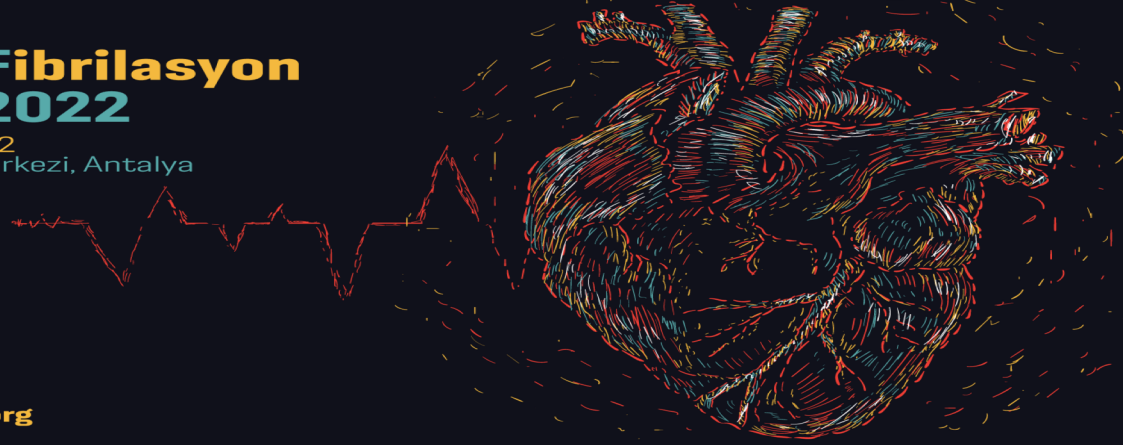




11. Atrial Fibrilasyon Zirvesi 2022

9 - 10 Aralık 2022
Spice Kongre Merkezi, Antalya

www.afzirvesi.org



Diğer PV dışı odakların ablasyonu

Dr.Gökhan AKSAN

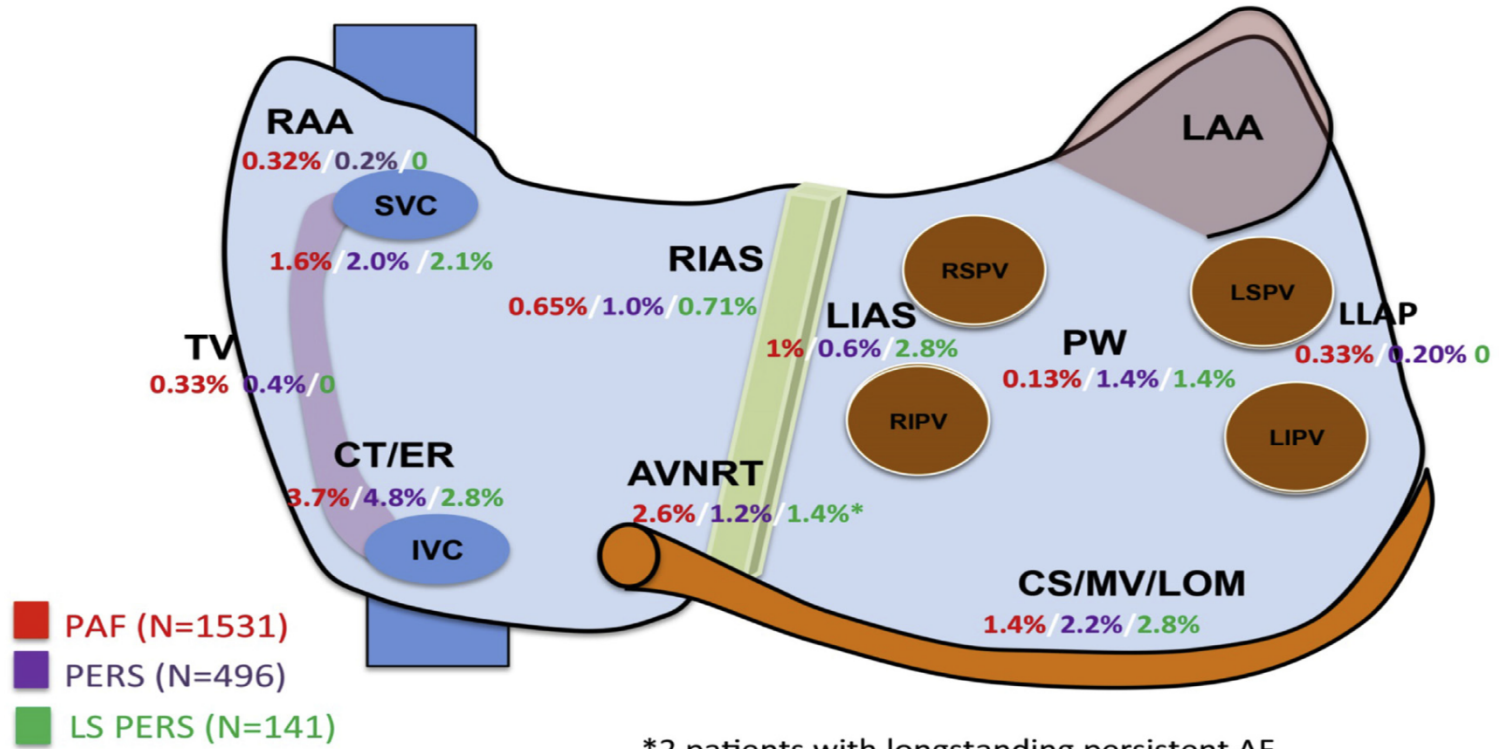
Samsun Eğitim ve Araştırma Hastanesi

PV dışı odakları

- Torasik venler (SVC, Koroner Sinüs, VOM)
- Sol atriyum posterior duvar
- Krista terminalis
- İnteratriyal septum
- Sol atriyal apendiks

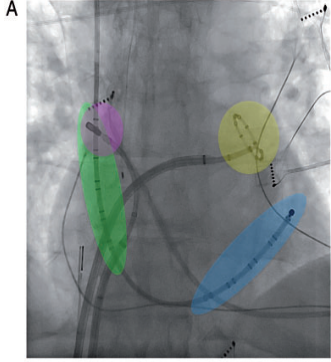
RAA=right atrial appendage
 TV=tricuspid valve
 CT=crista terminalis
 ER=eustacian ridge
 SVC=superior vena cava
 AVNRT=AV node reentrant tachycardia

LAA=left atrial appendage
 MV=mitral valve
 CS=coronary sinus
 LOM=ligament of Marshall
 LLAP=left lateral accessory pathway
 PW=posterior wall



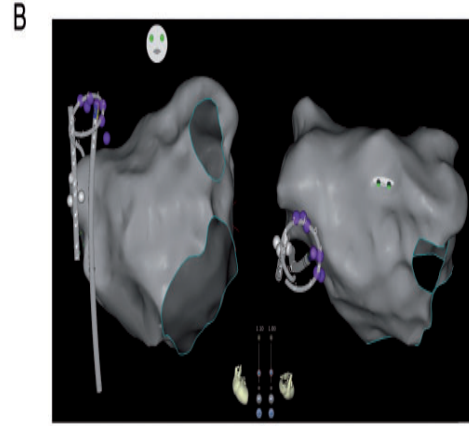
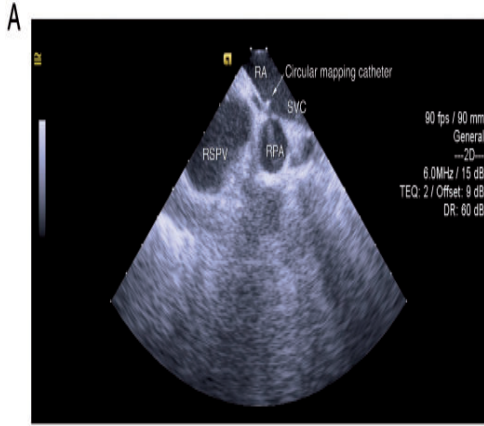
*2 patients with longstanding persistent AF

