

# Chris Whitton

## List of Publications by Citations

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59  
papers

897  
citations

17  
h-index

28  
g-index

71  
ext. papers

1,155  
ext. citations

2.3  
avg, IF

4.16  
L-index

#	Paper	IF	Citations
59	The diagnosis of lameness associated with distal limb pathology in a horse: a comparison of radiography, computed tomography and magnetic resonance imaging. <i>Veterinary Journal</i> , <b>1998</b> , 155, 223-9	2.5	81
58	Relationship between muscle forces, joint loading and utilization of elastic strain energy in equine locomotion. <i>Journal of Experimental Biology</i> , <b>2010</b> , 213, 3998-4009	3	66
57	Evaluation of a subject-specific finite-element model of the equine metacarpophalangeal joint under physiological load. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 65-73	2.9	65
56	Third metacarpal condylar fatigue fractures in equine athletes occur within previously modelled subchondral bone. <i>Bone</i> , <b>2010</b> , 47, 826-31	4.7	61
55	Bone fatigue and its implications for injuries in racehorses. <i>Equine Veterinary Journal</i> , <b>2014</b> , 46, 408-15	2.4	50
54	Shock absorbing ability of articular cartilage and subchondral bone under impact compression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2013</b> , 26, 127-35	4.1	38
53	Retrospective investigation of prognostic indicators for adult horses with infection of a synovial structure. <i>Australian Veterinary Journal</i> , <b>2011</b> , 89, 226-31	1.2	35
52	Forelimb muscle activity during equine locomotion. <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 2980-91	3	33
51	Meta-analysis of risk factors for racehorse catastrophic musculoskeletal injury in flat racing. <i>Veterinary Journal</i> , <b>2019</b> , 245, 29-40	2.5	32
50	The intercarpal ligaments of the equine midcarpal joint, Part 3: Clinical observations in 32 racing horses with midcarpal joint disease. <i>Veterinary Surgery</i> , <b>1997</b> , 26, 374-81	1.7	30
49	The sacroiliac joints: evaluation using nuclear scintigraphy. Part 1: The normal horse. <i>Equine Veterinary Journal</i> , <b>2003</b> , 35, 226-32	2.4	27
48	The intercarpal ligaments of the equine midcarpal joint, Part 2: The role of the palmar intercarpal ligaments in the restraint of dorsal displacement of the proximal row of carpal bones. <i>Veterinary Surgery</i> , <b>1997</b> , 26, 367-73	1.7	24
47	Osteochondral fragmentation of the plantar/palmar proximal aspect of the proximal phalanx in racing horses. <i>Australian Veterinary Journal</i> , <b>1994</b> , 71, 318-21	1.2	23
46	Patterns of scintigraphic uptake in the fetlock joint of Thoroughbred racehorses and the effect of increased radiopharmaceutical uptake in the distal metacarpal/tarsal condyle on performance. <i>Equine Veterinary Journal</i> , <b>2011</b> , 43, 509-15	2.4	21
45	Thoroughbred horses in race training have lower levels of subchondral bone remodelling in highly loaded regions of the distal metacarpus compared to horses resting from training. <i>Veterinary Journal</i> , <b>2014</b> , 202, 443-7	2.5	19
44	Role of subchondral bone remodelling in collapse of the articular surface of Thoroughbred racehorses with palmar osteochondral disease. <i>Equine Veterinary Journal</i> , <b>2016</b> , 48, 228-33	2.4	19
43	The intercarpal ligaments of the equine midcarpal joint, Part 1: The anatomy of the palmar and dorsomedial intercarpal ligaments of the midcarpal joint. <i>Veterinary Surgery</i> , <b>1997</b> , 26, 359-66	1.7	18

