

## TYPICAL ATRIAL FLUTTER

### OVERVIEW OF TYPICAL ATRIAL FLUTTER (AFL)

- *Demographics & presentations*
- *Arrhythmia Circuit*
- *ECG characteristics*
- *Consequences & Management of typical AFL*

### TYPICAL AFL IN THE EP LAB I

- *Catheter selection*
- *Clockwise AFL activation pattern*
- *Counter clockwise AFL activation pattern*
- *Trans-isthmus conduction time*
- *HALO activation pattern during atrial pacing*

### TYPICAL AFL IN THE EP LAB II - ENTRAINMENT

- *Why entrain?*
- *Concept of entrainment*
- *Post pacing intervals*
- *Inducing AFL*

### ABLATION OF TYPICAL AFL

- *Goal of CTI ablation for typical AFL*
- *Catheter selection*
- *Safety considerations & anatomical challenges*
- *Ablation signals*
- *End points of ablation*

### TYPICAL AFL IN 3D

- *Why map in 3D?*
- *Making sense of Re-entrant LAT maps*
- *Understanding reference & Window of Interest*
- *Working views in 3D*
- *The role of the Contact Force*
- *Tracking ablation*
- *Mapping gaps in the ablation line*

### QUIZ: TYPICAL ATRIAL FLUTTER

## ATYPICAL ATRIAL FLUTTER

### RIGHT ATRIAL ATYPICAL FLUTTERS

- *Entrainment Vs LAT mapping*
- *Ariotomy incisional-related flutter*
- *Lower Loop Re-entry Flutter*
- *Upper Loop Re-entry Flutter*
- *LA Flutter activation pattern*

### MITRAL ISTHMUS FLUTTER I

- *Defining the circuit of Mitral Isthmus dependent flutter*
- *Entrainment sites for Mitral Isthmus Flutter*
- *Mitral Isthmus anatomy (I)*
- *Epicardial Bridging across the Mitral Isthmus*
- *Strategies employed to achieve Mitral Isthmus Block*
- *Risks of Posterolateral Mitral Isthmus Ablation*
- *Testing for bidirectional block across the Mitral isthmus*

### MITRAL ISTHMUS FLUTTER 2

- *Risks of Mitral isthmus flutter ablation*
- *Pulsed Field Ablation for Mitral Isthmus flutter*
- *Mitral Isthmus Anatomy (II)*
- *Epicardial Structures relevant to performing Anterior Mitral Isthmus Ablation*
- *Testing for block across anterior Mitral Isthmus Ablation Lines*

### OTHER LEFT ATRIAL FLUTTERS

- *LA Anteroseptal Flutter*
- *Roof dependent LA Flutter*
- *Dual Loop Flutter*
- *Gap related Flutter*
- *Bi-atrial Flutter*

### ATYPICAL FLUTTERS UTILISING EPICARDIAL STRUCTURES

- *Understanding endo-epicardial fiber dissociation*
- *Intramural tissue characteristics*
- *Flutters involving Ligament of Marshall*
- *Flutters involving the septopulmonary bundle*
- *Flutters involving Bachman's Bundle*

### QUIZ: ATYPICAL ATRIAL FLUTTERS