Kateter yerleşimi ve indüksiyon

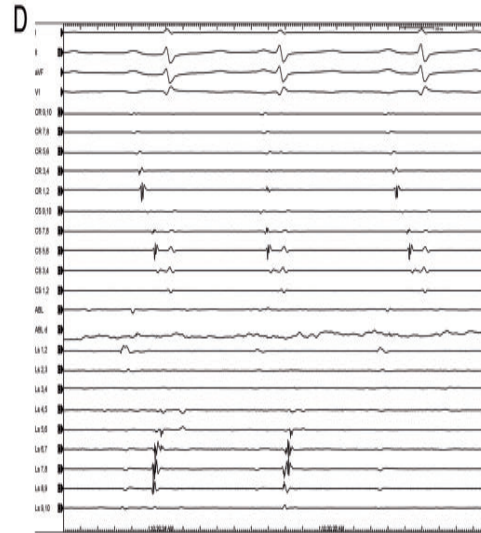


- İsoproterenol infüzyonu (10-20 mcg/dk 15 dakika)
- İsoproterenol ile TA düşerse epinefrin inf.
- Derin sedasyon kaçınmak gerekir
- PsAF %60 ında non pv trigger mevcut
- PAC(<10/dk), non sustained AT, sustained AT önemli (**tekrarlanabilir olmalı!**)
- Antiarritmik ilaçlar en az 5 yarılanma ömründen önce kesilecek
- SVC,LAA,CS komplet izolasyon diğer Non PV trigger lara genellikle fokal ablasyon

SVC izolasyonu

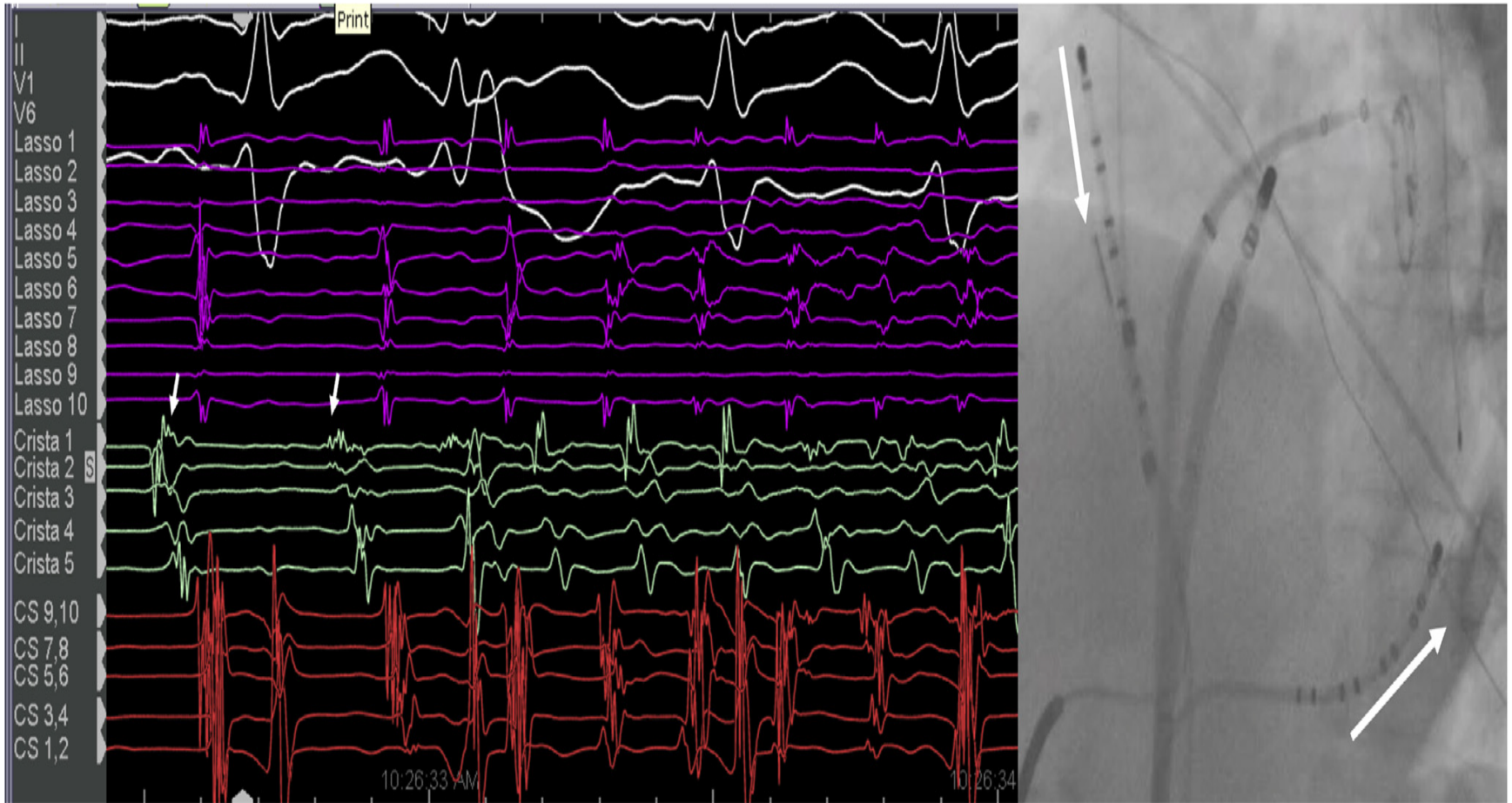


- Multipolar kateter SVC-RA junction da
- Sharp SVC potansiyeli hedef
- ICE kateter yerleşimi için faydalı
- İzolasyonda segmental yaklaşım
- **SEPTAL YAKLAŞIM İLE İZOLASYON**

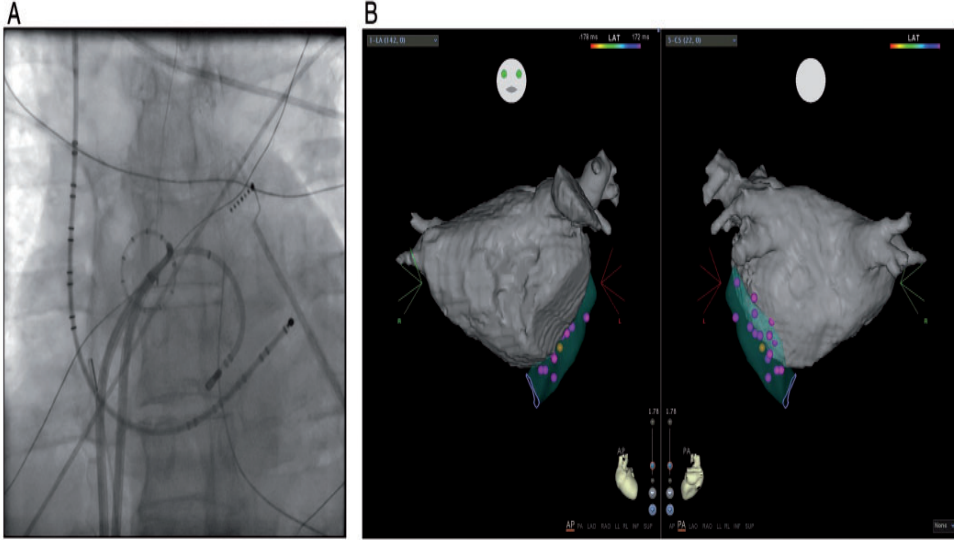


- **LATERAL YAKLAŞIM DA FRENİK SİNİR SİNUS NOD HASAR RİSKİ**
- Ablasyon oncesinde frenik sinir stimülasyonu
- Genel anesteziden kaçınılmalı
- Ablasyon sonunda entrance blok gösterilmeli

