

GILAD SEGEV

CURRICULUM VITAE

1. Higher Education:

1993 - 1996 - Bachelor of Science (B.Sc.) Biology. The Hebrew University of Jerusalem.

1996 - 2000 - Doctor of Veterinary Medicine (DVM). Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Israel.

2000 - 2001 - Rotating Internship in Small Animal Internal Medicine and Surgery. Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem.

2002 - 2005 – Diplomate of the European College of Veterinary Internal Medicine (companion - animals). Residency in Small Animal Internal Medicine. Koret School of Veterinary Medicine, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem. Supervisors: Dr. Itamar Aroch, Dr. Hylton Bark (5a, #1, 2, 3, 4, 5, 6, 7, 8, 9).

2005- 2007 - Post-doctoral fellowship in Nephrology and Hemodialysis at the School of Veterinary Medicine, University of California - Davis, Dept. of Medicine and Epidemiology. Host: Prof. Cowgill (5a, #10, 14, 5b, #1, 3).

2. Appointments at the Hebrew University:

Sep 2007 – July 2012: **Clinical Lecturer**, the Veterinary Teaching Hospital of the Koret School of Veterinary Medicine, Robert H. Smith Faculty of Agriculture, Food and Environment.

July 2012: **Senior Lecturer**, the Veterinary Teaching Hospital of the Koret School of Veterinary Medicine, Robert H. Smith Faculty of Agriculture, Food and Environment.

December 2017: **Associate professor**, the Veterinary Teaching Hospital of the Koret School of Veterinary Medicine, Robert H. Smith Faculty of Agriculture, Food and Environment.

3. Additional Functions/Tasks at the Hebrew University:

2007 - Present - Member of the Interns and Residents Committee, Veterinary
Teaching Hospital

2007 - Present - Member of the 3rd Year Committee, Koret School of Veterinary
Medicine

2007 - Present - Member of the Curriculum Committee, Koret School of Veterinary
Medicine

2007 - 2011 - Head, 2nd Year Committee, Koret School of Veterinary Medicine

2007 - 2011 – Member of the Continuing Education Committee, Koret School of
Veterinary Medicine

2009 - Present - Head, Department of Small Animal Internal Medicine, Veterinary
Teaching Hospital

2011 - 2018 - Head, 4th Year Committee, Koret School of Veterinary Medicine

2014 – 2015 – Head, curriculum committee

2018 – present Head, curriculum committee

4. Service in other Academic and Research Institutions: none**5. Other Activities:****5a. Editorial and reviewing activities:**

Reviewing of manuscripts for the following scientific journals:

American Journal of Veterinary Medicine.
 Canadian Veterinary Journal
 Israel Journal of Veterinary Medicine
 Journal of Feline Medicine and Surgery
 Journal of Small Animal Practice
 Journal of Veterinary Emergency and Critical Care
 Journal of Veterinary Internal Medicine
 Journal of Veterinary Science & Medical Diagnosis
 PLoS one
 Renal Failure
 The Veterinary Journal
 The Veterinary Record
 Veterinary Clinical Pathology
 Veterinary Medicine International
 Veterinary Quarterly
 Veterinary Radiology and Ultrasounds
 Research in Veterinary Science
 Frontiers in medicine

2010 – 2014 – Member of the Examination Committee (Internal Medicine), European
 College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA)

2010 – Present – Member of the Editorial Board, Israel Journal of Veterinary
 Medicine.

2012 – Present – board member, the European Society of Nephrology and Urology

2012 – 2014 – Member of the Ethics Committee of the Veterinary Services, Israel

2012 – Present – Member of the KSVM award committee

2012 – 2016 – Member of the Kennel Club Award Committee

2014 – 2016 – Head, of the Examination Committee (Internal Medicine), European
 College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA)

2015 – Present – Faculty member of the International Hemodialysis Academy

2016 – Present – Board member of the International Renal Interest Society.

2017 – Head of the examination committee – Israeli Veterinary License Examination

5b. Membership in Professional Societies:

2006 – Present - European Society of Veterinary Internal Medicine (ESVIM)

2006 – Present - European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA)

2006 – Present: American Society of Nephrology and Neurology

2008 – Present: European Society of Nephrology and Urology

5c. Academic Awards:

2000 - Dean's award and full scholarship for outstanding students, based on third year achievements

2004-2005 - Ranked as one of the best teachers at the Robert H. Smith Faculty of Agriculture, Food and Environment

2009 - International Renal Interest Society award for outstanding fundamental or clinical research performed in the field of veterinary nephrology

2010-2011 - Ranked as one of the best teachers at the Robert H. Smith Faculty of Agriculture, Food and Environment

2013-2014 - Ranked as one of the best teachers at the Robert H. Smith Faculty of Agriculture, Food and Environment

2014-2015 - Ranked as one of the best teachers at the Robert H. Smith Faculty of Agriculture, Food and Environment

6. Research Grants:

2004 - Grant from the Hebrew University's Veterinary Teaching Hospital. Title: Cardiac arrhythmias and serum cardiac troponins in *Vipera palaestinae* envenomation in dogs, Gilad Segev (PI), Dan Ohad (CI), Itamar Aroch (CI). NIS 10,000/10,000, (5a, #9)

2008 - Grant from the Hebrew University's Veterinary Teaching Hospital. Title: The influence of single and prolonged treatment with Phenylpropanolamine on the systemic blood pressure and heart rate in dogs, Gilad Segev (PI), Eran Lavy (CI). NIS 10,000/10,000, (#50)

2009 – Grant from the European College of Veterinary Internal Medicine. Title: Evaluation of fenoldopam-mesylate as a renoprotective drug in heatstroke-induced

acute kidney injury in dogs, collaborators: Gilad Segev (PI) Yaron Bruchim (CI), Itamar Aroch (CI) Euro 10,000/10,000 (#55)

2009 - Grant from the International Renal Interest Society for outstanding fundamental and clinical research in the field of nephrology, Gilad Segev (PI) \$15000/15000, (#62)

2011 - Koret Foundation, Davis. Evaluation of Urinary NGAL and Urinary KIM-1 ELISA and Rena-strip for Early Detection of Acute Kidney Injury in Dogs, Gilad Segev, Carrie Palm (CI) \$15000/30000, (#36, 59, 61)

2011 - Grant from the Hebrew University's Veterinary Teaching Hospital. Title: the effect of chronic kidney disease on the skeleton of dogs, Gilad Segev (PI), Anna Shipov NIS 10000/20000, (#46, 75)

2011 - Grant from the Hebrew University's Veterinary Teaching Hospital. Title: Protein C Activity Levels as a Diagnostic and Prognostic Tool in Dogs with Naturally Occurring Heatstroke, Gil Hadar (PI), Gilad Segev (CI), Efrat Kelmer (CI), Yaron Bruchim (CI), Itamar Aroch (PI) NIS 4000/20000, (#43)

2011 - Seed Money, Yisum, Hebrew University. Novel Means of Prevention of Catheter Related Urinary Tract Infections Using Coated Urinary Catheters with Sustained Release Varnish. Eran Lavy (PI), Doron Stenberg, Michael Friedman (CI) Gilad Segev (PI) \$15000/60000, (#28)

2011 - Bayer - Evaluation of Advocate for treatment of *Spirocerca lupi* infection in dogs - a double-blinded placebo-controlled clinical trial. Gilad Segev (PI), Itamar Aroch (CI), Eran Lavy (CI), Gad Baneth (PI). \$55000/60000, (#52)

2013 - The Hebrew University Veterinary Teaching Hospital. Hypoalbuminemia and protein losing enteropathy in dogs with congestive heart failure. Sharon Kuzi (PI), Dan Ohad (C), Yael Golani (C), Gilad Segev (PI). NIS 6575/26300

2013 - Center of companion animal health (CCAH) ,UC Davis. Heat stress response and endothelial biomarkers in dogs with naturally occurring heatstroke. Yaron Bruchim, Michal Horowitz, Itamar Aroch, Gilad Segev, Dr. Matt Mellema. \$ 6000/24000

2014 - Center of companion animal health (CCAH), UC Davis. Evaluation of the Live Biotherapeutic Product, Asymptomatic Bacteriuria, E. coli 2-12, In Dogs with Recurrent UTI. Gilad Segev (PI), Jodi W. Westropp (PI) Jane E. Sykes (C), Polina Vishkautsan, (C) Jamie Peyton (C), David Klumpp (C), Anthony Schaeffer (C), \$15000/30000 (#73)

2015 - HUJI-FUB Joint Seed Money. Evaluation of Sustained release Varnish of Chlorhexidine or a novel polymeric coating to prevent Catheter Associated Biofilm formation and Catheter Associated Urinary Tract Infection. Gilad Segev (PI), Anna Gorbushina (C) Barbara Kohn, (C) Eran Lavi (PI). Euro 5000/10000.

