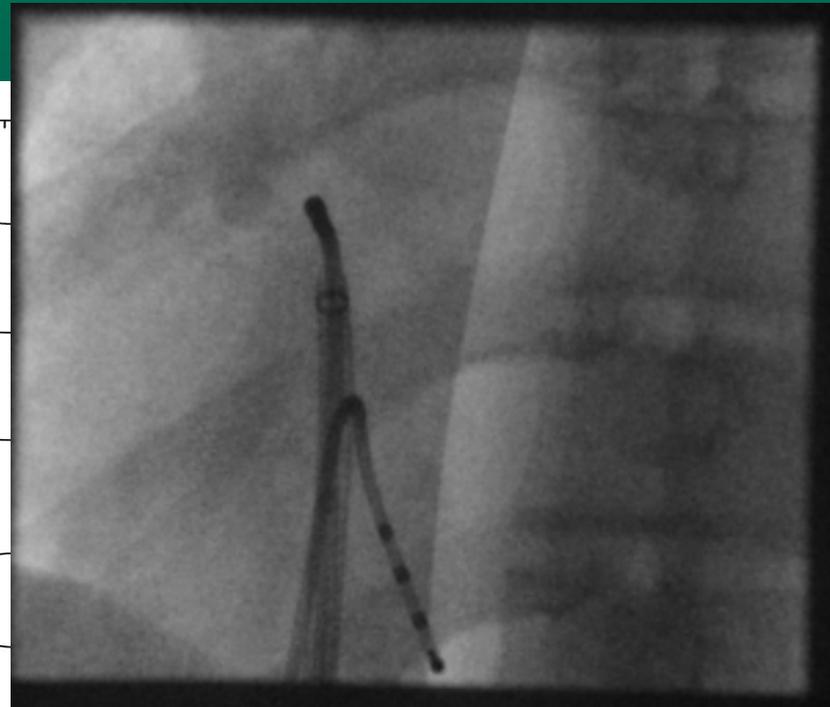
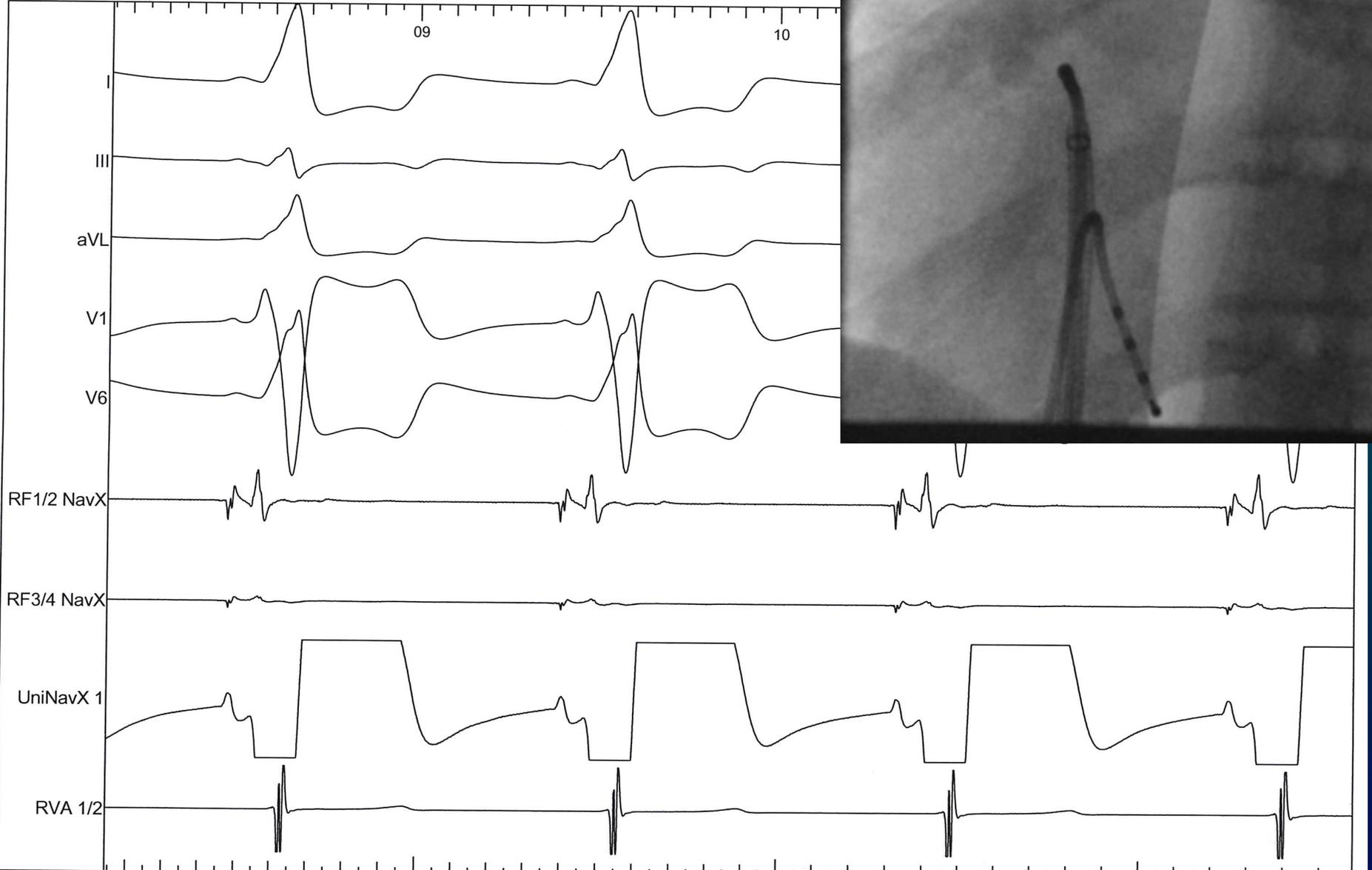


Map at HIS bundle



Patient:

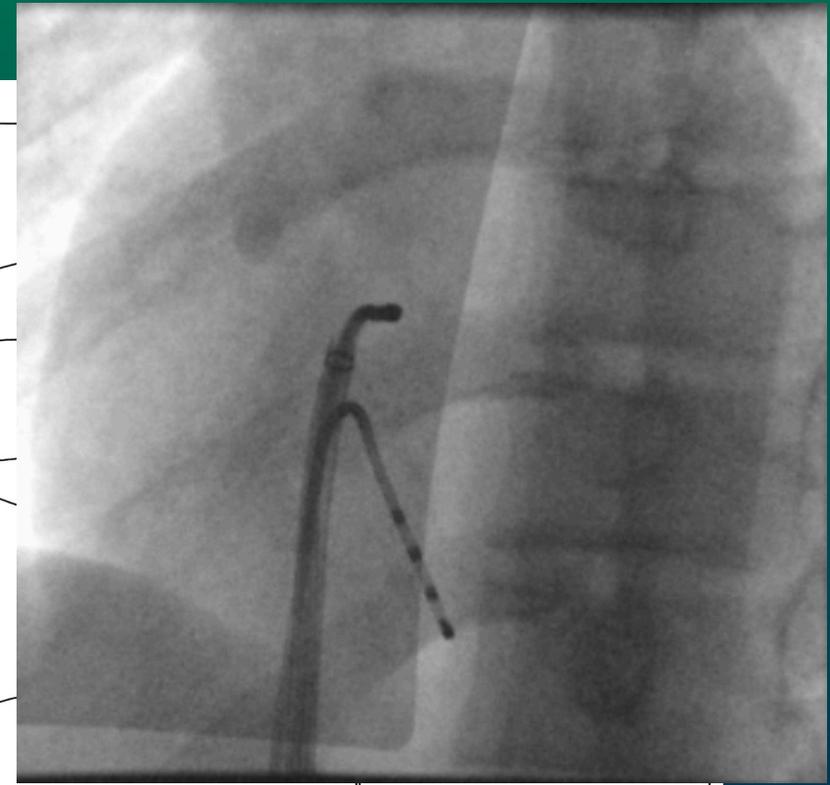
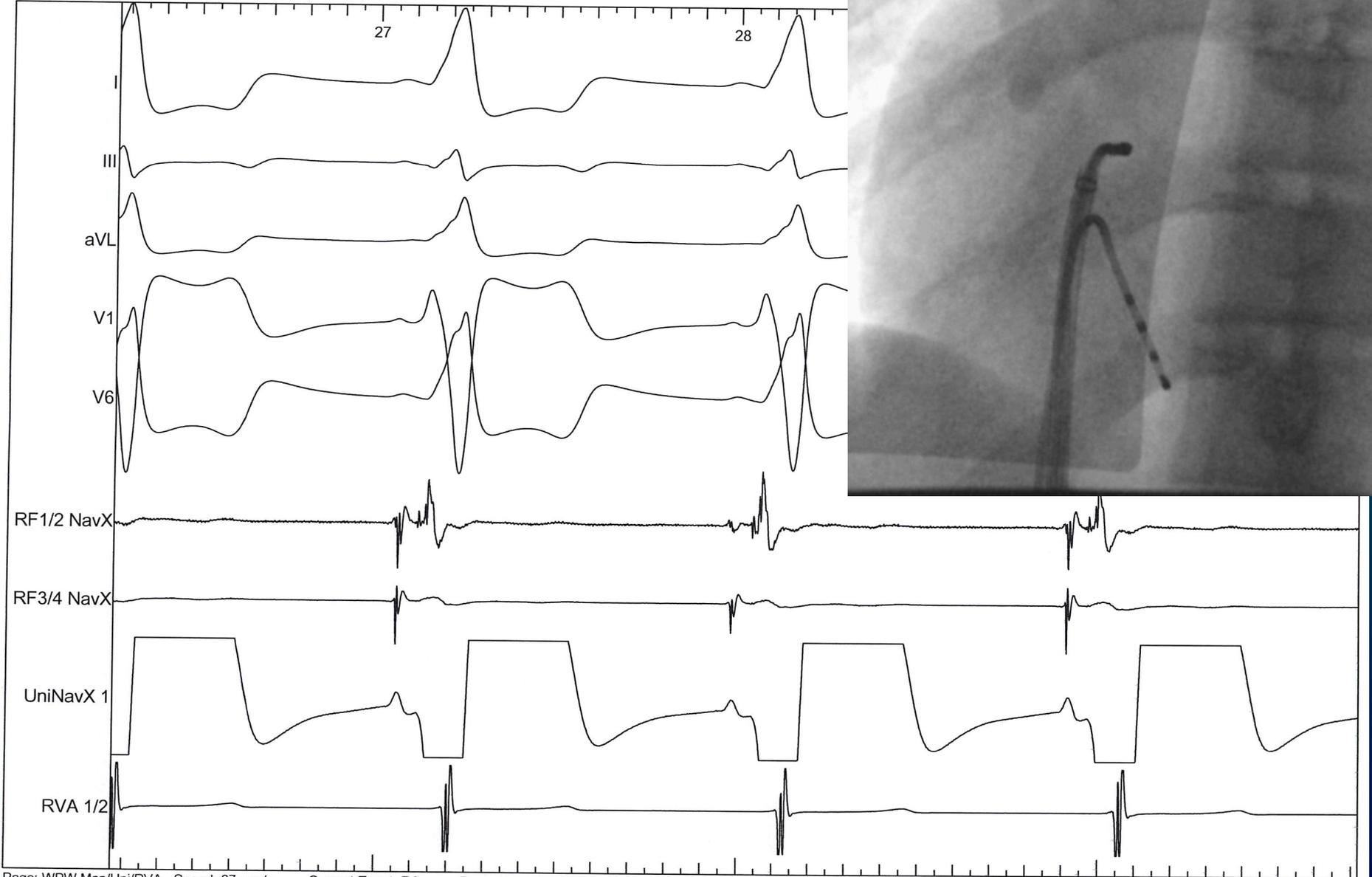
ID: 36219



MAP : RA ant

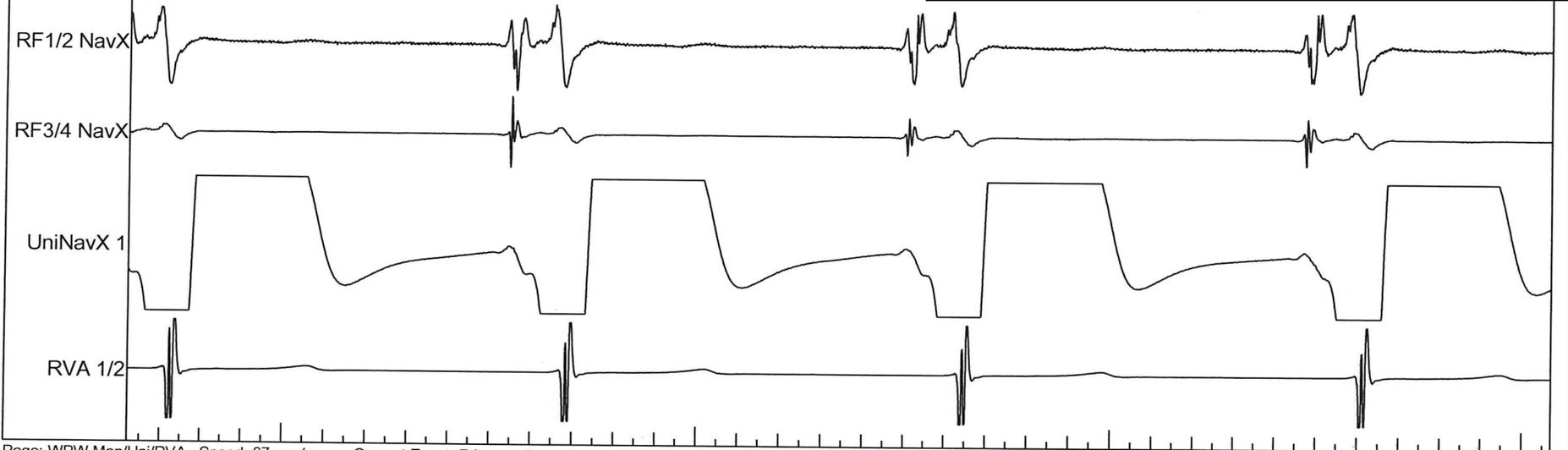
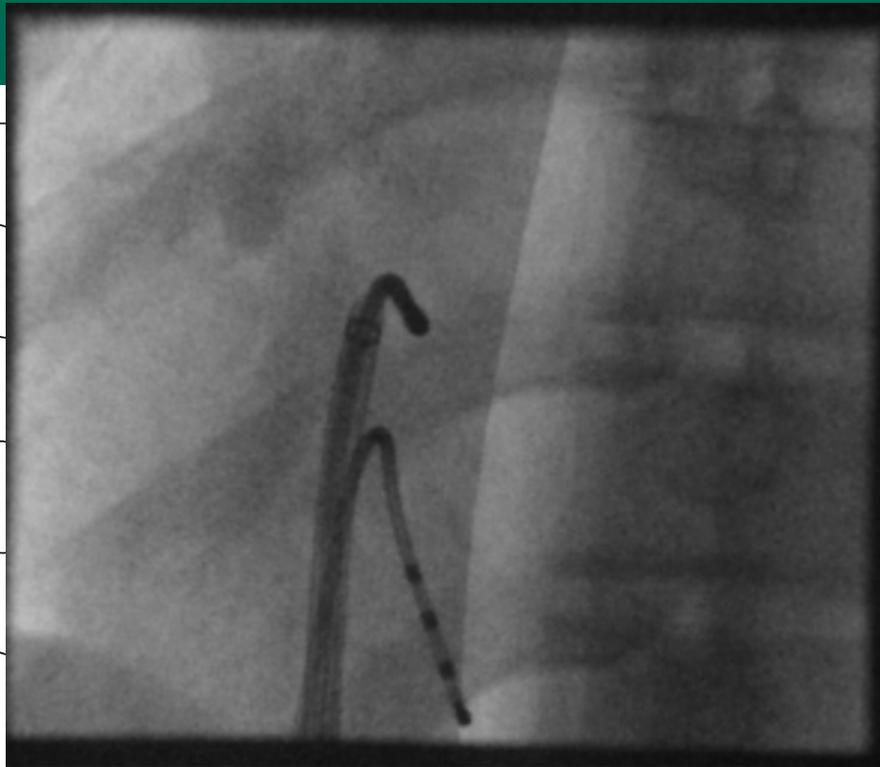
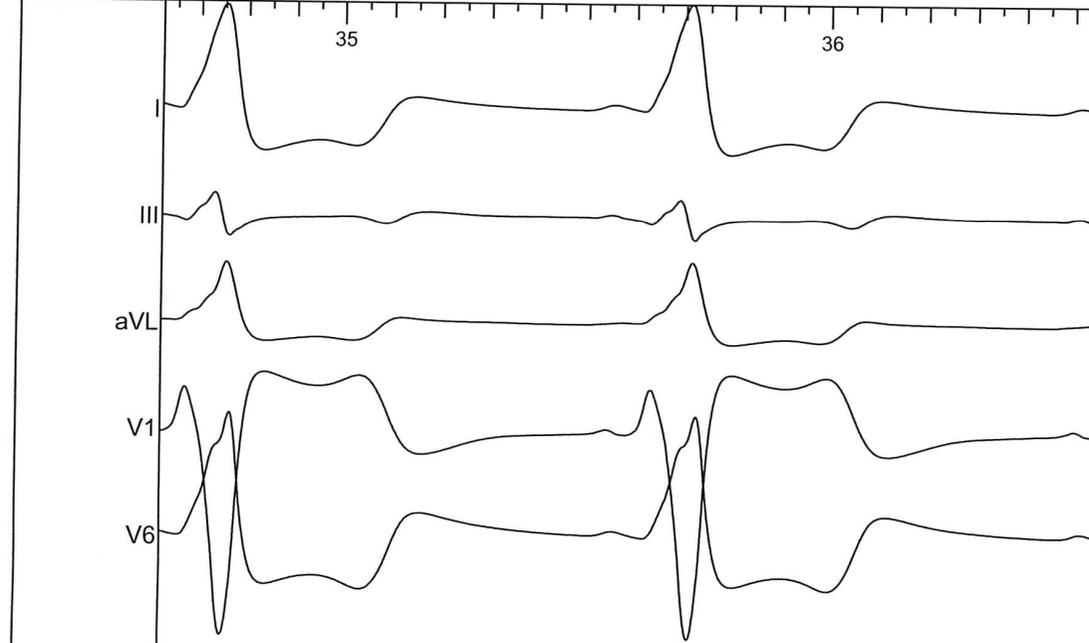
Patient