SVC izolasyonu



CS izolasyonu



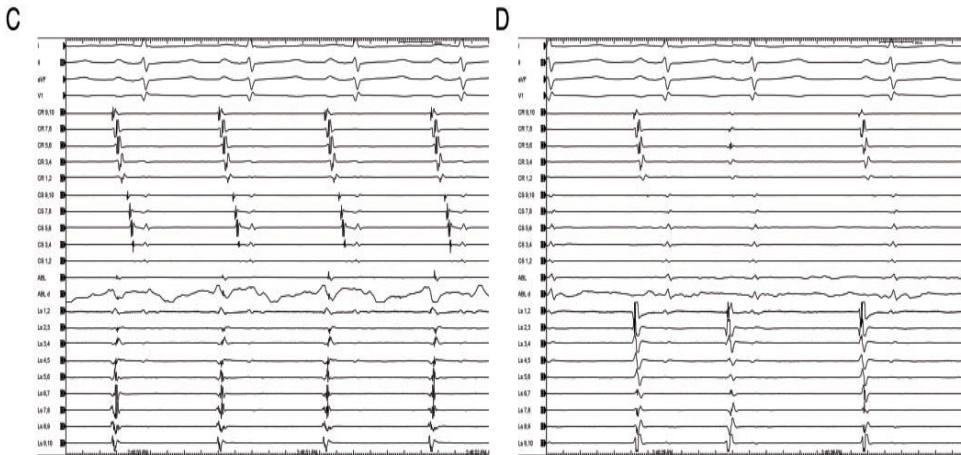
- Fokal yerine komplet izolasyon
- Endo ve Epi beraber yaklaşım
- Myokardiyal uzanım alanları hedef
- Ablasyon sonlanım noktası lokal sharp potansiyellerin kaybı veya disosiasyon
- Epikardiyal yaklaşımda kateter atriyal tarafa bakmalı (CS dalına dönme steam

pop riski!

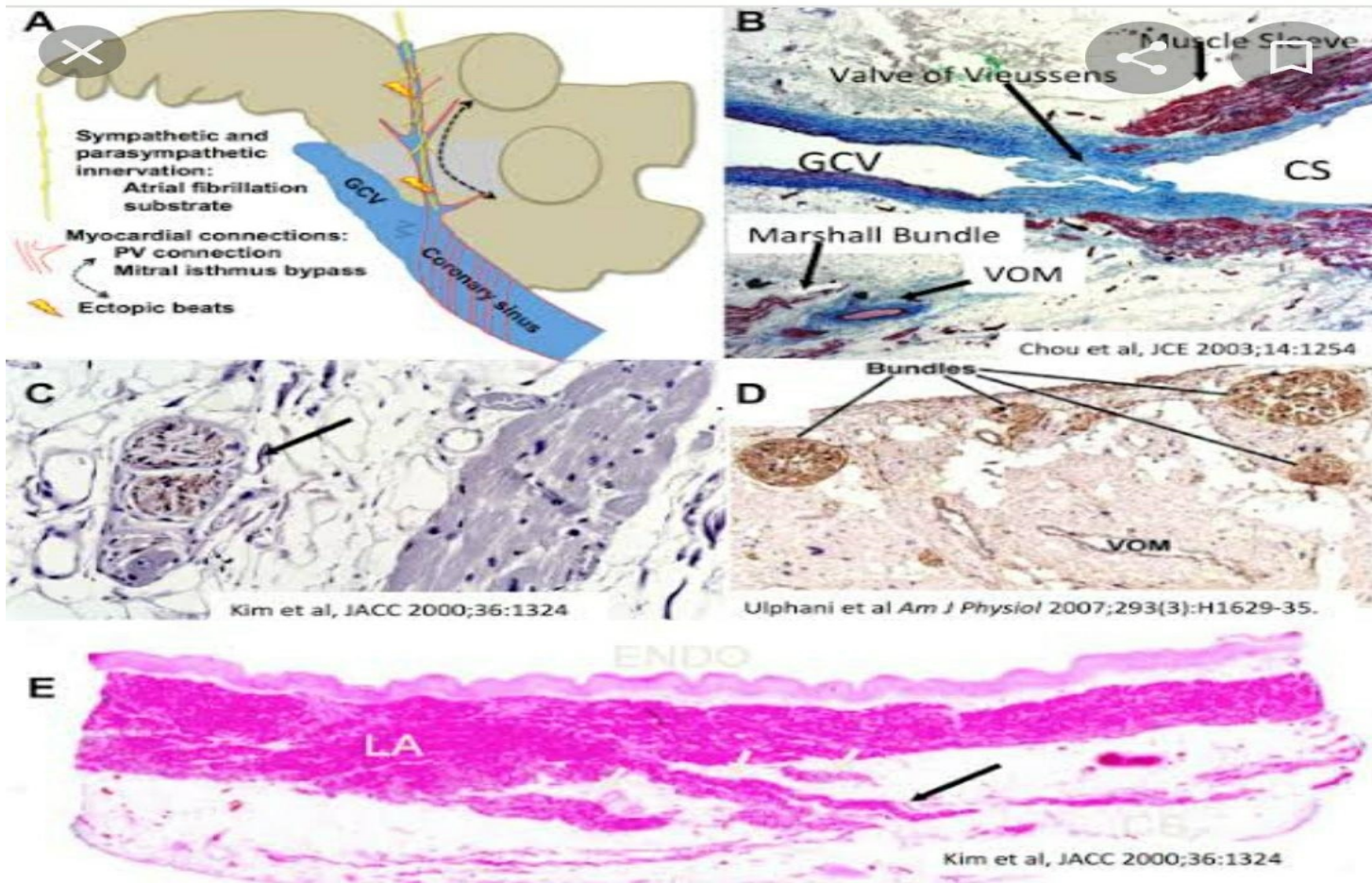
- 25-30 watt , yüksek irrigasyon (ani imp. artışına dikkat)

