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## Short presentation

Jakob Willesen received his degree as Doctor of Veterinary Medicine (DVM) in 1999. Since year 2000 he has worked at the University Hospital for Companion Animals. In 2008 Jakob Willesen was awarded the PhD degree for his work with the French Heartworm (*Angiostrongylus vasorum*) in dogs.

Jakob Willesen's primary work and research are within the field of Internal Medicine in Companion Animals and comprises among others:

Clinical cardiology

Respiratory disease

Cardiopulmonary parasites

Jakob Willesen is also the editor of [www.kardiologi.ku.dk](http://www.kardiologi.ku.dk)

Potential conflict of interest:

Through our university employment we are often in collaboration with veterinary pharmaceutical companies. We have no personal or financial involvement in this projects.

As private person outside my activities at the university I do, on occasion, give lectures to dogs owners, veterinarians or companies as part of their training of employees.

## Employment

### Associate Professor

Section for Surgery, Neurology and Cardiology

Frederiksberg C

14 May 2000 → nu

### Associate Professor

Section for Surgery, Neurology and Cardiology

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15 May 2000 → nu

## Research outputs

### Clinical bleeding diathesis, laboratory haemostatic aberrations and survival in dogs infected with *Angiostrongylus vasorum* : 180 cases (2005-2019)

Thomsen, A. S., Petersen, M. P., Willesen, Jakob, Bach, Maiken Bayer Thode, Kieler, Ida Nordang, Kristensen, Annemarie T., Koch, Jørgen & Nielsen, Lise Nikolic, 2024, In: Journal of Small Animal Practice. 65, 4, p. 234-242

### Dirofilaria repens in a dog imported to Denmark: A potential for emerging zoonotic disease

Jensen, Asger Lundorff, Krogh, Anne Kirstine Havnsøe, Lundsgaard, J. F., Willesen, Jakob, Lyngby, Janne Graarup, Schrøder, Anders Simon, Bach, Maiken Bayer Thode & Berg, R. P. K. D., 2023, In: Veterinary Parasitology: Regional Studies and Reports. 41, 100872.

### Evaluation of cardiac troponin I as a predictor of death in critically ill cats

Pelander, L., Bach, Maiken Bayer Thode, Ljungvall, I., Willesen, Jakob, Koch, Jørgen, Dreimanis, K., Telling, A., Damsgard, R. M., Ohlsson, Å., Häggström, J. & Langhorn, Rebecca, 2023, In: Journal of Veterinary Internal Medicine. 37, 2, p. 403-411

**Epidemiology of heart disease in English Bull Terriers and echocardiographic characteristics of mitral valve abnormalities**  
Chompoosan, Chayanon, Schröder, A. S., Höllmer, M., Bach, Maiken Bayer Thode, Møgelvang, R., Willesen, Jakob, Langhorn, Rebecca & Koch, Jørgen, 2022, In: Journal of Small Animal Practice. 63, 5, p. 372-380 9 p.

**Hemostatic Dysfunction in Dogs Naturally Infected with *Angiostrongylus vasorum*—A Narrative Review**  
Willesen, Jakob, Langhorn, Rebecca & Nielsen, Lise Nikolic, 2022, In: Pathogens. 11, 2, 249.

**Non-invasive assessment of left ventricular relaxation property using color M-mode-derived intraventricular pressure gradients in cats**

Matsuura, K., Bach, Maiken Bayer Thode, Takahashi, K., Willesen, Jakob, Koch, Jørgen & Tanaka, R., 2022, In: Journal of Veterinary Cardiology. 41, p. 236-248

**Outcome clinical audit: Analyses of interventional closure of patent ductus arteriosus in dogs**

Martin, M., Pedro, B., Dickson, D., Neves, J., Harris, J., Martinez-Pereira, Y., Oliveira, M. I., Willesen, Jakob, Vatne, L., Culshaw, G. J. & Linney, C., 2022, In: Journal of Veterinary Cardiology. 43, p. 27-40 14 p.

