

**Supplementary material S1 – Table 1: List of selected resources for evidence synthesis of animal studies**

Section title	Organisation / Resource	Hyperlink
<b>Differentiating types of reviews</b>		
<b>Resources for differentiating types of reviews</b>	Centre for Evidence Based Agriculture	<a href="https://www.harper-adams.ac.uk/research/ceba/207">https://www.harper-adams.ac.uk/research/ceba/207</a>
	Cornell University Library Evidence Synthesis Service Review Methodology Tree	<a href="https://guides.library.cornell.edu/evidence-synthesis/service">https://guides.library.cornell.edu/evidence-synthesis/service</a>
	Grant, M.J. & Booth, A. (2009). A typology of reviews: an analysis of 14 review types and associated methodologies. <i>Health Information &amp; Libraries Journal</i> . 26(2), 91–108.	<a href="https://doi.org/10.1111/j.1471-1842.2009.00848.x">https://doi.org/10.1111/j.1471-1842.2009.00848.x</a>
	Sutton, A., Clowes, M., Preston, L. & Booth, A. (2019). Meeting the review family: exploring review types and associated information retrieval requirements. <i>Health Information &amp; Libraries Journal</i> . 36(3), 202–222.	<a href="https://doi.org/10.1111/hir.12276">https://doi.org/10.1111/hir.12276</a>
	Brennan, M.L., Arlt, S.P., Belshaw, Z., Buckley, L., Corah, L., Doit, H., Fajt, V.R., Grindlay, D.J., Moberly, H.K., Morrow, L.D. & Stavisky, J. (2020). Critically Appraised Topics (CATs) in Veterinary Medicine: Applying Evidence in Clinical Practice. <i>Frontiers in Veterinary Science</i> . 7, 314.	<a href="https://doi.org/10.3389/fvets.2020.00314">https://doi.org/10.3389/fvets.2020.00314</a>
	O'Connor, A. & Sargeant, J. (2015). Research synthesis in veterinary science: narrative reviews, systematic reviews and meta-analysis. <i>The Veterinary Journal</i> . 206(3), 261–267.	<a href="https://doi.org/10.1016/j.tvjl.2015.08.025">https://doi.org/10.1016/j.tvjl.2015.08.025</a>
	Sargeant, J.M. & O'Connor, A.M. (2014). Introduction to Systematic Reviews in Animal Agriculture and Veterinary Medicine. <i>Zoonoses and Public Health</i> . 61, 3–9.	<a href="https://doi.org/10.1111/zph.12128">https://doi.org/10.1111/zph.12128</a>
<b>Finding published evidence syntheses</b>		
<b>Databases of animal systematic reviews</b>	VetSRev – Database of Veterinary Systematic Reviews	<a href="https://vetsrev.nottingham.ac.uk">https://vetsrev.nottingham.ac.uk</a>
	SYRCLE – Database of Animal Preclinical Systematic Review Publications	<a href="https://data.mendeley.com/datasets/6fr3nw5mpc/1">https://data.mendeley.com/datasets/6fr3nw5mpc/1</a>
	SYREAF – Database of Systematic Reviews for Animals & Food	<a href="https://syreaf.org">https://syreaf.org</a>
	Norecopa – Literature searches and Systematic Reviews of published preclinical animal studies	<a href="https://norecopa.no/more-resources/literature-searches-and-systematic-reviews">https://norecopa.no/more-resources/literature-searches-and-systematic-reviews</a>
<b>Databases of related systematic reviews</b>	Campbell Collaboration systematic reviews on crime and justice, education, international development, and social welfare	<a href="https://www.campbellcollaboration.org">https://www.campbellcollaboration.org</a>
	Cochrane Library systematic reviews on human medicine	<a href="https://www.cochranelibrary.com">https://www.cochranelibrary.com</a>
<b>Veterinary critically appraised topics</b>	<i>Veterinary Evidence</i> Knowledge Summaries	<a href="https://veterinaryevidence.org">https://veterinaryevidence.org</a>
	BestBETs for Vets	<a href="https://bestbetsforvets.org">https://bestbetsforvets.org</a>

<b>Animal literature searching</b>		