- CS alanında AV blok riskine dikkat

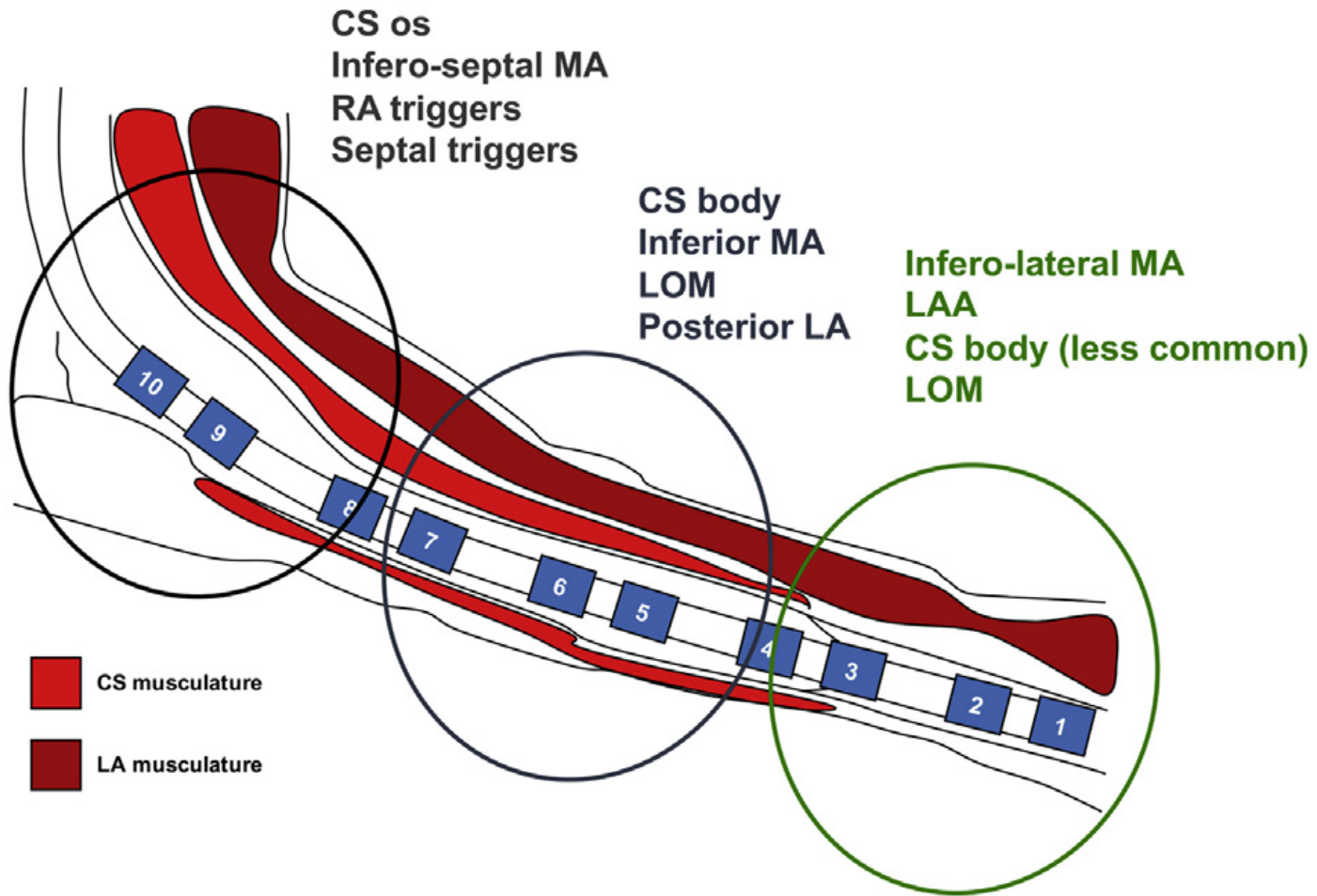
- AÖF riski bu yaklaşımda fazla



CS izolasyonu



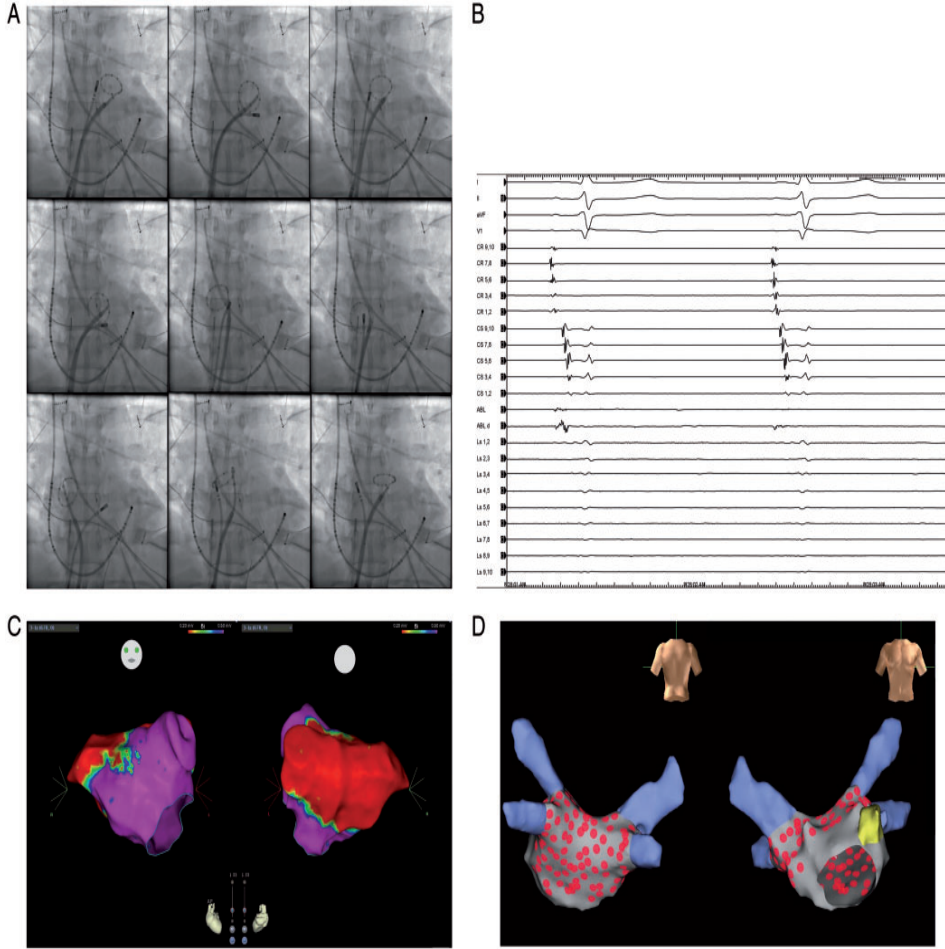
CS izolasyonu



CS izolasyonu

