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## Supplementary information

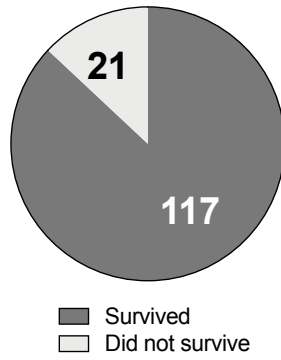
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# Open thoracic surgical implantation of cardiac pacemakers in rats

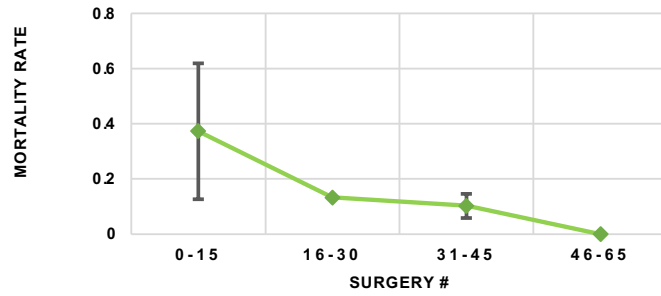
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In the format provided by the  
authors and unedited

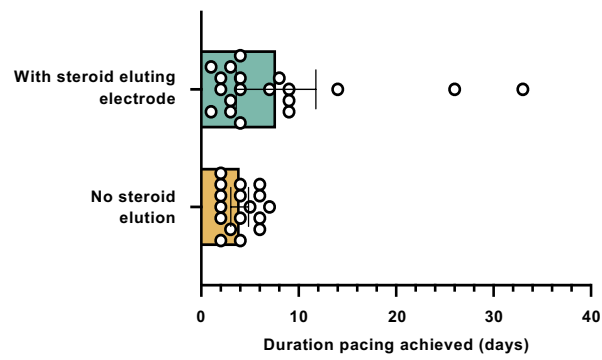
a  
Mortality rate of surgeries performed  
2017-2020



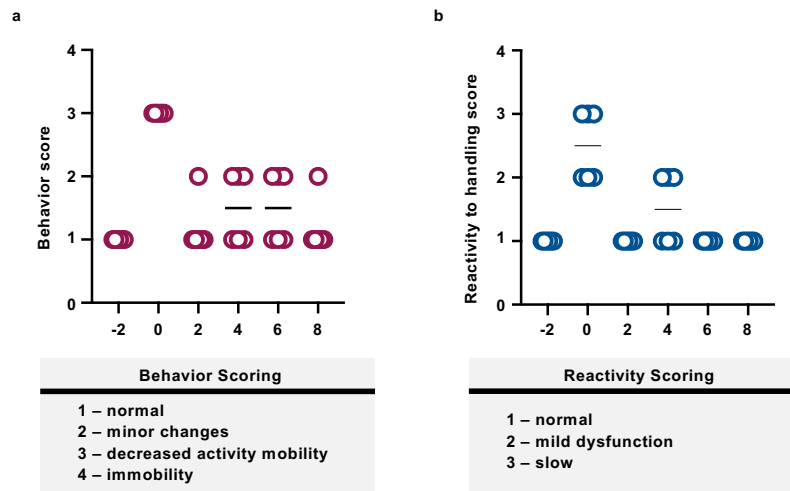
b  
Mortality Rate Relating To Surgeon Experience



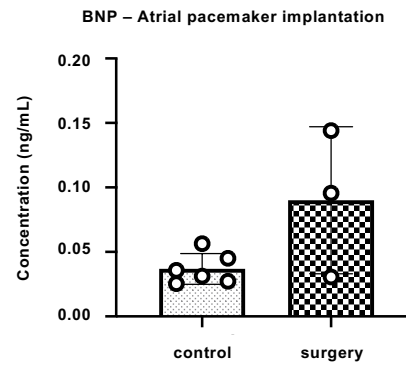
**Supplementary Figure 1: Mortality rate of pacemaker implantation surgery.**



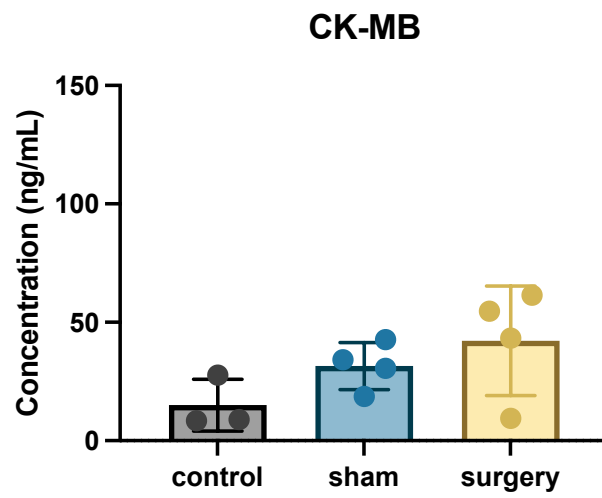
**Supplementary Figure 2:** Summary of functional lifetime of pacemakers implanted in rats.