ID: 36219



MAP : RA HIS / ant sept

Patient: ID: 36219



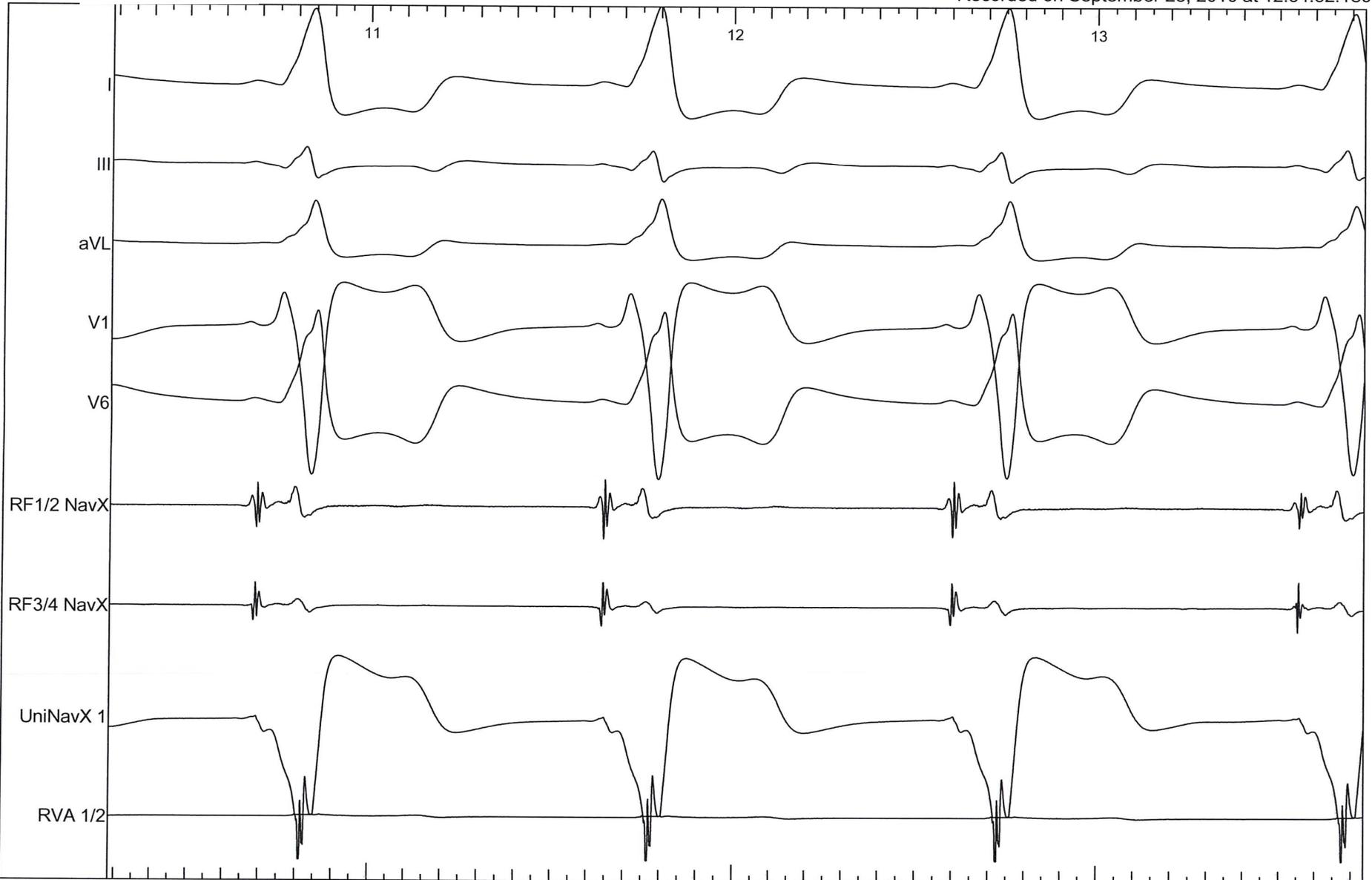
Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: RA Procedure: EPU/ABL Date of Procedure: September 28 2016 Protocol: WPW
Current Event Info: Time = 13:08:02, mittsept

MAP : RA mitt sept

Patient: f

ID: 36219

Recorded on September 28, 2016 at 12:34:52.189



MAP : RA posterior

Patient: I

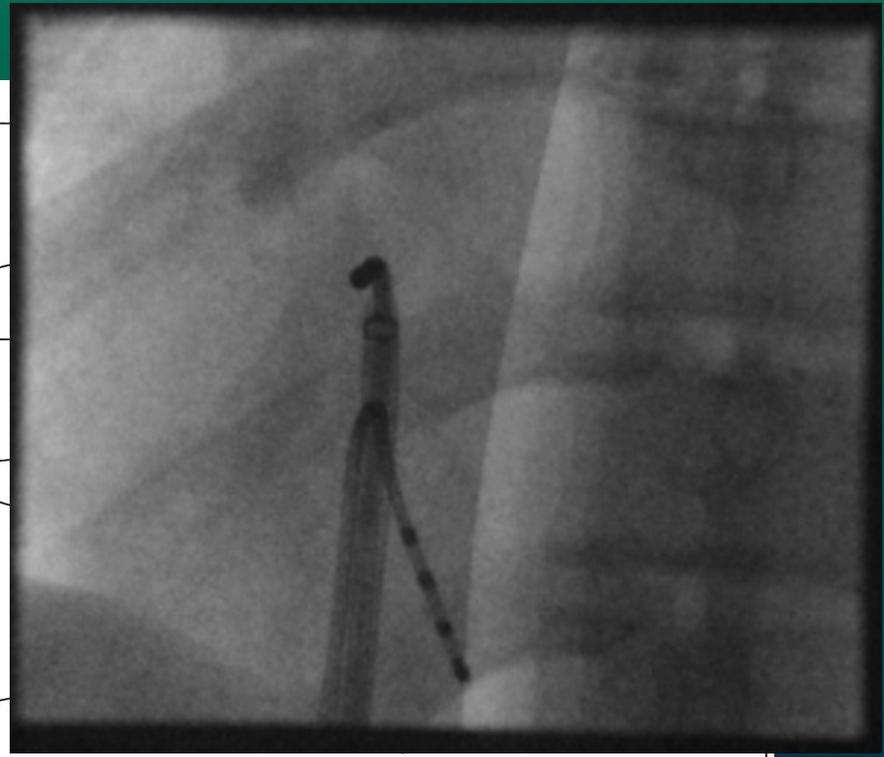
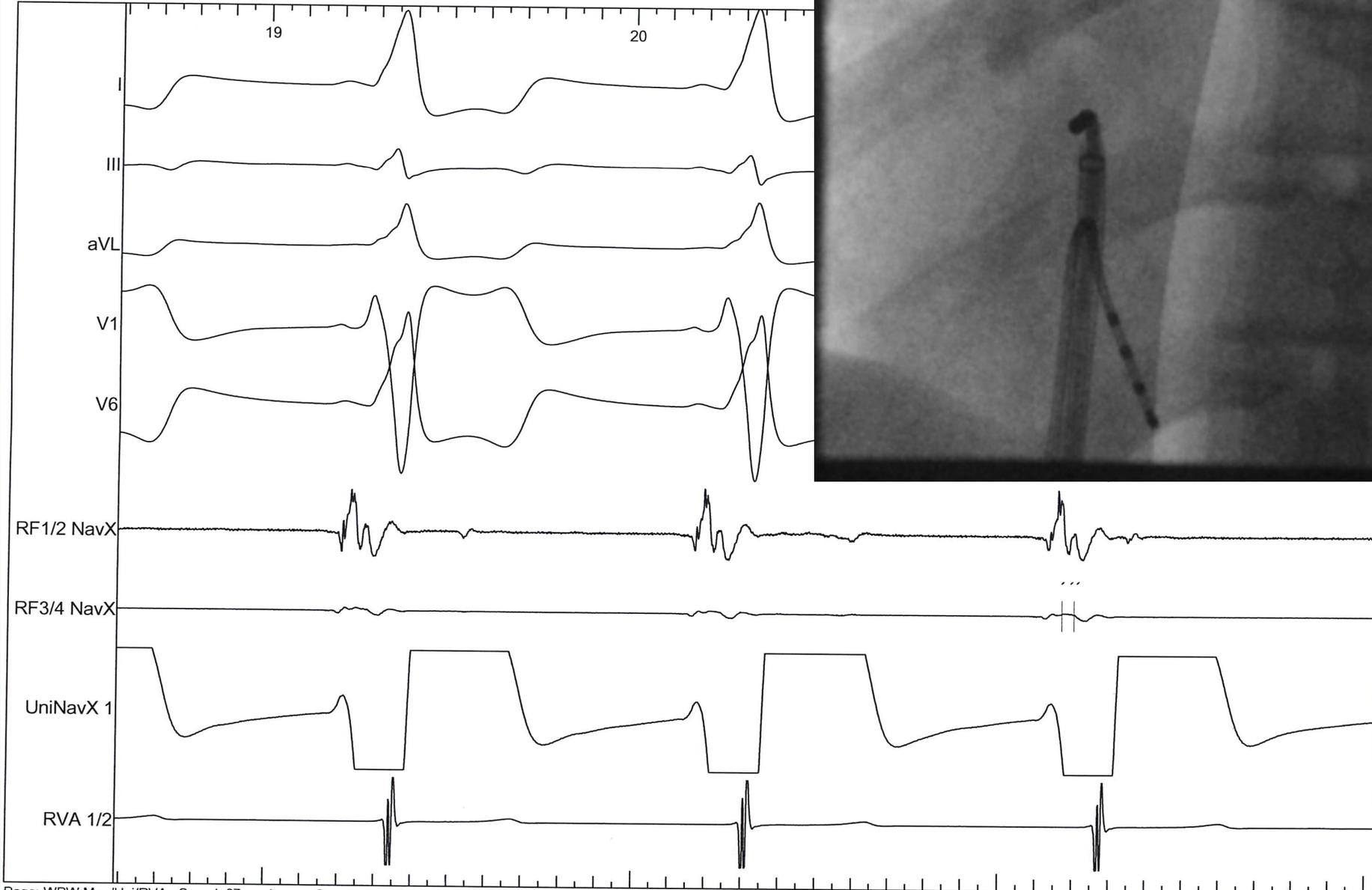
ID: 36219

Recorded on September 28, 2016 at 12:36:10.045



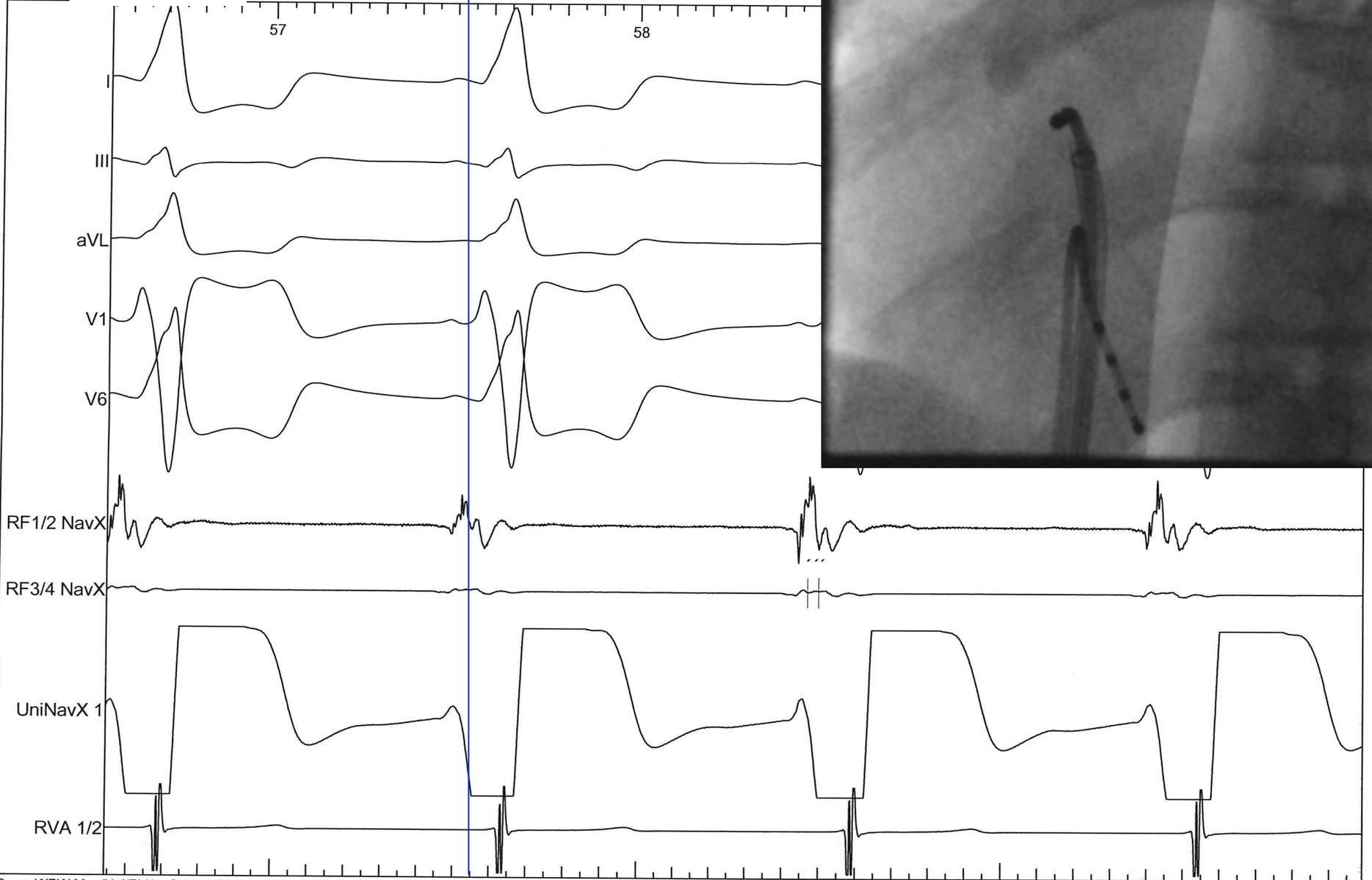
MAP : RA posteroseptal

Patient ID: 36219



MAP : RA ant / ant lat

Patient: ID: 36219

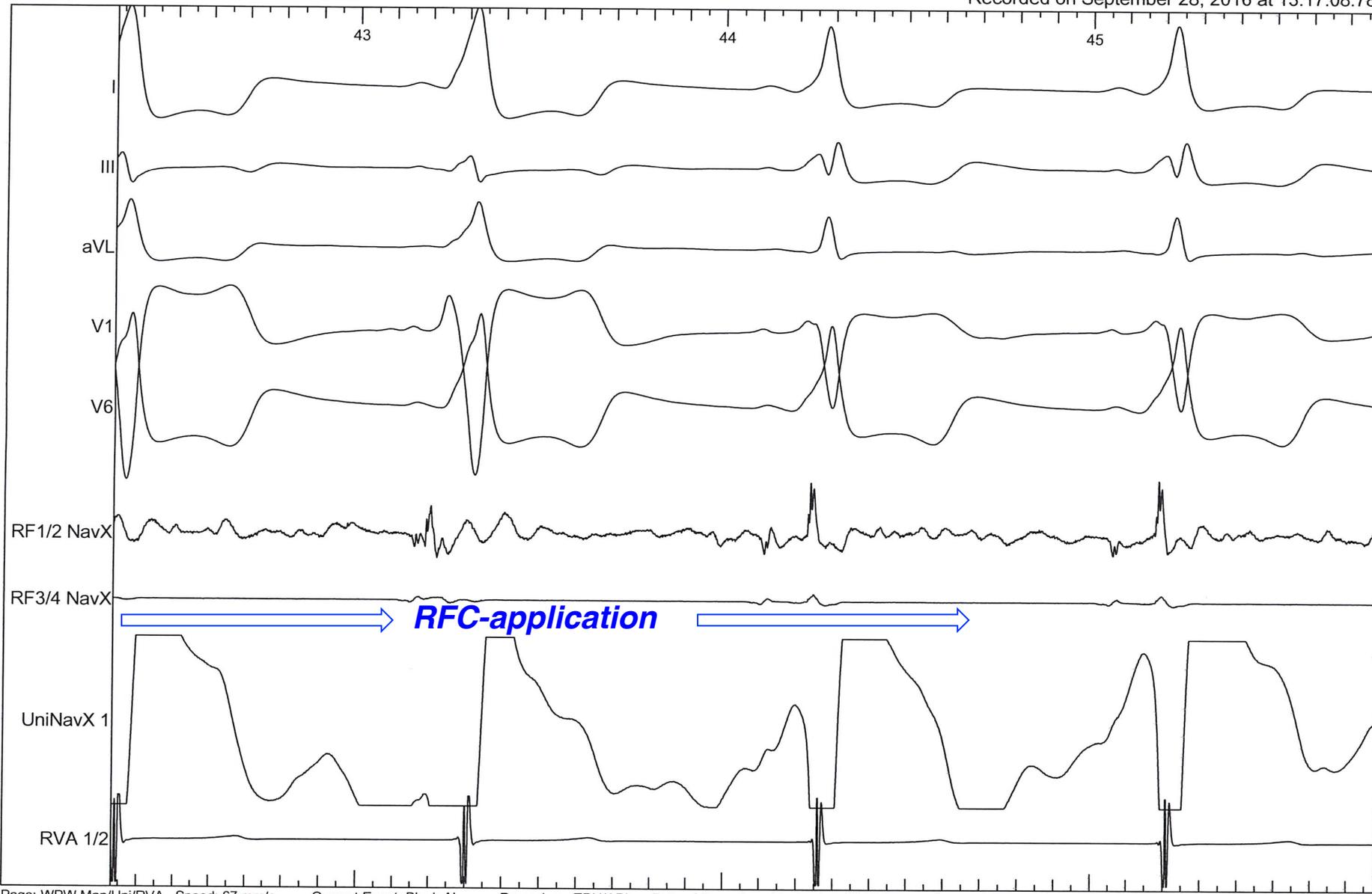


MAP : RA antero lateral

Patient:

ID: 36219

Recorded on September 28, 2016 at 13:17:08.782



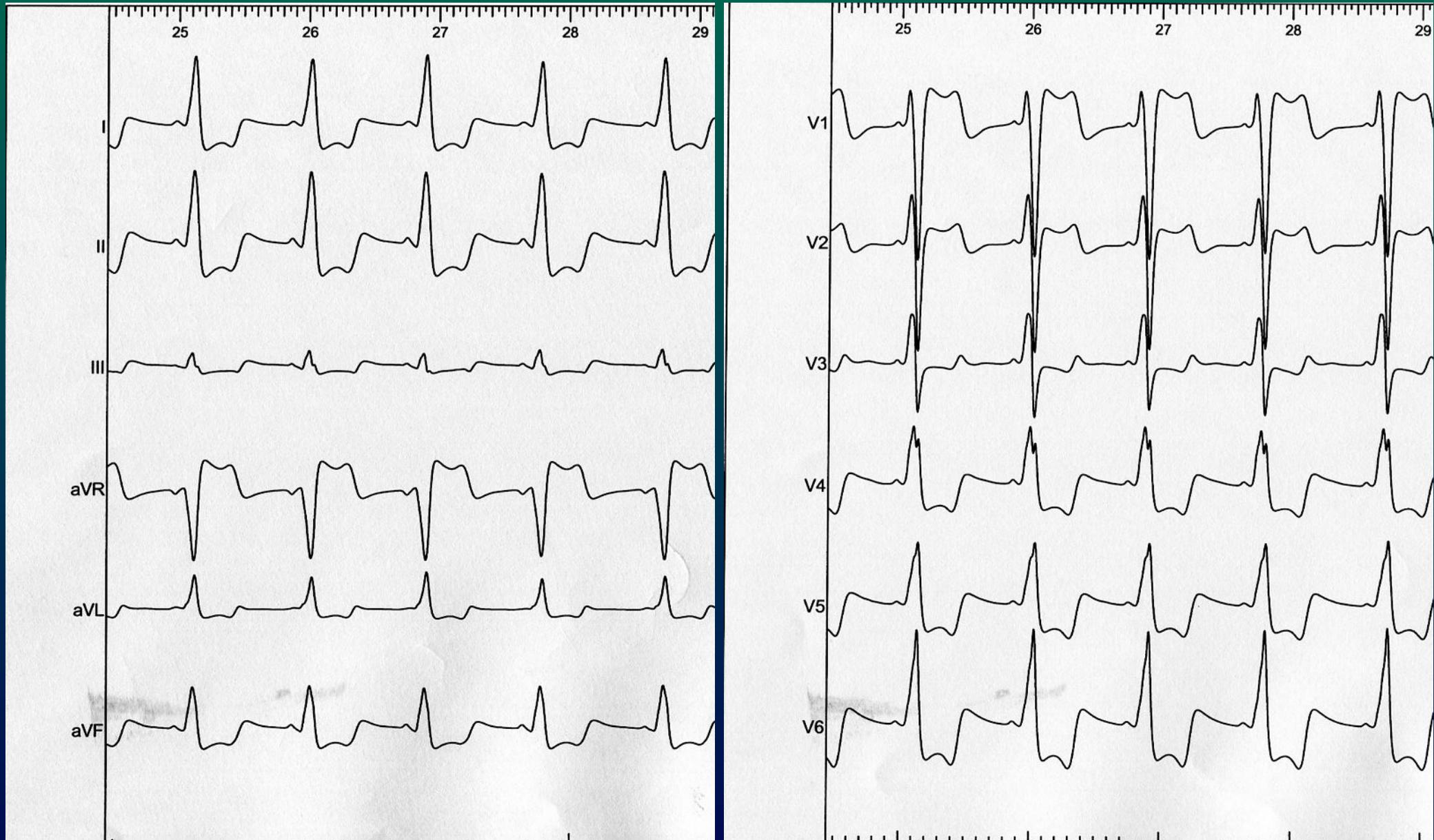
RFC-application: RA anterolateral -> block AP N° 1

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



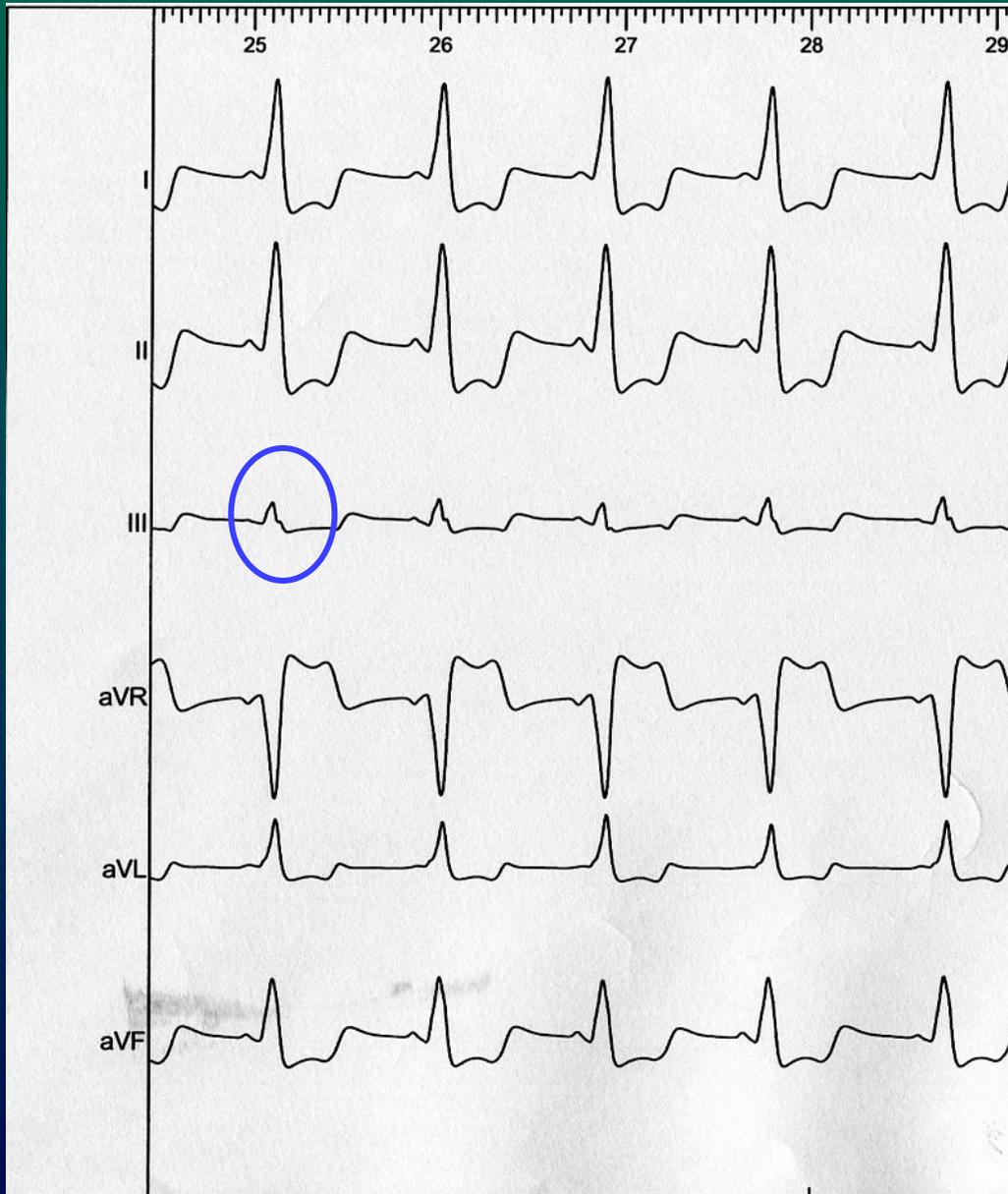
SR – ECG following RFC-block AP N° 1

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

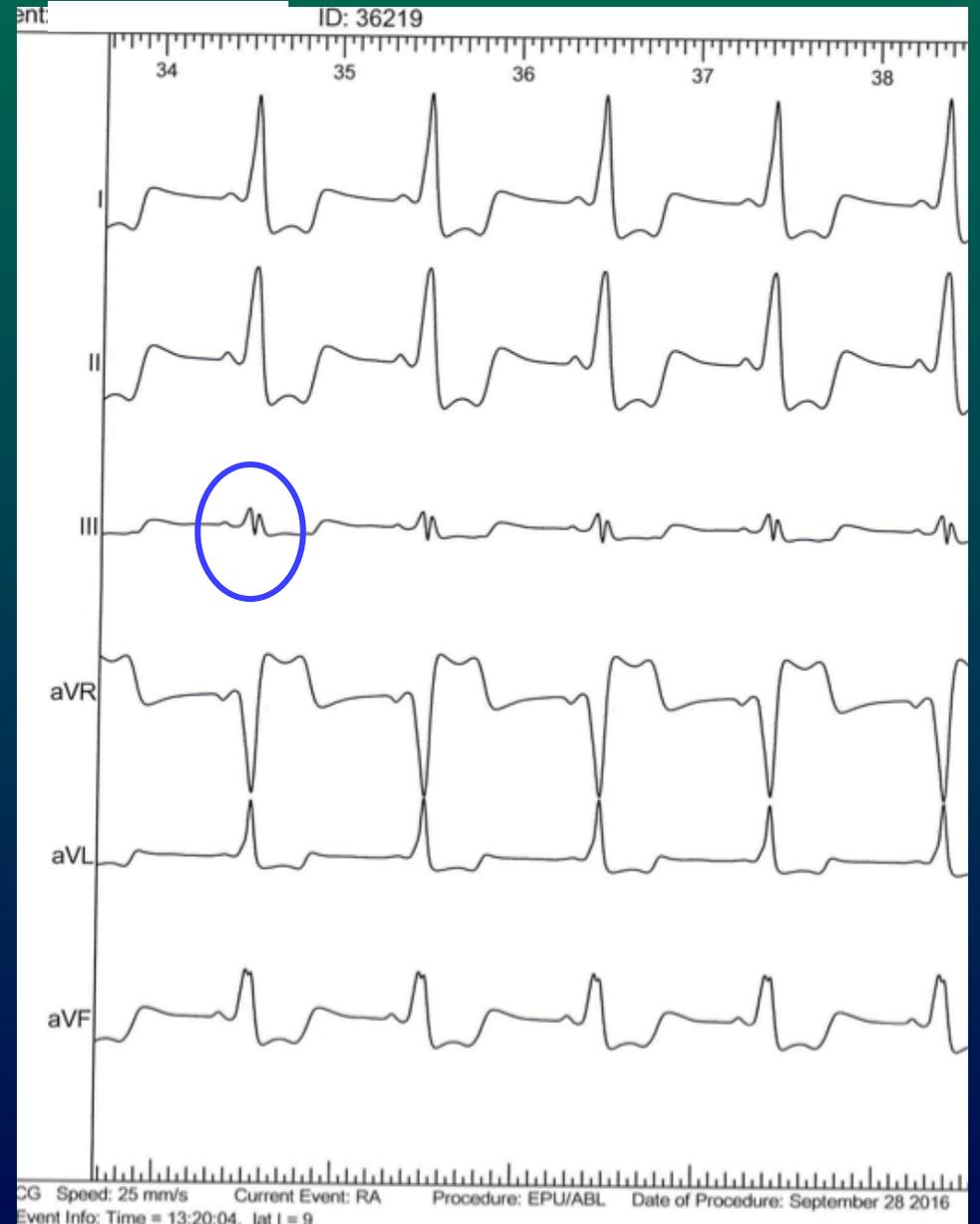


SR – ECG before RFC-block AP N° 1

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



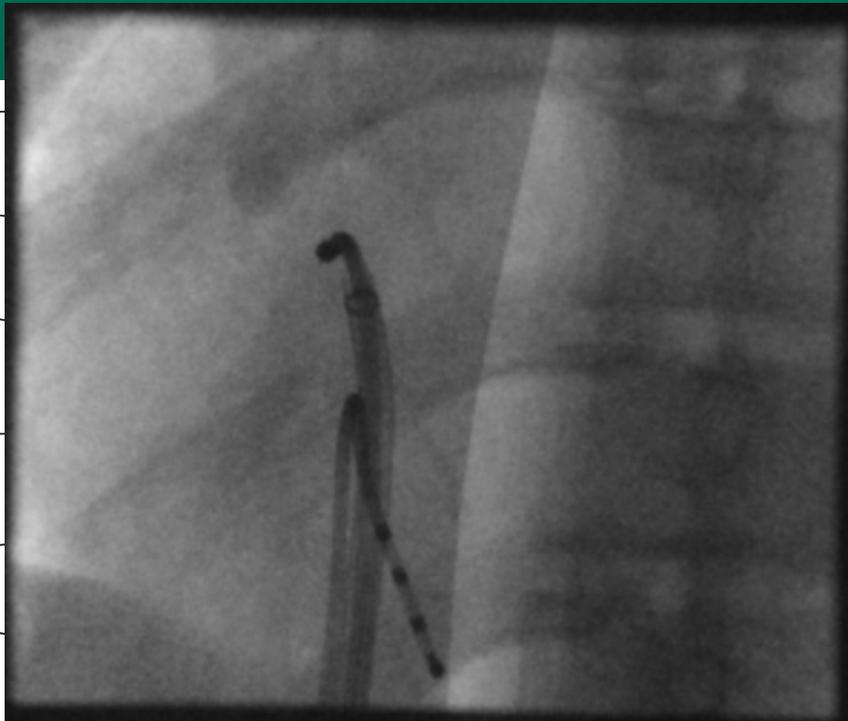
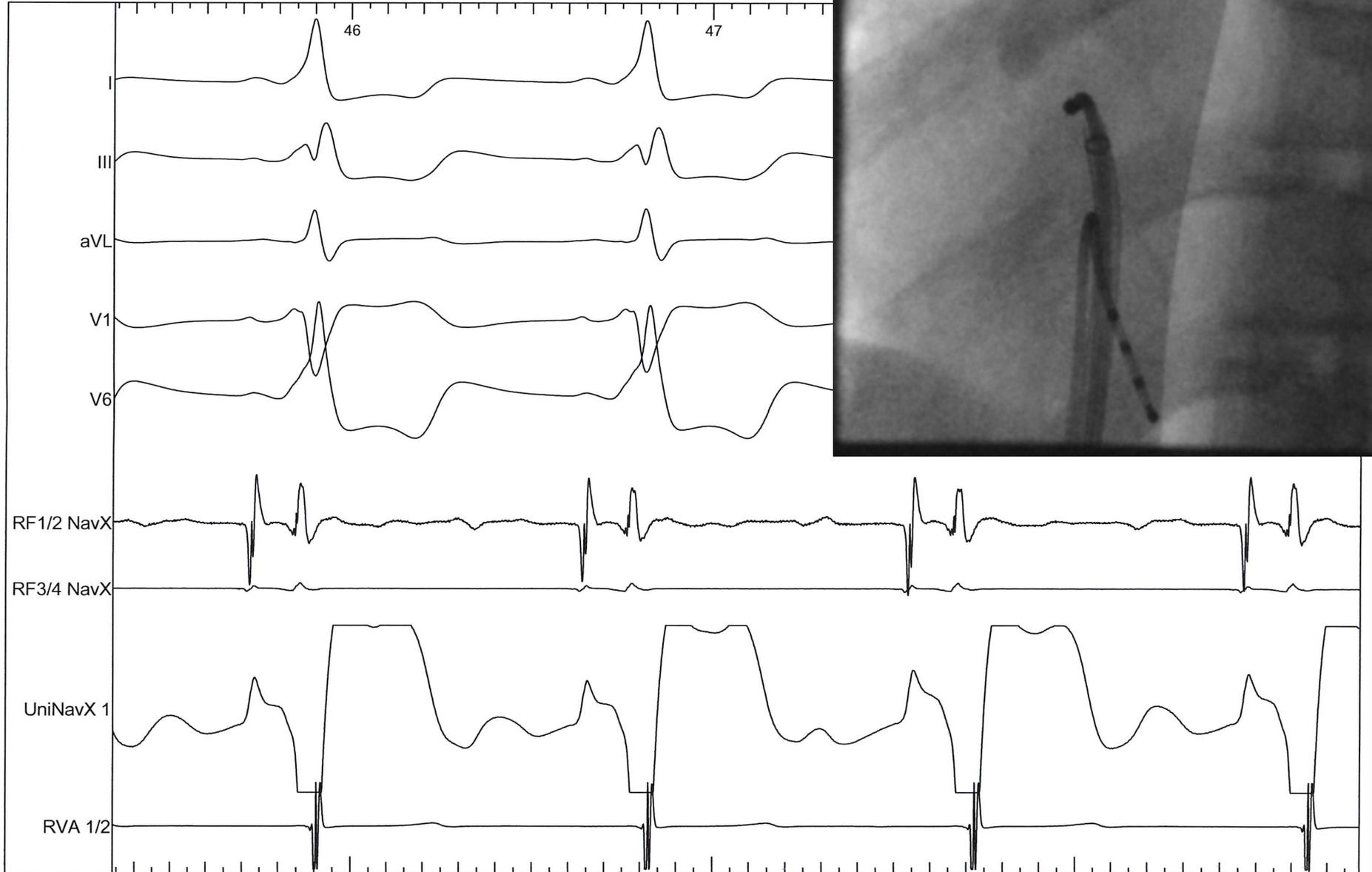
SR – ECG before ---