**Detection of congestive heart failure by mitral annular displacement in cats with hypertrophic cardiomyopathy – concordance between tissue Doppler imaging–derived tissue tracking and M-mode**

Bach, Maiken Bayer Thode, Grevsen, J. R., Kiely, M. A. B., Willesen, Jakob & Koch, Jørgen, 2021, In: Journal of Veterinary Cardiology. 36, p. 153-168 16 p.

**Transthoracic two-dimensional and three-dimensional echocardiography for the measurement of mitral valve area planimetry in English Bull Terriers with and without heart disease**

Chompoosan, Chayanon, Schröder, A. S., Bach, Maiken Bayer Thode, Møgelvang, R., Willesen, Jakob, Langhorn, Rebecca & Koch, Jørgen, 2021, In: Journal of Veterinary Cardiology. 36, p. 169-179 11 p.

**Field safety and efficacy of an orally administered combination of sarolaner, moxidectin and pyrantel (Simparica Trio<sup>®</sup>) for the prevention of angiostrongylosis in dogs presented as veterinary patients**

Becksei, C., Willesen, Jakob, Schnyder, M., Wozniakiewicz, M., Miroshnikova, N. & Mahabir, S. P., 2020, In: Parasites and Vectors. 13, 1, 10 p., 385.

**Genome wide association study of 40 clinical measurements in eight dog breeds**

Momozawa, Y., Merveille, A. C., Battaille, G., Wiberg, M., Koch, Jørgen, Willesen, Jakob, Proschowsky, Helle Friis, Gouni, V., Chetboul, V., Tiret, L., Fredholm, Merete, Seppälä, E. H., Lohi, H., Georges, M. & Lequarré, A. S., 2020, In: Scientific Reports. 10, 6520.

**Malnutrition predisposes to endotoxin-induced edema and impaired inflammatory response in parenterally fed piglets**

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**Investigation into cardiovascular assessment of captive adult scarlet ibis (*Eudocimus ruber*)**

Perrin, K. L., Willesen, Jakob, Koch, Jørgen, Langhorn, Rebecca, Krogh, Anne Kirstine Havnsøe, Nielsen, Søren Saxmose & Bertelsen, Mads Frost, Mar 2019, In: Journal of Zoo and Wildlife Medicine. 50, 1, p. 190-198

**Thromboelastography-guided transfusion in dogs with hypocoagulable disorders: A case series**

Langhorn, Rebecca, Bochsén, L., Willesen, Jakob, Sørensen, Tina Møller & Kristensen, Annemarie T., 2019, In: Acta Veterinaria Scandinavica. 61, 1, 8 p., 35.

**A Virtual Veterinary Emergency Clinic: investigation of students perceptions and self-efficacy beliefs**

Langhorn, Rebecca, Bjørnvad, Charlotte Reinhard, Sandal, Anne Marie Fog, Willesen, Jakob, May, M. & Langebæk, Rikke, 2018, In: Dansk Universitetspaedagogisk Tidsskrift. 13, 25, p. 120-133 13 p., 25.

#### **Analytical validation of platelet microparticle quantification in cats**

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#### **Antibiotikavejledning til familiedyr**

Jessen, Lisbeth Rem, Damborg, Peter Panduro, Spohr, A., Goericke-Pesch, S., Langhorn, Rebecca, Houser, G., Willesen, Jakob, Schjærff, Mette, Eriksen, Thomas, Sørensen, Tina Møller, Jensen, V. F., Obling, F. & Guardabassi, Luca, 2018, 2 ed. Den Danske Dyrlægeforening. 67 p.

#### **Global Measurement of coagulation in plasma from healthy cats – a potential tool for detection of thrombosis**

Langhorn, Rebecca, Koch, Jørgen, Kristensen, Annemarie T., Willesen, Jakob, Graversen, N., Gravgaard, Anne Sofie & Nielsen, Lise Nikolic, 2018.