2016 - Hebrew University Veterinary Teaching Hospital. Evaluation of paracalcitol in the management in secondary hyperparathyroidism in cats. Gilad Segev (PI) Michal Mazaki Tovi (PI). 9980/19960 NIS.

2016- BioChange. Evaluation of a novel bulking agent in the management of Primary Sphincter Mechanism Incompetence in dogs. Gilad Segev (PI) NIS 67600.

2016 - Hebrew University's Veterinary Teaching Hospital. Evaluation of BCG in the management of transitional cell carcinoma in dogs. Itzik Lenchner (PI), Dank Gilian (C), Daniel Barkan (C), Gilad Segev (PI) NIS 9600/19200.

2016 - Grant from Hill's pet nutrition. Evaluation of paracalcitol in the management in secondary hyperparathyroidism in cats. Gilad Segev (PI) Michal Mazaki Tovi (PI). NIS 5000/10000.

2016 - Grant from IDEXX laboratories. Evaluation of urinary clusterin as a marker of progression rate in dogs and cats with chronic kidney diseases. Gilad Segev (PI), \$ 6300/6300

2017 - Grant from the Technology and Logistics Division, IDF. Prognostic markers of heat injury, Ran Yankovitz (PI), Michal Horvitz (C), Yaron Bruchim, (C), Segev Gilad (C) Chagai Sherman (C). NIS 75000/300000

2017 - Grant from the European Collage of Veterinary Emergency and Critical Care Serum histones as biomarkers of insult severity in dogs with septic peritonitis. Yaron

Bruchim (PI), Karin Weiss (S), Gilad Segev (C), Itamar Aroch (C), Michal Horowitz (PI) \$ 2000/10000

2017 - Hebrew University's Veterinary Teaching Hospital. Interleukin-6 and interleukin-18 as biomarkers for acute kidney injury in cats. Gilad Segev (PI), Hilla Chen (resident) NIS 19800 /19800

2017 - Hebrew University's Veterinary Teaching Hospital. Characterization of kidney injury using two novel renal biomarkers in dogs and cats with naturally occurring Congestive Heart Failure. Ohad Dan (PI) Sigal Klainbart (C) Gilad Segev (PI), Efrat Kelmer (PI) NIS 4500 /18000

2017 - Grant from the European Collage of Veterinary Internal Medicine Urinary alkaline phosphatase, γ -glutamyl transpeptidase, heat-shock protein 72, interleukin-6 and interleukin-18 as diagnostic biomarkers of acute kidney injury and outcome in dogs. Gilad Segev (PI), Itamar Aoch (C), Ran Nivy (PI) 10470/20,940 euro

2018 – Center of Companion Animal Health (CAAH). Westropp, J. (PI) Sykes, J. (C) Segev, G (PI) Evaluation of the Efficacy of A Live E. coli Biotherapeutic Product for Recurrent and Multidrug Resistant Canine UTI \$14,457.5/28,915

2019 - Hebrew University's Veterinary Teaching Hospital. Kushnir, Y. (PI), Nivy, R., Mazaki-Tovi, M. (C), Epstein, A (C). Segev S. (PI). Utility of perioperative intravenous mannitol infusion for acute kidney injury prevention – a prospective, randomized, positive-controlled study. 10,000/20,000 NIS.

2019 - Hebrew University's Veterinary Teaching Hospital. Kidney injury following NSAID administration.. Gilad Segev (PI), Chen Berger (C) Anna Shipov (PI) NIS 10,000/20,000

2019- Morris Animal Foundation Evaluation of the Efficacy of A Live E. coli Biotherapeutic Product (ASB212) for Recurrent and Multidrug Resistant Canine UTI. Jodi Westropp (PI), Davis Klumpp (C), Schaeffer, Anthony (C), Gilad Segev \$ 60500/121,000

IDEXX – prevalence of kidney injury using novel biomarkers in dogs receiving NSAID. Gilad Segev (PI), Anna Shipov (PI) \$ 17620/35240

Purina. Determination of the effect of Paricalcitol on attenuating renal hyperparathyroidism and proteinuria in canine chronic kidney disease Chen H (PI), Segev G (PI) Mazaki-Tovi M (C) €1000/5,775

Hebrew University's Veterinary Teaching Hospital Rhabdomyolysis and acute kidney injury in cats suffering aortic thromboembolism Klainbart S Segev G Kelmer E 20000NIS

7. Teaching at the Hebrew University:

7a) Supervision of Master's and doctoral degree students:

Oct 2015 – December 2018. Dr Yochai Avital, Master's degree student. Title– evaluation of novel renal biomarkers for the diagnosis of kidney injury

Oct 2015 – January 2019. Tal Yaaran Master's degree student. Title – Molecular Detection of naturally-occurring canine Parvo virus infection and evaluation of virus shedding in vaccinated dogs

Nov 2016 - Present. Yasmin Toledano. Master's degree student. Title – clinical and microbial characterization of urinary catheters coated with sustained released antiseptic and antibiofilm substances.

Supervision of final thesis DVM students

2008 – Completed. Sharon Jessen. Canine Renal Amyloidosis. Co-supervisor: Dr Itamar Aroch. Publication #22

2008 – Completed. Segev Dishon. Systemic analgesic effects of intravenous lidocaine as a constant rate infusion in canine parvovirus infection. Co-supervisors: Dr Ana Epstein, Dr Yael Shilo.

2009 – Completed. Ran Nivy. A retrospective study of acute uremia in cats and development of a novel clinical scoring system for outcome prediction in cats with acute uremia managed by hemodialysis. Publication #34

- 2010 – Completed. Hofit Livne. Predisposing factors and characterization of obstructive feline lower urinary tract disease. Co-supervisor: Dr. Eran Lavy. Publication #18
- 2010 – Completed. Liron Sapir. A Retrospective Study of the clinical outcome of canine hepatic lymphoma. Co-supervisor: Dr. Gillian Dank. Publication #17
- 2010 – Completed. Shira Ben Halevy. Evaluation of Lidocaine treatment in reperfusion injury associated with gastric dilatation and volvulus in dogs. Co-supervisor: Dr. Yaron Bruchim. Publication #21
- 2010 – Completed. Hagar Meltzer. The effect of chronic kidney disease on the skeleton of cats. Co-supervisors: Dr. Ron Shahar, Dr. Anna Shipov. Publication #46
- 2010 – Completed. Michal Savoray. Retrospective study of canine heatstroke and development of quantitative scoring system for outcome prediction. Co-supervisor: Dr. Yaron Bruchim. Publication #51
- 2010 – Completed. Chen Kulik. The influence of single and prolonged treatment with Phenylpropanolamine on the systemic blood pressure and heart rate in dogs. Publication #50
- 2010 – Completed. Tal Bankirer. Prevention of Catheter Related Urinary Tract Infections Using Urinary Catheters Coated with Antiseptic Material– In vivo study. Co-supervisor: Dr. Eran Lavy. Publication #28
- 2011 – Completed. Omer Barak. Effect of chlorhexidine in preventing biofilm formation and urinary tract infection in dogs. Co-supervisor: Dr. Eran Lavy.
- 2011 – Completed. Noam Sugar. The effect of chronic kidney disease on the skeleton of dogs. Co-supervisors: Dr. Ron Shahar, Dr. Anna Shipov. Publication: Publication #75.
- 2011 – Completed. Alon Siso. Indications and short-term outcome of dogs and cats undergoing positive pressure ventilation. Publication #39