--- following RFC-block AP N° 1

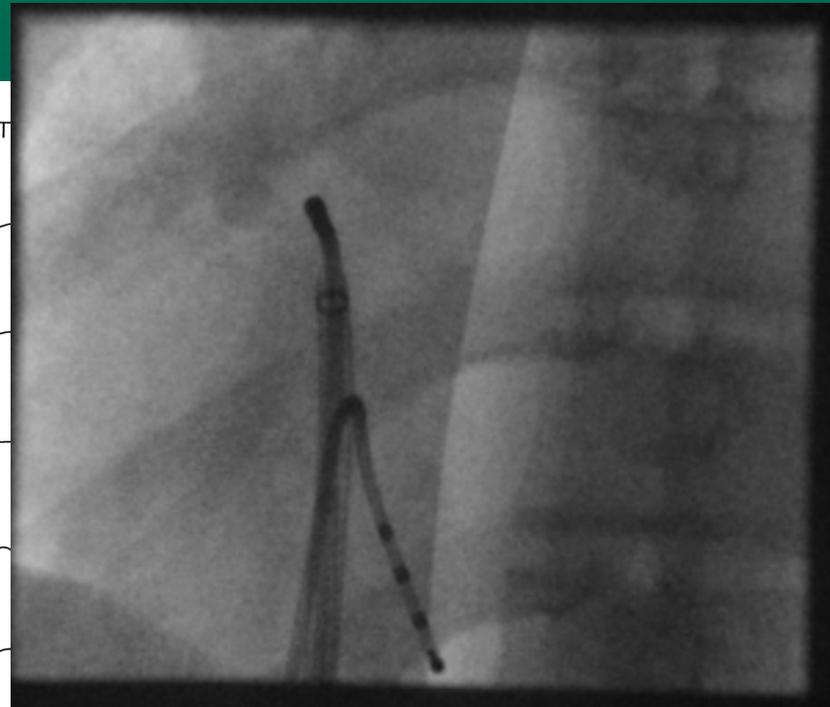
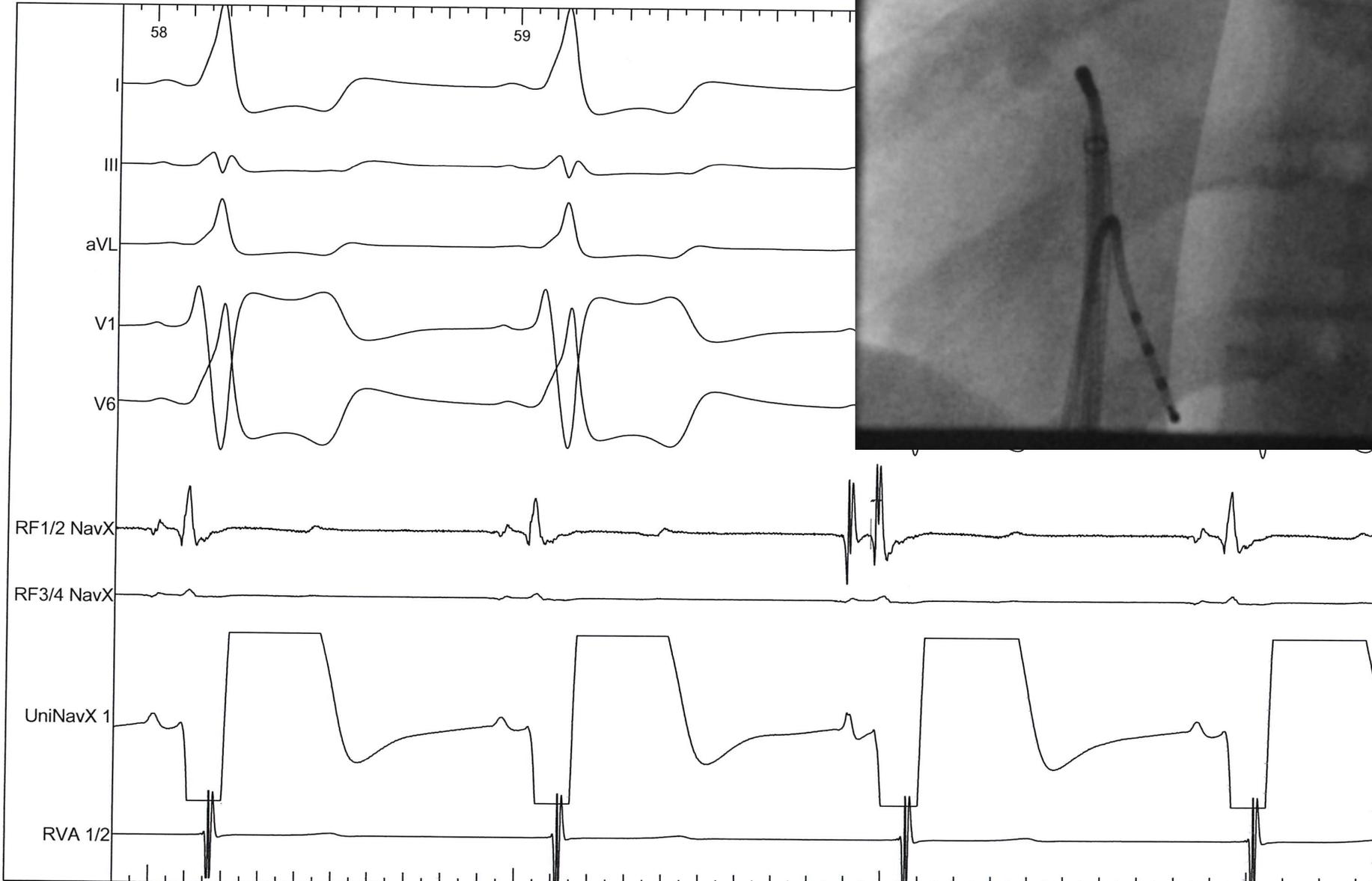
Patient:

ID: 36219



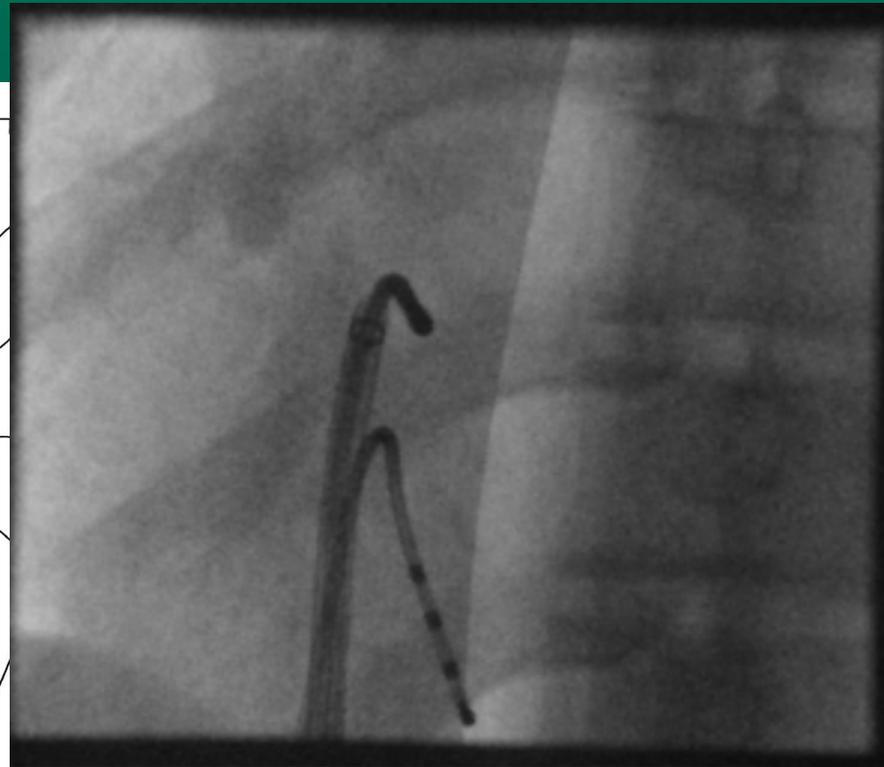
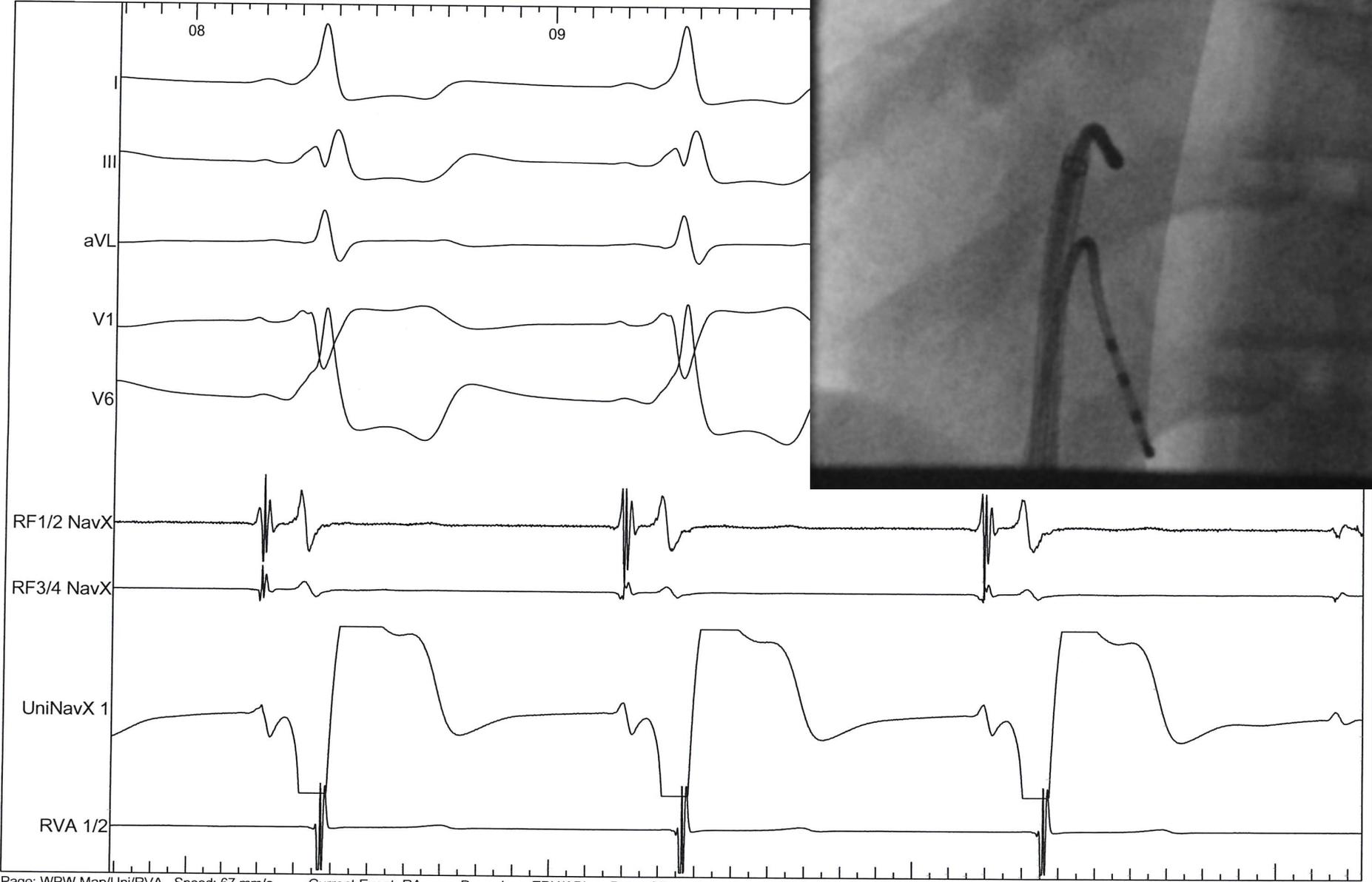
MAP : RA antero lateral

Patient: ID: 36219



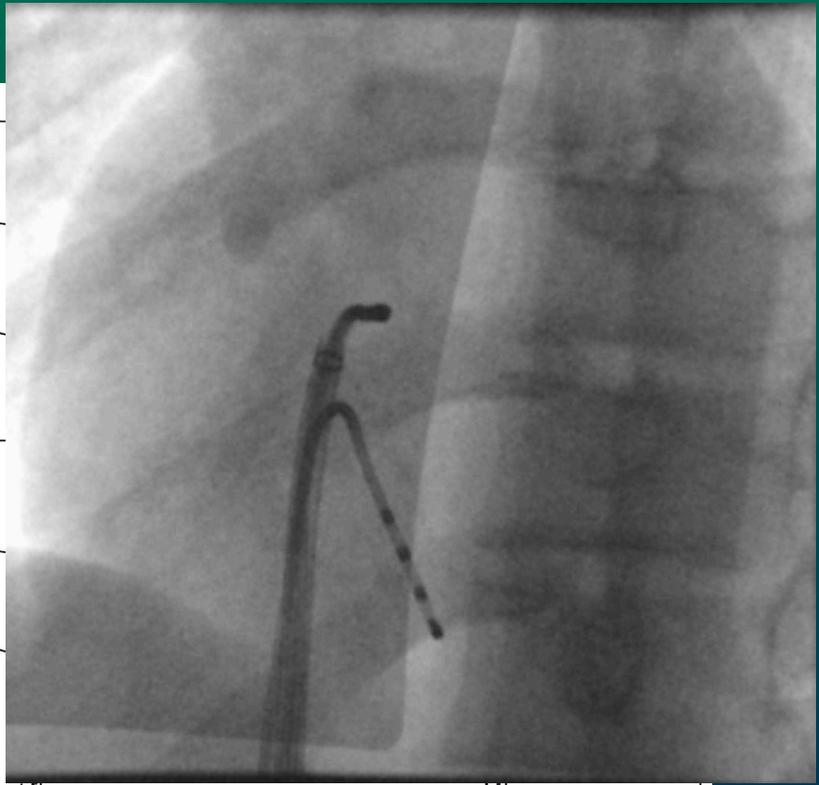
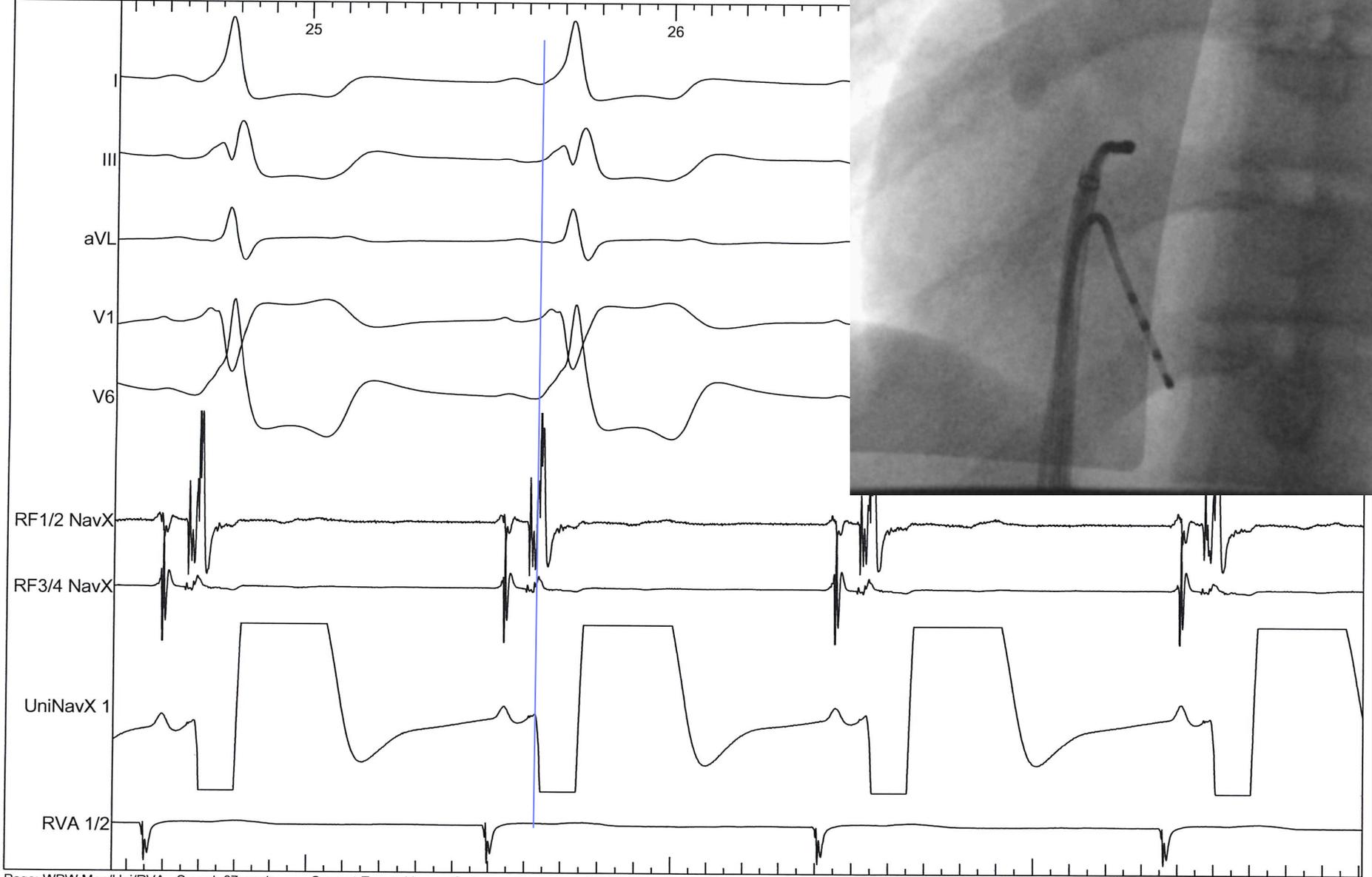
MAP : RA ant