#### **Interbreed variation in serum serotonin (5-hydroxytryptamine) concentration in updates healthy dogs**

Hoglund, K., Haggstrom, J., Hanås, S., Merveille, A. -, Gouni, V., Wiberg, M., Willesen, Jakob, Mc Entee, K., Sorensen, L. M., Tired, L., Seppala, E. H., Lohi, H., Chetboul, V., Fredholm, Merete, Lequarre, A. - & Ljungvall, I., 2018, In: *Journal of Veterinary Cardiology*. 20, 4, p. 244-253

#### **Udredning og kirurgisk behandling: af en Cavalier King Charles-spaniel med et pulmonært fremmedlegeme**

Nielsen, Michelle Brønne Møller, Willesen, Jakob, Müller, Anna V, Poulsen, Helle Harding & Miles, James Edward, 2018, In: *Dansk Veterinaertidsskrift*. 2018, 8, p. 32-36 5 p.

#### **Left atrial volume and function in dogs with naturally occurring myxomatous mitral valve disease**

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#### **Occurrence and clinical significance of *Aelurostrongylus abstrusus* and other endoparasites in Danish cats**

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Cremer, Signe Emilie, Koch, Jørgen, Graversen, N., Gravgaard, Anne Sofie, Langhorn, Rebecca, Kristensen, Annemarie T., Willesen, Jakob & Nielsen, Lise Nikolic, 2017.

#### **Performance of the Angio Detect™ in-clinic test kit for detection of *Angiostrongylus vasorum* infection in dog samples from Europe**

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#### **Cardiology in the Ibis: Cardiac troponin I, echocardiology, and post-mortem lesions**

Perrin, K. L., Garner, M. M., Stidworthy, M. F., Langhorn, Rebecca, Willesen, Jakob, Koch, Jørgen & Bertelsen, Mads Frost, Jul 2016. 1 p.

#### **Prevalence of *Aelurostrongylus abstrusus* in Danish Cats**

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#### **Cardiac troponin I in three cat breeds with hypertrophic cardiomyopathy**

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#### **Comparison of four echocardiographic methods to determine left atrial size in dogs**

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**Cardiac troponins in dogs and cats**

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**The prevalence of the electrocardiographic J wave in the Petit Basset Griffon Vendéen compared to 10 different dog breeds**

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**Genotype-phenotype correlation between the cardiac myosin binding protein C mutation A31P and hypertrophic cardiomyopathy in a cohort of Maine Coon cats: a longitudinal study**

Granström, S. M. R., Godiksen, M. T. N., Christiansen, M., Pipper, C. B., Martinussen, Torben, Møgelvang, R., Søgaard, P., Willesen, Jakob & Koch, Jørgen, Dec 2015, In: Journal of Veterinary Cardiology. 17, Suppl. 1, p. S268-S281 14 p.

**Occurrence of *Aelurostrongylus abstrusus* (Railliet, 1898) in Danish cats: A modified lung digestion method for isolating adult worms**

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**The shepherds' tale: a genome-wide study across 9 dog breeds implicates two loci in the regulation of fructosamine serum concentration in Belgian shepherds**

Forsberg, S. K. G., Kierczak, M., Ljungvall, I., Merveille, A-C., Gouni, V., Wiberg, M., Willesen, J., Hanås, S., Lequarré, A-S., Mejer Sørensen, L., Tired, L., McEntee, K., Seppälä, E., Koch, J., Battaille, G., Lohi, H., Fredholm, M., Chetboul, V., Häggström, J., Carlborg, Ö. & 2 others, Lindblad-Toh, K. & Höglund, K., 2015, In: PLOS ONE. 10, 5, 17 p., e0123173.

**Occurrence of *Angiostrongylus vasorum* infections in dogs with a relevant clinical picture in Denmark**

Willesen, Jakob, Rahbek, C. & Koch, Jørgen, 5 Jul 2014. 1 p.

**Breed differences in natriuretic peptides in healthy dogs**

Sjöstrand, K., Wess, G., Ljungvall, I., Häggström, J., Merveille, A-C., Wiberg, M., Gouni, V., Willesen, J., Hanås, S., Lequarré, A-S., Sørensen, L. M., Wolf, J., Tired, L., Kierczak, M., Forsberg, S., McEntee, K., Battaille, G., Seppälä, E., Lindblad-Toh, K., Georges, M. & 4 others, Lohi, H., Chetboul, V., Fredholm, Merete & Höglund, K., 2014, In: Journal of Veterinary Internal Medicine. 28, 2, p. 451-457 7 p.