- 2011 – Completed. Adar Cohen. Evaluation of fenoldopam-mesylate as a renoprotective drug in dogs with heatstroke. A prospective, placebo controlled clinical trial. Publication #55
- 2012 – Completed. Shai Cohen. Hepatic lipidosis in cats. A retrospective study. . Co-supervisors: Dr Ron Shahar. Publication #71
- 2013 - Completed. Miriam Ibrahim Construction of a Clinical Index for Early Identification of Horses with High Risk of Mortality or Complications Following Colic Surgery. Co-supervisor: Dr. Gila Suton.
- 2014 – Completed. Adi Avishai. Evaluation of quality of life of both, dogs with skin diseases and their owners in comparison to dogs with chronic internal disease and their owners.
- 2014 – Completed. Shira Burg. Characterization and evaluation of risk factors for urinary tract infection in dogs.
- 2014 – Completed. Noga Berl. Characterization of acute kidney injury in dogs with heatstroke and evaluation of fenoldopan in the management of AKI in these patients. # 77
- 2014 – Completed. Moran Milrad. The Effect of Chronic Kidney Disease on the Morphometric Characteristics and Mineral content of the Cancellous and Cortical Bone in the Cat. Co supervisors: Anna Shipov, Ron Shahar. Publication #46
- 2015 – In progress. Hila Sela. Cardiorenal syndrome in cats. Co-supervisor: Dan Ohad.
- 2015 – Completed. Iris Cohen. Serum cholesterol levels in dogs after a snake bite of *Vipera palaestinae* as a potential marker of envenomation's severity. Co-supervisors: Sigal Klainbart, Itamar Aroch
- 2015 – Competed. Naama Katz: Evaluation of a scoring system for dogs with *Vipera palaestinae* envenomations. Co-supervisor: Yaron Bruchim.
- 2015 – Competed. Nitsan Shalev. The effect of surgery on D-dimer levels in Canines. Co-supervisor: Anna Shipov. Publication #74

- 2016 – Completed. Mali Bar Natan. Incidence of adverse effects following hydroxyethyl starch administration in dogs and cats treated in the Hebrew University Teaching Hospital between the years 2003-2016: a retrospective study. Co-supervisor: Yaron Bruchim.
- 2016 – Completed. Yan Lavy. Evaluation of novel kidney biomarkers for the diagnosis of AKI in dogs.
- 2016 –Completed. Sapir Nahum. Evaluation of novel kidney biomarkers for the diagnosis of AKI in cats.
- 2016 – In progress. Guy Harel. Evaluation of pharmacokinetics of penicillins in dogs with decreased kidney function. Co-supervisor: Eran Lavy.
- 2016- Completed. Meriam Ibrahim. Construction of a Clinical Index for Early Identification of Horses with High Risk of Mortality or Complications Following Colic Surgery. Co-supervisor: Gila Sutton
- 2017 – Completed - Mai Shimoni. Evaluation of quality of life of both, dogs with allergies and their owners, in comparison to dogs with other skin diseases and their owners
- 2018 – In progress. Daniel Musseri. Evaluation of the prognosis of dogs with acute on chronic kidney injury.
- 2018 – In progress. Naama Appelbaum. Markers of progression rate in cats with chronic kidney disease.
- 2018 – In progress. Arad Hadar. Evaluation of the prognostic factors in cats with chronic kidney injury.
- 2019 – In progress. Netanel Haim. Urinary alkaline phosphatase, γ -glutamyl transpeptidase, heat-shock protein 72, interleukin-6 and interleukin-18 as diagnostic biomarkers of acute kidney injury and outcome in dogs - a prospective study
- 2019 – In progress. Lotem Marom. Daily variations of renal biomarkers in dogs with stable CKD. Co-supervisor: Hilla Chen

2019 – In progress. Gross Ziv. Occurrence of inflammatory bowel disease in dogs with Parvovirus infection. Co-supervisor: Gila Sutton

2019 – In progress. Daniel Dorfma Tikva. Utility of perioperative intravenous mannitol infusion for acute kidney injury prevention. Co-supervisors: Ran Nivy, Ishai Kushnir.

2019 – In Progress. Dana Adlersber. The association between serum pancreatic lipase concentration and the severity of clinical disease and survival rate in dogs with acute or chronic pancreatitis. Co-supervisors: Sharon Kuzi

7b) Post-doctoral Fellows and Visitors (6 months or longer): None

7c1) Courses previously taught by Candidate:

2002 – 2005 - Clinical Methods (Course 65824). Three hours wet lab, 1st year students.

2002 – 2005 - Veterinary Physiology (Course 65703), 9 hours lectures, 1st year students

2003 – 2005 - Veterinary Clinical Pathology (Course 65732), 3 hours lectures, 2nd year students.

2006 – Handling class (Course 925). 9 hours wet lab, 3rd year students, UC Davis.

7c2) Courses taught by Candidate:

2000 – Present – Clinical Small Animal Medicine (65763); 4th year Veterinary Medicine, 8 hours/day, 12 month/year, when on clinics.

2007 - Present – Veterinary Clinical Pathology (Course 65732), 4 hours lectures, 2nd year students.

2007 – Present - Elective internal medicine course (Course 65831), 4 hours lectures, 2nd year students.

2009 – Present– Small Animal Internal Medicine A or B (65741 or 65750 organization between course parts changed over the years); 3rd year students. 14 hours lectures.

2010 – Present - Veterinary Physiology (65703); 6 hours lectures, 2nd year students.

Residency (specialization) supervisor in Small Animal Internal Medicine, European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA, Internal Medicine)

1. Dr. Ran Nivy (2008)
2. Dr Jenifer Ben Oz (2008)
3. Dr Hila Chen (2016)
4. Dr Dar Rimer (2018)
5. Dr Asia Dan (2018)

8. Clinical responsibilities:

- Primary responsibility for patients hospitalized in the internal medicine department ward.
- Admission of referral cases and work-up of internal medicine patients.
- Supervision of 4th year students and interns at the veterinary teaching hospital.
- Management of morning rounds and tutoring of case presentations and student seminars.
- Duties at the Emergency and Intensive Care Unit at the Veterinary Teaching Hospital
- January 2009- Department head, Small Animal Internal Medicine
- Course coordinator - Small Animal Internal Medicine – 65750

LIST OF PUBLICATIONS

Legend:

PI – Principal Investigator; C – Co-researcher; S – Student; T – Technician.

Numbers at the end of each item denote the impact factor; ranking of the journal in its specific field; and the number of citations (excluding self-citations).

* three key articles in recent years

1. Doctoral Dissertation:

None

2. Books:

None

3. Books Edited:

None

4. Chapters in Collections:

1. G. Segev. (2010). Proteinuria. In: Ettinger, S. and Feldman, E. (Eds.) Textbook of Veterinary Internal Medicine. Elsevir. PP 169-171.
2. G. Segev. (2010). Prognosis of acute renal failure. In: Bartges, J. and Polzin, D. (Eds). Nephrology and Urology of Small Animals. Blackwell Publishing Ltd. PP 524-527.
3. G. Segev. (2010). Diseases of the Ureter. Nephrology and Urology of Small Animals. Eds. Bartges, J. and Polzin, D. Blackwell Publishing Ltd. PP 583-590.
4. G. Segev. (2015). Familial and Congenital Renal Diseases of Cats and Dogs In: Ettinger, S. Feldman, E. and Cote (Eds.) Textbook of Veterinary Internal Medicine, 8th Ed. Elsevier. pp, 4784-4792
5. G. Segev. (2017). Measurement of blood pressure in dogs and cats BSAVA Manual of Canine and Feline Nephrology and Urology, 3rd. Editors: Jonathan Elliot, Gregory Grauer and Jodi Westropp. Elsevier, pp, 175-185
6. G. Segev. (In press). Management of UTI Chronic Disease. In: Management for Small Animals. Editors: W. Dunbar Gram, Rowan J. Milner, Remo Lobetti.
7. G. Segev. (In press). Management of CKD. Management of UTI. In: Chronic Disease Management for Small Animals. Editors: W. Dunbar Gram, Rowan J. Milner, Remo Lobetti.