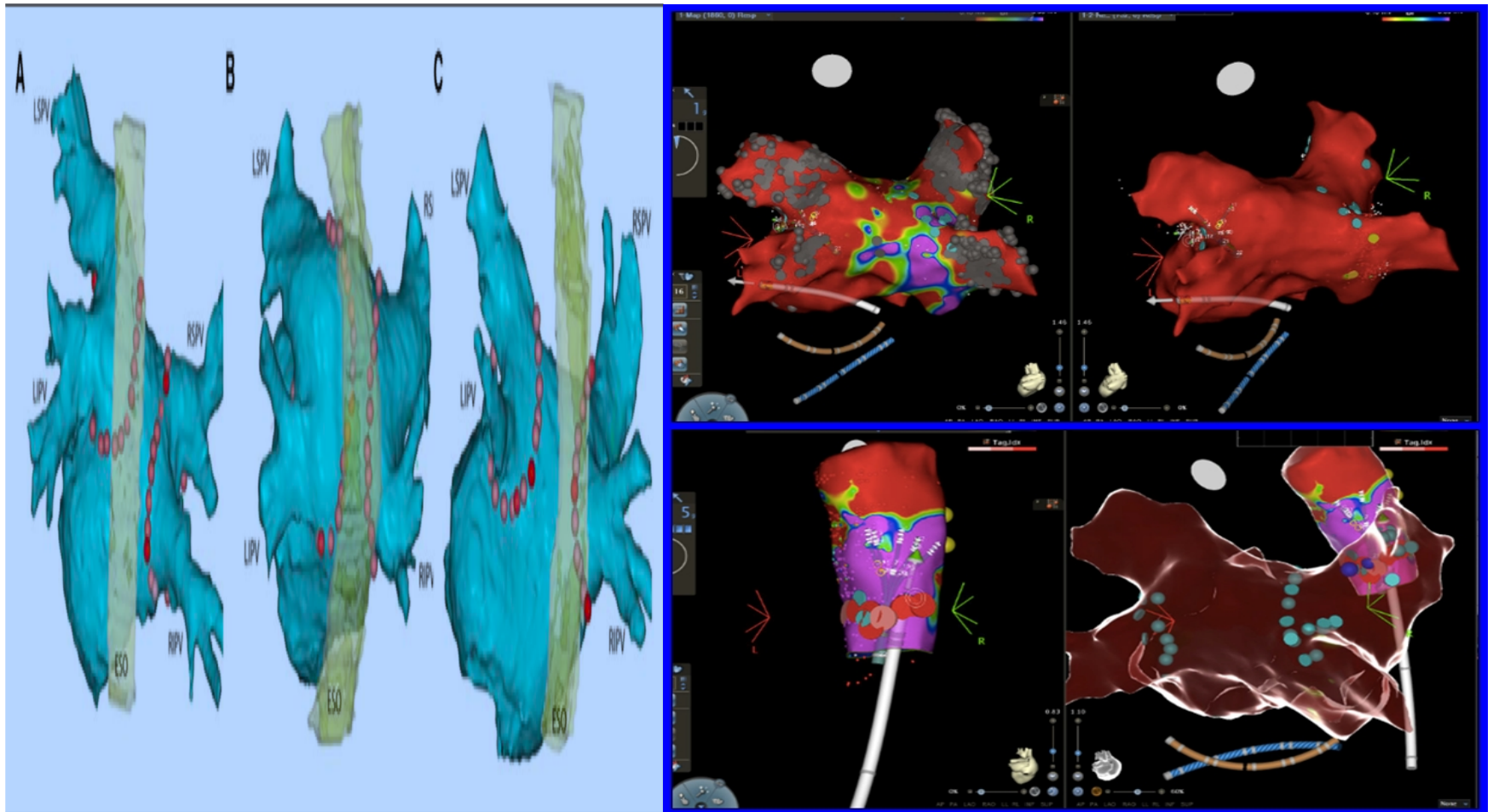


LA posterior duvar izolasyonu

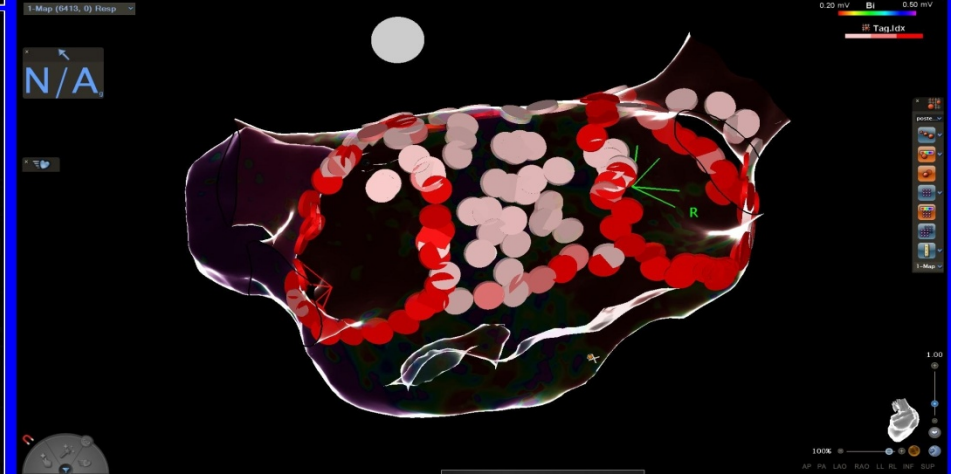
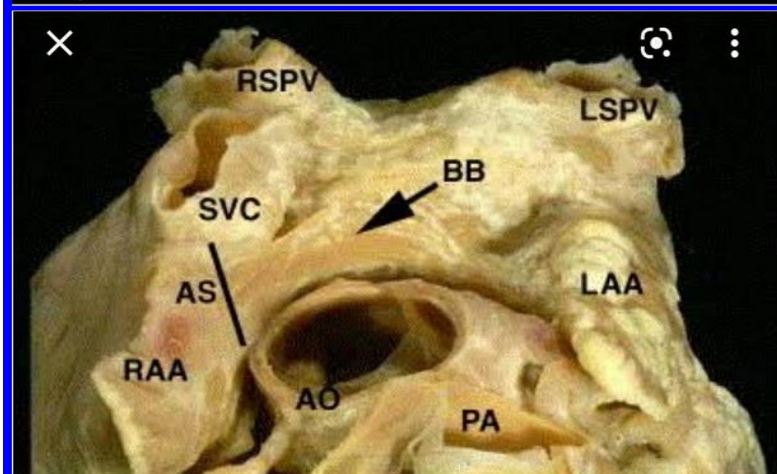
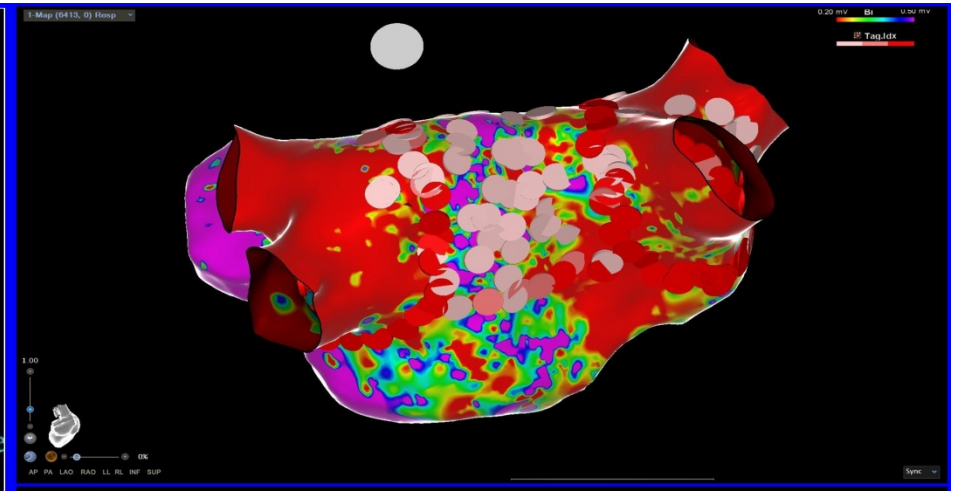
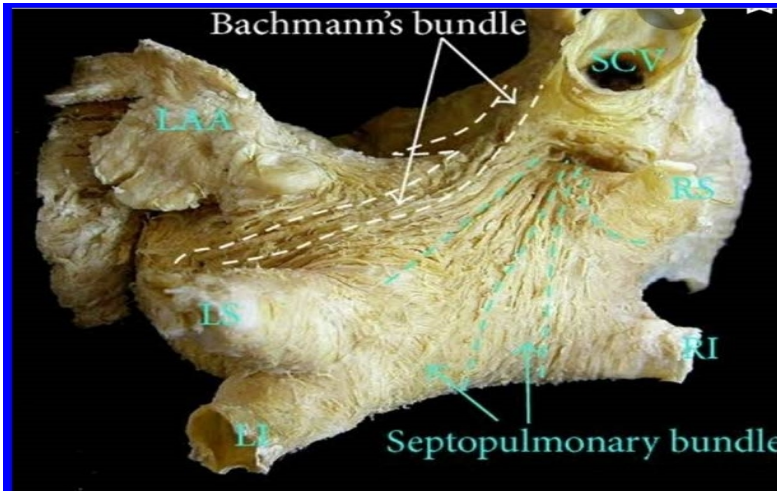


