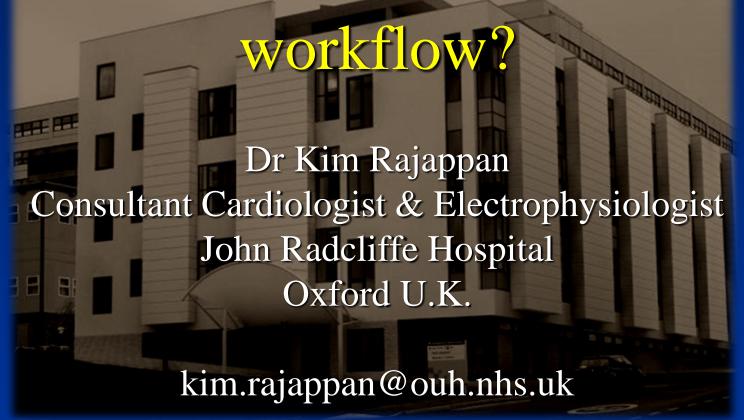
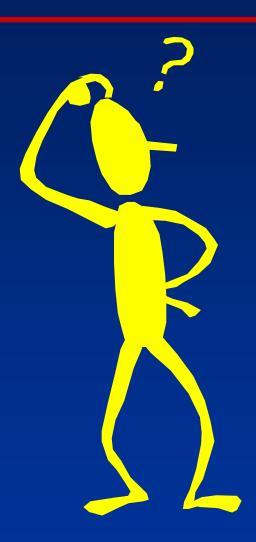


How EnSite Precision enhances my



Disclosures: speakers fees for SJM, BSC, Biosense, Hansen Medical, Medtronic

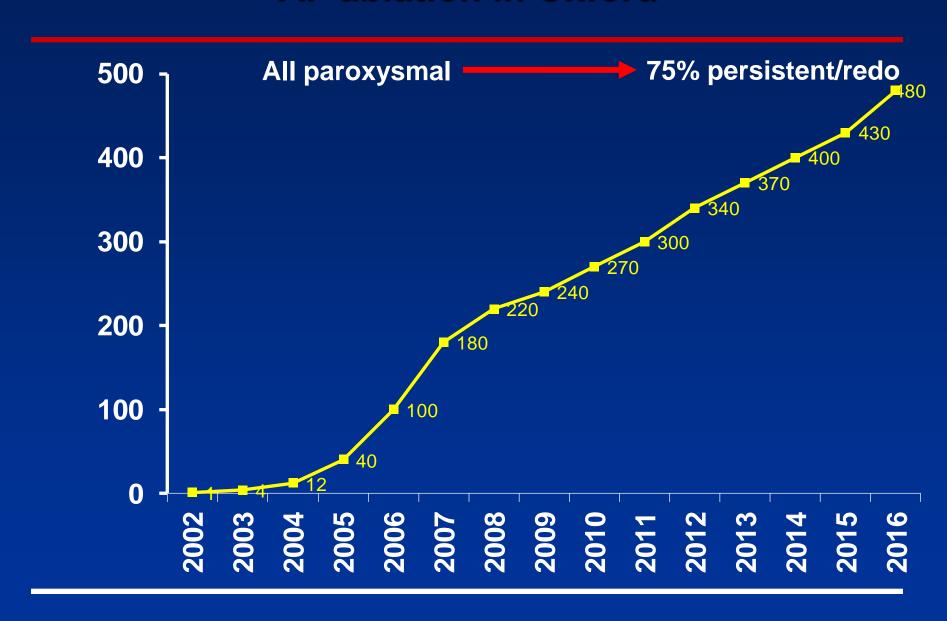
What are the challenges we face?



What are the challenges we face?

