EDG-7500, A CARDIAC SARCOMERE REGULATOR THAT PRESERVES INTRINSIC MYOSIN-MOTOR FUNCTION, IMPROVES CARDIAC FUNCTION AND RESERVE IN A MINIPIG MODEL OF HCM

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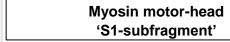
This presentation concerns product candidates that are under clinical investigation, and which have not yet been approved for marketing by the U.S. Food and Drug Administration (FDA). It is currently limited by federal law to investigational use, and no representation is made as to its safety or effectiveness for the purposes for which it is being investigated.

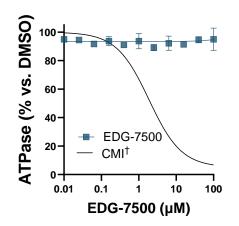
#### EDG-7500 is an investigational agent and is not approved in any territory



# EDG-7500 PRESERVES MYOSIN MOTORS AND PARTIALLY REDUCES ATP USE

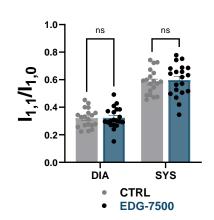






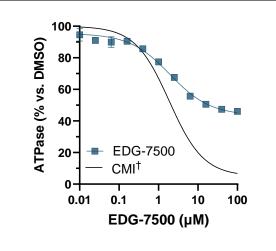
Does not directly inhibit myosin motor activity

X-ray patterns showing ON/OFF populations at low and high calcium



Myosin 'ON/OFF' populations unchanged

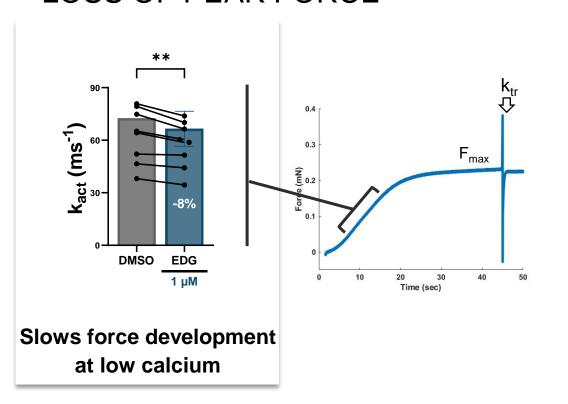
Myofibrils containing the full compliment of contractile proteins

