

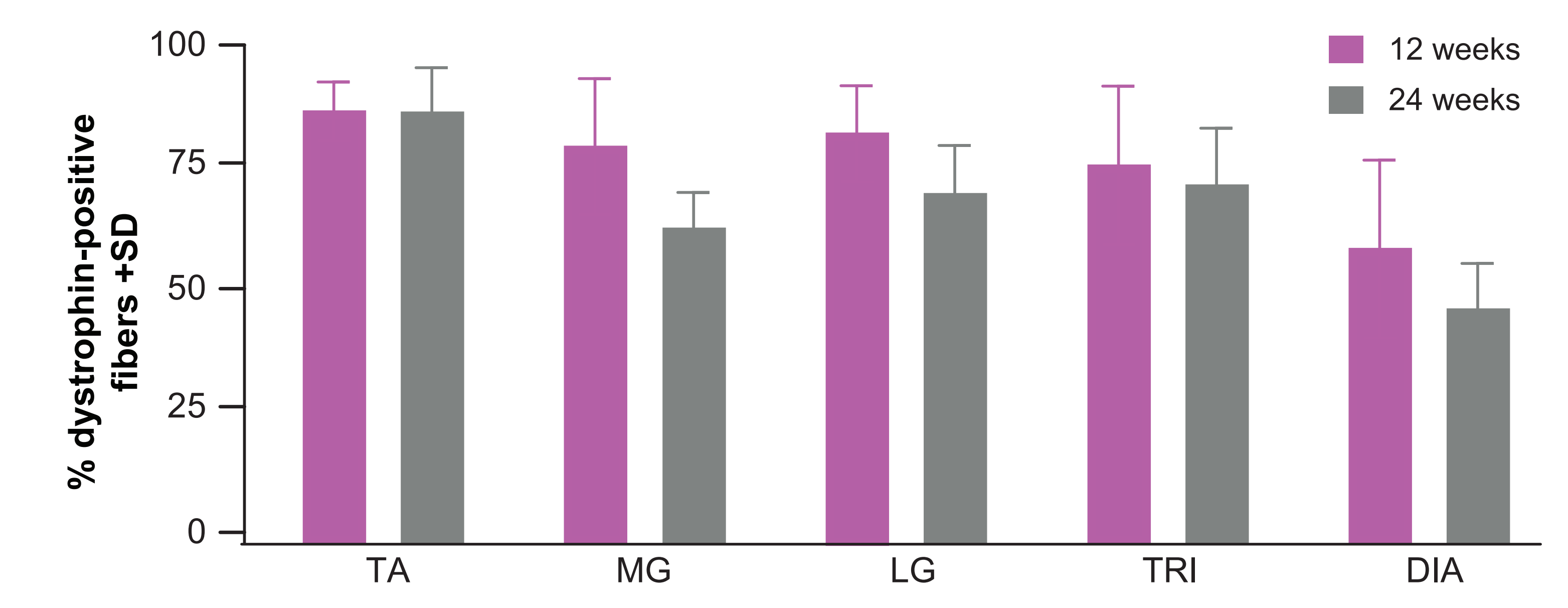
Evaluating pharmacology and efficacy of delandistrogene moxeparvovec in DMD^{mdx} rats

RA Potter,¹ C Wier,^{1*} G Cooper-Olson,¹ E Wheeler,¹ ET Anderberg,¹ A Kempton,¹ L Clements,¹ K Adegboye,¹ A Haile,¹ E Peterson,¹ LR Rodino-Klapac¹

