

Publications from the Last 10 Years  
Stemming from VA Research with Dogs

Request from NASEM committee studying VA research with dogs, submitted to VA on 2/4/19:  
*Could we get a list of all relevant publications stemming from VA research on dogs for the last 10 years?*

The following citations were provided to the NASEM committee on 2/22/19. They are all peer-reviewed full-length reports of research with dogs that indicated author affiliation with a VA facility, support by VA funding, and/or other use of VA resources. The list includes all those identified that were published within the past decade, as well as a few from 2008 for good measure. These publications were identified through standard on-line searches, and from lists provided by some investigators, so we believe that the list includes most of the relevant publications, but there may be others that we have inadvertently omitted.

1. Barwinska D, Garner J, Davidson DD, Cook TG, Eckert GJ, Tholpady SS, et al. Mucosal Perfusion Preservation by a Novel Shapeable Tissue Expander for Oral Reconstruction. *Plast Reconstr Surg Glob Open*. 2017;5(8):e1449.
2. Bowling J, Davidson DD, Tholpady SS, Park K, Eckert GJ, Katona T, et al. Baseline Biomechanical Properties of Epithelia prior to Tissue Expansion in Dogs. *Plast Reconstr Surg Glob Open*. 2018;6(5):e1773; doi: 10.1097/GOX.0000000000001773.
3. Bresler L, Walter JS, Jahoda A, Wheeler JS, Turk T, Wurster RD. Effective methods of pelvic plexus nerve and bladder stimulation in anesthetized animal model. *J Rehabil Res Dev*. 2008;45(4):627-38.
4. Garner J, Davidson DD, Barwinska D, Eckert GJ, Tholpady SS, Park K, et al. Reshapeable hydrogel tissue expander for ridge augmentation: Results of a series of successive insertions at the same intraoral site. *J Periodontol*. Jan 11, 2019. <https://doi.org/10.1002/JPER.18-0629>.
5. Gronkiewicz KM, Giuliano EA, Sharma A, Mohan RR. Molecular mechanisms of suberoylanilide hydroxamic acid in the inhibition of TGF-beta1-mediated canine corneal fibrosis. *Vet Ophthalmol*. 2016;19(6):480-7.
6. Gronkiewicz KM, Giuliano EA, Kuroki K, Bunyak F, Sharma A, Teixeira LB, et al. Development of a novel in vivo corneal fibrosis model in the dog. *Exp Eye Res*. 2016;143:75-88.
7. Gronkiewicz KM, Giuliano EA, Sharma A, Mohan RR. Effects of topical hyaluronic acid on corneal wound healing in dogs: a pilot study. *Vet Ophthalmol*. 2017;20(2):123-30.
8. Huang S, Patterson E, Yu X, Garrett MW, De Aos I, Kem DC. Proteasome inhibition 1 h following ischemia protects GRK2 and prevents malignant ventricular tachyarrhythmias and SCD in a model of myocardial infarction. *Am J Physiol Heart Circ Physiol*. 2008;294(3):H1298-303; doi:10.1152/ajpheart.00765.2007.
9. Huizar JF, Kaszala K, Potfay J, Minisi AJ, Lesnefsky EJ, Abbate A, et al. Left ventricular systolic dysfunction induced by ventricular ectopy: a novel model for premature ventricular contraction-induced cardiomyopathy. *Circ Arrhythm Electrophysiol*. 2011;4(4):543-9.
10. Jiang M, Zhang M, Howren M, Wang Y, Tan A, Balijepalli RC, et al. JPH-2 interacts with Cai-handling proteins and ion channels in dyads: Contribution to premature ventricular contraction-induced cardiomyopathy. *Heart Rhythm*. 2016;13(3):743-52.
11. Jin H, Liu J, Foreman RD, Chen JD, Yin J. Electrical neuromodulation at acupoint ST36 normalizes impaired colonic motility induced by rectal distension in dogs. *Am J Physiol Gastrointest Liver Physiol*. 2015;309(5):G368-76 ; doi:10.1152/ajpgi.00467.2014.

