

## Advanced Renal Therapies Symposium 2012

Tuesday, February 21<sup>st</sup>, 2012 at Rockefeller Auditorium

Time	Speaker	Title	Synopsis
7:00-8:15 am		Registration	
8:15-8:30 am		Welcome	
8:30-9:30 am	Gilad Segev	Overview of Biomarkers	This lecture will cover general concepts of using biomarkers to detect AKI and CKD and compare them to standard indicators of kidney disease such as creatinine.
9:30-10:00 am	Roberta Relford	Biomarker Technology	Key points about biomarker technology and sampling will be discussed.
10:00-10:30 am	Carrie Palm	Biomarkers in Experimental Model of AKI	Experimental data on biomarkers in an aminoglycoside-induced model of acute kidney injury will be presented in this lecture.
11:00-11:30 am	Gilad Segev	Biomarkers in Naturally Occurring AKI	Experimental data on biomarkers in naturally occurring heatstroke-induced acute kidney injury will be presented in this lecture
11:30-12:00 am	George Lees	Biomarkers in PLN	Experimental data on biomarkers in a variety of types of kidney diseases will be presented in this lecture
12:00- 1:30 pm	Lunch Break	Lunch Time Discussion: Writing a Business Plan For Dialysis <b>THIS LECTURE WILL BE at AMC. LUNCH WILL BE PROVIDED</b>	While many veterinarians are curious about starting a dialysis program in their hospital, a full understanding of the commitment required to build a successful program is useful. This lecture will cover the commonly asked questions about opening a dialysis unit.
1:30-2:30 pm	Jan Nolta	Overview of Stem Cells	This lecture will present an overview of the biology of stem cells and the different types of stem cells.
2:30-3:00 pm	Bob Harmon	Cell Isolation and Pilot Clinical Results of Adipose Stem Cells for Feline Renal Disease	This lecture will present information on adipose processing, stem cell characterization, and preservation, along with data on IV stem cell therapy in cats with CKD.
3:30-4:15 pm	Jan Nolta	Stem Cells and Kidney Disease	This lecture will cover the relevance of stem cells to kidney disease and tissue/organ bioengineering.
4:15-5:00 pm	Jessica Quimby	Intrarenal MSC for CKD in Cats	This lecture will present data from a pilot study using mesenchymal stem cells to treat chronic kidney disease in cats
5:00-5:15	Allyson Berent	Intra-arterial Renal Injection	This lecture will present the technique of injecting stem cells into the renal artery.
5:15-6:15 pm		Abstract Presentations	
6:30-8:30		Wine and Cheese Reception	Poster viewing and Opening night reception in the Rockefeller Auditorium lobby area

Wednesday, February 22nd, 2012 at Rockefeller Auditorium

Time	Speaker	Title	Synopsis
8:00-8:30 am	Adam Eatroff	Overview of Fluid Status in AKI	Excessive fluid accumulation can worsen organ function at the cellular, tissue, and organ level.
8:30-9:00 am	Cathy Langston	Treatment of Fluid Disorders	Methods of alleviating fluid overload, including diuretics, fluid restriction, ultrafiltration, and new drugs, will be discussed.
9:00-9:30 am	Larry Cowgill	Monitoring Volume Status	Methods of monitoring volume status will be discussed and compared.
10:00-10:30 am	Linda Barton	Hypotension in the Dialysis Patient	Approach to managing hypotension in the patient in need of dialysis will be covered in this lecture.
10:30-11:15 am	Matt Mellema	Uremic Lung	Respiratory disorders and management in the uremic patient will be covered.
11:15-11:45 am	Yann Queau	GI complications of uremia	Data on the prevalence of gastrointestinal disorders and the evidence for treatment will be presented.
11:45-1:00		Lunch on your own	
1:00-1:15 pm	Gilad Segev	Scoring System for AKI	Different scoring systems for AKI have been developed to help predict outcomes.
1:15-1:30 pm	Larry Cowgill	Staging Systems for AKI	Different staging systems for AKI have been developed to help describe AKI
1:30-2:00 pm	Larry Cowgill	Monitoring Renal Function in AKI	Methods of monitoring renal function and limitations of these methods will be covered.
2:00-2:15 pm	Cathy Langston/Eatroff	Risks of AKI in ICU	This lecture will present data on risk factors for developing AKI in ICU
2:15-2:45 pm	Adam Eatroff	The Polyuric Recovery Phase of AKI	The massive polyuria that occurs in the recovery phase of AKI presents unique challenges in management.
3:15-4:00 pm	Matt Mellema	Endothelial Function, Regulation, and Its Role in Kidney Disease	This lecture will cover regulators of vascular function and their role as a cause of AKI and uremic complications.
4:00-4:45 pm	Matt Mellema	The Role of the Kidney in Multiorgan Dysfunction	Many organ systems are impacted by AKI, and AKI induces damage to other organ systems.
4:45 – 5:30 pm		Abstracts	
6:00-8:00 pm		Anticoagulation for Dialysis <b>THIS LECTURE WILL BE AT AMC. PIZZA WILL BE PROVIDED.</b>	In order to perform dialysis, some type of anticoagulation is needed to prevent clotting in the extracorporeal circuit. The lecture will cover background information about coagulation, and then delve into practical issues in using heparin, followed by protocols and pitfalls in regional citrate anticoagulation.

Thursday, February 23<sup>rd</sup>, 2012 at Animal Medical Center

Time	Laboratory Sessions
7:00 AM	Vascular Access
7:30 AM	Vascular Access
8:00 AM	Lab
9:30 AM	Break
10:00 AM	Lab
11:30 AM	How to Choose Modality Lecture
12:00 PM	Lunch on your own
1:00 PM	Lab
2:30 PM	Break
3:00 PM	Lab

Friday, February 24<sup>th</sup>, 2012 at Animal Medical Center

Time	Title
8:00 AM	Case-Based Approach to Dialytic Therapy (Larry Cowgill, Cathy Langston, Carrie Palm, Adam Eatroff, Mark Acierno)
10:00 AM	Break
10:30 AM	Dialysis Cases
11:30 AM	Break
11:45 AM	Dialysis Cases
1:00 PM	Official End of Conference
2:00 PM	An open discussion of issues of interest to people active in veterinary nephrology, including but not limited to creating a nephrology subspecialty, developing nephrology training programs, bringing the international nephrology community together as a whole, and developing standards of care for nephrology and dialysis. This discussion will start at 2 pm, Friday, Feb 24.

Saturday, February 25<sup>th</sup>, at Animal Medical Center: Ureteral Stenting Lab

Time	Activity
8:00-10:00 am	Lecture for all lab participants
10:30-12:30 pm	Group A wet lab
1:30-3:30 pm	Group B wet lab
4:00-6:00 pm	Group C wet lab