- Image integration/radiation
- Contact force/lesion assessment
- Mapping

AF ablation in Oxford



- 58 year old ♂
- Recurrent persistent AF
- EHRA class 2-3
- Tried flecainide and amiodarone
- Relatively normal heart

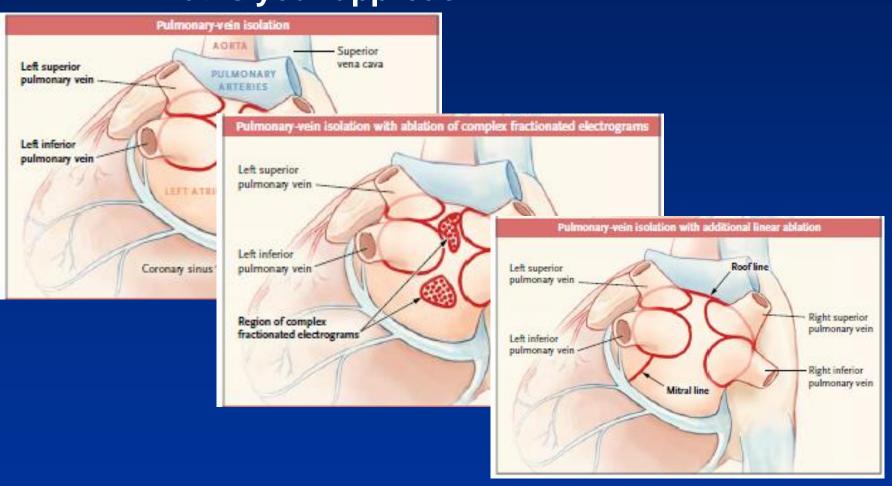
- What is your approach?
- PVI
- PVI + lines
- PVI + CFAEs
- PVI + lines + CFAEs
- Other

• What is your approach?

Approaches to Catheter Ablation for Persistent Atrial Fibrillation

Atul Verma, M.D., Chen-yang Jiang, M.D., Timothy R. Betts, M.D., M.B., Ch.B., Jian Chen, M.D., Isabel Deisenhofer, M.D., Roberto Mantovan, M.D., Ph.D., Laurent Macle, M.D., Carlos A. Morillo, M.D., Wilhelm Haverkamp, M.D., Ph.D., Rukshen Weerasooriya, M.D., Jean-Paul Albenque, M.D., Stefano Nardi, M.D., Endrj Menardi, M.D., Paul Novak, M.D., and Prashanthan Sanders, M.B., B.S., Ph.D., for the STAR AF II Investigators*

• What is your approach?



Set up

- Impedance field flexibility + magnetic field stability
- Enhance navigation and model creation with dual technology



- Narrow head on cath lab table can be an issue
- may need patient lower on the bed
- Get the 'dots' right at the start

Set up

- Improved adhesive hydrogel patches¹
- Improves ECG patch placement options
- Accommodate patients of all sizes





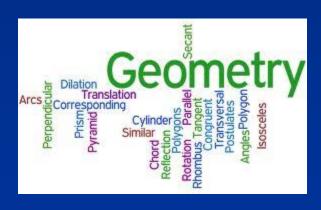
Relative sizes

Into the procedure....

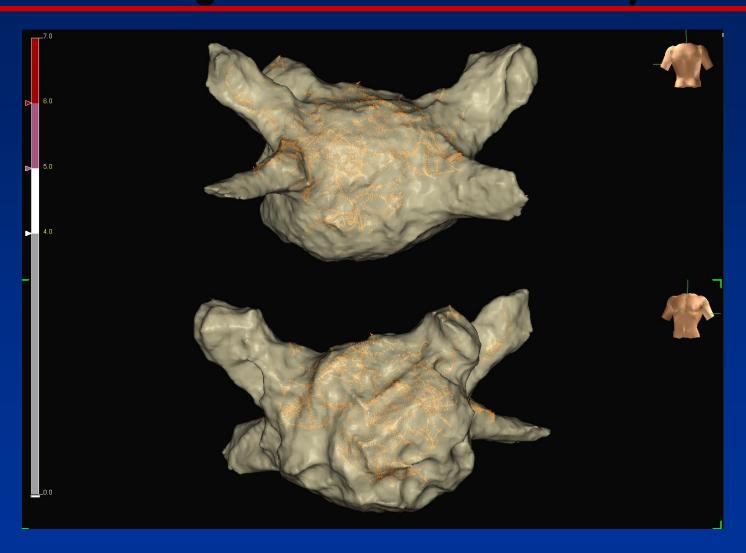
- No added time so far
- Catheters in nice to be able too get a lot of the 'validating' etc. done during this time
- System reference now used for all cases
- Consider catheter choice Oxford approach
- Get on with the geometry.....

