

Distance Education in Veterinary Medicine: History, Current Situation, and Future Perspectives (a Systematic Review).

Educação a Distância em Medicina Veterinária: História, situação atual e perspectivas futuras (uma revisão sistemática)

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APPENDIX A

Table: Simulation in Veterinary Medicine

SIMULATORS	INSTITUTION	FREE	PAID	AREA	WEB SITE
VIN Virtual Clinic	Veterinary Information Network		X*	Emergencies	https://www.vin.com/students/default.aspx?pld=680&id=8286502
Cardiac Virtual Patients	Royal Veterinary College (University of London)	X		Cardiology	https://www.rvc.ac.uk/review/cardiocases/
Virtual reality anatomical models	X Virginia Polytechnic Institute and State University	X		(Anatomy)	https://guides.lib.vt.edu/vet-med/vranatomy
Digital Slide Box	Royal Veterinary College (University of London)	X		Histology	https://www.rvc.ac.uk/review/SlideBox.cfm
Dairy Farm Simulator	Royal Veterinary College	X		Dairy Production	www.virtual-dairyfarm.org

*Free for veterinary medicine students

APPENDIX B

Table: Online education platforms in Veterinary Medicine

PLATFORM	INSTITUTION	FREE	PAID	AREA	WEB SITE
Veterinary Anatomy	University of Minnesota			Anatomy	vanat.cvm.umn.edu
Virtual Veterinary Educational Tools	Colorado State University		X	Anatomy	cvmb.colostate.edu/vetneuro
Real 3D Anatomy	University of Bristol	X		Anatomy	real3danatomy.com
Illinois Imaging Anatomy	University of Illinois	X		Anatomy Imagenology	vetmed.illinois.edu/imaging_anatomy/index.html
Online Veterinary Anatomy Museum	UK Universities Consortium	X		Anatomy	onlineveterinaryanatomy.net/
Limb Anatomy	Iowa State University	X		Anatomy	http://apps.cvm.iastate.edu/limbanatomy/
Digital Learning Showcase	Royal Veterinary College (University of London)	X		Different Vet Areas	https://www.rvc.ac.uk/about/the-rvc/our-departments/academic-support-and-development/emediashowcase

Neuroanatomy of the Dog	Universidad Autonomade Barcelona	X		Anatomy	https://www.neuroanatomyofthedog.com/
Equine Distal Limb - Anatomy and Imaging	Royal Veterinary College (University of London)	X		Anatomy Imagenology	https://www.rvc.ac.uk/static/review/equine-distal-limb/index.html
Ivala Learn	Ivala®		X-	Anatomy	https://www.ivalalearn.com/
Equine Hoof Explorer	Effigos®		X	Anatomy	https://hoofexplorer.com/
Tha Glass Horse / The Glass Dog	University of Georgia - Science in 3D®		X	Anatomy	http://sciencein3d.com/
Biosphera	Biosphera®		X	Anatomy	https://biosphera3d.com/
VetBact	Swedish University of Agricultural Sciences	X		Bacteriology	https://www.vetbact.org/?startpage=1
ECLINPATH	Cornell University	X		Pathology	http://eclinpath.com/
The Joint Pathology Center	National Capital Region Medical Directorate	X		Pathology Histology	http://www.askjpc.org/vspo/
Swiss Virtual Animal Pathology	University of Zurich	X		Pathology	https://www.animalpatho.org/en/
Veterinary Pathology Image Database	Universidad Autonomade Barcelona	X		Pathology	https://veterinariavirtual.uab.cat/archivopatologia/index.php
Cardio Academy	Ceva Santé Animale	X		Cardiology	https://www.cardioacademy.cevalearn.com/
Antimicrobial Resistance Learning Site	University of Minnesota Michigan State University	X		Microbiology Pharmacology Public Health	https://amrls.umn.edu/
Veterinary Histology	The Ohio State University	X		Histology	https://ohiostate.pressbooks.pub/vethisto/
Virtual Fetal Pig Dissection	Whitman College	X		Anatomy	https://www.whitman.edu/academics/departments-and-programs/biology/virtual-pig
Rooney's Guide to the Dissection of the Horse	Cornell University	X		Anatomy	https://secure.vet.cornell.edu/oed/Horsedissection/search.asp
Anatomy Museum Collection	Royal Veterinary College (University of London)	X		Anatomy	https://www.rvc.ac.uk/review/anatomy/
KASHVET	KASHVET	X		All Vet Areas	http://www.kashvet.org/e-learning.htm