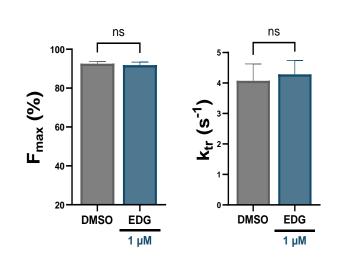


Partial reduction of ATP use



# EDG-7500 SLOWS FORCE DEVELOPMENT WITHOUT LOSS OF PEAK FORCE

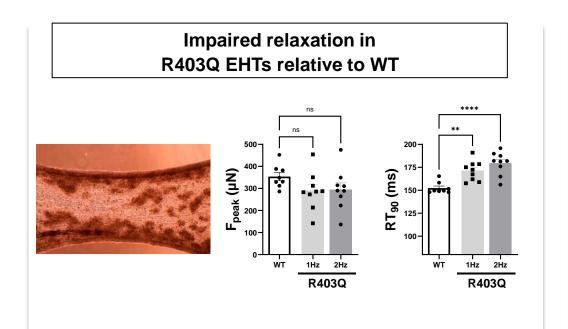


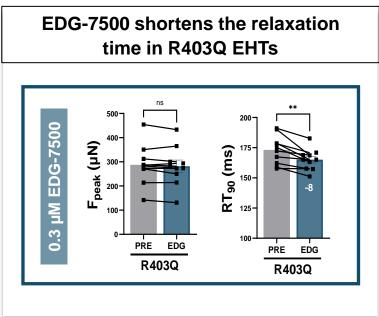


Max force and re-attachment rate (k<sub>tr</sub>) of Xbridges maintained

# EDG-7500 INCREASES THE RATE OF RELAXATION IN MYH7 R403Q ENGINEERED HEART TISSUE (EHT)





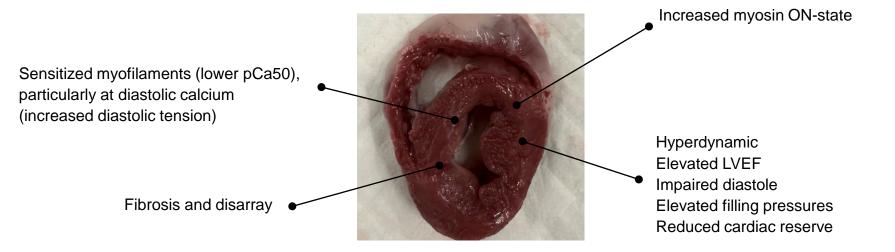


## CAN THE EDG-7500 MECHANISM ALTER THE DISEASE PHENOTYPE IN A MODEL OF HCM?



MYH7 R403Q genetic model of nHCM<sup>‡</sup>





# R403Q

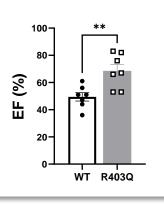
# +EDG-7500

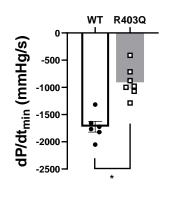
### MYH7 R403Q MINIPIG MODEL OF nHCM ‡

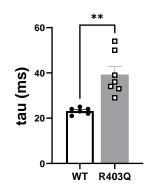


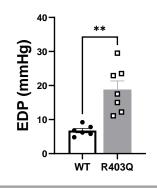
Hyperdynamic, impaired relaxation, and elevated filling pressures

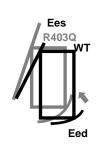


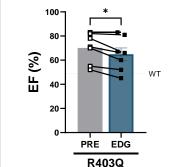


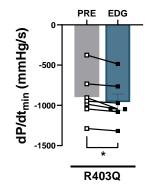


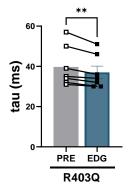


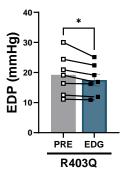


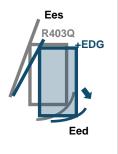












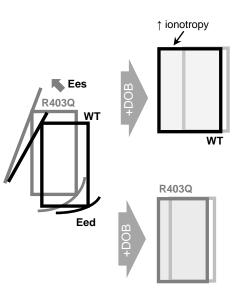
### RESTORATION OF CARDIAC RESERVE WITH

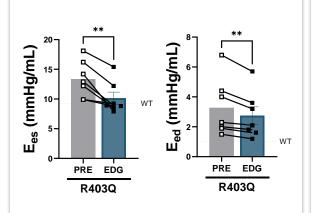


EDG-7500 IN A MODEL OF HCM

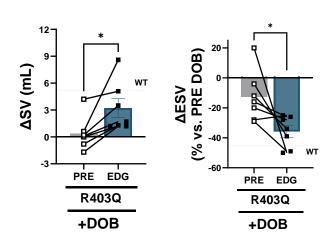
MYH7 R403Q genetic model of nHCM







EDG-7500 moves elastance toward normal



EDG-7500 increases cardiac reserve w/dobutamine





#### **SUMMARY**

- 1. In vitro studies show EDG-7500 slows force development and maintains maximal force.
- In minipings with the HCM-pathogenic MYH7 R403Q mutation, EDG-7500 improved both diastolic function and cardiac reserve in response to β-AR stimulation.
- 3. EDG-7500 is currently in a phase 1 study (NCT06011317) to evaluate safety, tolerability, and PK.











### THANK YOU





**#AHA23**