## Challenges of the Giraffe Cardiovascular System

Courtney Agostino, Megan Lush, Nicolas Ng

## REFERENCE LIST

Aalkjær, C & Wang, T 2021, 'The Remarkable Cardiovascular System of Giraffes', *Annual Review of Physiology*, vol. 83, no. 1, pp. 1-15.

Aalkjær, C & Wang, T 2022, 'The cardiovascular challenges in giraffes', *Journal of Muscle Research and Cell Motility*, vol. 44, no. 2, pp.53-60.

Gaitan, H 2015, 'The Mammal with Heart', *The Idea of an Essay*, vol. 2, no. 18, pp. 123-134.

Goetz, R.H. & Keen, E.N. 1957, 'Some Aspects of the Cardiovascular System in the Giraffe', *Aniology*, vol. 8, no. 6, pp. 485-569.

Goetz, R.H., Warren, J.V., Gauer, O.H., Patterson, J.L., Doyle, J.T, Keen, E.N. & McGregor, M 1960, 'Circulation of the Giraffe', *Circulation Research*, vol. 8, pp. 1049-1058.

Hargens, A.R., Millard, R.W., Petterson, K & Johansen, K 1987, 'Gravitational haemodynamics and oedema prevention in the giraffe', *Nature*, vol. 329, no. 6134, pp. 59-60.

Hargens, A.R., Petterson, K & Millard, R.W. 2006, 'Giraffe Cardiovascular Adaptations to Gravity', *Endothelial Biomedicine*, vol. 13, no. 23, pp. 94-101.

Mitchell, G & Skinner, J.D. 2009, 'An allometric analysis of the giraffe cardiovascular system', *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology*, vol. 154, no. 4, pp. 523-529.

Mitchell, G, van Sittert, S.J., Skinner, J.D. 2009, 'The Structure and Function of Giraffe Jugular Vein Valves', *South African Journal of Wildlife Research*, vol. 39, no. 2, pp. 175-180.

National Geographic 2019, *Unique anatomy sets giraffe apart in the animal kingdom*, National Geographic, viewed 3 June 2023,

https://www.nationalgeographic.com/animals/article/graphic-shows-giraffes-unique-evolution-traits?rnd=1694000499525&loggedin=true

Østergaard, K.H., Bertelsen, M.F., Brøndum, E.T., Aalkjær, C, Hasenkam, J.M., Smerup, M, Wang, T, Nyengaard, J.R. & Baandrup, U 2011, 'Pressure profile and morphology of arteries along the giraffe limb', *Journal of Comparative Physiology B*, vol. 181, pp. 691-698.

Perez, W 2008, 'Heart anatomy of Giraffa camelopardalis rothschildi: a case report,' *Veterinarian Medicine*, vol. 53, no. 3, pp 165–168.

Peterson, K.K., Hørlyck, Østergaard, K.H., Andresen, J., Broegger, T., Skovgaard, N., Telinius, N., Laher, I., Bertelsen, M.F., Grøndahl, C., Smerup, M., Secher N.H., Brøndum, E., Hasenkam J.M., Wang, T., Baandrup, U. & Aalkjaer, C. 2013, 'Protection against high intravascular pressure in giraffe legs', *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, vol. 305, no. 9, pp. 1021-1030.

Smerup, M, Damkjær, M & Brøndum, E 2016, 'The thick left ventricular wall of the giraffe heart normalises wall tension, but limits stroke volume and cardiac output,' *Journal of Experimental Biology*, vol. 219, no.3, pp. 457-463.

Van Critters, R.L., Kemper, W.S. & Franklin, D.L. 1968, 'Blood Flow and Pressure in the Giraffe Carotid Artery', *Comparative Biochemistry and Physiology*, vol. 24, pp. 1035-1042.