No need for CT/MRI

- Rapid geometry acquisition
- Little or no false space
- LAA-LPV ridge much better defined
- Do not get too hung up on magnetics



5 minutes with the Advisor SE (& can get voltage data at the same time)



Why do we want to know Contact Force?



Safely create durable transmural lesions

Lesion Size Index (LSI)

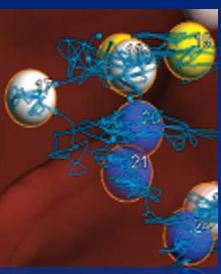
The TactiCath Quartz comes with unique FTI (Force Time Integral) and LSI (Lesion Index) designed as indicators of lesion quality



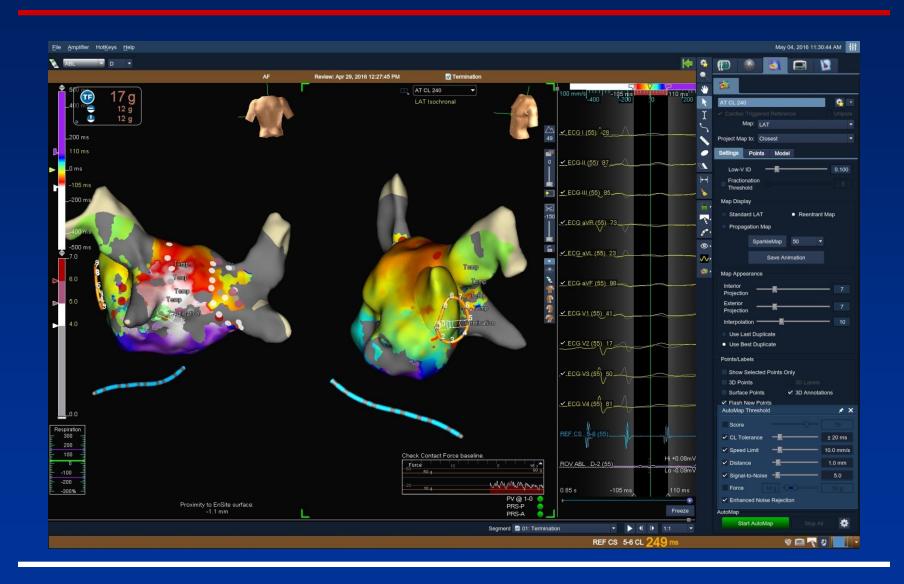
Let's start burning

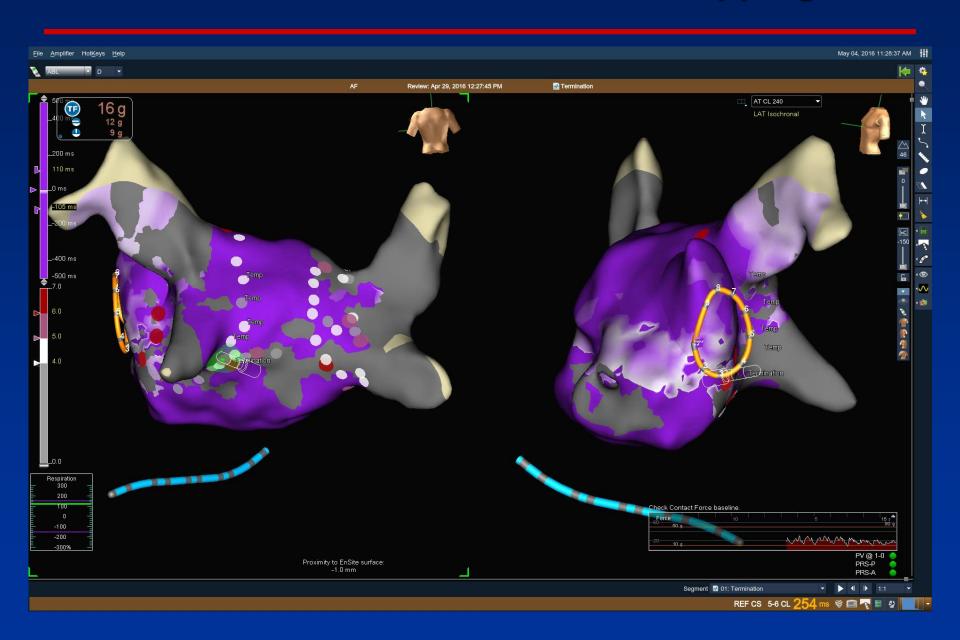
Automated lesion marking guidance with the AutoMark module



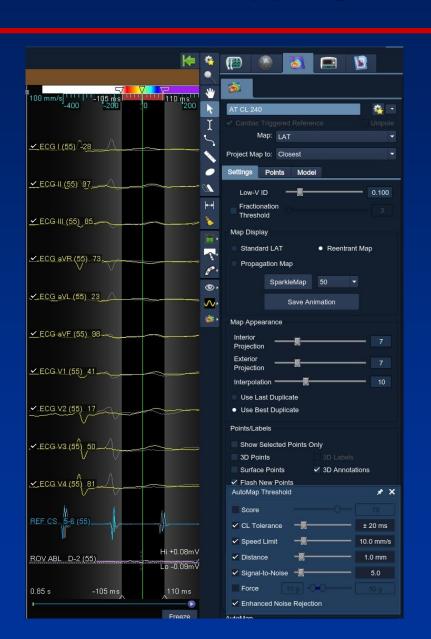


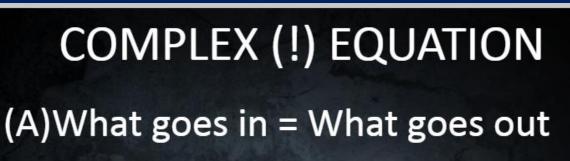






- CS 5,6 used as reference trigger (Max)
- Reference line moved to P wave onset
- Tach CL 250msec
- Window pre-P 105msec, post- P 110msec
- Reentrant map
- Diastolic signals will be
 - White/Red
 - Purple
- P wave onset will be yellow
- LVID set to 0.1mV