12. Kowalski KE, Romaniuk JR, Kowalski T and DiMarco AF. Effects of Expiratory Muscle Activation via High Frequency Spinal Cord Stimulation. *Journal Applied Physiology* 2017 Sep 21:jap.00402.2017. doi: 10.1152/jap.00402.2017. PMID:28935824
13. Kowalski KE, Romaniuk JR, Brose S, Richmond MA, Kowalski T, DiMarco AF. High Frequency Spinal Cord Stimulation – New Method to Restore Cough. *Respir Physiol Neurobiol* 232:54-56, 2016. PMID: 27395446.
14. Lei Y, Chen JD. Effects of dual pulse gastric electrical stimulation on gastric tone and compliance in dogs. *Dig Liver Dis.* 2009;41(4):277-82.
15. Li S, Lei Y, Chen JD. Roles of ATP sensitive potassium channel in modulating gastric tone and accommodation in dogs. *Scand J Gastroenterol.* 2017;52(5):515-22; DOI: 10.1080/00365521.2017.1289238.
16. Majerus SJA, Garverick SL, Suster MA, Fletter PC, and Damaser MS. Wireless, Ultra-Low-Power Implantable Sensor for Chronic Bladder Pressure Monitoring. *ACM J Emerg Technol Comput Syst.* 2012 Jun 1; 8(2): 11. doi: 10.1145/2180878.2180883
17. Majerus SJA, Fletter PC, Ferry EK, Zhu H, Gustafson KJ, Damaser MS (2017) Suburothelial Bladder Contraction Detection with Implanted Pressure Sensor. *PLoS ONE* 12(1): e0168375. doi:10.1371/journal.pone.0168375
18. Mustapic S, Radocaj T, Sanchez A, Dogas Z, Stucke AG, Hopp FA, et al. Clinically relevant infusion rates of mu-opioid agonist remifentanyl cause bradypnea in decerebrate dogs but not via direct effects in the pre-Botzinger complex region. *J Neurophysiol.* 2010;103(1):409-18; doi:10.1152/jn.00188.2009.
19. Potfay J, Kaszala K, Tan AY, Sima AP, Gorcsan J, 3rd, Ellenbogen KA, Huizar JF. Abnormal Left Ventricular Mechanics of Ventricular Ectopic Beats: Insights Into Origin and Coupling Interval in Premature Ventricular Contraction-Induced Cardiomyopathy. *Circ Arrhythm Electrophysiol.* 2015;8(5):1194-200; DOI: 10.1161/CIRCEP.115.003047.
20. Radocaj T, Mustapic S, Prkic I, Stucke AG, Hopp FA, Stuth EA, et al. Activation of 5-HT1A receptors in the preBotzinger region has little impact on the respiratory pattern. *Respir Physiol Neurobiol.* 2015;212-214:9-19. doi: 10.1016/j.resp.2015.03.005.
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24. Song GQ, Zhu H, Lei Y, Yuan C, Starkebaum W, Yin J, et al. Gastric electrical stimulation optimized to inhibit gastric motility reduces food intake in dogs. *Obes Surg.* 2015;25(6):1047-55; DOI 10.1007/s11695-014-1491-8.
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26. Sun Y, Hou X, Chen J. Exogenous nitrenergic pathway involved in the regulation of gastric myoelectrical activity in dogs. *Scand J Gastroenterol.* 2009;44(4):408-14; DOI: 10.1080/00365520802600979.
27. Sun Y, Song G, Yin J, Chen J, Chen JH, Song J, et al. Effects and mechanisms of electroacupuncture on glucagon-induced small intestinal hypomotility in dogs. *Neurogastroenterol Motil.* 2010;22(11):1217-23, e318; DOI 10.1007/s10620-009-0830-4.

28. Tan AY, Hu YL, Potfay J, Kaszala K, Howren M, Sima AP, et al. Impact of ventricular ectopic burden in a premature ventricular contraction-induced cardiomyopathy animal model. *Heart Rhythm*. 2016;13(3):755-61.
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35. Wang Y, Eltit JM, Kaszala K, Tan A, Jiang M, Zhang M, et al. Cellular mechanism of premature ventricular contraction-induced cardiomyopathy. *Heart Rhythm*. 2014;11(11):2064-72.
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