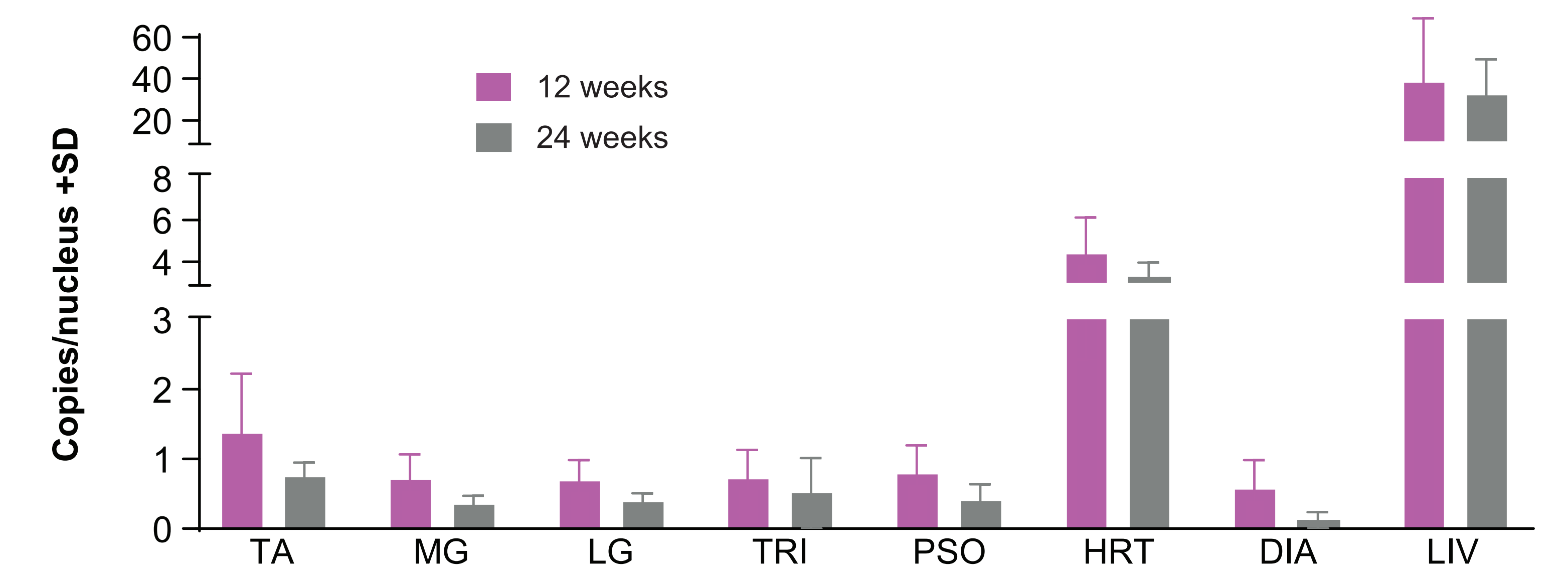
¹Sarepta Therapeutics, Inc., Cambridge, MA, USA
*Presenter