- Embriyolojik olarak PV lerin uzanımı kabul ediliyor.
- PVAI dan sonra PW izolasyonu box lezyon veya Egm temelli ablasyon ile yapılır
- Box lezyon setinin sonrasında gap ilişkili LRAT/MRAT olabilir. (RF sonrasında bidirectional blok göstermek önemli !)
- Entrance blok yetmez exit blok da gösterilmeli (20 mA 2 ms pulse width)
- SPB, PSB gibi epikardiyal bağlantılar
- PW İZOLASYONU EGM TEMELLİ YAKLAŞIMDA ANTERİOR DUVAR, MİD SEPTAL VE CS ENDOKARDİYAL SAHAYA UZANABİLİR

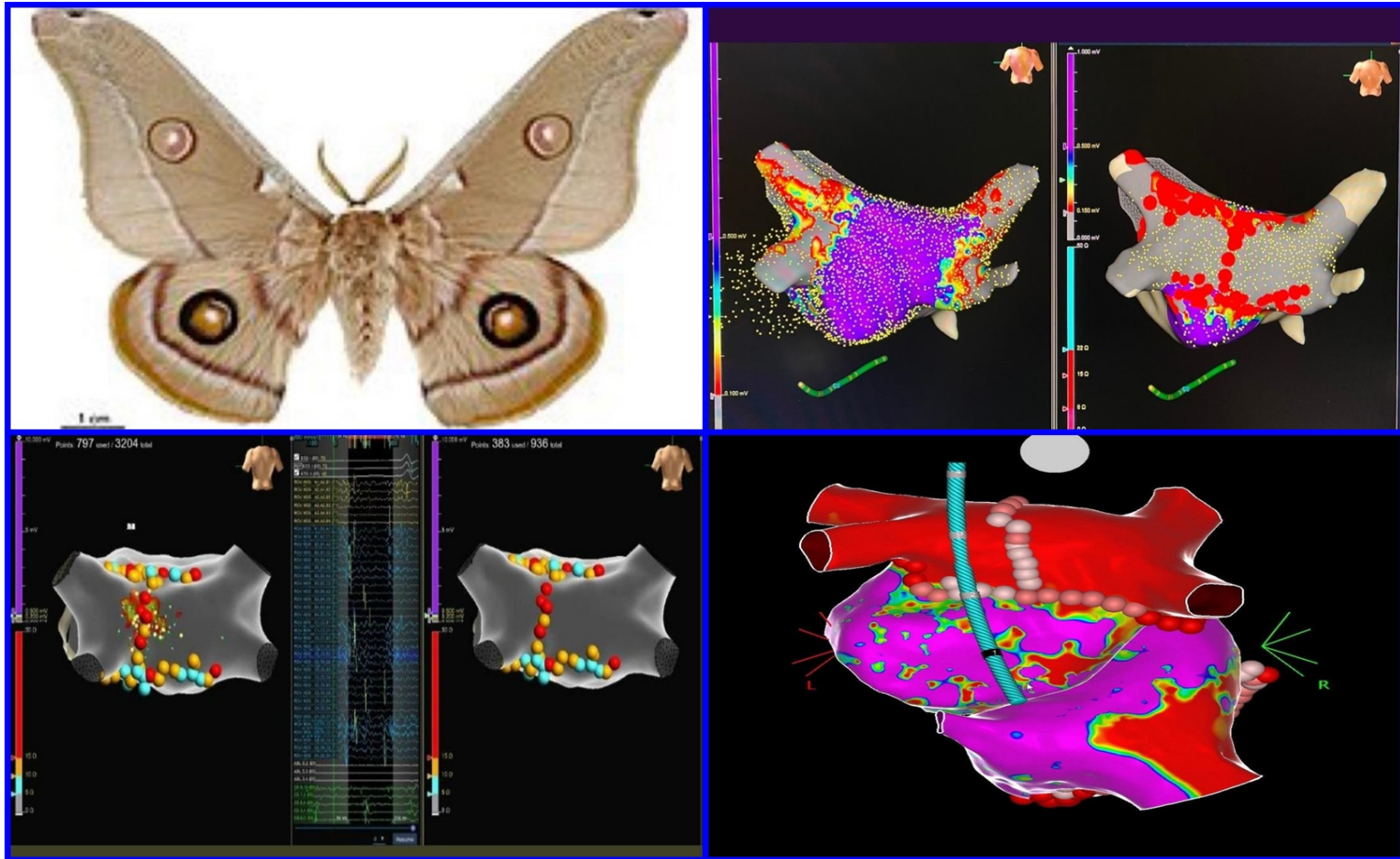
LA posterior duvar izolasyonu



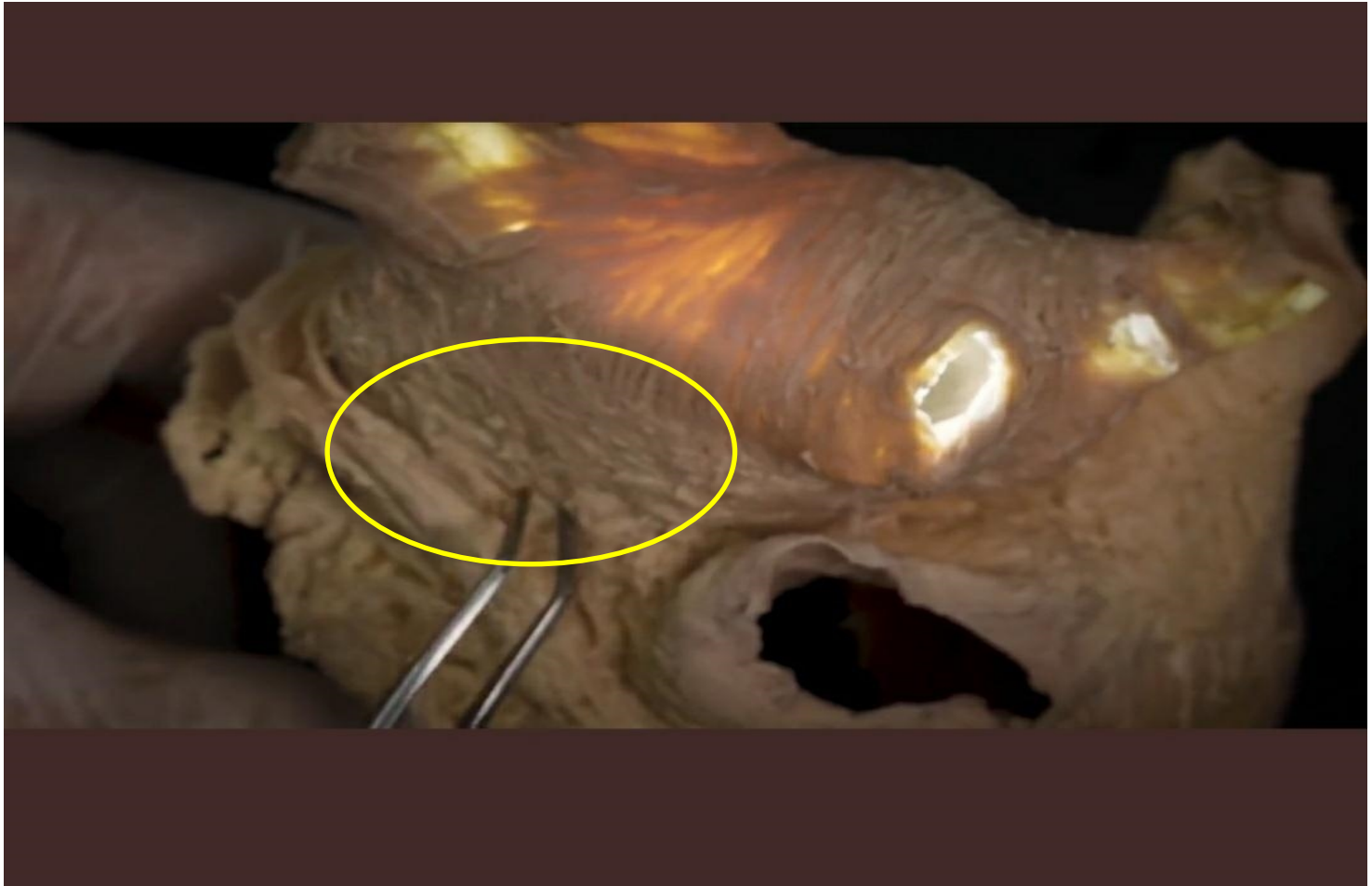
LA posterior duvar izolasyonu



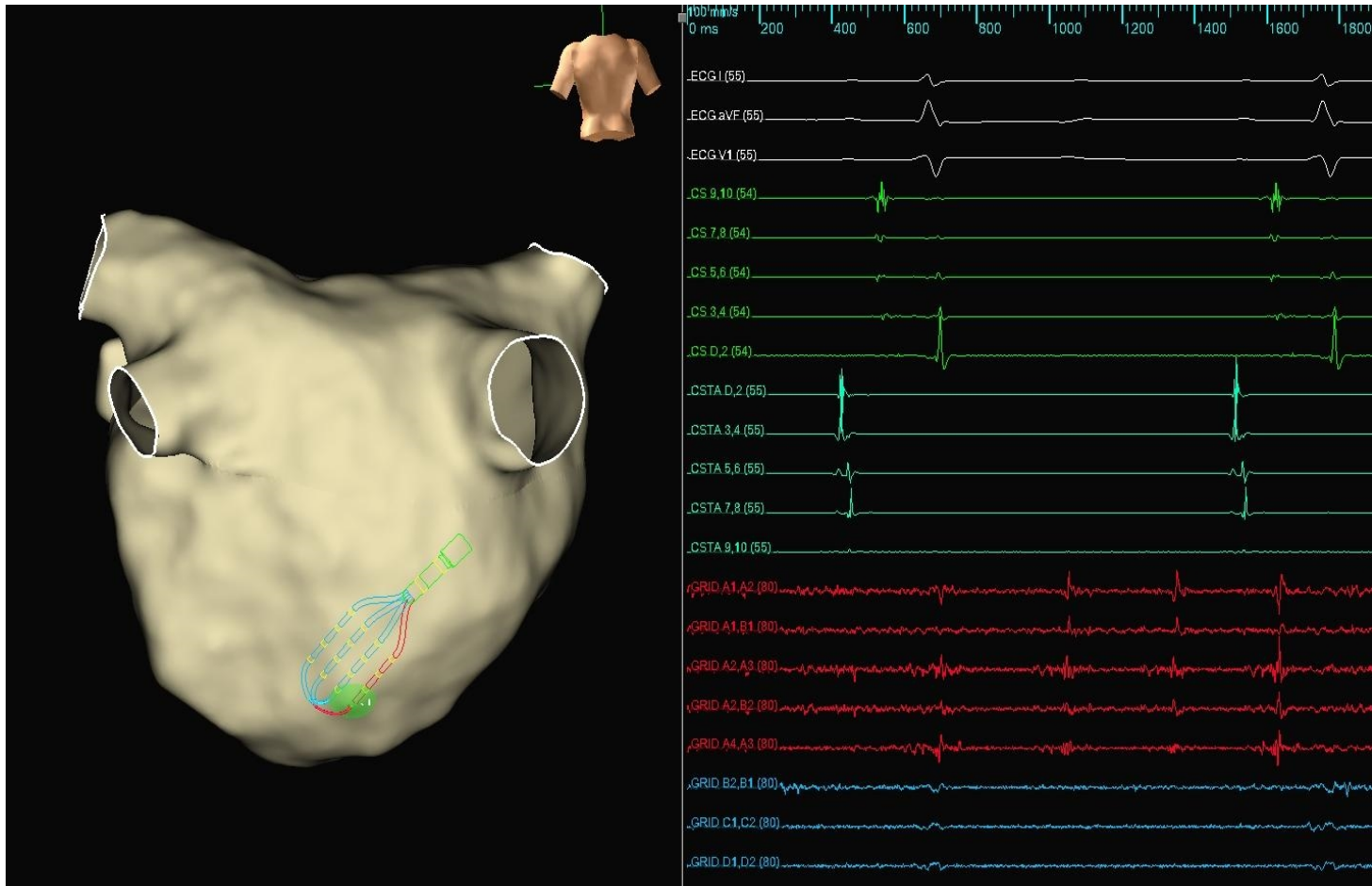
Butterfly lesion set-PW



