

Advanced Nephrology and Urology
Live Virtual Course
April 19-21, 2021

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DAY 1 Monday, April 19, 2021		
Time (Mountain Daylight Time)	Topic	Presenter(s)
8:00-8:15 am	Welcome and Introductions	<i>Dr. Carrie Palm</i>
8:15-9:15 am	Advanced Calcium Oxalate Removal Techniques of the Lower Urinary Tract <ul style="list-style-type: none"> Understand the advantages of advanced stone removal methods. Choose the best advanced stone removal method. Use the shared tips and tricks to speed up the learning curve when doing laser lithotripsy and percutaneous cystolithotomy. 	<i>Dr. Felipe Galvao</i>
9:15-10:15 am	Introduction to Diagnostic and Therapeutic Interventional Endourology – Part I <ul style="list-style-type: none"> Understand the most commonly used endoscopes and instruments for diagnosis and treatment of urinary tract disease. Be familiar with basic and systematic cystoscopy, urethroscopy and vaginoscopy. Discuss “normal” anatomy and variations of “normal” as it relates to uroendoscopy, with a focus on interpretation of findings in light of the patient’s pertinent history and clinical signs. Understand how multi-modal imaging can help to define and treat urinary tract disease, with a focus on endoscopy and contrast imaging. 	<i>Dr. Carrie Palm</i>
10:15-10:30 am	Break	
10:30-11:30 am	Introduction to Diagnostic and Therapeutic Interventional Endourology – Part II <ul style="list-style-type: none"> Discuss and understand the decision-making process for evaluating and treating patients with ectopic ureters, including dogs treated with laser ablation that continue to have urinary incontinence. Understand some of the decision-making processes that can be used to decide whether more traditional or newer minimally invasive procedures might be most appropriate for individual patients. Become familiar with some of the minimally invasive endourologic therapies and procedures available for treatment in the urinary tract including perineal approach, renal sclerotherapy, foreign body removal and stent placement and removal. 	<i>Dr. Carrie Palm</i>

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DAY 1 (continued) Monday, April 19, 2021		
Time (Mountain Daylight Time)	Topic	Presenter(s)
11:30 am-12:30 pm	Lunch Break	
12:30-1:30 pm	Interventional Radiography of the Lower Urinary Tract <ul style="list-style-type: none"> • Understand how digital radiography can be applied for lower urinary tract evaluation. • Understand and apply digital radiography for placement of urethral stents. • Recognize the differences, advantages, and disadvantages of digital radiography versus fluoroscopy. • Identify the potential risks and how to minimize them. 	<i>Dr. Antu Radhakrishnan</i>
1:30-2:30 pm	Diagnosing Feline Ureteral Obstruction: Avoiding the Pitfalls <ul style="list-style-type: none"> • Understand the criteria used to diagnose feline ureteral obstruction. • Integrate a case-based approach to the diagnosis of feline ureteral obstruction. • Describe sequential diagnostic tests that can allow diagnosis of feline ureteral obstruction. 	<i>Dr. Marilyn Dunn</i>
2:30-2:45 pm	Break	
2:45-3:45 pm	Group Panel Discussion / Q&A	<i>Dr. Marilyn Dunn, Dr. Felipe Galvao, Dr. Carrie Palm, Dr. Antu Radhakrishnan</i>

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DAY 2 Tuesday, April 20, 2021		
Time (Mountain Daylight Time)	Topic	Presenter(s)
8:00-9:00 am	Case Studies in Lower Urinary Tract Disease <ul style="list-style-type: none"> • Review a representative sample of cases with lower urinary tract disease. • Consider novel or unique history and diagnostic applications in practice. • Discuss novel treatment options to implement in practice. • Compare and discuss diagnosis and intervention in lower urinary tract disease using various imaging modalities, including digital radiography and fluoroscopy. • Identify the potential risks associated with endourologic interventions and how to minimize them. 	<i>Dr. Antu Radhakrishnan, Dr. Carrie Palm</i>
9:00-10:00 am	Control of Calciuresis <ul style="list-style-type: none"> • Understand the role of Calciuresis in calcium oxalate stone formation. • Use ionized calcium concentration as a marker for hypercalciuresis. • Incorporate urine calcium: creatinine ratio as a possible prognostic factor for stone recurrence and as a preventative care tool 	<i>Dr. Felipe Galvao</i>
10:00-10:15 am	Break	
10:15-11:15 am	Troubleshooting the Obstructed SUB: Practical Tips <ul style="list-style-type: none"> • Determine site of obstruction in a SUB that will not flush. • Select a stepwise approach to evaluating integrity of SUBs in feline patients. • Apply a practical approach to the obstructed SUB. • Treat the obstructed SUB (medical and/or surgical management). • Understand and performing TetraEDTA flushes in SUBs with luminal obstruction. 	<i>Dr. Marilyn Dunn</i>