SUPPLEMENTARY MATERIALS

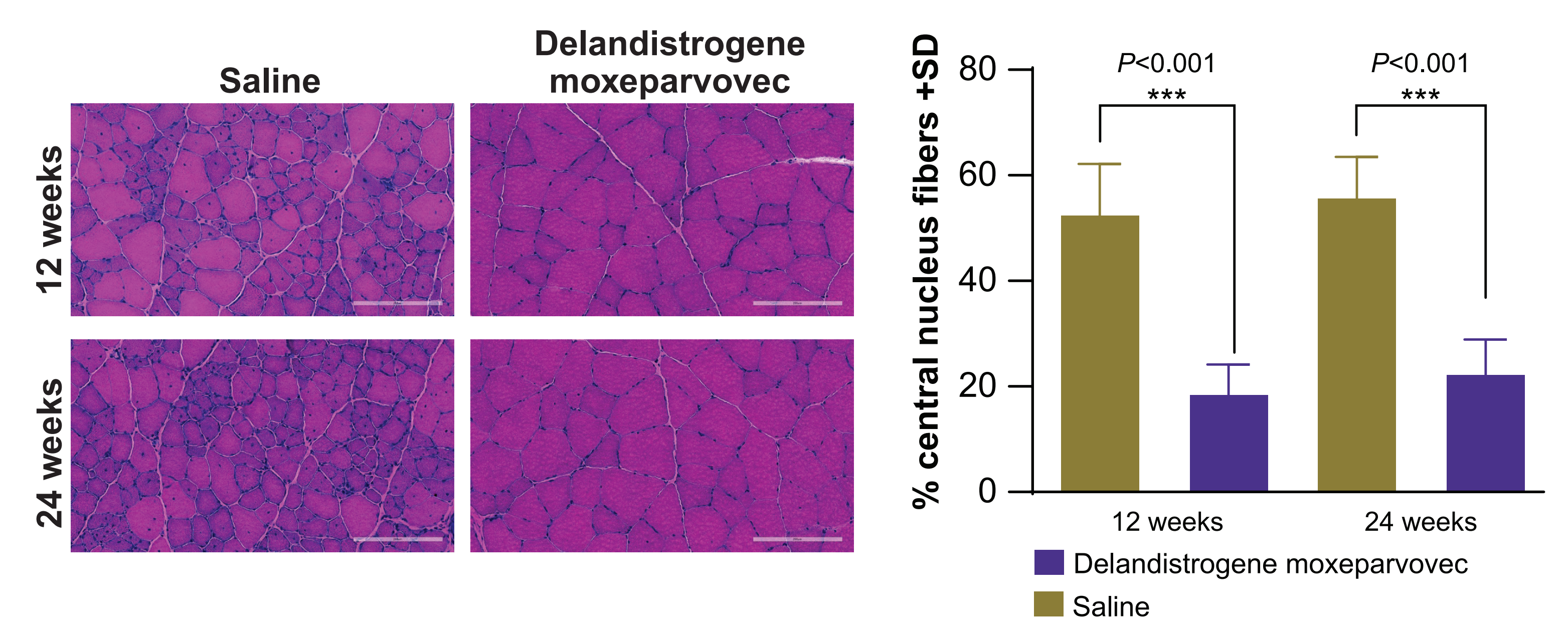
Quantification of SRP-9001 dystrophin-positive fibers showed no significant differences within the same tissue types between 12 and 24 weeks following treatment with delandistrogene moxeparvovec



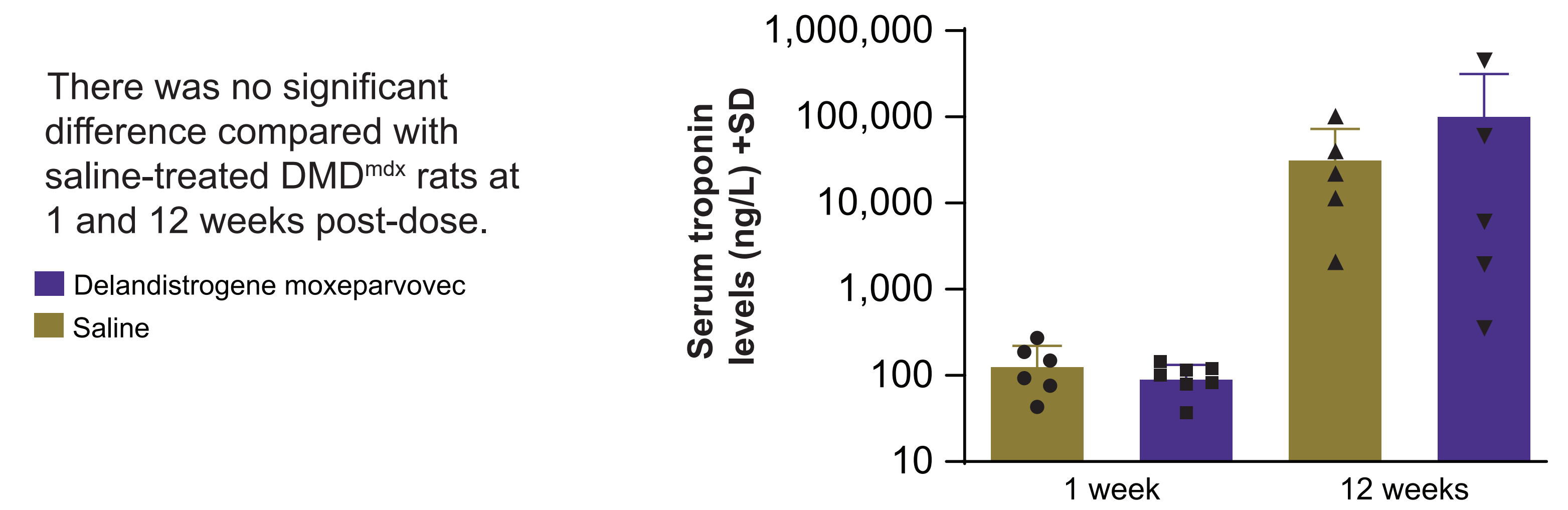
The SRP-9001 dystrophin transgene was broadly distributed across skeletal muscle, the diaphragm, and the heart in DMD^{mdx} rats (ddPCR)