42	Subchondral bone microdamage accumulation in distal metacarpus of Thoroughbred racehorses. <i>Equine Veterinary Journal</i> , <b>2018</b> , 50, 766-773	2.4	16
41	Training practices, speed and distances undertaken by Thoroughbred racehorses in Victoria, Australia. <i>Equine Veterinary Journal</i> , <b>2020</b> , 52, 273-280	2.4	16
40	Musculoskeletal injury rates in Thoroughbred racehorses following local corticosteroid injection. <i>Veterinary Journal</i> , <b>2014</b> , 200, 71-6	2.5	15
39	Can high-resolution peripheral quantitative computed tomography imaging of subchondral and cortical bone predict condylar fracture in Thoroughbred racehorses?. <i>Equine Veterinary Journal</i> , <b>2015</b> , 47, 428-32	2.4	13
38	Compressive fatigue life of subchondral bone of the metacarpal condyle in thoroughbred racehorses. <i>Bone</i> , <b>2013</b> , 57, 392-8	4.7	13
37	Muscle strain injuries of the hindlimb in eight horses: diagnostic imaging, management and outcomes. <i>Australian Veterinary Journal</i> , <b>2010</b> , 88, 313-21	1.2	13
36	Exercise-induced inhibition of remodelling is focally offset with fatigue fracture in racehorses. <i>Osteoporosis International</i> , <b>2013</b> , 24, 2043-8	5.3	12
35	Postmortem lesions in the intercarpal ligaments of the equine midcarpal joint. <i>Australian Veterinary Journal</i> , <b>1997</b> , 75, 746-50	1.2	11
34	Postoperative performance of racing horses with tearing of the medial palmar intercarpal ligament. <i>Australian Veterinary Journal</i> , <b>1999</b> , 77, 713-7	1.2	11
33	Prevalence of subchondral bone pathological changes in the distal metacarpi/metatarsi of racing Thoroughbred horses. <i>Australian Veterinary Journal</i> , <b>2017</b> , 95, 362-369	1.2	9
32	Successful laparoscopic surgery for a uterine leiomyoma in a mare. <i>Equine Veterinary Education</i> , <b>2008</b> , 20, 508-511	0.6	9
31	Track Surfaces Used for Ridden Workouts and Alternatives to Ridden Exercise for Thoroughbred Horses in Race Training. <i>Animals</i> , <b>2018</b> , 8,	3.1	9
30	Subchondral bone morphology in the metacarpus of racehorses in training changes with distance from the articular surface but not with age. <i>Journal of Anatomy</i> , <b>2018</b> , 232, 919-930	2.9	7
29	Identification and prevalence of errors affecting the quality of radiographs submitted to Australian thoroughbred yearling sale repositories. <i>Veterinary Radiology and Ultrasound</i> , <b>2011</b> , 52, 262-9	1.2	7
28	A cranial intercondylar arthroscopic approach to the caudal medial femorotibial joint of the horse. <i>Equine Veterinary Journal</i> , <b>2009</b> , 41, 5-10	2.4	7
27	Associations between pre-injury racing history and tibial and humeral fractures in Australian Thoroughbred racehorses. <i>Veterinary Journal</i> , <b>2019</b> , 247, 44-49	2.5	6
26	Variation in GPS and accelerometer recorded velocity and stride parameters of galloping Thoroughbred horses. <i>Equine Veterinary Journal</i> , <b>2021</b> , 53, 1063-1074	2.4	5
25	Biomechanical testing of the calcified metacarpal articular surface and its association with subchondral bone microstructure in Thoroughbred racehorses. <i>Equine Veterinary Journal</i> , <b>2018</b> , 50, 255-260	2.4	5