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DAY 2 (continued) Tuesday, April 20, 2021		
Time (Mountain Daylight Time)	Topic	Presenter(s)
11:15 am-12:15 pm	Lunch Break	
12:15-1:15pm	Approach to Bacteriuria – Part I <ul style="list-style-type: none"> • Understand bacteriuria and the range of clinical relevance. • Be able to better interpret bacteriuria in patients, based on recommended approaches in human and veterinary medicine. • Identify factors to consider when deciding whether to perform urine culture and treat patients. • Be able to make a cost-benefit assessment while making treatment decisions. 	<i>Dr. Scott Weese</i>
1:15-2:15 pm	Approach to Bacteriuria – Part II <ul style="list-style-type: none"> • Identify situations where treatment of bacteriuria is or is not likely indicated. • Understand complicating factors in assessing the relevance of bacteriuria. • Consider approaches to bacteriuria in specific clinical situations. 	<i>Dr. Scott Weese</i>
2:15-2:30 pm	Break	
2:30-3:30 pm	Group Panel Discussion / Q&A	<i>Dr. Marilyn Dunn, Dr. Felipe Galvao, Dr. Carrie Palm, Dr. Antu Radhakrishnan, Dr. Scott Weese</i>

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DAY 3 Wednesday, April 21, 2021		
Time (Mountain Daylight Time)	Topic	Presenter(s)
8:00-9:00 am	Nutritional Management of Kidney Disease – Part I <ul style="list-style-type: none"> Describe the relationship between body composition and outcome in dogs and cats with CKD. Compare and contrast nutrients of concern for CKD and PLN. Review how calcium-phosphorus and vitamin D dysregulation is affected by CKD and how this affects management strategies. 	<i>Dr. Valerie Parker</i>
9:00-10:00 am	Nutritional Management of Kidney Disease – Part II <ul style="list-style-type: none"> Discuss optimal feeding strategies for comorbid patients with kidney disease. Describe how to effectively utilize home-cooking and supplement use in dogs and cats with kidney disease. Review the utility of assisted enteral nutritional support for dogs and cats with kidney disease. 	<i>Dr. Valerie Parker</i>
10:00-10:15 am	Break	
10:15-11:15 am	PLN: Updates on Biopsy Findings and Therapeutics <ul style="list-style-type: none"> Evaluate the indications and contraindications for renal biopsy. Understand the importance of a thorough assessment of renal biopsy including light microscopy, electron microscopy and immunofluorescence. Integrate new information from findings on renal biopsies. Utilize current recommendations for treatment of renal proteinuria. 	<i>Dr. Jessica Quimby</i>
11:15 am-12:15 pm	Lunch Break	

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DAY 3 (continued) Wednesday, April 21, 2021		
Time (Mountain Daylight Time)	Topic	Presenter(s)
12:15-1:15pm	CKD: Pathophysiology Review and Developments in Therapeutics <ul style="list-style-type: none"> Understand the pathophysiology associated with common complications of CKD. Describe the current recommendations for treatment of CKD. Apply the available evidence to support treatment recommendations in CKD. 	<i>Dr. Jessica Quimby</i>
1:15-2:15 pm	Stem Cell Therapy <ul style="list-style-type: none"> Understand the basic biology of stem cells and considerations for clinical use. Describe the proposed mechanism of action of stem cells and their applicability to kidney disease. Assess what evidence we currently have for application to kidney disease. 	<i>Dr. Jessica Quimby</i>
2:15-2:30 pm	Break	
2:30-3:30 pm	Group Panel Discussion / Q&A	<i>Dr. Marilyn Dunn, Dr. Felipe Galvao, Dr. Carrie Palm, Dr. Valerie Parker, Dr. Jessica Quimby, Dr. Antu Radhakrishnan</i>
3:30 pm	Course Concludes	