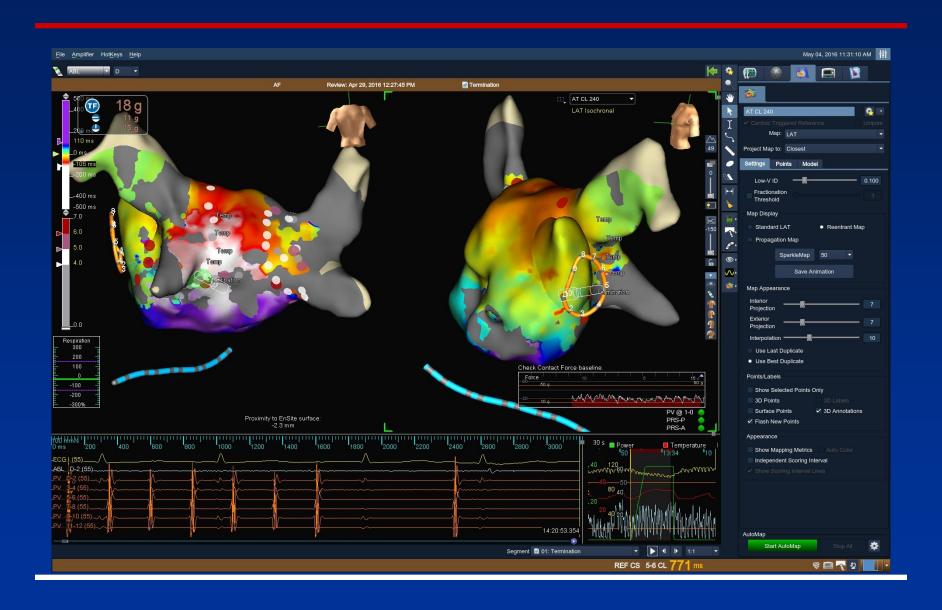


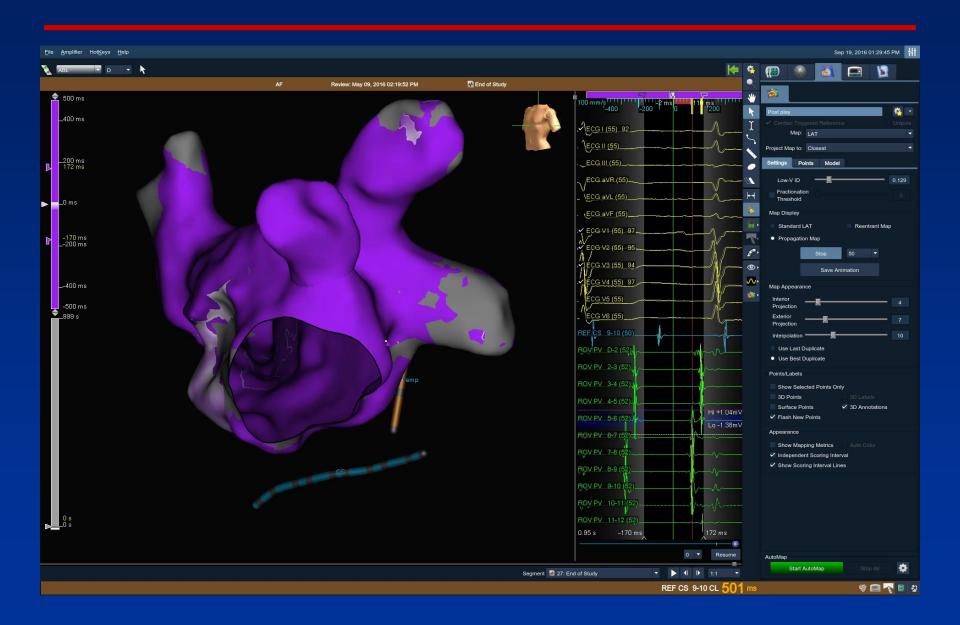


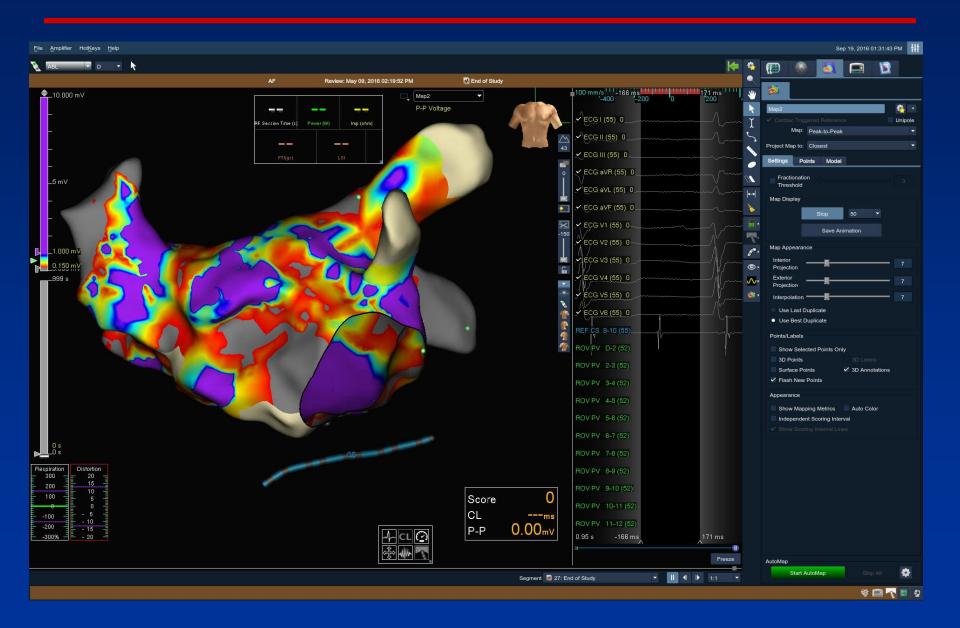
(B)Junk In = Junk Out

(C)Good stuff In = Good stuff Out



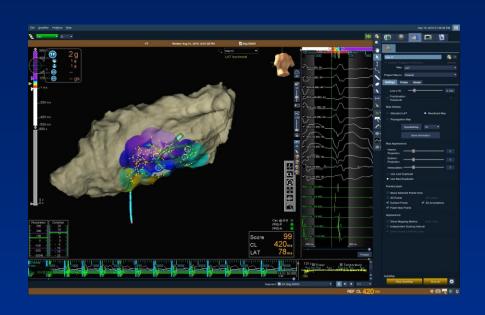


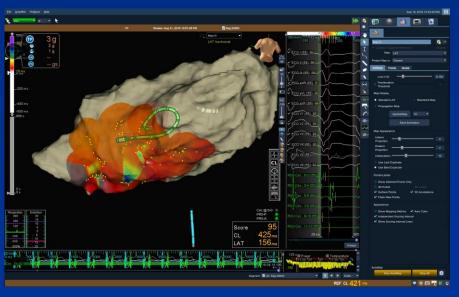




- Will not always be perfect first time
- Worth spending a few minutes setting up correctly
- What are you most interested in? e.g. voltage – may 'turn off' CL/reduce score
- Now you have turbomap.....