Patient: ID: 36219



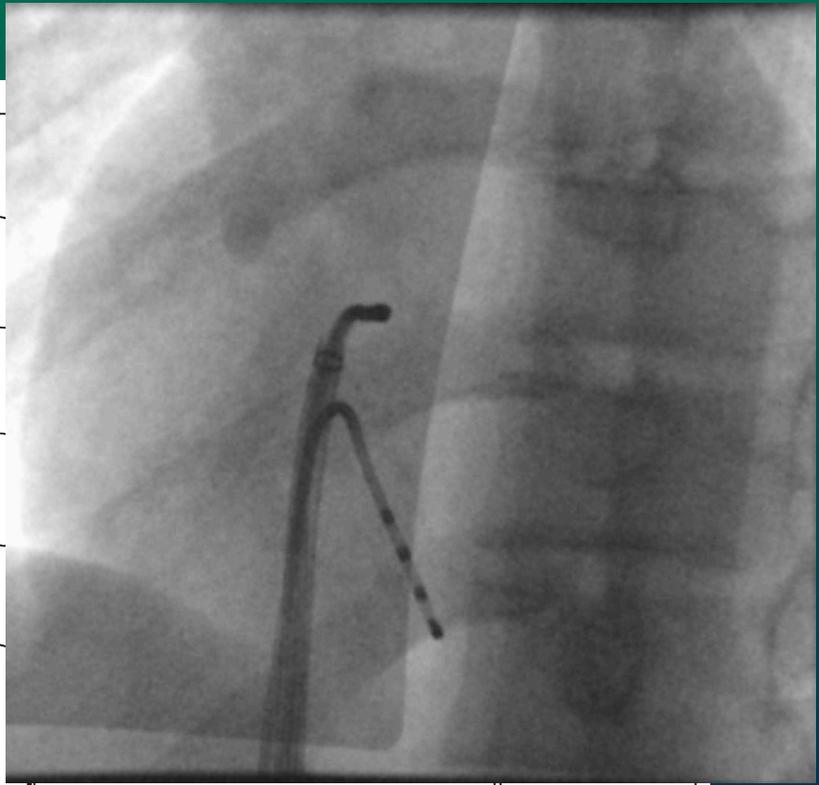
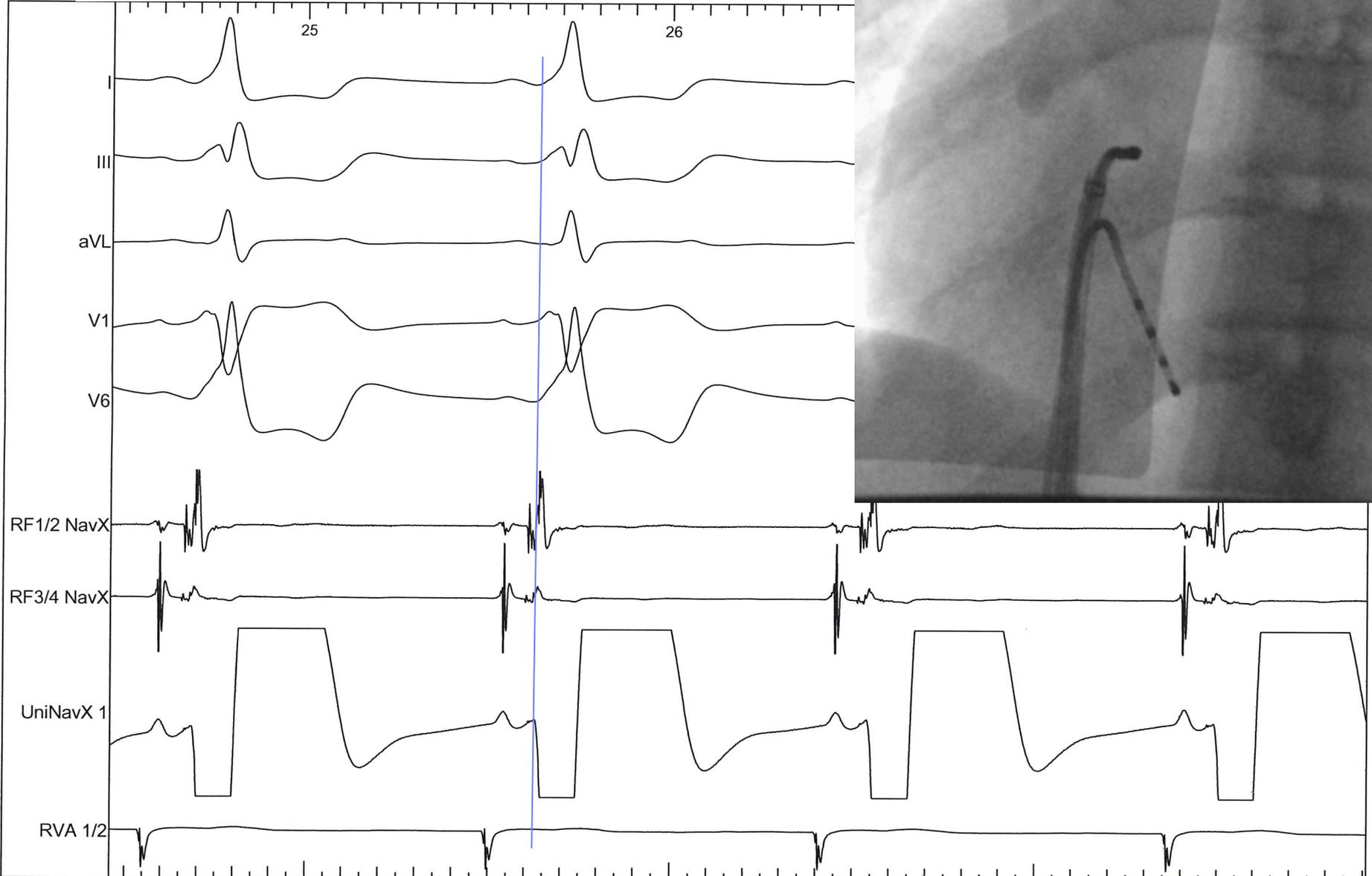
MAP : RA mitt sept

Patient: ID: 36219



MAP : RA HIS / ant sept – more V

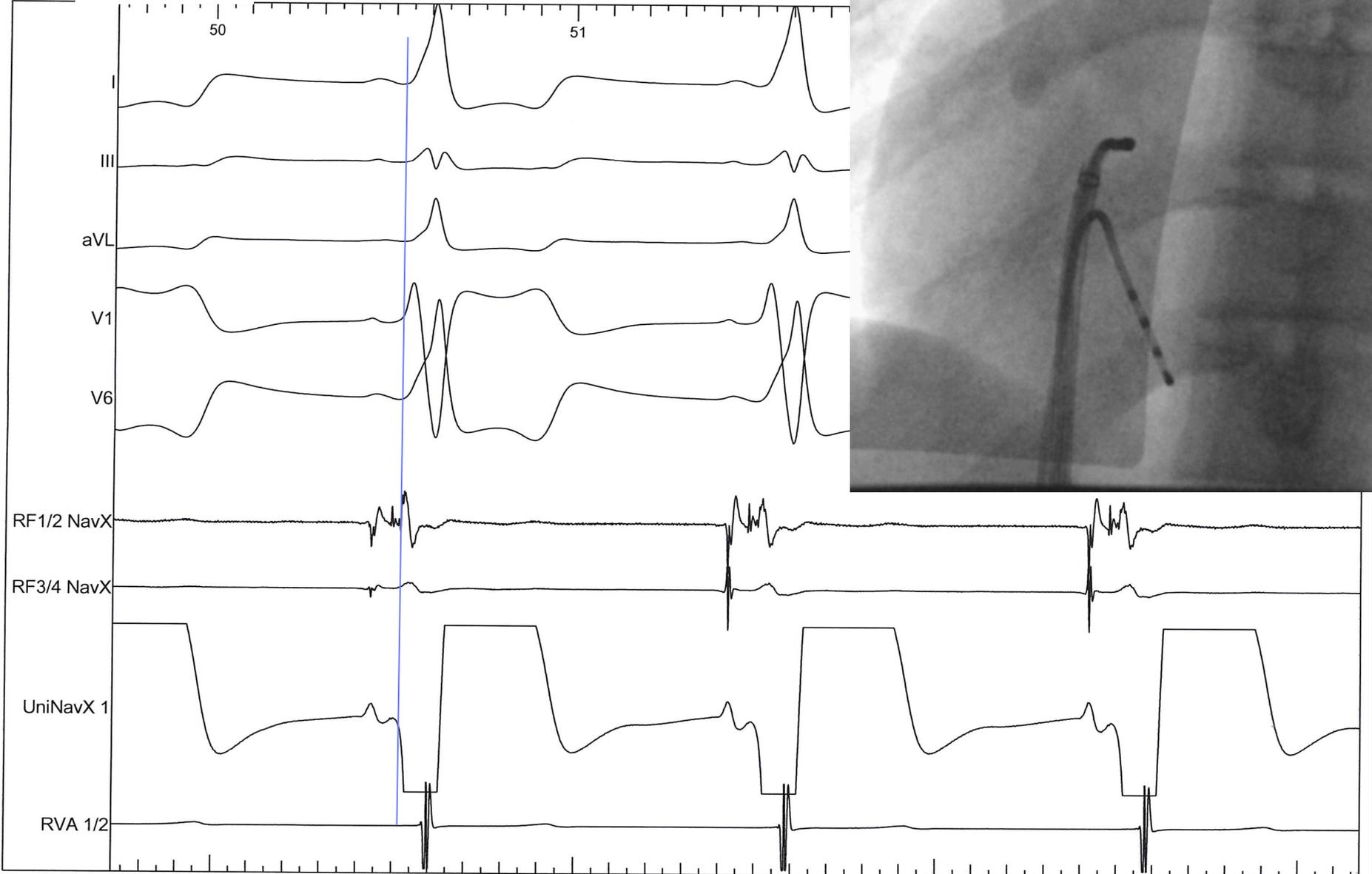
Patient: ID: 36219



MAP : RA HIS / ant sept – slightly withdrawn towards A

Patient:

ID: 36219



Page: WPW Map/Uni/RVA Speed: 67 mm/s

Current Event: RA

Procedure: EPU/ABL

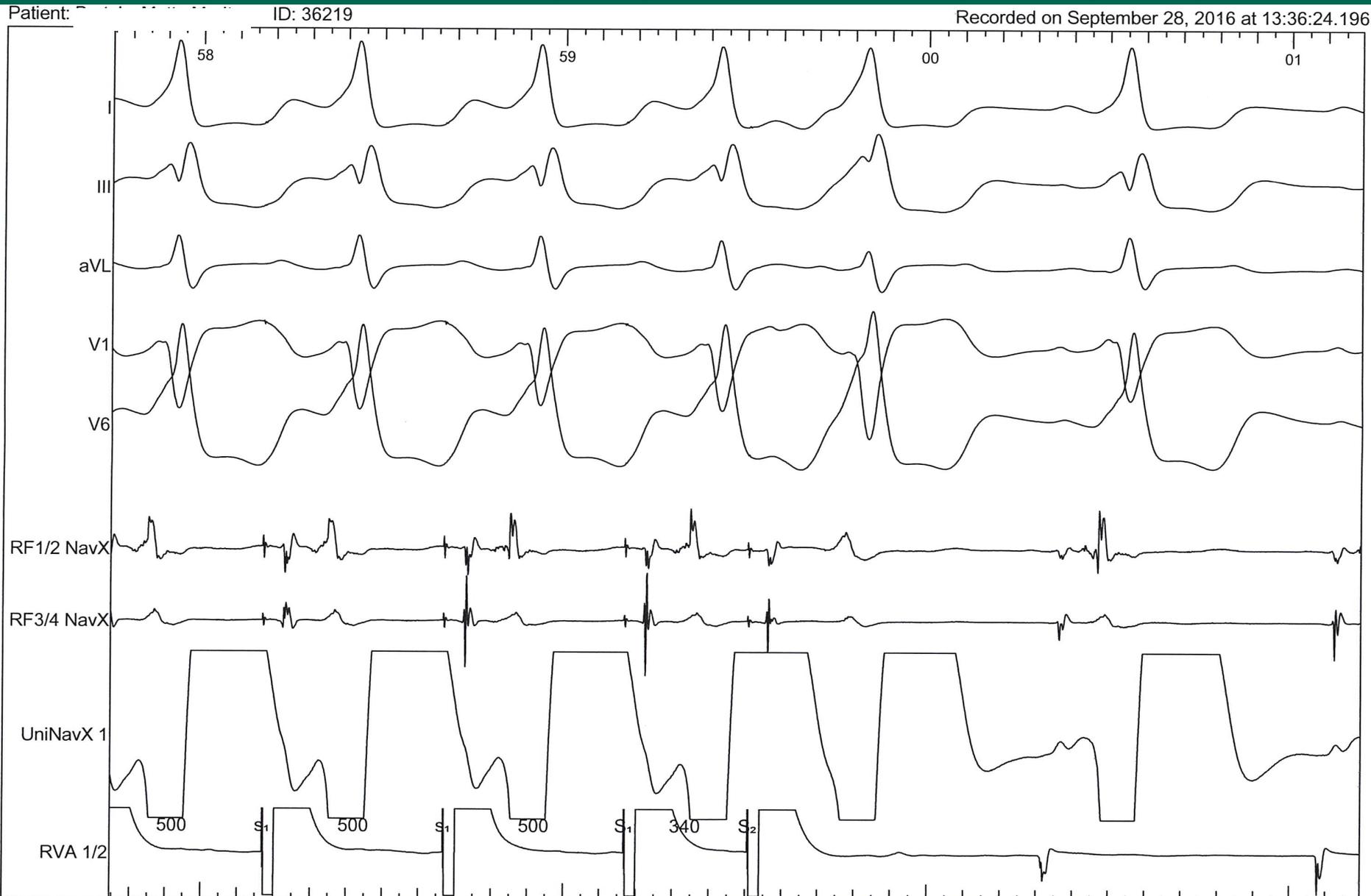
Date of Procedure: September 28 2016

Protocol: WPW

Current Event Info: Time = 13:24:17 his

MAP : RA HIS / ant sept – more withdrawn towards A

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



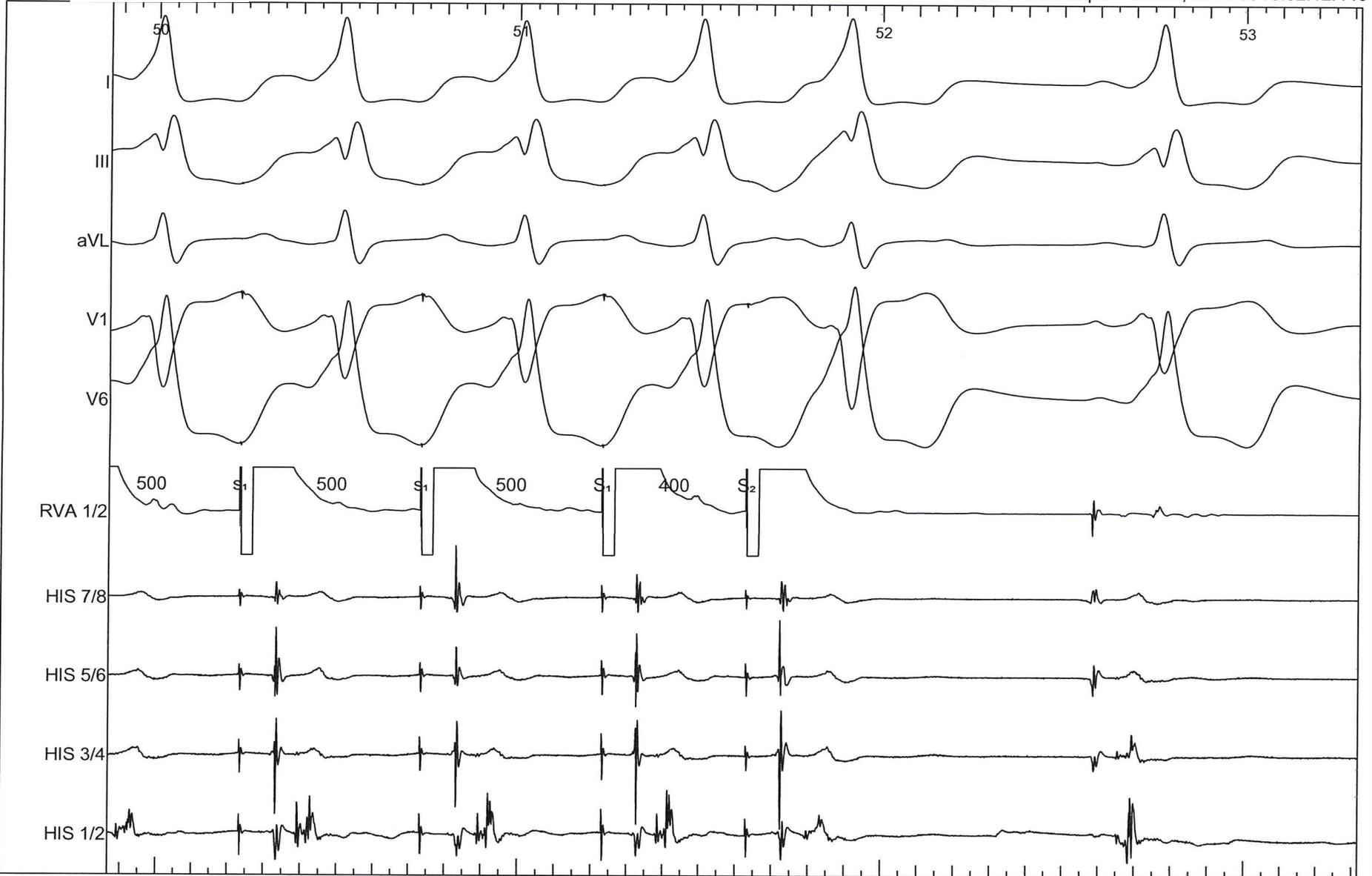
MAP : RA HIS / ant sept - A-stim + 1 Extra-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

Patient:

ID: 36219

Recorded on September 28, 2016 at 13:52:12.443



Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: Paced single Procedure: EPU/ABL Date of Procedure: September 28 2016 Protocol: WPW
Current Event Info: Time = 13:52:14 PCL* = 500, PCL = 500, S₁S₂ = 400, Stimuli = S₂; Site = RVA 1/2;

HIS catheter + RVA cath in HRA – programmed A-stim



f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: Paced single Procedure: EPU/ABL Date of Procedure: September 28 2016 Protocol: WPW
Current Event Info: Time = 13:52:21 PCL* = 500, PCL = 500, S1 S2 = 380, Stimuli = S2; Site = RVA 1/2;

HIS catheter + RVA cath in HRA – programmed A-stim



f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

Patient:

ID: 36219

Recorded on September 28, 2016 at 13:52:26.381



Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: Paced single Procedure: EPU/ABL Date of Procedure: September 28 2016 Protocol: WPW
Current Event Info: Time = 13:52:28 PCL* = 500, PCL = 500, S1S2 = 360 Stimuli = S2 Site = RVA 1/2

HIS catheter + RVA cath in HRA – programmed A-stim

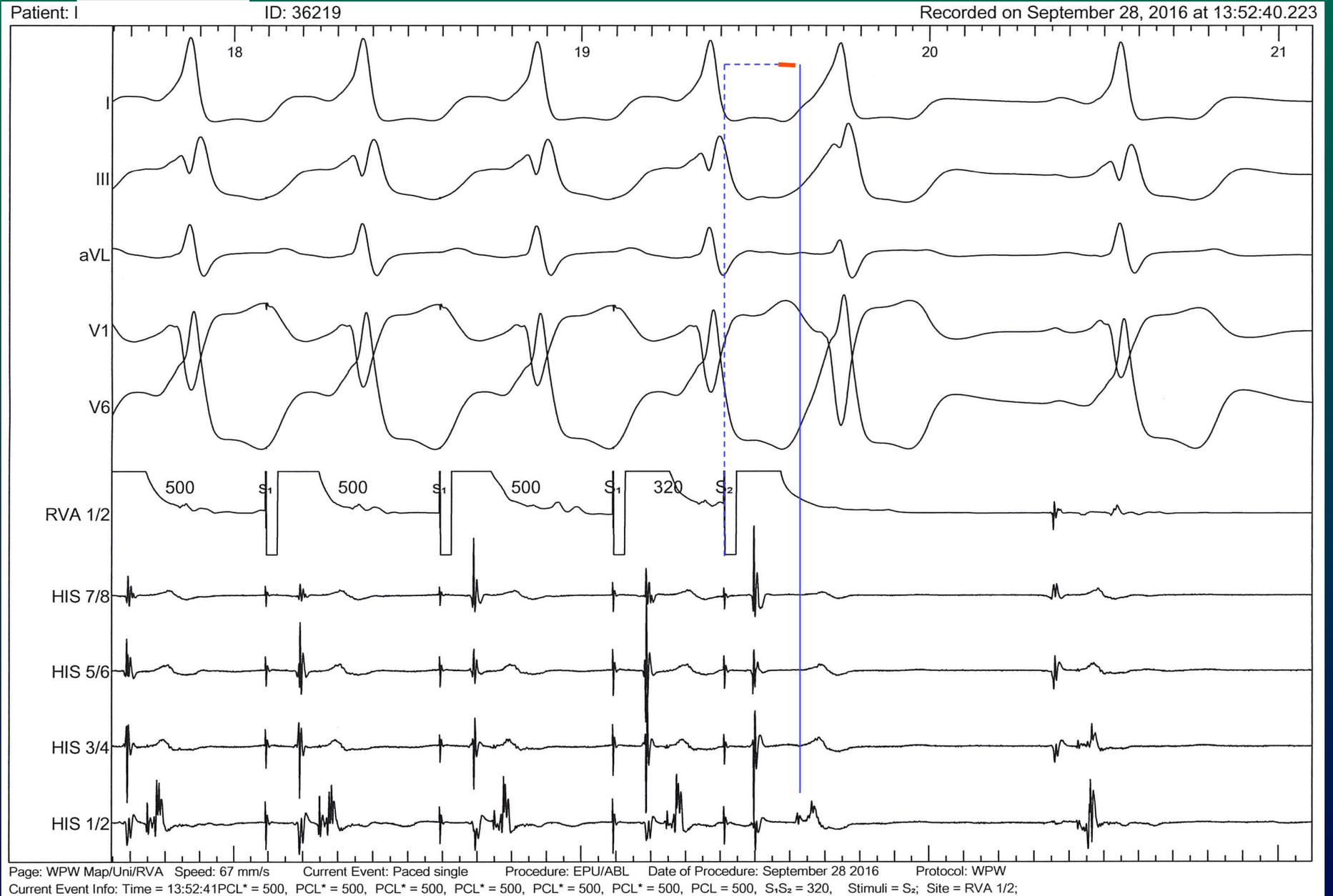


f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



HIS catheter + RVA cath in HRA – programmed A-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



HIS catheter + RVA cath in HRA – programmed A-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

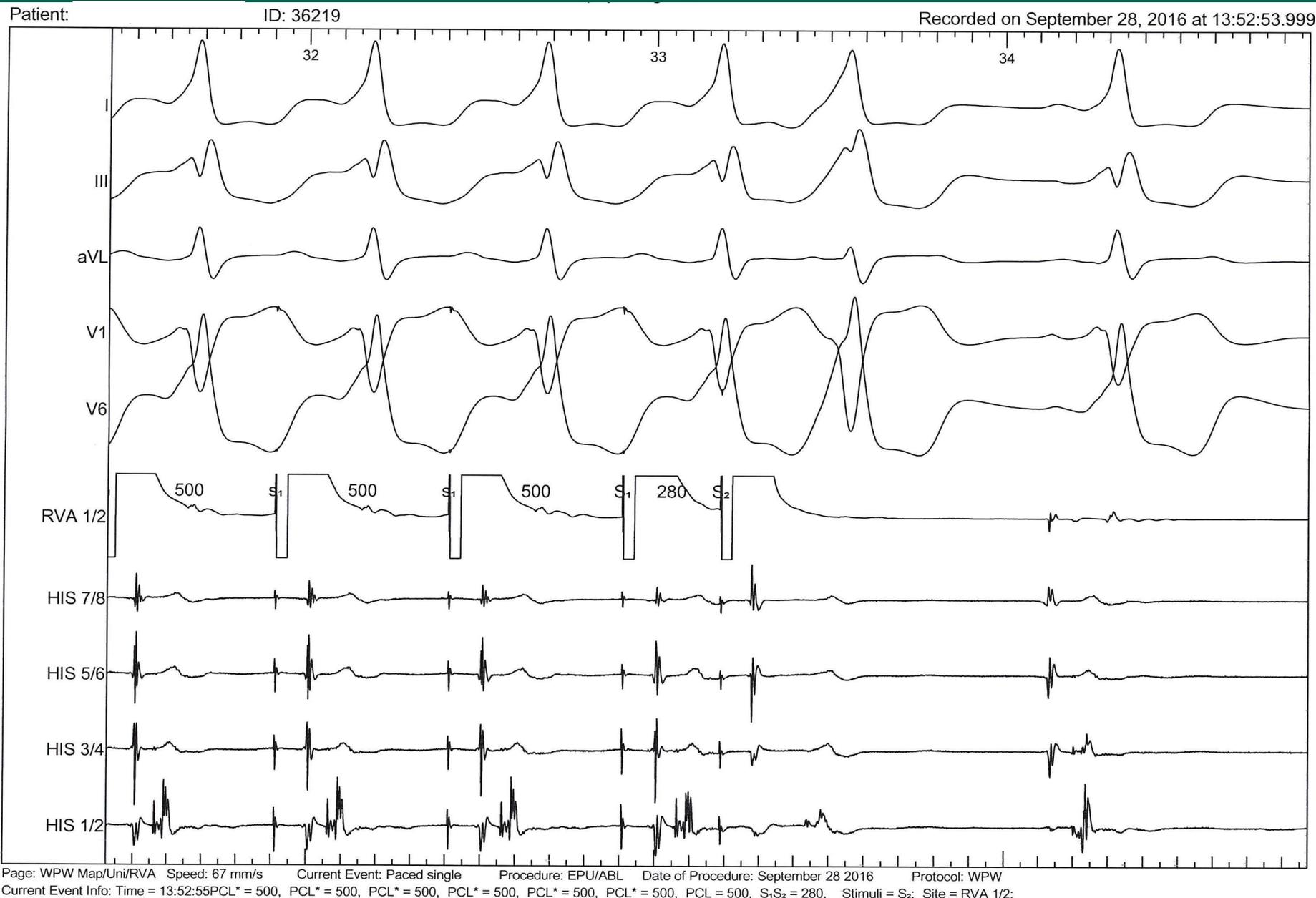


Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: Paced single Procedure: EPU/ABL Date of Procedure: September 28 2016 Protocol: WPW
Current Event Info: Time = 13:52:48 PCL* = 500, PCL = 500, S1S2 = 300, Stimuli = S2, Site = RVA 1/2;

HIS catheter + RVA cath in HRA – programmed A-stim

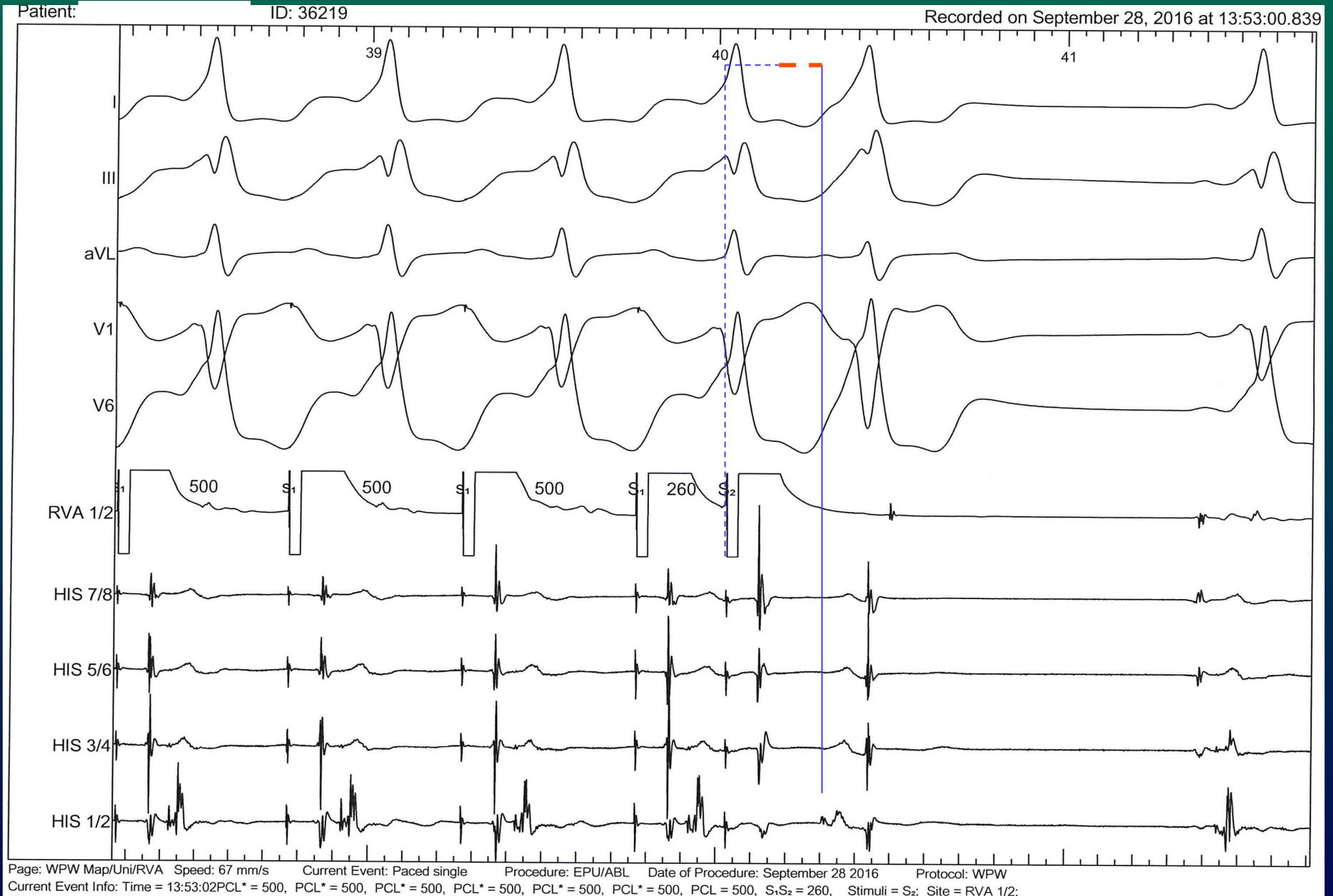


f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



HIS catheter + RVA cath in HRA – programmed A-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



HIS catheter + RVA cath in HRA – programmed A-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