LA posterior duvar izolasyonu



LA posterior duvar izolasyonu



ESC 2022 CAPLA RCT

Randomized trial of pulmonary vein isolation (PVI) with posterior wall isolation (PWI) in persistent atrial fibrillation

Conclusions

In patients undergoing first time ablation for persistent atrial fibrillation, the addition of posterior wall isolation does not improve arrhythmia outcomes compared with pulmonary vein isolation alone.

- These findings do not support the empiric inclusion of posterior wall isolation for persistent atrial fibrillation ablation

Peter Sauer
Australia

STAR AF-3

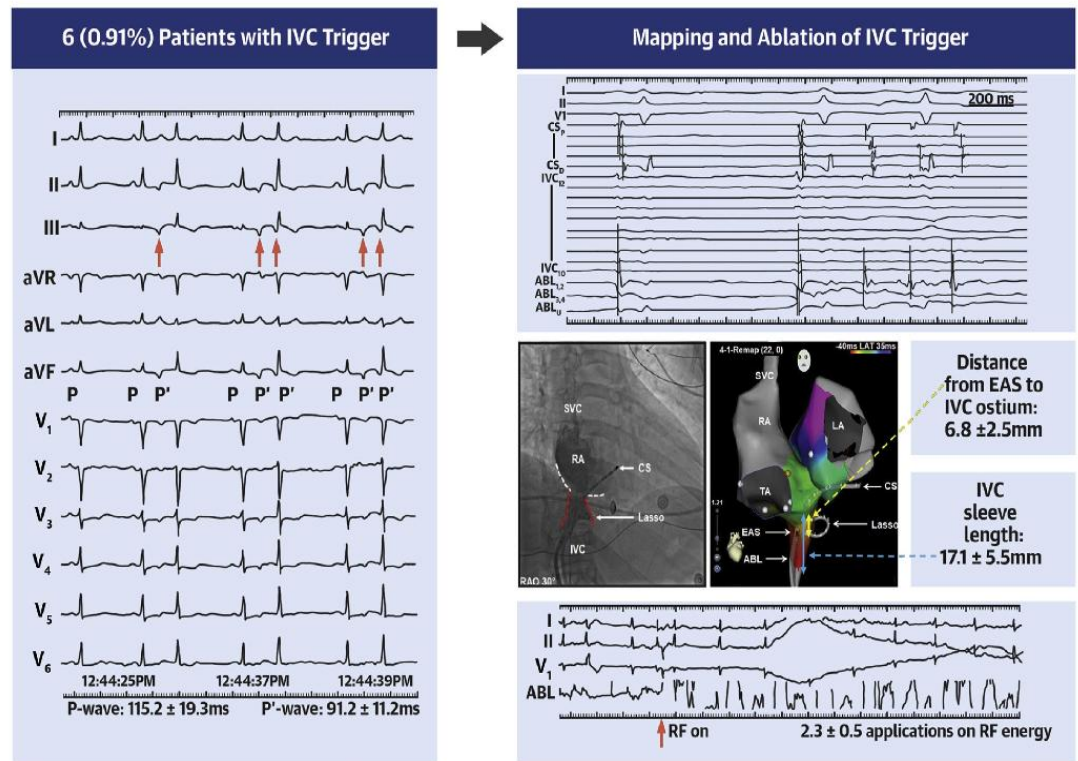
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What is STAR AF 3?