24	In vitro evaluation of canine leukocytes radiolabeled in whole blood with (99m)Tc stannous colloid. <i>Nuclear Medicine and Biology</i> , <b>2008</b> , 35, 707-12	2.1	5
23	The relationship between microstructure, stiffness and compressive fatigue life of equine subchondral bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 101, 103439	4.1	5
22	Effect of displaced versus non-displaced pelvic fractures on long-term racing performance in 31 Thoroughbred racehorses. <i>Australian Veterinary Journal</i> , <b>2013</b> , 91, 246-50	1.2	4
21	Association between the purchase price of Thoroughbred yearlings and their performance during the 2- and 3-year-old racing seasons. <i>Australian Veterinary Journal</i> , <b>2011</b> , 89, 388-93	1.2	4
20	Medial collateral ligament desmitis of the distal interphalangeal joint in the hindlimb of a horse: treatment with cast immobilisation. <i>Australian Veterinary Journal</i> , <b>2009</b> , 87, 499-502	1.2	4
19	Mathematical modelling of bone adaptation of the metacarpal subchondral bone in racehorses. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2018</b> , 17, 877-890	3.8	3
18	An assessment of intra- and interobserver agreement of reporting orthopaedic findings on presale radiographs of Thoroughbred yearlings. <i>Equine Veterinary Journal</i> , <b>2014</b> , 46, 567-74	2.4	3
17	Hoof conformation and performance in the racing Thoroughbred in Macau. <i>Australian Veterinary Journal</i> , <b>2013</b> , 91, 108-12	1.2	3
16	Fatigue behavior of subchondral bone under simulated physiological loads of equine athletic training. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 110, 103920	4.1	3
15	Solar angle of the distal phalanx is associated with scintigraphic evidence of subchondral bone injury in the palmar/plantar aspect of the third metacarpal/tarsal condyles in Thoroughbred racehorses. <i>Equine Veterinary Journal</i> , <b>2019</b> , 51, 720-726	2.4	2
14	Histopathological findings in the medial palmar and dorsomedial intercarpal ligaments of the equine midcarpal joint. <i>Veterinary Journal</i> , <b>1999</b> , 157, 23-9	2.5	2
13	Microstructural properties of the proximal sesamoid bones of Thoroughbred racehorses in training. <i>Equine Veterinary Journal</i> , <b>2021</b> , 53, 1169-1177	2.4	2
12	A Coupled Biomechanical-Smoothed Particle Hydrodynamics Model for Horse Racing Tracks.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 766748	5.8	2
11	Distribution of mechanical strain in equine distal metacarpal subchondral bone: A microCT-based finite element model. <i>Medicine in Novel Technology and Devices</i> , <b>2020</b> , 6, 100036	2.1	1
10	Subchondral Bone Remodelling Is More Active in Resting Than Training Thoroughbred Racehorses. <i>Equine Veterinary Journal</i> , <b>2014</b> , 46, 27-28	2.4	1
9	In vitro evaluation of feline leukocytes radiolabeled in whole blood with 99mTc stannous colloid. <i>Veterinary Radiology and Ultrasound</i> , <b>2009</b> , 50, 545-9	1.2	1
8	Biodistribution of canine leucocytes labelled with technetium-99m stannous fluoride colloid in whole blood and their ability to localise to sites of induced inflammation. <i>Veterinary Journal</i> , <b>2010</b> , 185, 157-62	2.5	1
7	A method for fatigue testing of equine McIII subchondral bone under a simulated fast workout training programme. <i>Equine Veterinary Journal</i> , <b>2020</b> , 52, 332-335	2.4	1

6	Effects of in vivo fatigue-induced subchondral bone microdamage on the mechanical response of cartilage-bone under a single impact compression. <i>Journal of Biomechanics</i> , <b>2020</b> , 100, 109594	2.9	1
5	Osteochondral fragmentation of the palmarolateral/plantarolateral aspect of the distal phalanx in four horses: A novel location. <i>Equine Veterinary Education</i> ,	0.6	1
4	Associations between the radiographic appearance of vascular channels in proximal sesamoid bones, their microstructural characteristics and past racing performance in Thoroughbreds. <i>Equine Veterinary Journal</i> , <b>2020</b> , 52, 670-677	2.4	0
3	Tarsus and stifle <b>2014</b> , 367-398		
2	Therapeutic Farriery: A Manual for Veterinarians and Farriers. 1st edn - Edited by Yehuda Avisar. <i>Australian Veterinary Journal</i> , <b>2008</b> , 86, 454-454	1.2	
1	Chemical arthrodesis of the distal tarsal joints using sodium monoiodoacetate in 104 horses. <i>Australian Veterinary Journal</i> , <b>2004</b> , 82, 286; author reply 286-7	1.2	