**Cardiac troponin I and T as prognostic markers in cats with hypertrophic cardiomyopathy**

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**Myocardial injury in dogs with snake envenomation and its relation to systemic inflammation**

Langhorn, Rebecca, Persson, F., Åblad, B., Goddard, A., Schoeman, J. P., Willesen, Jakob, Tarnow, I. & Kjelgaard-Hansen, M., 2014, In: Journal of Veterinary Emergency and Critical Care. 24, 2, p. 174-181 8 p.

**Prediction of long-term outcome by measurement of serum concentration of cardiac troponins in critically ill dogs with systemic inflammation**

Langhorn, Rebecca, Thawley, V., Oyama, M. A., King, L. G., Machen, M. C., Trafny, D. J., Willesen, Jakob, Tarnow, I. & Kjelgaard-Hansen, M., 2014, In: Journal of Veterinary Internal Medicine. 28, 5, p. 1492-1497 6 p.

**Angiostrongylus vasorum – an update from the experts**

Willesen, Jakob & Morgan, E. R., 5 Nov 2013.

**A coprological investigation of gastrointestinal and cardiopulmonary parasites in hunting dogs in Denmark**

Al-Sabi, M. M., Kapel, Christian, Agger, A. S. V., Espersen, M. C., Koch, Jørgen & Willesen, Jakob, 2013, In: *Veterinary Parasitology*. 196, 3-4, p. 366-372 7 p.

**Evaluation of a high-sensitivity assay for measurement of canine and feline serum cardiac troponin I**

Langhorn, Rebecca, Willesen, Jakob, Tarnow, I. & Kjelgaard-Hansen, M., 2013, In: *Veterinary Clinical Pathology*. 42, 4, p. 490-498 9 p.

**Left atrial volume and phasic function in clinically healthy dogs of 12 different breeds**

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**Prognostic importance of myocardial injury in critically ill dogs with systemic inflammation**

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**Spontaneous pneumothorax secondary to granulomatous pneumonia caused by *Angiostrongylus vasorum* in a dog in Denmark**

Spodsberg, E. H., Miles, James Edward, McEvoy, Fintan & Willesen, Jakob, 2013, In: *Journal of Small Animal Practice*. 54, 2, p. 114 1 p.

**The Belgian Shepherd's tale: genome-wide study across 9 dog breeds reveals an association of fructosamine concentration to a locus in Belgian Shepherds**

Forsberg, S., Kierczak, M., Merveille, A. C., Gouni, V., Ljungvall, I., Wiberg, M., Willesen, J., Hanås, S., Lequarré, A-S., Sørensen, L. M., Tiret, L., Momozawa, Y., McEntee, K., Seppälä, E., Koch, J., Battaille, G., Lohi, H., Fredholm, M., Georges, M., Chetboul, V. & 4 others, Hågström, J., Carlborg, Ö., Lindblad-Toh, K. & Höglund, K., 2013, *Welcome 2013: the 7th International Conference on Advances in Canine and Feline Genomics and Inherited Diseases*. p. 51

**Antibiotikavejledning til familiedyr**

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**Canine Cardiac Troponin I Significantly Complements Established Prognostic Composite Score In Dogs With Systemic Inflammation.**

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**Clinical implications of infection with a novel metastrongyloid species in the red panda (*Ailurus fulgens*)**

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**Effect of sample volume size and sampling method on feline longitudinal myocardial velocity profiles from color tissue Doppler imaging**

Granström, S. M. R., Pipper, C. B., Møgelvang, R., Sogaard, P., Willesen, Jakob & Koch, J., 2012, In: *Journal of Veterinary Cardiology*. 14, 4, p. 479-488 10 p.

**Prevalence of respiratory signs and identification of risk factors for respiratory morbidity in Swedish Yorkshire terriers**

Madsen, M. F., Toft, N., Houe, Hans, Granström, S. M. R., Willesen, Jakob & Koch, Jørgen, 2012, In: *Veterinary Record*. 170, 565, 5 p.