Review Articles

1. **Segev, G.^{PI}** (2012) Outcome prediction of acute kidney injury in dogs and cats. Israel J Vet Med. (invited review) 66: 82-88. 0.293; 117/137 (veterinary science); (0)
2. **Segev, G.^{PI}**, Shipov A. ^{PI} (2013) Ureteral Obstruction in Dogs and Cats. Israel J Vet Med. (invited review). 68:71-77 0.293; 117/137 (veterinary science); (1)
3. **Segev, G.^{PI}**, Cowgill, LD.^C, Heiene, R.^C, Labato, M.A.^C, Polzin, DJ. ^{PI} (2013) Consensus Recommendations for Immunosuppressive Treatment of Dogs with Glomerular Disease Based on Established Pathology. J Vet Intern Med. Suppl 1:S44-S54; 1.821; 18/137 (veterinary science); (3).
4. **Segev, G.^{PI}**, Meltzer, H.^S, Shipov, A.^{PI} (2016) Does Secondary Renal Osteopathy Exist in Companion Animals? Vet Clin North Am Small Anim Pract. 46:1151-62 1.049; 54/137 (veterinary science); (0).
5. Cowgill L.D.^C, Polzin DJ, ^C Elliott, J.^C, Nabity, M.B.^C, **Segev G,^C**, Grauer G.F. ^C, Brown S. ^C, Langston, C.^C, van Dongen A.M.C (2016) Is Progressive Chronic Kidney Disease a Slow Acute Kidney Injury? Vet Clin North Am Small Anim Pract. 46:995-1013 1.049; 54/137 (veterinary science); (0).
6. Chen, H. ^{PI}, Avital, Y.^S **Segev G.^{PI}** (2017) Markers of acute kidney injury. Israel J Vet Med. (invited review). 68:71-77 0.293; 117/137 (veterinary science); (0)

5. Articles:**5a. Research articles in peer reviewed journals**

1. **Segev, G.^{PI}**, Baneth G.^C, Levitin, B.^C, Shlosberg, A.^C and Aroch, I. ^C (2004). Ionophore poisoning with a high mortality in 17 dogs caused by the accidental lasalocid contamination of a commercial dog food. Vet Rec. 7: 174-176. 1.741; 22/137 (veterinary science); (11).
2. **Segev, G.^{PI}**, Shipov, A.^C, Harrus, S.^C, Klement, E.^C, Kass, P.^C and Aroch, I.^C (2004). *Vipera palaestinae* envenomation in 327 dogs: a retrospective cohort study & analysis of risk factors for mortality. Toxicol. 43: 691-699; 2.309; 42/90 (Toxicology); (27).
3. Aroch, I.^{PI}, Klement, E.^C and **Segev, G.^C** (2004). Clinical, biochemical and hematological characteristics, disease prevalence and prognosis of dogs presenting cytoplasmic neutrophil toxicity. J Vet Intern Med. 19: 64-73; 1821; 18/137 (veterinary science); (15).

4. Aroch, I.^{PI}, **Segev, G.^C**, Shipov, A.^C, Klement, E.^C and Harrus, S.^C (2004). Fatal envenomations of 16 dogs by *Vipera xanthina palaestinae*. Vet Hum Toxicol. 46:268-272; 0.474; 70/129 (veterinary science); (6).
5. Aroch, I.^{PI}, Tovi, M.M.^C, Shemesh, O.^C, Sarfaty, H.^C and **Segev, G.^C** (2005). Central diabetes insipidus in five cats: clinical signs, diagnosis and oral desmopressin therapy. J Feline Med Surg. 7:333-739. 1.211;43/137 (veterinary science); (15).
6. **Segev, G.^{PI}**, Klement, E.^C and Aroch, I.^{PI} (2006). Toxic neutrophil in cats: clinical and clinicopathological signs, disease prevalence and outcome – a retrospective case control study. J Vet Intern Med. 20:20-31; 1.821; 18/137 (veterinary science); (10).
7. **Segev, G.^{PI}**, Yas-Natan, E.^C, Shlosberg, A.^C and Aroch, I.^C (2006). Alpha chloralose poisoning in 33 dogs and 13 cats. Vet J. 172: 109-113; 1.680; 25/137 (veterinary science); (9).
8. Yas-Natan, E.^{PI}, **Segev, G.^C**, Aroch, I.^C (2007). Clinical, neurological and clinicopathological signs, treatment and outcome of metaldehyde poisoning in 18 dogs. J Small Anim Pract. 48:438-43; 0.976; 59/137 (veterinary science); (8).
9. **Segev, G.^{PI}**, Ohad, D.^C, Shipov, A.^C, Philip, P.H.^C and Aroch, I.^C (2008). Cardiac arrhythmias and serum cardiac troponins in *Vipera palaestinae* envenomation in dogs. J Vet Intern Med. 22:106-113; 1821; 18/137 (veterinary science); (17).
10. **Segev, G.^{PI}**, Kass P.H.^C, Francey, T.^C, Cowgill, L.D.^C (2008). A novel clinical scoring system for outcome prediction in dogs with acute kidney injury managed by hemodialysis. J Vet Intern Med. 22:301-8; 1821; 18/137 (veterinary science); (27).
11. Aroch, I.^{PI}, **Segev, G.^C**, Loeb, E.^C, and Bruchim, Y.^C (2009) Peripheral nucleated red blood cells as a prognostic indicator in canine heatstroke. J Vet Intern Med. 23:544-51; 1821; 18/137 (veterinary science); (13).
12. Mazaki-Tovi, M.^{PI}, Feuermann, Y.^C, **Segev, G.^C**, Klement, E.^C, Yas-Natan, E.^C, Farkas, A.^C, Kol, A.^S, and Shamay, A.^C (2010) Increased serum leptin and insulin concentrations in canine hypothyroidism. Vet J. 183:109-114; 1.680; 25/137 (veterinary science); (15).
13. Aroch, I.^{PI}, Yas-Natan, E.^C, Kuzi, S.^C and **Segev, G.^{PI}** (2010) Haemostatic abnormalities and clinical findings in *Vipera palaestinae*-envenomed dogs. Vet J. 185:180-187; 1.680; 25/137; (veterinary science); (8).
14. **Segev, G.^{PI}**, Fascetti, A.J.^C, Weeth, L.P.^C, Cowgill, L.D.^C (2010) Correction of hyperkalemia in dogs with chronic kidney disease consuming commercial renal therapeutic diets by a potassium-restricted home prepared diets. J Vet Intern Med. 24:546-550; 1.821; 18/137 (veterinary science); (12).