<b>Animal search educational resources</b>	RCVS Knowledge Learn Evidence-based Veterinary Medicine Course	<a href="https://learn.rcvsknowledge.org">https://learn.rcvsknowledge.org</a>
	USDA National Agricultural Library Animal Welfare Information Center (AWIC) Literature Searching: How to Find Animal Use Alternatives	<a href="https://www.nal.usda.gov/services/literature-searching-animal-use-alternatives">https://www.nal.usda.gov/services/literature-searching-animal-use-alternatives</a>
	Animal and Veterinary Information Specialist (AVIS) Caucus of Medical Library Association ‘Searching for Animal Literature’	<a href="https://doi.org/10.17605/OSF.IO/BSMUX">https://doi.org/10.17605/OSF.IO/BSMUX</a>
	litsearchr – an R package (tutorials for keyword selection using R programming language)	<a href="https://elizagrames.github.io/litsearchr">https://elizagrames.github.io/litsearchr</a>
<b>Publications on animal searching</b>	Animal and Veterinary Information Specialist (AVIS) Caucus of Medical Library Association Animal Search Working Group Zotero Library	<a href="https://www.zotero.org/groups/4662438/animal_search_working_group_library">https://www.zotero.org/groups/4662438/animal_search_working_group_library</a>
<b>Translate search to other databases</b>	Systematic Review Accelerator (SR-Accelerator) – Polyglot search	<a href="https://sr-accelerator.com">https://sr-accelerator.com</a>
<b>Filters</b>	CABI – About the Evidence Based Research filter	<a href="https://www.cabdirect.org/Uploads/CABI/publishing/training-materials/additional-resources/About_the_Evidence_Based_Research_filter.pdf">https://www.cabdirect.org/Uploads/CABI/publishing/training-materials/additional-resources/About_the_Evidence_Based_Research_filter.pdf</a>
<b>Peer review of search strategies</b>	McGowan, J., Sampson, M., Salzwedel, D. M., Cogo, E., Foerster, V. & Lefebvre, C. (2016). PRESS Peer Review of Electronic Search Strategies: 2015 Guideline Statement. <i>Journal of Clinical Epidemiology</i> , 75, 40–46.	<a href="https://doi.org/10.1016/j.jclinepi.2016.01.021">https://doi.org/10.1016/j.jclinepi.2016.01.021</a>
<b>Search hedge saving</b>	CABI – searchRxiv	<a href="https://searchrxiv.org">https://searchrxiv.org</a>
<b>Search reporting guidelines</b>	Rethlefsen, M.L., Kirtley, S., Waffenschmidt, S., Ayala, A.P., Moher, D., Page, M.J., Koffel, J.B. & PRISMA-S Group. (2021). PRISMA-S: an extension to the PRISMA statement for reporting literature searches in systematic reviews. <i>Systematic Reviews</i> . 10(1), 1–19.	<a href="https://doi.org/10.1186/s13643-020-01542-z">https://doi.org/10.1186/s13643-020-01542-z</a>
<b>Evidence synthesis training</b>		
<b>General evidence synthesis training</b>	Cornell University Library Evidence Synthesis Service Guide to Evidence Synthesis:	<a href="https://guides.library.cornell.edu/evidence-synthesis/service">https://guides.library.cornell.edu/evidence-synthesis/service</a>
	University of Minnesota – Evidence Synthesis Institute	<a href="https://www.lib.umn.edu/about/evidence-synthesis-institute">https://www.lib.umn.edu/about/evidence-synthesis-institute</a>
	Students 4 Best Evidence	<a href="https://s4be.cochrane.org/">https://s4be.cochrane.org/</a>
	Evidence Synthesis Hackathon	<a href="https://www.eshackathon.org">https://www.eshackathon.org</a>
	Evidence Synthesis and Meta-Analysis in R Conference (ESMARConf)	<a href="https://esmarconf.org">https://esmarconf.org</a>
	Book and NNLM webinar series: Foster, M.J. and Jewell, S.T. eds., 2017. Assembling the pieces of a systematic review: a guide for librarians. Rowman & Littlefield.	