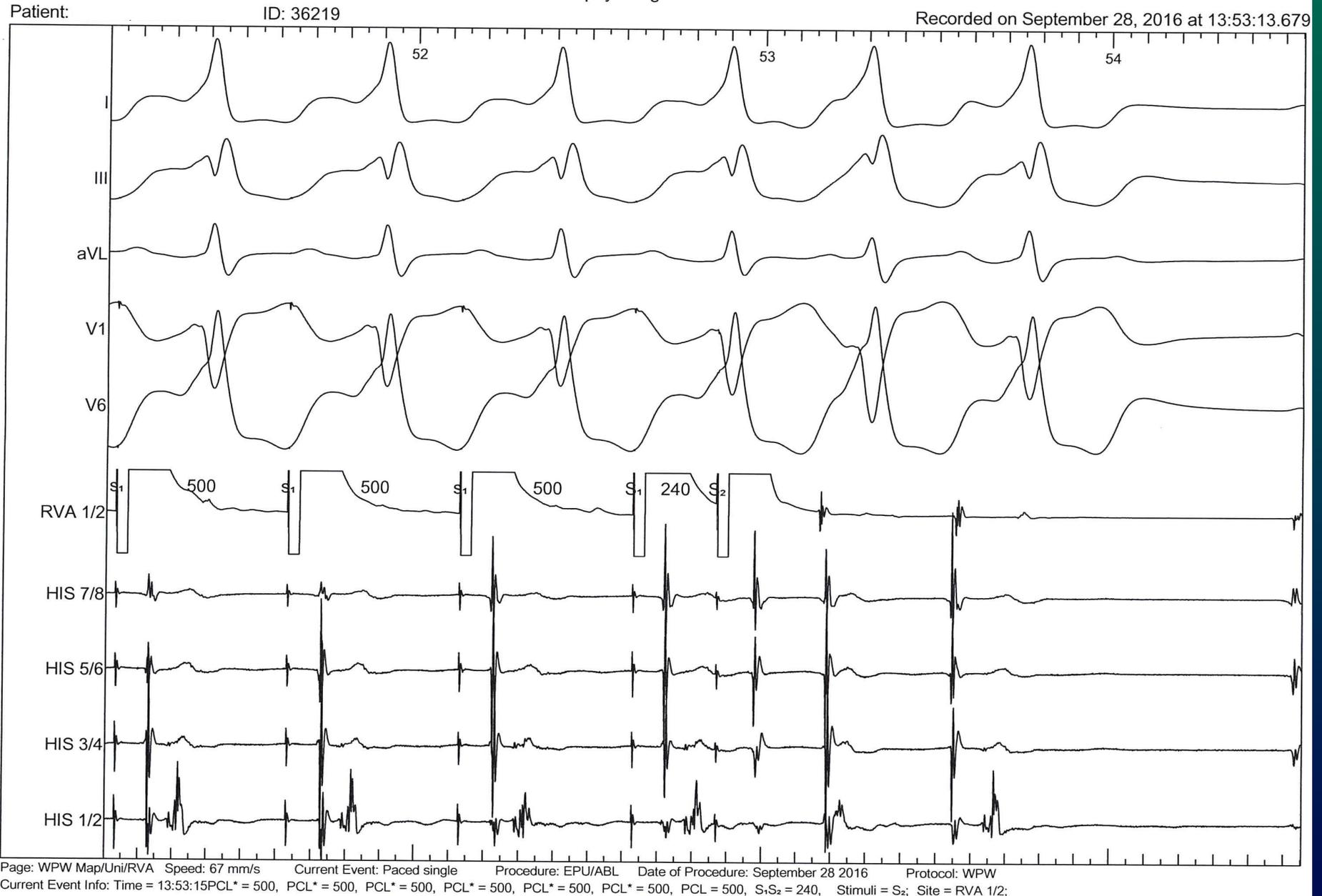
HIS catheter + RVA cath in HRA – programmed A-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



HIS catheter + RVA cath in HRA – programmed A-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



HIS catheter + RVA cath in HRA – programmed A-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



HIS catheter + RVA cath in HRA – programmed A-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



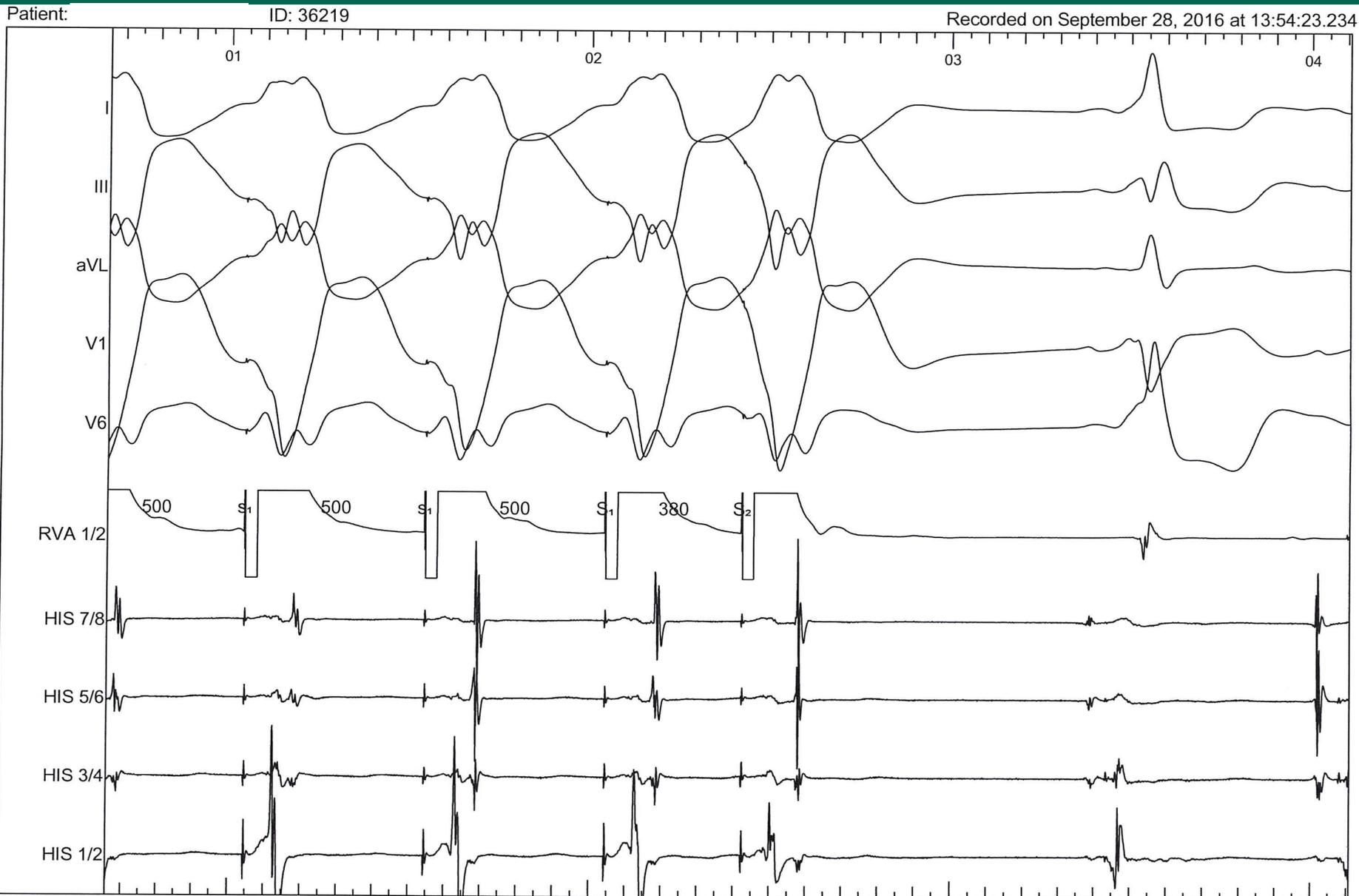
HIS catheter + RVA cath in HRA – programmed A-stim

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



HIS catheter + RVA cath in HRA – programmed A-stim – A-ERP

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

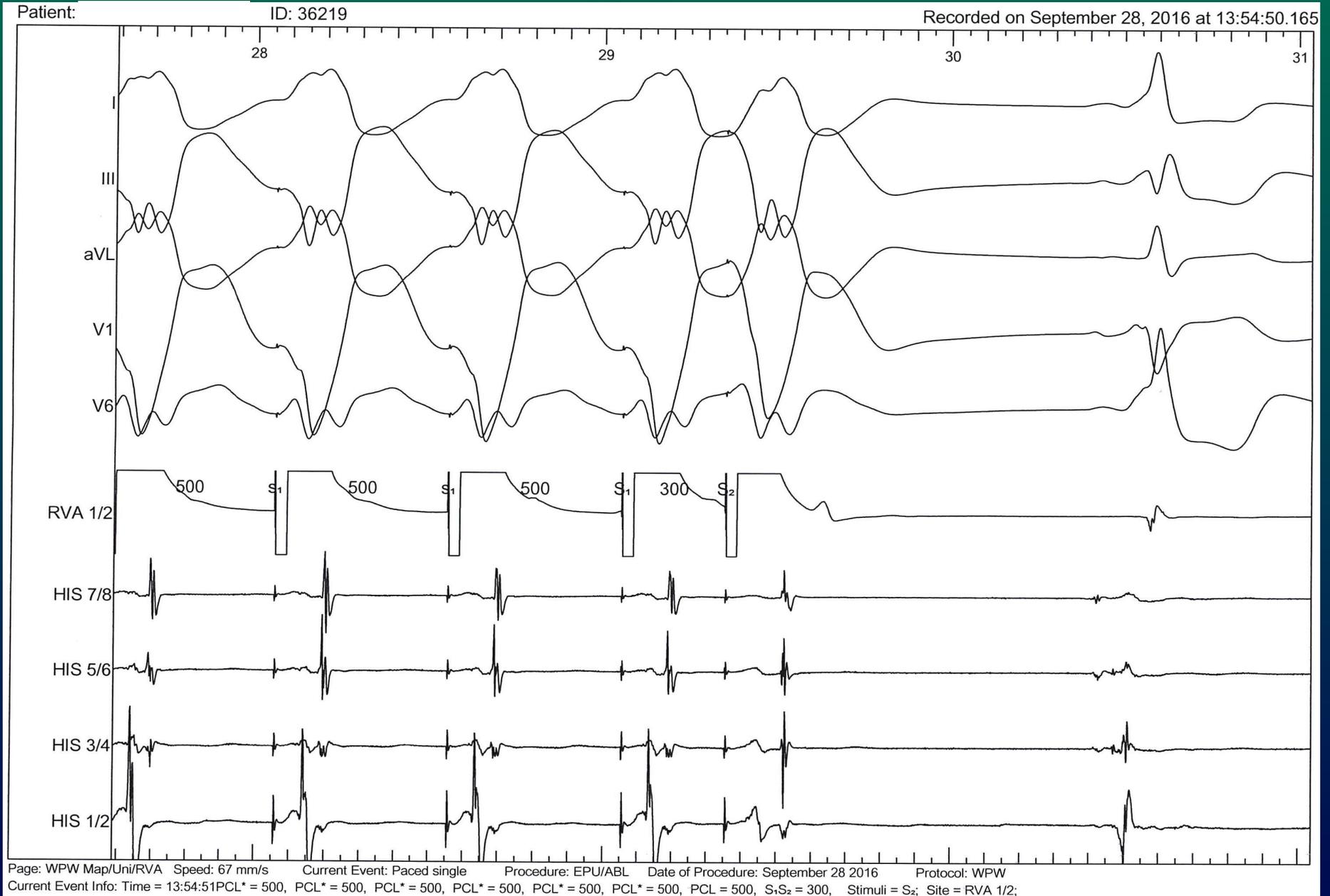


Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: Paced single Procedure: EPU/ABL Date of Procedure: September 28 2016 Protocol: WPW
Current Event Info: Time = 13:54:24 PCL* = 500, PCL = 500, S1S2 = 380, Stimuli = S2; Site = RVA 1/2;