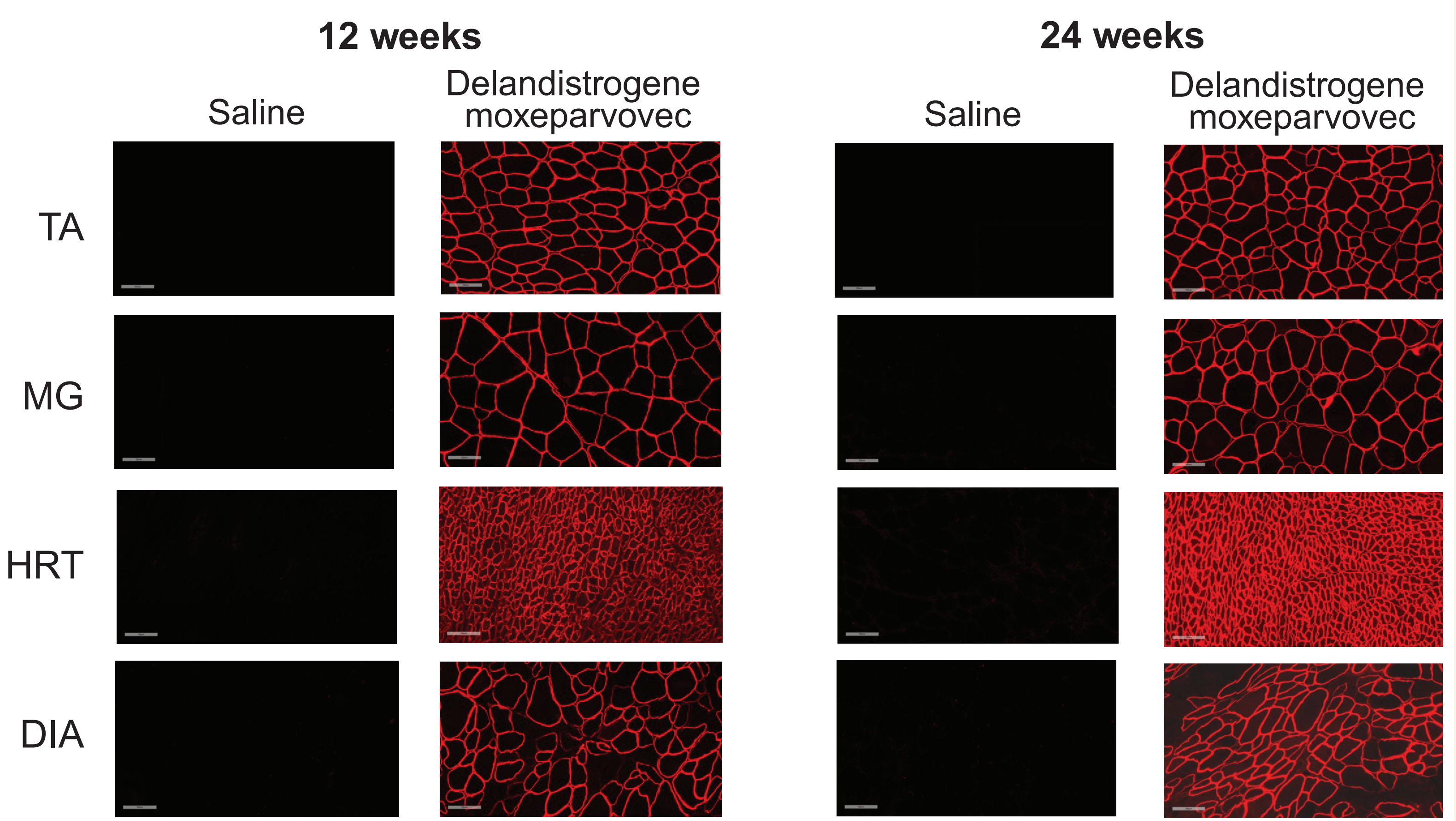
H&E demonstrated improved muscle histology (decreased central nucleation) in the gastrocnemius following treatment with delandistrogene moxeparvovec