<b>Animal evidence synthesis training</b>	Systematic Review Centre for Laboratory animal Experimentation (SYRCLE) Systematic Review Training	<a href="https://www.syracle.network">https://www.syracle.network</a>
	Collaborative Approach to Meta Analysis and Review of Animal Experimental Studies (CAMARADES) Berlin – Preclinical Systematic Review WIKI	<a href="http://camarades.de">http://camarades.de</a>
	NC3Rs National Centre for the Replacement Refinement & Reduction of Animals in Research – Introduction to systematic reviews	<a href="https://www.nc3rs.org.uk/3rs-resources/introduction-systematic-reviews">https://www.nc3rs.org.uk/3rs-resources/introduction-systematic-reviews</a>
	<i>Veterinary Evidence</i> – How to Write a Knowledge Summary	<a href="https://veterinaryevidence.org/index.php/ve/How-to-write-a-knowledge-summary-guide">https://veterinaryevidence.org/index.php/ve/How-to-write-a-knowledge-summary-guide</a>
	<i>Zoonoses and Public Health</i> , Special Issue: Systematic Reviews and Meta-Analysis in Animal Agriculture and Veterinary Medicine. (2014). 61, S1.	<a href="https://onlinelibrary.wiley.com/toc/18632378/2014/61/S1">https://onlinelibrary.wiley.com/toc/18632378/2014/61/S1</a>
<b>Primary animal study planning</b>		
<b>Primary animal study planning and reporting guidelines</b>	PREPARE (Planning Research and Experimental Procedures on Animals: Recommendations for Excellence)	<a href="https://norecopa.no/prepare">https://norecopa.no/prepare</a>
	ARRIVE guidelines (Animal Research: Reporting of <i>In Vivo</i> Experiments)	<a href="https://arriveguidelines.org">https://arriveguidelines.org</a>
	REFLECT statement: methods and processes of creating reporting guidelines for randomized controlled trials for livestock and food safety by modifying the CONSORT statement	<a href="https://www.equator-network.org/reporting-guidelines/the-reflect-statement-methods-and-processes-of-creating-reporting-guidelines-for-randomized-controlled-trials-for-livestock-and-food-safety-by-modifying-the-consort-statement/">https://www.equator-network.org/reporting-guidelines/the-reflect-statement-methods-and-processes-of-creating-reporting-guidelines-for-randomized-controlled-trials-for-livestock-and-food-safety-by-modifying-the-consort-statement/</a>
	STROBE-Vet STATEMENT – Strengthening the Reporting of Observational Studies in Epidemiology – Veterinary Extension	<a href="https://strobevet-statement.org">https://strobevet-statement.org</a>
	Vollert, J., Macleod, M., Dirnagl, U., Kas, M.J., Michel, M.C., Potschka, H., Riedel, G., Wever, K.E., Würbel, H., Steckler, T., EQIPD Consortium, & Rice, A. S. (2022). The EQIPD framework for rigor in the design, conduct, analysis and documentation of animal experiments. <i>Nature Methods</i> . 19(11), 1334–337.	<a href="https://doi.org/10.1038/s41592-022-01615-y">https://doi.org/10.1038/s41592-022-01615-y</a>
<b>Design and conduct of research</b>	GoEQIPD - Guarantors of Enhancing Quality in Preclinical Data	<a href="https://go-eqipd.org">https://go-eqipd.org</a>
	NC3Rs Experimental Design Assistant (EDA)	<a href="https://www.nc3rs.org.uk/our-portfolio/experimental-design-assistant-eda">https://www.nc3rs.org.uk/our-portfolio/experimental-design-assistant-eda</a>
	COHA Clinical and Translational Science Award One Health Alliance – Research Training Opportunities	<a href="https://www.ctsaonehealthalliance.org/resources/research-training-opportunities">https://www.ctsaonehealthalliance.org/resources/research-training-opportunities</a>
<b>Collections of reporting guidelines</b>	Meridian Network: menagerie of reporting guidelines for studies involving animals	<a href="https://meridian-network.org">https://meridian-network.org</a>
	Norecopa	<a href="https://norecopa.no/more-resources/reporting-guidelines">https://norecopa.no/more-resources/reporting-guidelines</a>
	EQUATOR Enhancing the QUALity and Transparency Of health Research Network	<a href="https://www.equator-network.org">https://www.equator-network.org</a>

<b>Integrity checklist for editors and reviewers</b>	Grey, A., Bolland, M. J., Avenell, A., Klein, A. A. & Gunsalus, C. K. (2020). Check for publication integrity before misconduct. <i>Nature</i> . 577(7789), 167-169.	<a href="https://doi.org/10.1038/d41586-019-03959-6">https://doi.org/10.1038/d41586-019-03959-6</a>