15. Kuzi, S.^{PI}, **Segev, G.^C**, Haruvi, E.^C and Aroch, I.^{PI} (2010) Plasma antithrombin activity as a diagnostic and prognostic indicator in dogs: a retrospective study of 149 dogs. J Vet Intern Med. 24:587-596; 1.821; 18/137 (veterinary science); (19).
16. Aroch, I.^{PI}, Keidar, I.^S, Schechter, M.^S, Shamir, M.H.^C and **Segev, G.^{PI}** (2010) Diagnostic and prognostic value of serum creatine kinase activity in ill cats: a retrospective study of 601 cases. J Feline Med Surg. 12:466-475. 1.211;43/137 (veterinary science); (6).
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5b. Case reports:

1. Berg, R.I.M.^{PI}, Francey, T.^C, and **Segev, G.^C** (2007) Resolution of acute kidney injury in a cat following Lily intoxication. J Vet Intern Med. 21:857-859; 1821; 18/137 (veterinary science); (6)
2. Klainbart, S.^{PI}, **Segev G.^C**, Loeb, L.^S, Melamed, D.^C Aroch, I.^C (2008) Resolution of renal adenocarcinoma-induced secondary polycythemia after nephrectomy in two cats. J Feline Med Surg. 10:264-268; 1.211;43/137; (veterinary science); (9)
3. **Segev, G.^{PI}**, Bant, C.^C, Francey, T.^C, Cowgill, L.D.^C (2008). Aluminum toxicity following administration of aluminum-based phosphate binders in two dogs with renal failure. J Vet Intern Med. 22:1432-1435; 1821; 18/137 (veterinary science); (15).
4. Merbl, Y.^{PI}, Kelmer, E.^C, Shipov, A.^C, Golani, Y.^C, **Segev, G.^C**, Yudelevitch, S.^C, Klainbart, S.^{PI} (2010) Resolution of persistent postoperative pneumothorax using autologous blood pleurodesis. J Am Vet Med Assoc. 237:299-303. 1.501; 32/137 (veterinary science); (6).
5. Cohen, L.^{PI}, Shipov, A.^C, Ranen, E.^C, Bruchim, Y.^C, and **Segev, G.^{PI}** (2012) Bilateral ureteral obstruction due to a transitional cell carcinoma: a case report. Can Vet J. 53:535-538. 0.639; 90/137 (veterinary science); (3).
6. Yas E.^{PI}, Kelmer G.^C Shipov A.^C Ben Oz J.^C **Segev G.^{PI}** (2013) Successful transendoscopic oesophageal mass ablation in two dogs with *Spirocerca lupi* associated oesophageal sarcoma. J Small Anim Pract 0.976; 59/137 (veterinary science); (4).
7. Zafrany, A.^{PI}, Ben-Oz, J.^C, **Segev, G.^C**, Milgram, J.^C, Zemer, O.^C, Jensen, H.E.^C, Kelmer, E.^{PI} (2013) Successful treatment of an intra-pelvic fungal pseudomycetoma causing constipation and hypercalcemia in a Persian cat. J Feline Med Surg. 10:264-268; 1.211;43/137; (veterinary science); (1)
8. Kahana, N.^S, **Segev G.^{PI}**, (2014) Long term outcome of conventional endotracheal balloon dilatation of tracheal stenosis in a dog Can Vet J 0.639; 90/137 (veterinary science); (0).
9. Shipov, A.^{PI}, Zafrany, A.^C, Kahana, N.^C, Peery, D.^C, Sommer, A.^C, Winkler, R.^C **Segev, G.^{PI}** (2014) Successful balloon expandable stent placement in the management of severe proximal urethral stricture in a cat Israel J Vet Med 69:88-91 0.293; 117/137; (veterinary science); (0)
10. Nivy R.^{PI}, Aroch, I.^C, Layon, L.^C, **Segev, G.^C** (2015) Polycystic kidney disease in four British Shorthair cats and successful treatment of bacterial cyst infection J Small Anim Pract. 0.976; 59/137; (veterinary science); (1)
11. Ben-Oz, J.^C, Aroch, I.^C, **Segev, G.^{PI}** (2016) Increased ratio of peritoneal effusion to serum potassium in a dog with gastric perforation: a case report. J Vet Emerg Crit Care 26:793-797 1.122; 49/137; (veterinary science); (0)

12. Klainbart S.^{PI}, **Segev G.**^{PI} (2017) Treatment of phenobarbital overdose by hemodialysis in a cat with suspected porto-systemic shunt. Israel J Vet Med 72: 42-45 0.293; 117/137 (veterinary science); (0).
13. **Segev G.**^{PI}, Cowgill, L.D.^C (2018) Treatment of acute kidney injury associated with cyclosporine overdose in a dog using hemodialysis and charcoal hemoperfusion accepted for publication J Vet Emerg Crit Care 1.122; 49/137; (veterinary science); (0)
14. Chen, H.^{PI} Aroch, I.^C **Segev, G.**^{PI} (2018) Acute kidney injury secondary to traumatic rhabdomyolysis in a dog. J Vet Emerg Crit Care 28:585-590 1.122; 49/137 (veterinary science); (0)
15. Baneth, G.^{PI}, **Segev, G.**^C, Mazaki-Tovi, M.^C, Chen, H.^C, Kuzi, S.^{PI} (2018) Renal dialysis and long-term treatment of a dog with kidney disease associated with canine leishmaniosis Parasit Vectors. 20;11: 151. 3.408; 2/20 (tropical medicine science); (0)
16. **Kuzi S, Mazor R, Segev G, Nivy R, Mazaki-Tovi M, Chen H, Rimer D, Duneyevitz A, Yas E, Lavy E, Aroch I.**
17. **Balloon expandable aortic stent-graft for the treatment of aortic aneurysm and rupture in a dog**
18. **Therapeutic plasma exchange for the management of type III hypersensitivity reaction and suspected immune mediated vasculitis assumed to be caused by human albumin in a dog**

6. Participation in Scientific Conferences, Lectures, and Other Activity:

6.1: International Conferences

6.1.1 Invited lectures

1. 2007, **Segev G.** Use of hemodialysis in acute renal failure of infectious origin in dogs. European Congress of Veterinary Internal Medicine (ECVIM). Budapest, Hungary.
2. 2007, **Segev G.** Clinical significant of toxic neutrophils in dogs and cats. European Congress of Veterinary Internal Medicine (ECVIM). Budapest, Hungary.
3. 2008, **Segev G.** Outcome prediction of acute uremia. Advanced Renal Therapies Symposium: Animal Medical Center, New York, New York, USA.
4. 2008, **Segev G.** Vascular access in hemodialysis patients. Advanced Renal Therapies Symposium: Animal Medical Center, New York, New York, USA.
5. 2008, **Segev G.** The use of bioelectrical impedance in determining water balance. Advanced Renal Therapies Symposium: Animal Medical Center, New York, New York, USA.

6. 2009, **Segev G.** Outcome prediction of acute uremia in dogs and cats. European Congress of Veterinary Internal Medicine (ECVIM). Porto, Portugal.
7. 2009, **Segev G.** Endoscopy workshop. The annual congress of the Association of Veterinary Doctors for Companion Animals. Romania.
8. 2010, **Segev G.** Introduction to hemodialysis. Advanced Renal Therapies Symposium. New York, New York, USA.
9. 2010, **Segev G.** Outcome prediction of dogs and cats with acute uremia. Advanced Renal Therapies Symposium. New York, New York, USA.
10. 2012, **Segev G.** Biomarkers of acute kidney injury. Advanced Renal Therapies Symposium. New York, New York, USA.
11. 2012, **Segev G.** Biomarkers of naturally occurring acute kidney injury. Advanced Renal Therapies Symposium. New York, New York, USA.
12. 2012, **Segev G.** Scoring systems for dogs and cats with acute kidney injury. Advanced Renal Therapies Symposium. New York, New York, USA.
13. 2012, **Segev G.** Chronic kidney disease in dogs and cats. The 25th annual symposium of the Slovene Small Animal Veterinary Association.
14. 2012, **Segev G.** Hypertension in dogs and cats with chronic kidney diseases. The 25th annual symposium of the Slovene Small Animal Veterinary Association.
15. 2012, **Segev G.** Acute renal failure in dogs and cats. The 25th annual symposium of the Slovene Small Animal Veterinary Association.
16. 2012, **Segev G.** Hemodialysis and peritoneal dialysis. The 25th annual symposium of the Slovene Small Animal Veterinary Association.
17. 2012, **Segev G.** Incontinence – diagnostic and treatment update. The 25th annual symposium of the Slovene Small Animal Veterinary Association.
18. 2012, **Segev G.** Application of novel biomarkers in the management of acute kidney injury. American Congress of Veterinary Internal Medicine (ACVIM). New Orleans, LA, USA.
19. 2013, **Segev G.** The failing kidney, options when conventional medical management fails. European Congress of Veterinary Internal Medicine (ECVIM). Porto, Portugal.
20. 2013, **Segev G.** Hemodialysis in cats – special consideration. The 23rd European Congress of Veterinary Internal Medicine (ECVIM). Porto, Portugal
21. 2013, **Segev G.** Extracorporeal therapies and renal transplantation in Europe – a panel discussion. European Congress of Veterinary Internal Medicine (ECVIM). Porto, Portugal
22. 2014, **Segev, G.** Recommendations for the Treatment of Glomerular Disease Based on Established Pathology. American Congress of Veterinary Internal Medicine (ACVIM). Nashville, NO, USA.
23. 2016, **Segev G.** New insights into bone disease in dogs and cats with chronic kidney disease. Advanced Renal Therapies Symposium. Davis, CA, USA,
24. 2016, **Segev G.** The use of renal biomarkers for AKI, in, European Congress of Veterinary Internal Medicine (ECVIM). Gutenberg, Sweden.