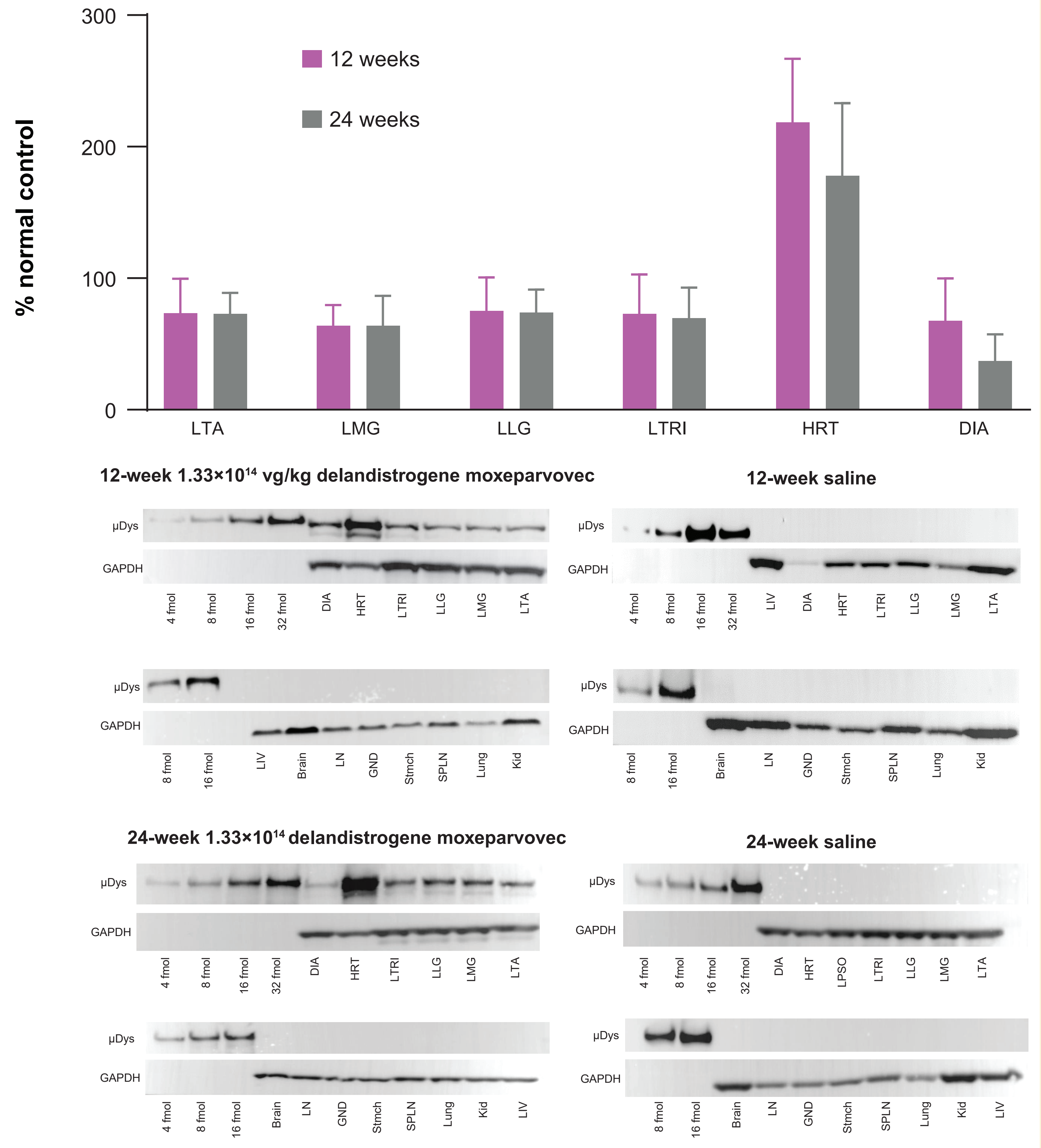
Troponin I levels in blood did not change significantly after SRP-9001 dystrophin expression



