

Assessing Patient Candidacy for Advanced Cardiac Procedures
February 8-9, 2024
Colorado State University – Translational Medicine Institute | Fort Collins, CO

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| DAY 1 Thursday, February 8, 2024 | | |
|-------------------------------------|---|--|
| Time (Mountain Time) | Topic | Presenter(s) |
| 7:30-8:00 am | Registration and Breakfast | |
| 8:00-8:10 am | Welcome & Introductions | <i>Dr. Brianna Potter</i> |
| 8:10-9:00 am | Candidacy for Open Mitral Valve Repair <ul style="list-style-type: none"> Evaluate the suitability of dogs in different ACVIM stages of MMVD for mitral valve repair Identify co-morbidities that may increase the risks of complications following mitral valve repair, making them less suitable candidates Evaluate echocardiographic indices of mitral regurgitation severity that can be used when assessing a potential candidate for surgery Understand the key functions of the cardiopulmonary bypass circuit in mitral valve repair surgery Understand the main components of mitral valve repair surgery | <i>Dr. Anne Kurosawa</i> |
| 9:00-9:50 am | Candidacy for Transcatheter Edge-to-Edge Repair (TEER) of the Mitral Valve <ul style="list-style-type: none"> Review current understanding of mitral valve leaflet anatomy in dogs Understand components of assessing patient candidacy for TEER including severity, size, and leaflet functional anatomy Discuss considerations for assessing severity of clinical disease as an indication for intervention Review TEER device including sizes available and determine how device sizing is assessed Assess leaflet segment anatomy using two- and three-dimensional transthoracic echocardiography | <i>Dr. Brianna Potter</i> |
| 9:50-10:00 am | Break | |
| 10:00 am-12:00 pm | Lab: Case Review and MR Quantification Discussion (Offline, Case-Based) <ul style="list-style-type: none"> Review transthoracic and transesophageal echocardiography of TEER and open mitral repair cases and discuss candidacy | <i>Dr. Anne Kurosawa, Dr. Brianna Potter, Dr. Melanie Hezzell, Dr. Sara Bordelon</i> |

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| | <ul style="list-style-type: none">• Discuss mitral valve regurgitation quantification techniques and how this is considered in candidacy evaluation | |
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| DAY 1 (continued) Thursday, February 8, 2024 | | |
|---|--|--|
| Time (Mountain Time) | Topic | Presenter(s) |
| 12:00-1:00 pm | Lunch | |
| 1:00-2:00 pm | Results, Complications, Long-Term Management, and Follow-Up for Open Mitral Valve Repair <ul style="list-style-type: none"> Identify minor and major complications associated with open heart surgery under cardiopulmonary bypass and measures used for treatment and/or prevention Identify common causes of mortality in dogs undergoing mitral valve repair surgery Describe the long-term management of dogs who have undergone successful mitral valve repair, providing insights into owners' expectations and care requirements Describe the key areas of improvement in owner quality of life after successful mitral valve repair surgery | Dr. Anne Kurosawa |
| 2:00-3:00 pm | Results, Complications, Long-Term Management, and Follow-Up for TEER <ul style="list-style-type: none"> Review disease characteristics of patients that have had TEER performed Discuss possible complications of TEER and complication rates Understand post-operative management of TEER patients and how to evaluate for complications Evaluate the post-operative period for these patients including reverse remodeling and concurrent medical management | Dr. Brianna Potter |
| 3:00-3:15 pm | Break | |
| 3:15-5:30 pm | Echocardiography Lab: Assessment of Candidacy for Mitral Valve Intervention <ul style="list-style-type: none"> Perform two- and three-dimensional transthoracic and transesophageal echocardiography to evaluate the mitral valve for intervention | Dr. Anne Kurosawa, Dr. Brianna Potter, Dr. Melanie Hezzell, Dr. Sara Bordelon |

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| | <ul style="list-style-type: none"> Quantify mitral valve regurgitation severity and assess candidacy for mitral valve intervention with case examples of degenerative mitral valve disease | |
| 5:30-7:00 pm | Welcome Reception | |

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| DAY 2 Friday, February 9, 2024 | | |
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| Time (Mountain Time) | Topic | Presenter(s) |
| 7:30-8:00 am | Breakfast | |
| 8:00-9:00 am | Candidacy for Left Atrial Decompression <ul style="list-style-type: none"> Attendees will be able to describe the indications and contraindications for performing a left atrial decompression in patients with left congestive heart failure Attendees will be able to compare and contrast left atrial decompression, transcatheter edge-to-edge repair, and mitral valve repair procedures Attendees will be able to describe long-term management strategies in dogs with left atrial decompression | <i>Dr. Justin Allen</i> |
| 9:00-10:00 am | Results, Complications, Long-Term Management, and Follow-Up for Post Left Atrial Decompression <ul style="list-style-type: none"> Attendees will be able to describe ways to reduce complications during and following LAD procedure Attendees will be able to describe ways to improve success of transseptal puncture procedures Attendees will be able to describe anesthetic management plans in patients with advanced heart failure | <i>Dr. Justin Allen</i> |
| 10:00-10:15 am | Break | |
| 10:15-11:30 am | Panel Discussion: Interventions for Degenerative Mitral Valve Disease | <i>Dr. Anne Kurosawa, Dr. Brianna Potter, Dr. Justin Allen, Dr. Brian Scansen, Dr. Melanie Hezzell</i> |
| 11:30 am – 12:30 pm | Lunch | |

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| DAY 2 (continued) Friday, February 9, 2024 | | |
|---|---|-------------------|
| Time (Mountain Time) | Topic | Presenter(s) |
| 12:30-1:30 pm | Candidacy for Pulmonary Valve Stenting <ul style="list-style-type: none"> • Be able to describe the anatomic features of pulmonary valve dysplasia in dogs • Appreciate the role of cardiac computed tomography in clarifying anatomy of the right ventricular outflow tract • Recognize anatomic features that suggest balloon dilation of pulmonary valve stenosis will be ineffective • Appreciate common variants of coronary artery anatomy that may coexist with pulmonary valve stenosis | Dr. Brian Scansen |
| 1:30-2:30 pm | Results, Complications, and Long-Term Management, and Follow-Up for Pulmonary Valve Stenting <ul style="list-style-type: none"> • Be updated on current outcomes for transpulmonary stent implantation in dogs • Understand the influence of concurrent lesions (tricuspid regurgitation, patent oval foramen) on patient outcome after transpulmonary stent implantation • Be able to develop a long-term medical management plan for a dog post transpulmonary stent implantation • Recognize the appearance and risk factors that may lead to stent fracture in a dog after transpulmonary stent implantation | Dr. Brian Scansen |
| 2:30-2:45 pm | Break | |
| 2:45-3:45 pm | Up-and-Coming Cardiac Interventions (VSD Closure, Ao-PA Shunt Creation, PDA Occlusion Options) <ul style="list-style-type: none"> • Recognize echocardiographic features that suggest a ventricular septal defect is hemodynamically significant • Be able to identify which patients may benefit from aortopulmonary shunt creation • Be conversant in strategies to manage patent arterial duct in dogs beyond routine canine devices • Have familiarity with the role of cross-sectional imaging in planning and evaluating candidacy of structural heart interventions | Dr. Brian Scansen |

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| 3:45-4:00 pm | Break | |
| 4:00-5:15 pm | Panel Discussion: PV Stenting and Complex Congenital Interventions and Case Discussion | <i>Dr. Anne Kurosawa, Dr. Brianna Potter, Dr. Justin Allen, Dr. Brian Scansen, Dr. Melanie Hezzell</i> |

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