25. 2016, **Segev G.** Acute kidney disease in companion animals, The 11th Hellenic Veterinary Society meeting, Athens, Greece
26. 2016, **Segev G.** Hemodialysis in the management of acute kidney injury, The 11th Hellenic Veterinary Society meeting, Athens, Greece
27. 2016, **Segev G.** Novel renal biomarkers for diagnosing and monitoring kidney diseases, The 11th Hellenic Veterinary Society meeting, Athens, Greece
28. 2018, **Segev G.** Outcome prediction for hemodialysis. IRIS Renal week Davis, USA
29. 2018, **Segev G.** Principles of hemodialysis. IRIS Renal week, Davis, USA
30. 2018, **Segev G.** Novel biomarkers of acute kidney injury. IRIS Renal week, Davis, USA
31. 2018, **Segev G.** Advanced monitoring techniques in hemodialysis, IRIS Renal week Davis, USA
32. 2018, **Segev G.** Demonstration of the principles of hemodialysis. IRIS Renal week, Davis, USA
33. 2018, **Segev G.** Acute kidney Injury: Diagnosis, staging and prognosis. Congresso Nazionale Scivac, Arezzo, Italy
34. 2018, **Segev G.** Nephropathy and early diagnosis: is it possible, Congresso Nazionale Scivac, Arezzo, Italy
35. 2018, **Segev G.** Proteinuria: beyond the standard treatment, Congresso Nazionale Scivac, Arezzo, Italy
36. 2018, **Segev G.** The choices before dialysis in AKI and AKI on CKD patients, Congresso Nazionale Scivac, Arezzo, Italy
37. 2018, **Segev G.** Tips from the experts for the approach of Polyuria/Polydipsia. 43rd WSANA and 9th FASAVA congress the World Small Animal Veterinary Association (WSAVA) and the Federation of Asian Small Animal Veterinary Associations (FASAVA), Singapore.
38. 2018, **Segev G.** Serum creatinine concentration: useful tips for correct interpretation 43rd WSANA and 9th FASAVA congress the World Small Animal Veterinary Association (WSAVA) and the Federation of Asian Small Animal Veterinary Associations (FASAVA), Singapore.
39. 2018, **Segev G.** Management of the proteinuric dog. 43rd WSANA and 9th FASAVA congress the World Small Animal Veterinary Association (WSAVA) and the Federation of Asian Small Animal Veterinary Associations (FASAVA), Singapore.
40. 2018, **Segev G.** Update on the management of acute kidney injury in the dog. 43rd WSANA and 9th FASAVA congress the World Small Animal Veterinary Association (WSAVA) and the Federation of Asian Small Animal Veterinary Associations (FASAVA), Singapore.
41. 2018, **Segev G.** Application of the IRIS guidelines in the management of CKD. 43rd WSANA and 9th FASAVA congress the World Small Animal Veterinary Association (WSAVA) and the Federation of Asian Small Animal Veterinary Associations (FASAVA), Singapore.

42. 2019, **Segev G.** Nephrology and hemodialysis course, 10 lectures, Shanghai, Ninjing, China
43. 2019, **Segev G.** Interpretation of serum creatinine concentration and novel current and future biomarkers. The 13th Hellenic Veterinary Society meeting, Athens, Greece.
44. 2019, **Segev G.** Medical management of urinary incontinence. The 13th Hellenic Veterinary Society meeting, Athens, Greece.
45. 2019, **Segev G.** Current concepts for the management of chronic kidney disease in the dog and cat. The 13th Hellenic Veterinary Society meeting, Athens, Greece
46. 2019, **Segev G.** Canine urolithiasis. Treatment and prevention protocols, The 13th Hellenic Veterinary Society meeting, Athens, Greece
47. 2019, **Segev G** *New Insights in Biomarkers of Urinary Diseases. ACVIM 2020*

6.1.2: other lectures (oral presentations/abstracts and posters)

1. 2003, **Segev, G.**, Shipov, A., Klement, E, Harrus, S., Kass, P. and Aroch, I. *Vipera xanthina palaestinae* envenomation in 327 dogs: epidemiological, clinical and clinicopathological signs, risk factors and effects of therapy on mortality. The 13th congress of the European Society of Veterinary Internal Medicine. Uppsala, Sweden (oral presentation).
2. 2004, **Segev G.**, Klement, E. and **Aroch, I.** Toxic neutrophils in cats: clinical and clinicopathological signs, disease prevalence and outcome – a retrospective case control study. The 14th congress of the European Society of Veterinary Internal Medicine. Barcelona, Spain (oral presentation).
3. 2007, **Segev, G.**, Kass, H.P., Francey, T. and Cowgill, L.D. Novel clinical scoring system for outcome prediction in dogs with acute kidney injury managed by hemodialysis. The 25th congress of the American Society of Veterinary Internal Medicine. Seattle, Washington, USA (oral presentation).
4. 2009, **Segev, G.**, Cowgill, L.D., Jessen, S., Berkowitz, A., Mohr, C and Aroch, I. A retrospective study of renal amyloidosis in Chinese Shar pei and non Shar pei dogs. The 19th European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress. Porto, Portugal (oral presentation).
5. 2009, **Himmelstein, A.**, **Segev, G.**, Tovi-Mazaki, M. and Aroch, I. Diagnostic and prognostic significance of peripheral nucleated red blood cells: a retrospective case-controlled study of 355 dogs. The 19th European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress. Porto, Portugal (oral presentation, student gave the lecture).
6. 2009, **Segev, G.**, Cowgill, L.D., Jessen, S., Berkowitz, A., Mohr, C and Aroch, I. A retrospective study of renal amyloidosis in Chinese Shar pei and non Shar pei dogs. The 19th European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress. Porto, Portugal (oral presentation).

