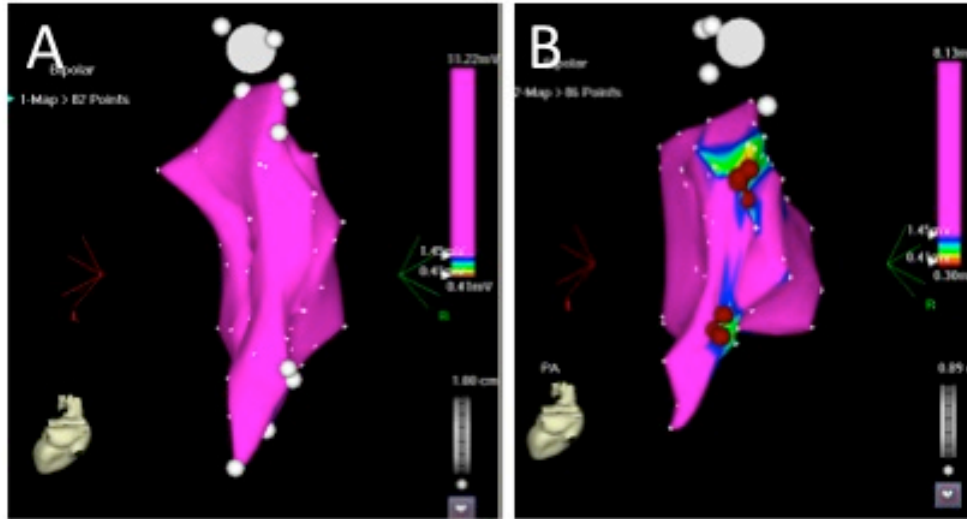
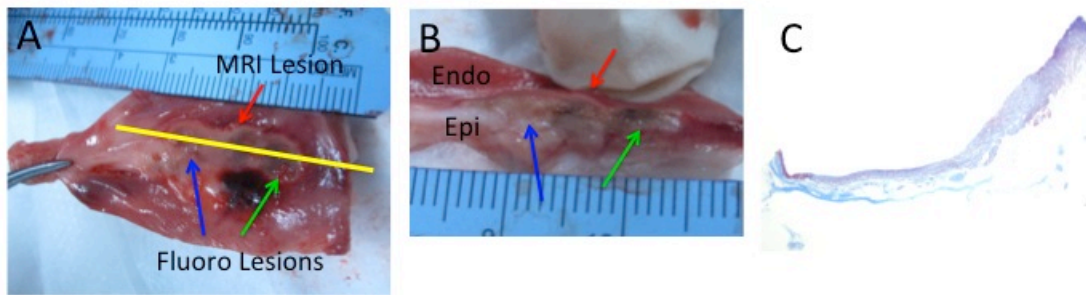


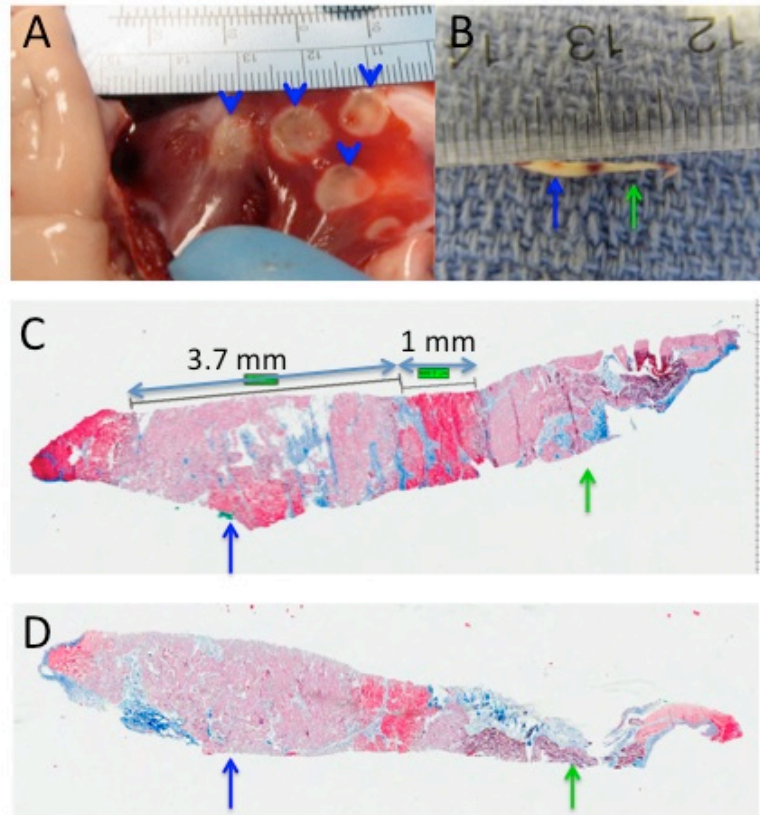
**SUPPLEMENTAL MATERIAL**



CARTO voltage map made before and after creating lesions in the posterior wall of the right atrium. Panel A is a baseline bipolar voltage map of the right atrium showing no areas of low voltage. A PA view of the right atrium is shown. Panel B is a voltage map made after two discrete ablation lesions. The ablated area is marked by red dots. The voltage map confirms areas of low voltage around the ablation lesions. The bi-polar voltage color scale is shown on the top right hand corner of panels A and B.



Gross pathology and histology of right atrial tissue showing ablation lesions after the gap area was ablated in the MR scanner. Panel A is gross tissue specimen showing the two lesions made in the EP lab using fluoroscopy (blue and green arrows) and the gap area ablated in the MR scanner (red arrow). The yellow line in panel A is the plane of cut section shown in panel B. Panel B is a cut section through the ablation lesions showing the transmuralty of the lesions. Endo and epi mark the endocardial and the epicardial surfaces of the tissue specimen. Panel C is a Masson's Tichrome stained tissue specimen from panel B showing the lack of any red stained areas in the middle of the section confirming the transmuralty of the ablation lesions.



Gross pathology and histology of atrial tissue showing ablation lesions with gaps of varying lengths. Panel A shows ablation lesions (marked by arrowheads) made in the right atrium spaced 1 to 4 mm apart. Panel B is a gross tissue section with two ablation lesions and a gap of 1 mm from another animal. Panel C is tissue shown in panel B stained with Masson's Trichrome confirming the ablation lesion and the 1 mm gap in between. Panel D is another section from the same block as in C confirming the transmuralty of the left sided lesion.