<b>Planning for animal open science</b>	Diederich, K., Schmitt, K., Schwedhelm, P., Bert, B. & Heinl, C. (2023). Open Science Toolbox for Animal Research. <i>Zenodo</i> .	<a href="https://doi.org/10.5281/zenodo.6497559">https://doi.org/10.5281/zenodo.6497559</a>
<b>Primary animal study registries or recruiting</b>	PreclinicalTrials.eu	<a href="https://preclinicaltrials.eu/">https://preclinicaltrials.eu/</a>
	animalstudyregistry.org	<a href="https://www.animalstudyregistry.org">https://www.animalstudyregistry.org</a>
	AVMA Animal Health Studies Database	<a href="https://www.avma.org/findvetstudies">https://www.avma.org/findvetstudies</a>
<b>General study registry used for both primary and secondary studies</b>	Center for Open Science – OSF Registries	<a href="https://www.cos.io/products/osf-registries">https://www.cos.io/products/osf-registries</a>
<b>Evidence synthesis steps</b>		
<b>Evidence synthesis reporting guidelines</b>	PRISMA – Preferred Reporting Items for Systematic Reviews and Meta-Analyses	<a href="http://prisma-statement.org">http://prisma-statement.org</a>
<b>Animal evidence synthesis registries (protocols may also be registered with OSF)</b>	PROSPERO International prospective register of reviews relevant to human health	<a href="https://www.crd.york.ac.uk/PROSPERO">https://www.crd.york.ac.uk/PROSPERO</a>
	PROSPERO guidelines for registering animal reviews relevant to human health	<a href="https://www.crd.york.ac.uk/prospero/documents/Guidance_for_registering_animal_studies.pdf">https://www.crd.york.ac.uk/prospero/documents/Guidance_for_registering_animal_studies.pdf</a>
	Systematic Reviews for Animals and Food (SYREAF) Protocols prospective register of veterinary and agriculture reviews	<a href="https://syreaf.org/protocols">https://syreaf.org/protocols</a>
<b>Citation searching</b>	DistillerSR	<a href="https://www.evidencepartners.com">https://www.evidencepartners.com</a>
	citationchaser	<a href="https://estech.shinyapps.io/citationchaser">https://estech.shinyapps.io/citationchaser</a>
	Systematic Review Accelerator (SR-Accelerator) – SpiderCite	<a href="https://sr-accelerator.com/#/help/spidercite">https://sr-accelerator.com/#/help/spidercite</a>
<b>Deduplication</b>	CAMRADES Automated Systematic Search Deduplicator (ASySD)	<a href="https://camarades.shinyapps.io/RDedup">https://camarades.shinyapps.io/RDedup</a>
<b>Screening</b>	Systematic Review Facility (SyRF)	<a href="https://syrf.org.uk">https://syrf.org.uk</a>
	DistillerSR	<a href="https://www.evidencepartners.com">https://www.evidencepartners.com</a>
	SR-Accelerator	<a href="https://sr-accelerator.com">https://sr-accelerator.com</a>
	Rayyan	<a href="https://www.rayyan.ai">https://www.rayyan.ai</a>
	Covidence	<a href="https://www.covidence.org">https://www.covidence.org</a>
<b>Evaluation / risk of bias</b>	Hooijmans, C.R., Rovers, M.M., de Vries, R.B.M., Leenaars, M., Ritskes-Hoitinga, M. & Langendam, M.W. (2014). SYRCLE’s risk of bias tool for animal studies. <i>BMC Medical Research Methodology</i> . 14(43).	<a href="https://doi.org/10.1186/1471-2288-14-43">https://doi.org/10.1186/1471-2288-14-43</a>
	National Toxicology Program – Risk of Bias Tool	<a href="https://ntp.niehs.nih.gov/whatwestudy/assessments/noncancer/riskbias">https://ntp.niehs.nih.gov/whatwestudy/assessments/noncancer/riskbias</a>

<b>Extraction / characterisation</b>	Systematic Review Facility (SyRF)	<a href="https://syrf.org.uk">https://syrf.org.uk</a>
	DistillerSR	<a href="https://www.evidencepartners.com">https://www.evidencepartners.com</a>
	SR-Accelerator	<a href="https://sr-accelerator.com">https://sr-accelerator.com</a>
	Rayyan	<a href="https://www.rayyan.ai">https://www.rayyan.ai</a>
	Covidence	<a href="https://www.covidence.org">https://www.covidence.org</a>
<b>Grey literature</b>	Gray Literature Resources for Agriculture Evidence Syntheses	<a href="https://osf.io/s2tw3">https://osf.io/s2tw3</a>
	Veterinary Information Network (VIN)	<a href="https://www.vin.com">https://www.vin.com</a>
	International Veterinary Information Service (IVIS)	<a href="https://www.ivis.org">https://www.ivis.org</a>
	United States Animal Health Association (USAHA)	<a href="https://www.usaha.org">https://www.usaha.org</a>
	VetFolio (NAVC)	<a href="https://www.vetfolio.com">https://www.vetfolio.com</a>
	Searchable Proceedings of Animal Conferences (S-PAC)	<a href="https://spac.adsa.org">https://spac.adsa.org</a>