7. 2012, Palm, C, **Segev, G**, Westropp, WJ, Cowgill LD. Urinary NGAL: A biomarker for early identification of acute kidney injury in dogs. The 30th American College of Veterinary Internal Medicine congress, New Orleans, LA, USA (oral presentation, student gave the lecture).
8. 2012, Palm, CA, Westropp, JL., LeRoy B. **Segev, G**, Cowgill, LD. Urinary NGAL: A Biomarker for Early Identification of Acute Kidney Injury in Dogs The 29th American College of Veterinary Internal Medicine (ACVIM) Congress (oral presentation, student gave the lecture)..
9. 2013, Ben-Oz, J, Jessen, S., Kahane, N. **Segev, G**. Renal Hematuria in Golden Retrievers: A Newly Recognized Disorder. The 23rd European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress (oral presentation, student gave the lecture).
10. 2013, Nivy, R, Lavy, E. Caldin, M. Shaabon, K. **Segev, G**, Aroch, I – acute phase proteins in spirocerca. The 23rd European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress (oral presentation, student gave the lecture).
11. 2013, Kuzi, S, Kahane, N. **Segev, G**., Bloom, S. Aroch, A. Nosocomial Virulent, Multi-drug-Resistant Acinetobacter Baumannii Infection Outbreak in a Veterinary Hospital. The 23rd European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress (oral presentation, student gave the lecture).
12. 2016, Nivy R, Avital, Y., Aroch, I, **Segev, G**. Utility of urinary alkaline phosphatase and γ -glutamyl transpeptidase in diagnosing acute kidney injury in dogs. The 26th European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress (oral presentation, student gave the lecture).
13. 2016, Kuzi, S, **Segev, G**, Aroch, I. Pancreatitis in dogs. The 26th European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress (oral presentation, student gave the lecture).
14. 2018, Chen H, Aroch I, Avital Y, **Segev G**. Interleukin 6 and Interleukin 18 as markers of kidney injury in dogs. The 27th European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress (oral presentation, student gave the lecture).
15. 2018, Segev G, Aroch A, Farace G., Quinn J., Yerramilli M., Avital Y., Yerramilli M. Application of novel kidney-specific biomarkers for canine kidney diseases. The 27th European College of Veterinary Internal Medicine – Companion Animals (ECVIM-CA) Congress (oral presentation).
16. **Acute on chronic kidney disease in dogs – Asia**
17. **Cystatin B – Hilla C, Peaterson S Yerramill, aroch I, evaluation of Cystatin B as a marker for AKI in dogs, ECVIM, 2020**
18. **Nivy, R, Bruchim Y, Aroch, A, Segev G. Prospective Evaluation of Urinary Alkaline Phosphatase and γ -glutamyl Transpeptidase As Diagnostic and Prognostic Biomarkers of Acute Kidney Injury In Dogs**

6.2: Local Conferences

6.2.1 Invited Lectures

1. 2008, **Segev G.** Nephrology conference, Israeli Veterinary Association , 16 hour lectures over 2 days Giv'at Brenner, Israel
2. 2009, **Segev G.** Hill's symposium. Nutritional management of chronic kidney disease patients. Beit Dagan, Israel.
3. 2010, **Segev G.** Nephrology conference, Israeli Veterinary Association, Ganei Tikva, Israel, 14 hour lectures over 2 days.
4. 2013, **Segev G.** Continuous education for private practitioners– controversies in the management of IMHA. Beit Dagan, Israel
5. 2014, **Segev G.** Nephrology conference, Israeli Veterinary Association , 16 hour lectures over 2 days Giv'at Brenner, Israel
6. 2014, **Segev G.** Glomerular diseases in dogs and cats. What is the consensus? Israeli Veterinary Association.
7. 2014, **Segev, G.** Medical and surgical management of nephrology and urology cases. Israeli Veterinary Association
8. 2014, **Segev, G.** The effect of naturally occurring chronic kidney disease on the micro-structural and mechanical properties of bone in dogs. The 35th Annual Symposium of Veterinary Medicine, Koret School of Veterinary Medicine. Hebrew University of Jerusalem, Beit Dagan.
9. 2014, **Segev, G.** Interpretation of serum creatinine concentration and the use of biomarkers for the diagnosis of acute kidney injury. The annual congress of the Israeli Veterinary Association
10. 2014, **Segev, G.** consensus recommendation for the treatment of glomerular diseases in dogs. The annual congress of the Israeli Veterinary Association.
11. 2016. **Segev G,** Continuous education for private practitioners – Endoscopy course, 14 hours over 2 days.

6.2.2: Other lectures:

1. 2009, **Segev, G.** Kuzi, S., Haruvi, E. and Aroch, I. Antithrombin activity as a diagnostic and prognostic marker: a retrospective study of 149 dogs. The 33rd Annual Symposium of Veterinary Medicine, Koret School of Veterinary Medicine. Hebrew University of Jerusalem, Beit Dagan, Israel (oral presentation).
2. 2009, **Himmelstein, A., Segev, G.,** Keidar, I. and Aroch, I. Creatine kinase as a diagnostic and prognostic marker: results of a retrospective study of 304 cats. The 33rd Annual Symposium of Veterinary Medicine, Koret School of Veterinary Medicine. Hebrew University of Jerusalem, Beit Dagan, Israel (student gave the lecture) (oral presentation, student gave the lecture).
3. 2010, **Himmelstein, A., Segev, G.,** Tovi-Mazaki, M. and Aroch, I. Diagnostic and prognostic significance of peripheral nucleated red blood cells: a retrospective case-controlled study of 355 dogs. The 34th Annual Symposium of

- Veterinary Medicine, Koret School of Veterinary Medicine. Hebrew University of Jerusalem, Beit Dagan, Israel (oral presentation, student gave the lecture).
4. 2010, **Segev, G.**, Cowgill, L.D., Jessen, S., Berkowitz, A., Mohr, C and Aroch, I. A retrospective study of renal amyloidosis in Chinese Shar pei and non Shar pei dogs. The 34th Annual Symposium of Veterinary Medicine, Koret School of Veterinary Medicine. Hebrew University of Jerusalem, Beit Dagan, Israel (oral presentation).
 5. 2013, Ben-Oz, J. Yessen S, Green R, Kahana, N, **Segev G.** Golden hematuria. The 37th Annual Symposium of Veterinary Medicine, Koret School of Veterinary Medicine. Hebrew University of Jerusalem, Beit Dagan, Israel (oral presentation, student gave the lecture).
 6. 2013, Nivy R, Cowgill, LC, Kass P, **Segev G.** acute kidney injury in cats – retrospective study and a novel scoring system The 37th Annual Symposium of Veterinary Medicine, Koret School of Veterinary Medicine. Hebrew University of Jerusalem, Beit Dagan, Israel (oral presentation, student gave the lecture).
 7. 2016, **Avital, Y.** Chen H, **Segev, G.** serum clusterin as a marker of kidney injury The 40th Annual Symposium of Veterinary Medicine, Koret School of Veterinary Medicine. Hebrew University of Jerusalem, Beit Dagan, Israel (oral presentation, student gave the lecture).
 8. 2018, **Chen, H** Shipov, A **Segev, G.** Novel bulking agent for the treatment of urinary incontinence in dogs. The 42nd Annual Symposium of Veterinary Medicine, Koret School of Veterinary Medicine. Hebrew University of Jerusalem, Beit Dagan, Israel (oral presentation, student gave the lecture).

6.3. Other lectures and Seminars

1. 2010, **Segev G.** Anatomy and physiology of the kidney. Continuing Education, Practivet, 3rd annual congress, Moscow, Russia.
2. 2010, **Segev G.** Terminology, classification and treatment of Acute renal failure. Continuing Education, Practivet, 3rd annual congress, Moscow, Russia.
3. 2010, **Segev G.** Terminology, classification and treatment of chronic kidney diseases. Continuing Education, Practivet, 3rd annual congress, Moscow, Russia.
9. 2015, **Segev G.** Hemodialysis academy. Six Lectures. Principles of hemodialysis (3 lectures, indications for hemodialysis (1 lecture), when to initiate hemodialysis (1 lecture), dialysis disequilibrium (1 lecture).
10. 2016, **Segev G.** Hemodialysis academy. Six Lectures. Principles of hemodialysis (3 lectures, indications for hemodialysis (1 lecture), when to initiate hemodialysis (1 lecture), dialysis disequilibrium (1 lecture).

