# The three-dimensional substrate of atrial fibrillation in the goat : a simultaneous endo-epicardial mapping study

1. Progressive dissociation of the electrical activity between the epicardial layer and the endocardial bundle network contributes to the increasing stability of atrial fibrillation (AF) over time.

2. Endo-epicardial dispersion of the atrial effective refractory period declines during the development of AF and therefore does not contribute to the stabilization of AF.

3. Increasing uncoupling between the epicardial layer and the endocardial bundle network is the main mechanism underlying endo-epicardial dissociation.

4. The increasing incidence of breakthrough in a complex substrate of AF is more likely to result from increased endo-epicardial dissociation and transmural activation than from ectopic focal discharges.

5. Direct contact mapping could become a useful clinical tool to guide ablation therapy or identify patients that do not benefit from ablation therapy.

6. Treatment of AF in patients violates the basic principle of “Primum non nocere” occasionally.

7. Prevention of fibrosis won’t prevent AF.

8. Rhythm matters – in music more than in cardiology.

9. The number of experts in the field shows a strong positive correlation with the popularity of the subject and a negative correlation with the quantity of relevant scientific contribution per expert.

10. Family first.