**Acute neurological signs as the predominant clinical manifestation in four dogs with *Angiostrongylus vasorum* infections in Denmark**

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**Prevalence of hypertrophic cardiomyopathy in a cohort of British shorthair cats in Denmark**

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**Occurrence of Hypertrophic Cardiomyopathy in a Large Cohort of British Shorthair Cats**

Granström, S. M. R., Godiksen, M. T. N., Christiansen, M., Willesen, Jakob & Koch, Jørgen, 10 Jun 2010. 1 p.

**Diversity and prevalence of metastrongyloid nematodes infecting the red panda (*Ailurus fulgens*) in European zoos**

Bertelsen, M. F., Meyland-Smith, F., Willesen, Jakob, Jefferies, R., Morgan, E. R. & Monrad, J., 2010, In: Veterinary Parasitology. 172, 3-4, p. 299-304 6 p.

**Elucidating the spread of emerging canid nematode *Angiostrongylus vasorum* between palaeartic and nearctic ecozones**

Jefferies, R., Shaw, S. E., Willesen, Jakob, Viney, M. E. & Morgan, E. R., 2010, In: Infection, Genetics and Evolution. 10, 4, p. 561-568 8 p.

**Evaluering og revidering af "Klinisk basiskursus" for veterinære bachelorstuderende, LIFE, KU**

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**PCR detection of *Angiostrongylus vasorum* in faecal samples of dogs and foxes**

Al-Sabi, M. M., Deplazes, P., Webster, P., Willesen, Jakob, Davidson, R. K. & Kapel, Christian, 2010, In: Parasitology Research. 107, 1, p. 135-140 6 p.

**Canine pulmonary angiostrongylosis: an update**

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**Companion animal lungworms - treatment options**

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**Haematological and biochemical changes in dogs naturally infected with *Angiostrongylus vasorum* before and after treatment**

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**Quantitative computed tomography evaluation of pulmonary disease**

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**Acute haemoabdomen associated with *Angiostrongylus vasorum* infection in a dog: a case report**

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***Angiostrongylus vasorum* in dogs: clinicopathologic, diagnostic, therapeutic and prognostic aspects**

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**Aortic stenosis in the Dogue de Bordeaux**

Höllmer, M., Willesen, Jakob, Tolver, Anders & Koch, Jørgen, 2008, In: Journal of Small Animal Practice. 49, 9, p. 432-437 6 p.

**Detection of infection with *Angiostrongylus vasorum* (Nematoda, Strongylida) by PCR**

Al-Sabi, M. M., Webster, P., Willesen, Jakob, Deplazes, P., Mathis, A. & Kapel, Christian, 2008, *NKVet Symposium 2008: Parasite infections of domestic animals in the Nordic countries: Emerging threats and challenges*. p. 25 1 p.

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**Efficacy of imidacloprid 10 per cent/moxidectin 2-5 per cent spot-on in the treatment of cheyletiellosis in dogs**

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**Canine angiostrongylosis - an emerging snail-borne disease**

Koch, Jørgen & Willesen, Jakob, 2007. 2 p.

**Efficacy and safety of imidacloprid/moxidectin spot-on solution and fenbendazole in the treatment of dogs naturally infected with *Angiostrongylus vasorum* (Baillet, 1866)**

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**Measurement of serum interleukin-10 in the dog**

Kjelgaard-Hansen, M. J., Luntang-Jensen, M., Willesen, Jakob & Jensen, Asger Lundorff, 2007, In: *Veterinary Journal*. 173, 2, p. 361-365 5 p.

**The use of imidacloprid/moxidectin spot-on in the treatment of canine angiostrongylosis**

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**Hematological changes in 42 dogs naturally infected with *Angiostrongylus vasorum***

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**Serum fructosamine concentrations in 59 dogs naturally infected with *Angiostrongylus vasorum***

Willesen, Jakob, Jensen, Asger Lundorff, Kristensen, Annemarie T., Kjelgaard-Hansen, M. J., Jessen, R. & Koch, Jørgen, 2006, In: *Transboundary and Emerging Diseases*. 53, 5, p. 266-269 4 p.