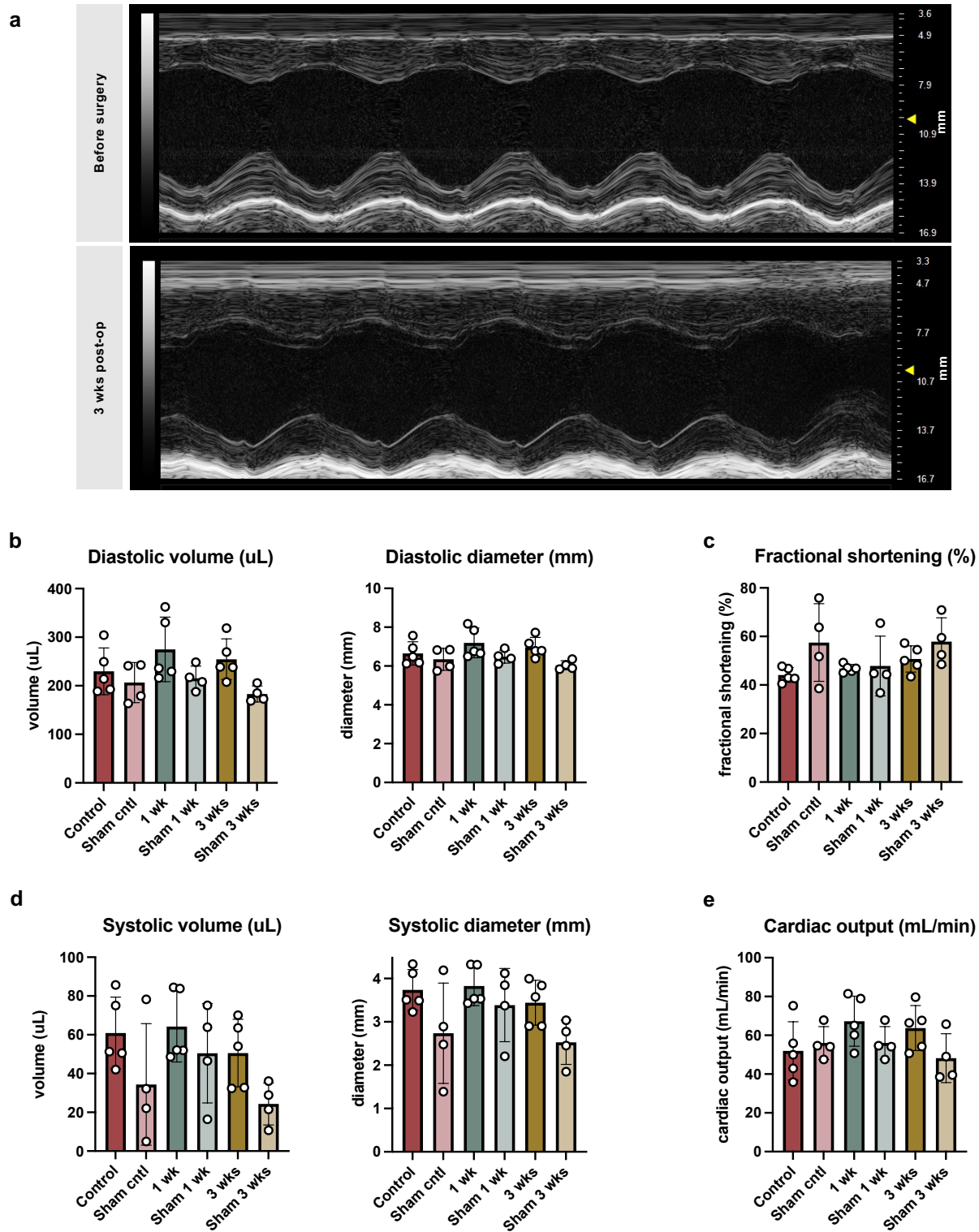
**Supplementary Figure 3:** Systemic effects following surgery.



**Supplementary Figure 4:** Brain natriuretic peptide (BNP) 45 biomarker levels for right atrial pacemaker implantation.



**Supplementary Figure 5:** Creatine kinase-MB (CK-MB) biomarker levels for ventricular implantation.



**Supplementary Figure 6:** Echocardiographic assessment of animals following pacemaker implantation.