Veterinarios en Web	Universidad Católica de Salta	X	X'	All Vet Areas (Spanish)	https://www.veterinariosenweb.com/
Merk Veterinary Manual	Merck & Co	X		(Spanish)	https://www.merckvetmanual.com/
Wiki Vet	UK Universities Consortium	X'		All Vet Areas	https://en.wikivet.net/Veterinary_Education_Online
VIN	Veterinary Information Network		X*	All Vet Areas	https://www.vin.com/vin
NOVICE	European Commission	X'		All Vet Areas	http://noviceproject.eu/
IVIS	International Veterinary Information Service	X'		All Vet Areas	https://www.ivis.org/
The Webinar Vet	The Webinar Vet®		X'	All Vet Areas Online Courses	https://www.thewebinarvet.com/
Vetstream	Vetstream Ltd		X'	All Vet Areas Online Courses	https://www.vetstream.com/home
Veterinary Partner	Veterinary Information Network	X		All Vet Areas	https://veterinarypartner.vin.com/default.aspx?pid=19239
Guide to Veterinary Diagnostic Parasitology	Royal Veterinary College - Food and Agriculture Organization	X		Parasitology	https://www.rvc.ac.uk/Review/Parasitology/Index/Index.htm
Veterinary Bacteriology and Mycology	University of Copenhagen			Microbiology	https://atlas.sund.ku.dk/microatlas/veterinary/
Cabi VetMed Resource	CAB International	X		All Vet Areas	https://www.cabi.org/vetmedresource/
Dechra Academy	Dechra Pharmaceuticals	X'		Online Courses	https://academy.dechra.com/learn
Vetgirl	Vetgirl LLC		X'	Online Courses	https://vetgirlontherun.com/
LafeberVet	Lafeber Company	X'		Exotic Animals	https://lafeber.com/vet/
Hill's Veterinary Nutritional Advocate	Hill's Pet Nutrition	X'		Nutrition	https://vna.hillsvet.com/?checked=true
Online VetMed	University of Illinois		X'	Online Courses	https://online.vetmed.illinois.edu/courses
Vet Book	University of Sidney	X		All Vet Areas (DOG)	http://www.vetbook.org/wiki/dog/index.php/Dog
The sheep brain atlas	Michigan State University	X		Anatomy Histology	https://msu.edu/~brains/brains/sheep/index.html

Canine Radiographs	Royal Veterinary College (University of London)	X		Anatomy Imagenology	https://www.rvc.ac.uk/Review/canine_radiographs/index.htm
Intructional Resources	Oklahoma State University	X		Different Vet Areas	https://instruction.cvhs.okstate.edu/
Research Podcasts – Veterinary Science on the Move	Royal Veterinary College (University of London)	X		All Vet Areas	https://www.rvc.ac.uk/research/podcasts
Veterinary Dentistry	Royal Veterinary College (University of London)	X		Dentistry	https://www.rvc.ac.uk/Review/Dentistry/index.htm
Classic Cases in Veterinary Dermatology	Royal Veterinary College (University of London)	X		Dermatology	https://www.rvc.ac.uk/Review/Dermatology_Cases/Index.htm
Diagnosis in Dermatology	Royal Veterinary College (University of London)	X		Dermatology	https://www.rvc.ac.uk/review/dermatology/
The Canine Abdomen	Royal Veterinary College (University of London)	X		Embriology	https://www.rvc.ac.uk/Review/abdomen/HTML/index.htm
Evidence-based Veterinary Medicine (EBVM)	Royal College of Veterinary Surgeons	X		Evidence-based Veterinary Medicine	https://learn.rcvsknowledge.org/course/view.php?id=2
Veterinary Radiology	Dr. Allison Zwingenberger (University of California)	X		Imagenology	http://www.veterinaryradiology.net/
Information on aquatic and terrestrial animal diseases	World Organisation for Animal Health (OIE)	X		Public Health	https://www.oie.int/animal-health-in-the-world/information-on-aquatic-and-terrestrial-animal-diseases/
WAHIS Interface	World Organisation for Animal Health (OIE)	X		Public health	https://www.oie.int/wahis_2/public/wahid.php/Wahidhome/Home
Veterinary Food Safety Education Learning Object Repository	University of Wisconsin, University of Georgia and Texas A&M University	X'		Food Safety	http://webcls.utmb.edu/d2d/default.asp
Livestock Behaviour, Design of Facilities and Humane Slaughter	Dr. Temple Grandin	X		Animal Welfare	http://www.grandin.com/
The biology of the Goat	Karin Christensen	X		Anatomy Physiology Parasitology	http://www.goatbiology.com/index.html
Animal Ethics Dilemma	Malmö University	X'		Animal Ethics and Welfare	http://www.aedilemma.net/

Case Studies In Small Animal Cardiovascular Medicine	UC-Davis School of Veterinary Medicine	X		Cardiology	https://viper.vet-med.ucdavis.edu/public/cardio_kittle-son/cases/index.htm
Plants Poisonous to Livestock	Cornell University	X		Toxicology	http://poisonous-plants.ansci.cornell.edu/index.html
Small and Large Animal Health Topics	American College Of Veterinary Surgeons	X		All Vet Areas	https://www.acvs.org/
Rumen Biochemistry	The University of Queensland	X		Biochemistry	http://www.vet.ed.ac.uk/clive/cal/RUMENCAL/vetcal.html
Advice and Welfare	Royal Society for the Prevention of Cruelty to Animals	X		Animal Welfare	https://www.rspca.org.uk/adviceandwelfare
Vetscope	Vetscope	X'		Different Vet Areas	https://vetscope.vet/
Vetmed Academy	Vetmed Academy	X'		All Vet Areas	https://vetmedacademy.org/
Vet-Revise	Jist - Royal Veterinary College	X'		All Vet Areas	https://vetrevise.com/login
The Pig Site	5m Enterprises Inc	X		All Vet Areas (Pig)	https://thepigsite.com/
The Poultry Site	5m Enterprises Inc	X		All Vet Areas (Poultry)	https://thepoultrysite.com/

Note. * Free for veterinary medicine students, ' Registration needed, - Free for VIN members