- To compare three strategies of ablation for persistent AF >3 mos, < 3 years, CHADS-VASc 1 or more (except female sex)
- Wide antral PVI
- PVI + Posterior wall isolation
- PVI + Elimination of dynamic substrate (localized rotational activation + foci)
- 600 patients, 35-40 centers, first 40 patients enrolled
- Canada activated
- Australia, EU, and Japan soon to be activated

IVC

CENTRAL ILLUSTRATION: The Incidence and Electrocardiographic and Electrophysiological Characteristics of Inferior Vena Cava Trigger



- Nadir non PV trigger
- PAF hastasında sıklık %0.9
- Inf der. negatif P dalgası
- Ön veya septal IVC

Cutoff value of LVA NSR-AF

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Validating Left Atrial Low Voltage Areas During Atrial Fibrillation and Atrial Flutter Using Multielectrode Automated Electroanatomic Mapping

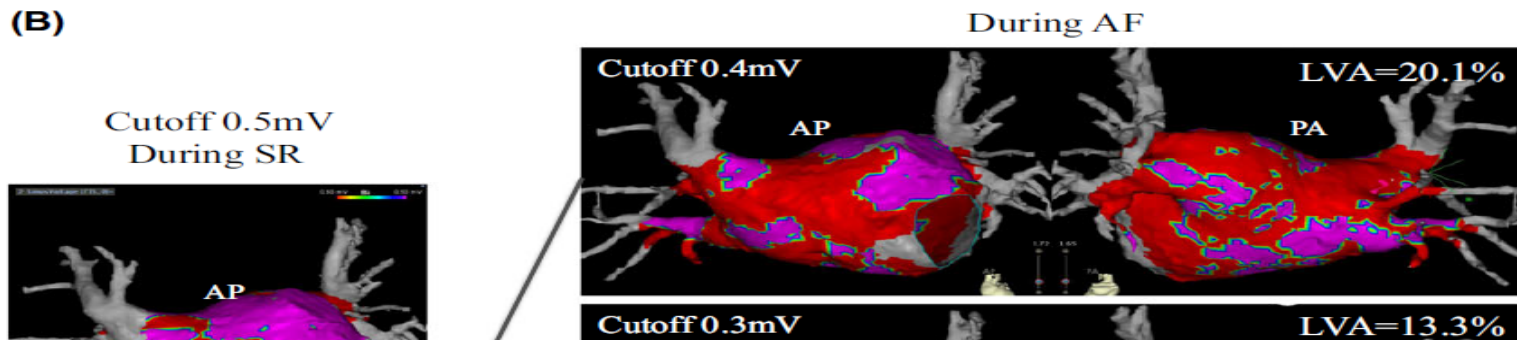


RESULTS A total of 2,002 paired-points were obtained. A cutoff of 0.35 mV in AFL predicted a sinus voltage of 0.5 mV (95% confidence interval [CI]: 0.12 to 2.02) and of 0.24 mV in AF (95% CI: 0.11 to 2.18; specificity [SP]: 0.94 and 0.96; sensitivity [SE]: 0.85 and 0.75, respectively). When generalized additive models were used, a cutoff of 0.38 mV was used for AFL for predicting a minimum value of 0.5 mV in SR (95% CI: 0.5 to 1.6; SP: 0.94, SE: 0.88) and of 0.31 mV for AF (95% CI: 0.5 to 1.2; SP: 0.95, SE: 0.82). With regard to AF maps, there was no change in the classification of any left atrial region other than the roof.

Optimal cutoff value of bipolar low-voltage in electroanatomic voltage mapping during atrial fibrillation rhythm

Tetsuma Kawaji MD, PhD^{1,2}  | Shun Hojo MD¹ | Akihiro Kushiya MD¹ |
Kenji Nakatsuma MD¹ | Kazuhisa Kaneda MD¹ | Masashi Kato MD¹ |
Takafumi Yokomatsu MD¹ | Shinji Miki MD¹

(B)

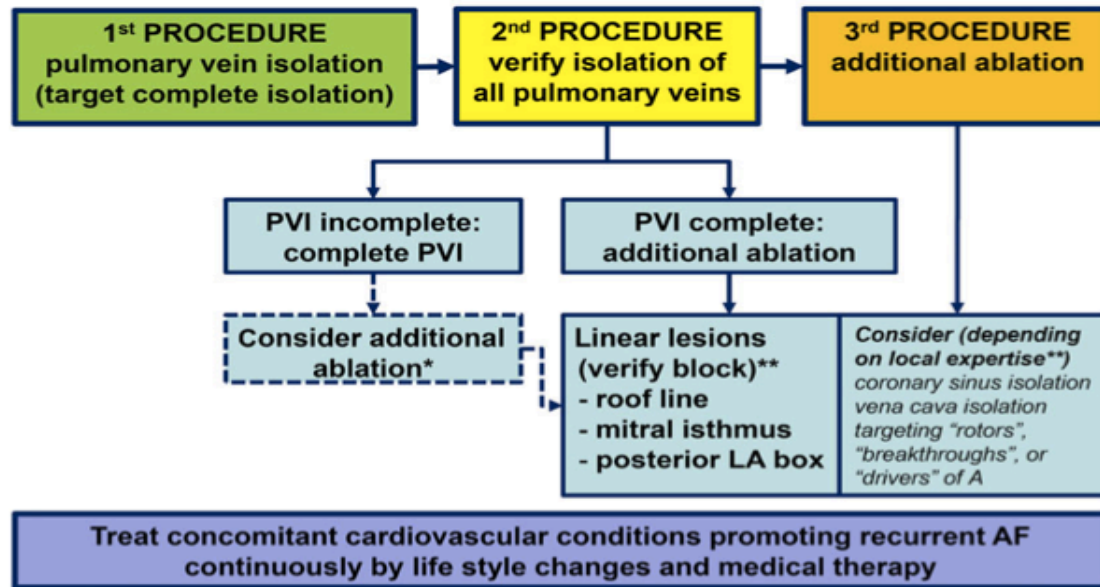


6 | CONCLUSION

EAVM during AF rhythm was feasible and there was a good correlation between LVAs during SR and AF rhythm with the optimal cutoff value of 0.2 mV. However, the evidence is restricted to patients with a relatively small LVA and we need further study to validate the feasibility of EAVM during AF rhythm in more degenerated LA with large LVA.

Persistent AF yaklaşım

Sequence of ablation targets for persistent AF



*additional linear lesions should be performed in patients with macroreentrant atrial tachycardia / flutter

** there is little data to inform the choice of linear lesions and other additional ablation targets. Local expertise to achieve the desired ablation target (e.g. choosing short lines) should determine the choice.

*** right atrial isthmus ablation should be considered if isthmus-dependent atrial flutter is documented



TEŞEKKÜRLER...