***Angiostrongylus vasorum* (french heartworm) in dogs - epidemiological and clinical aspects**

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**Serum fructosamine concentrations in 59 dogs naturally infected with *Angiostrongylus vasorum*.**

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**Dansk angiostrongylus multicenter studie (DAM studiet): et klinisk multicenter behandlingsstudie af angiostrongylose hos hund**

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### **Hjerteorm hos hund: et stigende og alvorligt problem i Danmark**

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### **Tidlig diagnostik af *Angiostrongylus vasorum* (fransk hjerteorm) og *Crenosoma vulpis* (rævens lungeorm) hos hunde er mulig ved hjælp af modificeret Baermann test**

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## **Activities**

### **Fransk hjerteorm (*Angiostrongylus vasorum*) hos hund - en parasit med "Licens to kill"**

Willesen, Jakob (Lecturer)

26 Sep 2014

### **Occurrence of *Angiostrongylus vasorum* infections in dogs with a relevant clinical picture in Denmark.**

Willesen, Jakob (Lecturer)

3 Jul 2014

### **3rd International *Angiostrongylus vasorum* symposium**

Willesen, Jakob (Speaker)

2 Jul 2014 → 4 Jul 2014

### **ACVIM**

Willesen, Jakob (Speaker)

4 Jun 2014 → 7 Jun 2014

### ***Angiostrongylus vasorum* - what is it and why you should worried**

Willesen, Jakob (Lecturer)

4 Jun 2014 → 7 Jun 2014

### ***Angiostrongylus vasorum* - why care in Scandinavia?**

Willesen, Jakob (Lecturer)

May 2014

### **BSAVA**

Willesen, Jakob (Speaker)

3 Apr 2014 → 6 Apr 2014

### **BSAVA**

Willesen, Jakob (Speaker)

3 Apr 2014 → 6 Apr 2014

### **Kardiopulmonære nematoder hos hund og kat**

Willesen, Jakob (Lecturer)

Mar 2014

### ***Angiostrongylus vasorum* in dogs - new insights in our diagnostik approach**

Willesen, Jakob (Lecturer)

Dec 2013

### **Alminnelige sygdomme hos vores hunde i familien**

Willesen, Jakob (Lecturer)

Oct 2013



**Angiostrongylose hos hund**

Willesen, Jakob (Lecturer)

May 2013

**Angiostrongylose hos hund**

Willesen, Jakob (Lecturer)

Apr 2013

**ACVIM**

Willesen, Jakob (Participant)

Jun 2010 → ...

**Companion animal lungworms - treatment options**

Willesen, Jakob (Lecturer)

13 Nov 2009

**Angiostrongylus vasorum.: - en update.**

Willesen, Jakob (Lecturer)

11 Nov 2005

**Respiratoriske Sygdomme hos hund og kat.**

Willesen, Jakob (Participant)

16 Sep 2005 → 14 Oct 2005

**Fransk hjerteorm.: - Hvad skal man vide som hundeejer?**

Willesen, Jakob (Lecturer)

5 Sep 2005

**Kardiopulmonære nematoder hos hund.**

Willesen, Jakob (Lecturer)

27 May 2005

**Fransk hjerteorm.: - Hvad skal man vide som veterinærsygeplejerske?**

Willesen, Jakob (Lecturer)

18 May 2005

**Anatomi, sygdomslære og akut førstehjælp - artiske forhold.: - Foredrag ved uddannelse af Siriuspatruljen.**

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29 Apr 2005

**Angiostrongylus vasorum hos hund.**

Willesen, Jakob (Lecturer)

15 Mar 2005

**Fransk hjerteorm.: - Hvad skal man vide som hundeejer?**

Willesen, Jakob (Lecturer)

18 Feb 2005

**Parasitære kardiopulmonære infektioner og deres terapi.: For salgspersonale og Veterinærekonsulenter i Bayer A/S.**

Willesen, Jakob (Lecturer)

5 Feb 2005

## Press/Media

**DR2 temaaften om hunde.: TV indslag om Fransk Hjerterorm.**

Jakob Willesen

12/03/2005

1 Media contribution

## **Parasit truer hundes helbred**

Jakob Willesen

26/11/2005

1 Media contribution

2023	Lorem ipsum dolor sit amet
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2020	Lorem ipsum dolor sit amet
2019	Lorem ipsum dolor sit amet
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