7. Patents: none

SCIENTIFIC BIOGRAPHY

Clinical experience

Veterinary internal medicine is a rapidly developing specialty and like human medicine, diverse sub-specialties have developed within this discipline. Following my graduation in 2000, I completed a rotating internship at the Koret School of Veterinary Medicine (KSVM). I then started a residency program in small animal internal medicine to meet the credentials of the European College of Veterinary Internal Medicine - Companion Animals (ECVIM-CA), and in 2005, I became a Diplomate (specialist) of the ECVIM-CA (Dipl. ECVIM-CA). Following this program, I was accepted for a 2-year Post-Doctoral Fellowship Program in Veterinary Nephrology and Hemodialysis at the University of California, Davis, USA. I then returned to the KSVM and was nominated as the Head of the Internal Medicine Department. I have established the first veterinary hemodialysis unit in Israel and in the Middle East in 2010 and one of only several hemodialysis units for veterinary patients worldwide. From 2010-2014 I have served as a member of the examination committee of the ECVIM-CA and between the years 2014-2016 I have served as the head of this committee. In 2016, I was elected as a board member of the International Renal Interest Society (IRIS).

Research

Research in nephrology

I am a veterinary nephrologist who sees complicated nephrology and urology cases, which are referred to me from all over the country, and therefore my main research interests are nephrology and urology. My nephrology research is focused on acute kidney injury (AKI) and chronic kidney disease (CKD). Currently, I have several major projects on these topics. The projects include both clinical and more basic research (as described below), and have an impact and relevance to the ongoing research in human nephrology as kidney diseases in dogs and cats have many similarities to those in human patients. I was invited to write seven chapters in the field, of which five are in leading internal medicine and nephrology books on these topics (chapters # 1, 2, 3, 4, 5).

Chronic kidney disease

The objectives of the clinical studies we have performed in the field of nephrology are aimed at better understanding the course of the disease and the complications associated with it.

In the last years, I have completed studies examining the influence of CKD on bone metabolism. Secondary renal hyperparathyroidism and bone resorption are inevitable consequences of the disease and have a great impact on human CKD patients (e.g., greater risk of fracture). These studies demonstrated that the bone of dogs (5a, #74) and cats (5a, #46 4, #3) have decreased bone quality, as human patients, and thus can serve as a superior model for the disease compared to the currently used model (mostly rodents) which have completely different bone structure and biology, as we have shown (5a, #34). In the future, I plan to assess different interventions in this model to negate the deterioration in bone quality.

Chronic kidney disease is progressive and irreversible. Progression rate is different among species and is variable between individuals within the species. To

date, the progression rate can only be assessed by using non-sensitive markers that evaluate kidney function. Consequently, active ongoing disease cannot be identified and addressed until kidney function decreases. I am currently assessing an array of biomarkers, mostly secreted in the urine, to assess active and ongoing damage in dogs and cats with chronic kidney disease. I have discovered that animals with chronic kidney disease have active ongoing damage that potentially can be used to assess the expected progression rate of the disease (5a, #81). These biomarkers will aid in early identification of renal damage in real time and enable therapeutic intervention before additional and potentially irreversible damage occurs. These sensitive biomarkers will also aid to assess different interventions that might decrease the active damage of the disease and consequently its progression rate.

Acute kidney injury

I am currently leading several projects assessing novel biomarkers that can be used for early identification of AKI. Despite advances in the management of AKI, mortality rate among human and animal patients remains unacceptably high. One of the speculated reasons for the high mortality, both in humans and in animals, is the late diagnosis of the disease and consequently the narrow window of opportunity for therapeutic intervention. Therefore, there is a vital need for sensitive biomarkers for early recognition of AKI. Initially, I have evaluated routine urinary markers (e.g., fractional excretion of electrolytes) as predictors of recovery in dogs with AKI (5a, #48). Results of this study shed light on the pathophysiology of the disease. This study showed that these readily available data can be used as markers of AKI. I had then continued our research by evaluating enzymes (GGT, ALP) that can be measured in the urine (5a, #64). Following these two studies, I have initiated an investigation of novel biomarkers for the early recognition of AKI. I (with collaborators in UC-Davis) were the first to describe the use of Neutrophil Gelatinase-Associated Lipocalin (NGAL), a novel biomarker of AKI that was found as an early, sensitive and specific biomarker for the detection of AKI both in the clinical setting and in experimental model of AKI (5a, #35, 5a, #61). Following the study, dozens of papers were published evaluating NGAL as a marker of AKI. I have also evaluated an array of biomarkers of AKI in dogs with heatstroke that invariably develop AKI. These studies demonstrate that these markers can identify the injury substantially earlier compared the conventional markers that are currently in use. I have also shown that these biomarkers can provide information regarding the localization of the injury (5a, # 55). Recently I have also looked at few novel biomarkers (IL-6, IL-18, HSP). Some of these markers are not only very sensitive and early markers of AKI but also have a very promising prognostic value (5a, #68). I have also extended the research of biomarkers in cats (5a, #81). I have learned from the aforementioned studies that some of these markers may increase in non-urinary conditions. Therefore, the next step is to expand the research on biomarkers and develop, with collaboration with IDEXX, kidney specific biomarkers, so any increase in these markers would be specific for kidney injury only. The final aim is to develop a panel of sensitive and specific biomarkers that can be used to diagnose the disease early and provide a prognostic value.

Another aspect of my research is the management of AKI. I recently completed 5 years of data collection and am currently analyzing a double blinded placebo controlled clinical trial, which evaluates the efficacy and safety of a new drug in dogs that has the potential to prevent and treat patients with AKI (5a, #77). This drug has also been investigated in human patients with conflicting results thus far.

Finally, I am active in research of AKI prognostication. Previously, my collaborators and I have developed a novel scoring systems for predicting the outcome in dogs that managed with hemodialysis (5a, #10). This approach were implemented after proven successful and internationally recognized to develop a similar scoring system in cats (5a, #33). Following these two scoring systems, we have developed another scoring system for dogs who suffer from heat stroke, which almost invariably causes AKI (5a, #51). The scoring system for predicting the outcome in dogs was recently validated using an independent group of patients with AKI from three different centers and was found to be highly predictive and successful globally (5a, #62)

Research in urology

My research in urology focuses in the prevention and management of urinary tract infections. Bacterial urinary tract infections (UTIs) are reported to occur in approximately 14% of dogs and between 50-60% of women; nearly 13 million women annually. UTI are associated with huge morbidity and mortality. Due to extensive use of antibiotics there is emerging resistance and antibiotics become less effective. My collaborators (UC-Davis, Michigan state university) and I have recently evaluated an alternative approach in the management of UTI by administering a live biotherapeutic product ASB 2-12, to healthy female dogs. I have demonstrated that this strain of bacteria is able to colonize the urinary system without promoting inflammation and thereby, preventing pathogenic *Escherichia coli* (*E. coli*) from colonizing the urinary system. Both a safety and a clinical trial have been completed (5a, #75).

Urinary tract infection often results from the insertion of urinary catheters. Catheter associated urinary tract infection also is a major problem in human medicine. In fact, UTI is the most common nosocomial infection in human patients. This risk is further increased because many patients requiring catheterization also have other predisposing factors for UTI. Once a urinary catheter is introduced, a biofilm quickly forms on the catheter rendering the use of antibiotics ineffective as long as the catheter is in place. My collaborators and I have shown that coating the urinary catheters with varnish containing sustained release chlorhexidine is effective in decreasing biofilm formation of the urinary catheter (4a, #28). Following our promising results, we are now evaluating the incidence of urinary tract infection after catheter removal, different formulations of coating and disappearance rate of chlorhexidine from the catheter, to determine the maximal time that the catheter is effective in prevention of biofilm and UTI formation.

Future plans

My future plans in nephrology are to characterize biomarkers for AKI that would be valuable in the clinical setting. Once completing identifying and characterizing the most promising biomarkers in acute kidney injury we plan to test those in dogs with kidney injury and eventually develop a panel of biomarkers that would provide useful information to the human and veterinary nephrologists. Better characterization and earlier diagnosis of the disease are expected to improve disease outcome. Biomarkers in cats have yet to be tested and therefore I plan to expand the research of biomarkers to cats as well.

In urology I plan to focus my research in prevention and treatment of UTI. I am currently evaluating different types of coating material to prevent biofilm formation on urinary catheters. I also plan to expand the research of live biotherapeutic products as an alternative method to manage refractory UTI.