I want to map again but with different reference/timing window....

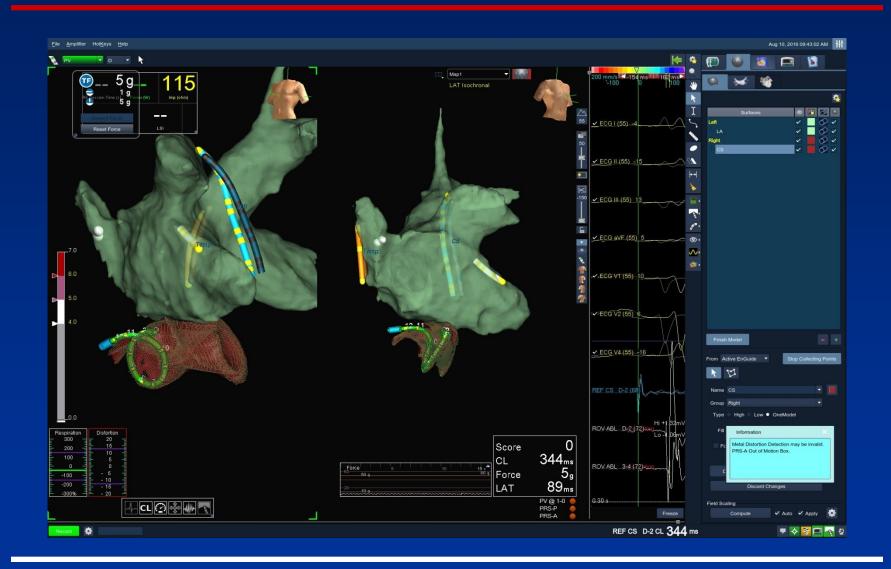




After our experience....

- Rapidly able to acquire maps with lots of information
- In some cases ability to adjust timing windows and 're-map' without acquiring new points has been helpful
- Detailed maps with lots of points enables identification of scar/channels
- Still a role for conventional EP....

Trust the map!



Trust the map!