IF demonstrated SRP-9001 dystrophin localization in muscle at 12 and 24 weeks following treatment with delandistrogene moxeparvovec



Western blot quantification of SRP-9001 dystrophin protein expression in DMD^{mdx} rats



ABBREVIATIONS

μDys, microdystrophin; ddPCR, droplet digital polymerase chain reaction; DIA, diaphragm; DMD, Duchenne muscular dystrophy; GAPDH, glyceraldehyde-3-phosphate dehydrogenase; GND, gonad; H&E, hematoxylin and eosin; HRT, heart; IF, immunofluorescence; Kid, kidney; LG, left gastrocnemius; LIV, liver; LLG, left lateral gastrocnemius; LMG, left medial gastrocnemius; LN, lymph node; LPSO, left psoas; LTA, left tibialis anterior; LTRI, left triceps; mdx, muscular dystrophy X-linked; MG, medial gastrocnemius; PSO, psoas; SD, standard deviation; SPLN, spleen; Stmch, stomach; TA, tibialis anterior; TRI, triceps.

ACKNOWLEDGMENTS AND DISCLOSURES

This research is funded by Sarepta Therapeutics, Inc., Cambridge, MA, USA. Writing and editorial assistance was provided by Jen Ciarochi, PhD, of Nucleus Global in accordance with Good Publication Practice (GPP) 2022 guidelines (<https://www.ismpp.org/gpp-2022>) and funded by Sarepta Therapeutics, Inc.

CW, RAP, GCO, EW, ETA, AK, LC, KA, AH, EP and LRRK are employees of Sarepta Therapeutics and may have stock options. LRRK has received grant support from Sarepta Therapeutics and the Parent Project Muscular Dystrophy, as well as financial consideration from Sarepta Therapeutics and Myonexus Therapeutics (now acquired by Sarepta Therapeutics). In addition, she is a co-inventor of AAVrh74.MHCK7.micro-dys technology.

This research used DMD^{mdx} rats, which were generated and characterized in the following publication: Larcher T, et al. Characterization of dystrophin deficient rats: a new model for Duchenne muscular dystrophy. *PLoS One*. 2014; 9:e110371. These data are an encore of data first presented by RA Potter at the 27th International Annual Congress of the World Muscle Society (WMS) 2022.