HIS catheter + RVA – programmed V-stim

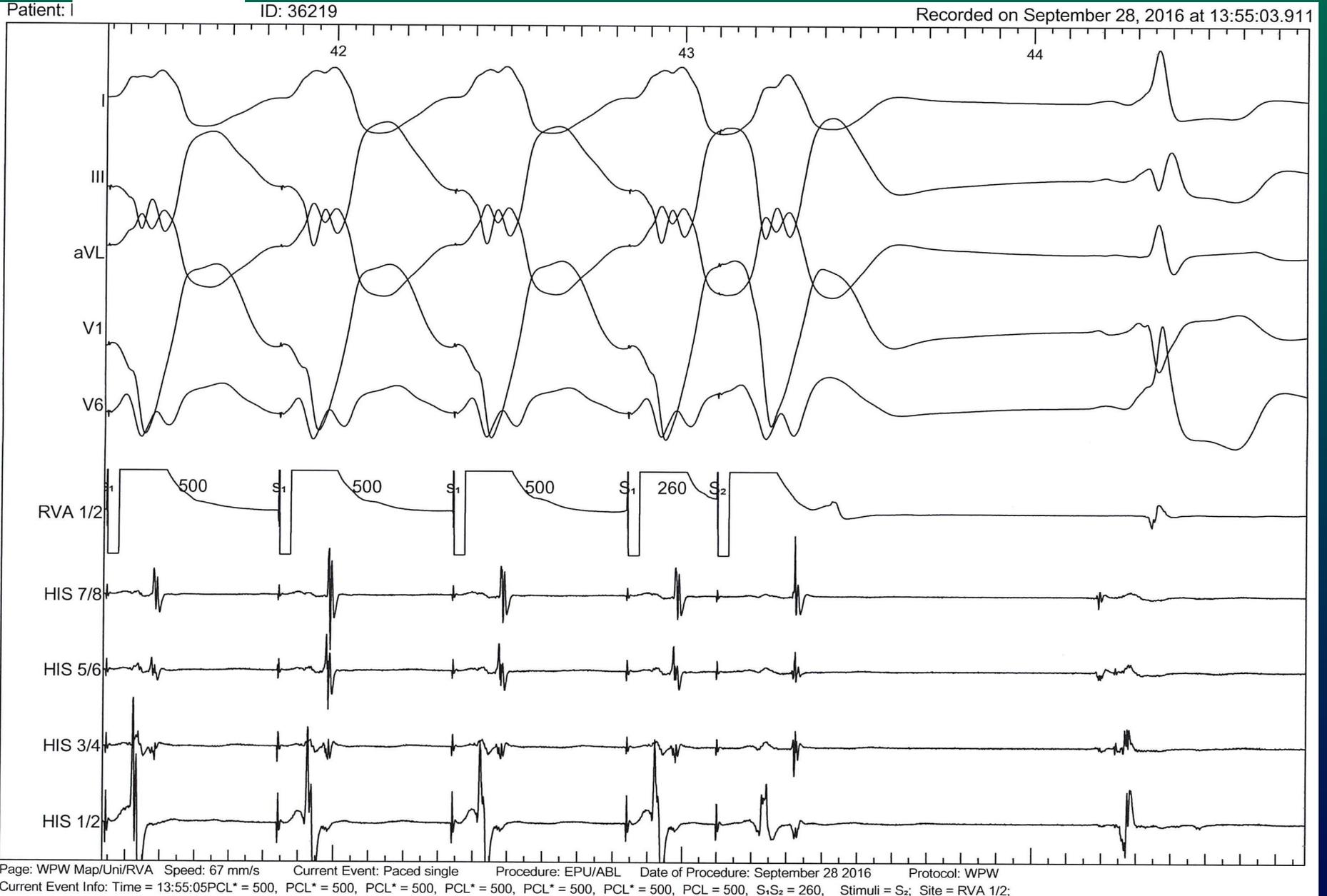


f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

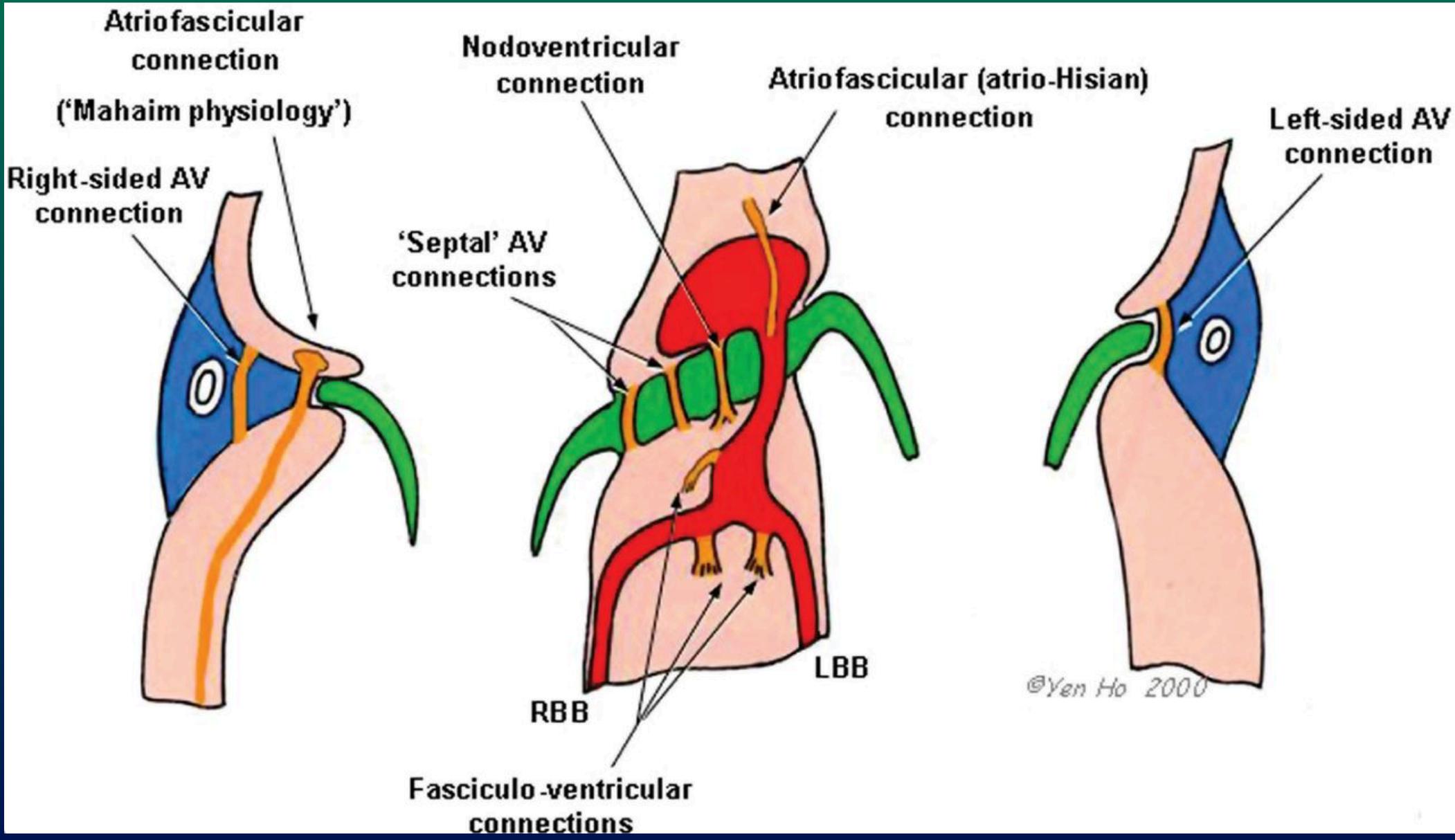


HIS catheter + RVA – programmed V-stim

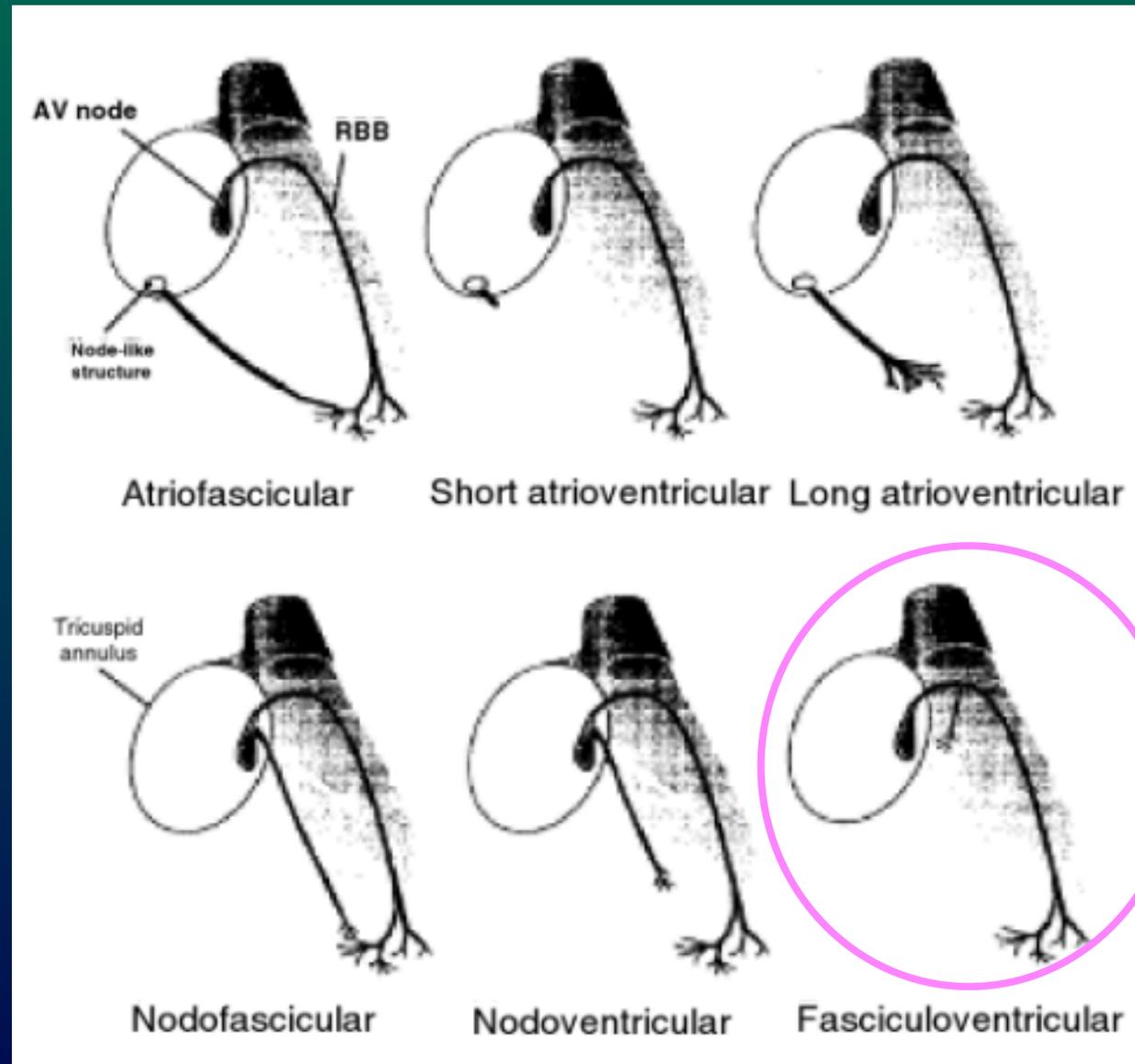
f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



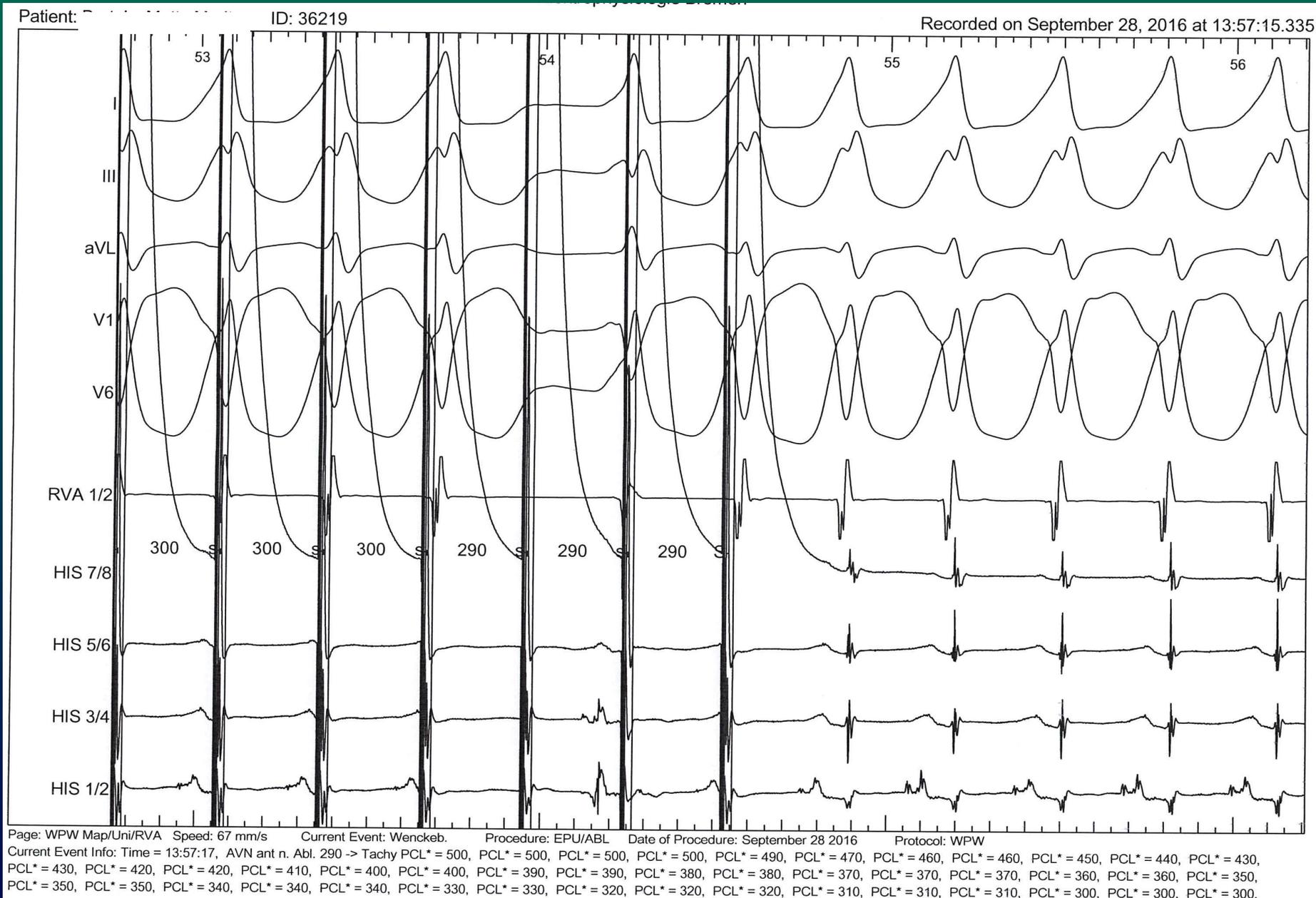
HIS catheter + RVA – programmed V-stim



... updated version of „Mahaim´s anatomical classification of the preexcitation variants ...



f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



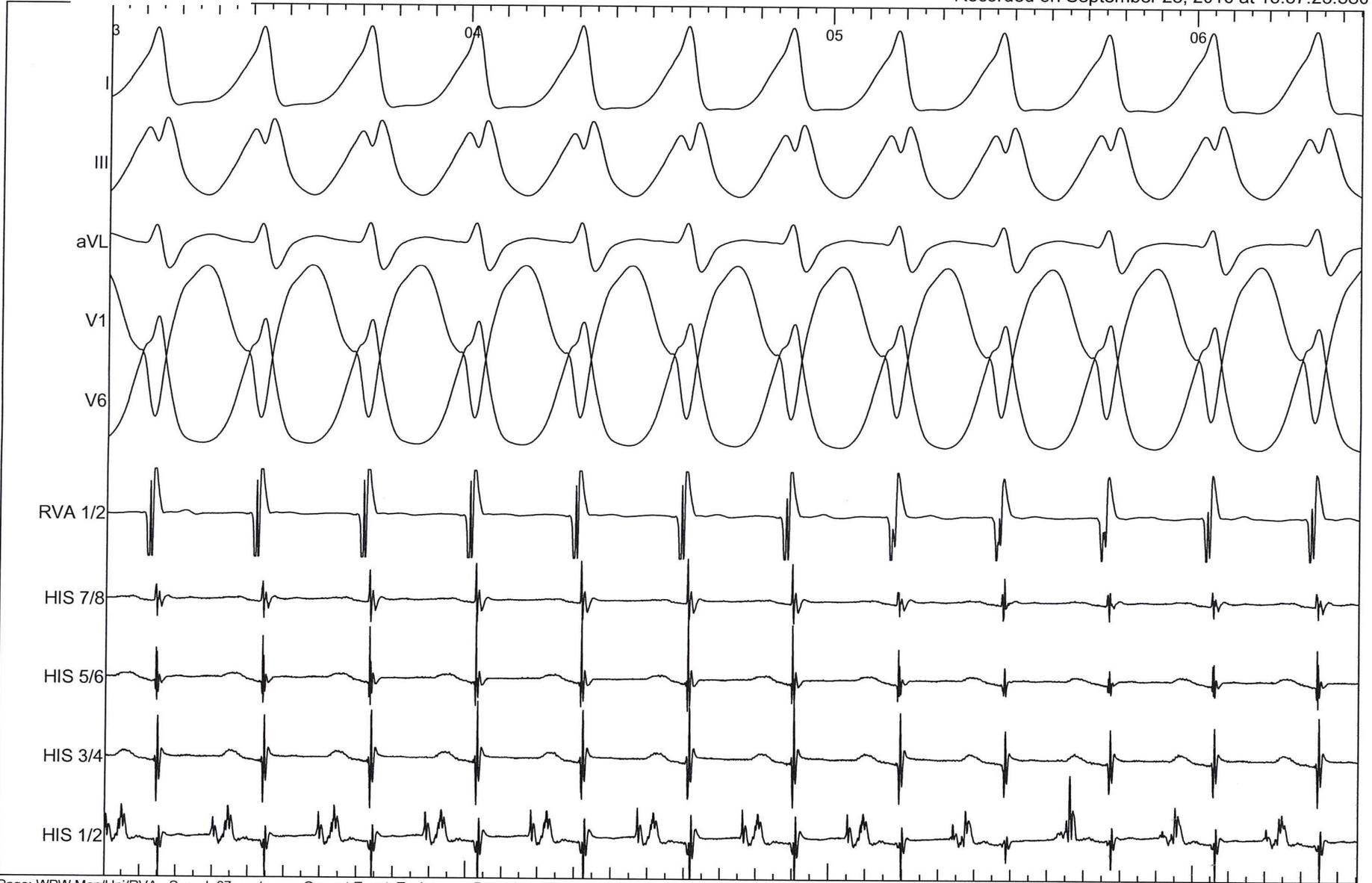
HIS catheter + RVA – programmed V-stim -> Induction of typ. AVNRT

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol

Patient:

ID: 36219

Recorded on September 28, 2016 at 13:57:25.580



Page: WPW Map/Uni/RVA Speed: 67 mm/s Current Event: Tachy

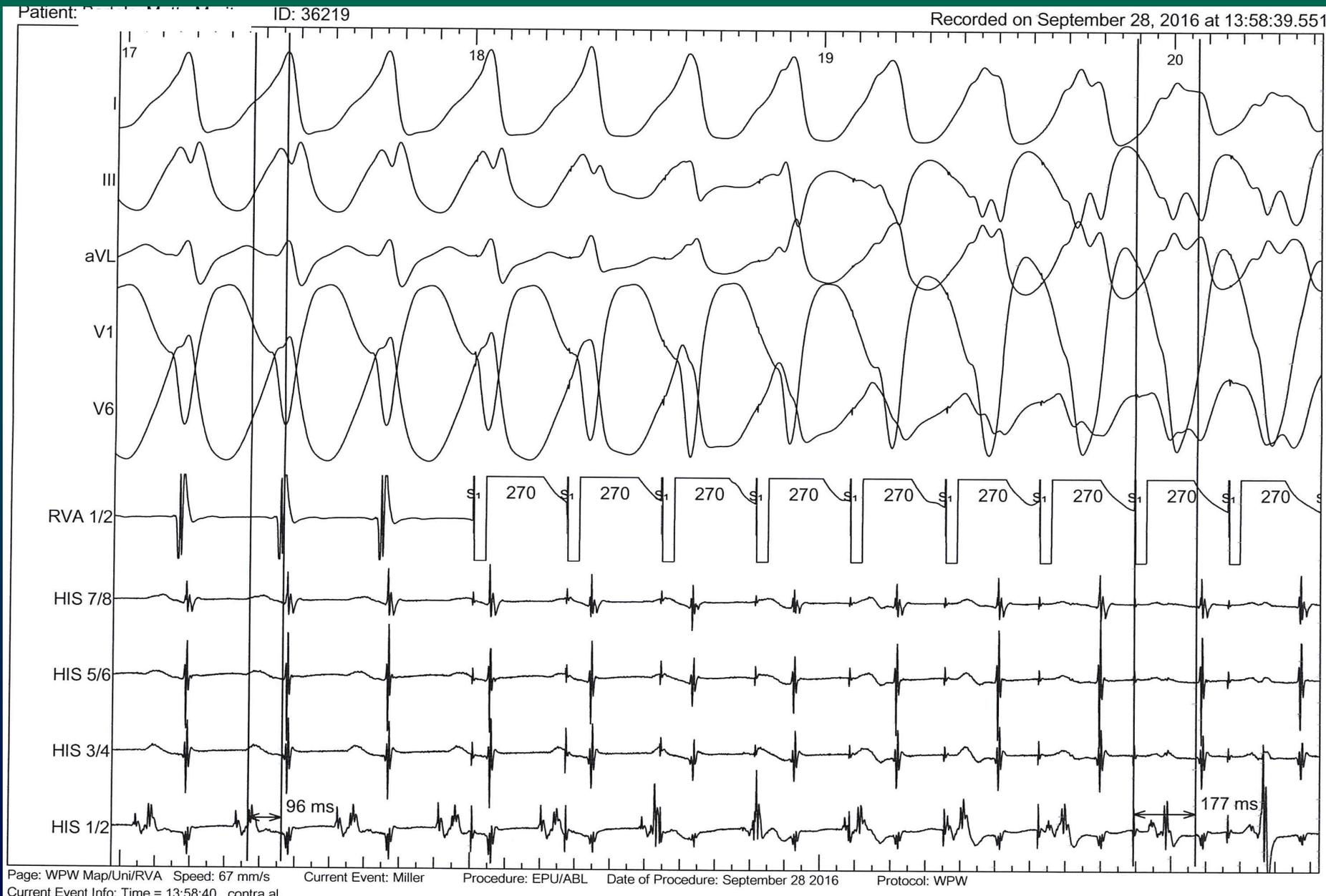
Procedure: EPU/ABL Date of Procedure: September 28 2016

Protocol: WPW

Current Event Info: Time = 13:57:27, AVNRT ? CL 290 QRS 110

AVNRT

f, 17 yol, HCM, rec. tachy + syncopies, ICD-impl. at age 13 yol



Miller-Stim-manuever – pro – AVNRT (contra AP)

- *f, 17 yol*
- *HCM*
- *rec. palpitations / tachycardias*
- *2 x syncope*
- *ICD at age 13 yol*

EPS-DX:

- *overt right ant-lat AP*
- *fasciculo-ventricular fiber*
- *typical AVNRT*

Radiofrequency Current Catheter Ablation

recommendations

- be aware of multi-/ unusual substrates

