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Monday, September 27, 2021		
Time (Mountain Time)	Торіс	Presenter(s)
8:00-8:15 am	Welcome and Introductions	Dr. Jonathan Lidbury
8:15-9:15 am	Copper-Associated Chronic Hepatitis – Genes vs. Environment Understand the role of mutations in ATP7A, ATP7B and COMMD1 in different dog breeds. Understand the role of diet as an environmental factor in the pathogenesis of copper-associated hepatitis.	Dr. Hille Fieten
9:15-10:15 am	Copper-Associated Chronic Hepatitis – Update on Treatment	Dr. Hille Fieten
10:15-10:30 am	Break	
10:30-11:30 am	 Sonographic Imaging of Hepatobiliary Diseases in Cats and Dogs Distinguish sonographic findings of hepatobiliary biliary tract inflammation, neoplasia, vascular/biliary cystic anomalies and mucoceles. Identify sonographic diagnosis of portal vein thrombosis and acquired shunting, extrahepatic biliary obstruction and pancreatitis. Have awareness of the function of contrast enhanced ultrasound and elastography. 	Dr. Angela Marolf
11:30 am- 12:30 pm	Lunch Break 11:50 am-12:30 pm: Lunch and Learn – Sponsored by Royal Canin Copper's Role in the Body Understand the functional role of copper in the body. Compare and contrast the ADME of copper in normal dogs and dogs affected with copper overload diseases Describe the various diseases seen due to copper deficiency and copper overload. Understand the methods used to quantitatively assess copper and their limitations	Dr. Adrienne Bautista Dr. Danielle Dito

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	Monday, September 27, 2021	
Time (Mountain Time)	Торіс	Presenter(s)
12:30-1:30 pm	 CT and MRI Imaging of Hepatobiliary Diseases in Cats and Dogs Appreciate the use of CT multiplanar reconstructions and different MRI planes to assist in evaluation the hepatobiliary system and pancreas. Recognize the value of intravenous contrast with CT/CT angiography and MR imaging in distinguishing different disease processes. Understand CTA imaging in portal vein thrombosis, acquired shunting, extrahepatic biliary obstruction and pancreatitis. 	Dr. Angela Marolf
1:30-2:30 pm	 Getting the Most Out of Your Liver Biopsy Understand the impact of different types of liver biopsies on pathologic interpretation. Be familiar with the impact of good communication between pathologist and clinician. Understand the value of different special stains, when to request them, if needed, and how to interpret the results. 	Dr. John Cullen
2:30-2:45 pm	Break	
2:45-3:45 pm	 An Introduction to Hepatic Histology for Internists Be familiar with the normal histology of the liver. Understand descriptive terminology of injured liver and associated prognosis. Assess the histologic description of various hepatic or biliary diseases of the liver. 	Dr. John Cullen
3:45-4:45 pm	 Immune-Mediated Chronic Hepatitis in Dogs Understand the clinical, biochemical and histopathologic features of immune-mediated hepatitis. Recognize the challenges in diagnosing immune-mediated hepatitis. Explore the current and emerging treatment options for immune-mediated hepatitis. 	Dr. Tarini Ullal
4:45-5:45 pm	 Group Panel Discussion/Q&A: Controversies in Canine Chronic Hepatitis Recognize the controversies regarding case selection for copper chelation therapy. Recognize gaps in our knowledge regarding optimal immunomodulatory therapy for canine chronic hepatitis. Appreciate challenges when imaging the canine hepatobiliary system. Appreciate challenges when histologically grading and staging chronic hepatitis. 	Dr. John Cullen, Dr. Jonathan Lidbury, Dr. Angela Marolf, Dr. Tarini Ullal Dr. Valerie Parker

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Tuesday, September 28, 2021		
Time (Mountain Time)	Торіс	Presenter(s)
8:00-9:00 am	 Nutritional Management of Hepatobiliary Disease - Part I Describe an optimal nutritional plan for a dog or cat with copper hepatopathy. Review nutritional options for dogs and cats with portosystemic shunts, with and without hepatic encephalopathy. Discuss how to optimize a home-cooked diet for various liver diseases. Review how to make the best recommendations for supplements for liver disease. 	Dr. Valerie Parker
9:00-10:00 am	Nutritional Management of Hepatobiliary Disease - Part II Review optimal nutritional plan for a cat with hepatic lipidosis. Discuss how to optimize a home-cooked diet for various liver diseases. Review how to make the best recommendations for supplements for liver disease.	Dr. Valerie Parker
10:00-10:15 am	Break	
10:15-11:15 am	 Feline Non-Suppurative & Lymphoproliferative Cholangitis Recognize clinical and clinicopathologic features of feline NS-CCHS, including those unique to symptomatic ductopenia. Know the expected bile duct:artery and bile duct:portal tract metrics needed to confirm ductopenia to ensure ductopenia has not been overlooked. Recognize need to collect intestinal biopsies from duodenum, jejunum, ileum and samples from any prominent lymph nodes; open laparotomy or laparoscopic assisted sampling preferred to needle biopsy sampling. Be able to consider secondary sclerosing ductopenia that might be confused with ductopenic feline NS-CCHS 	Dr. Sharon Center
11:15 am- 12:15 pm	 Feline Suppurative Cholangitis Recognize clinical signs, clinicopathologic metrics of feline S-CCHS. Recognize causal disorders and common confusion with "idiopathic feline pancreatitis" caused by transiting choleliths that may be difficult to image with US. Recognize best bacterial culture strategies. Recognize commonality of infection and high likelihood of polymicrobial infection if only an anaerobic bacterial isolate is reported. Be familiar with survival advantage for disorders correctable by cholecystectomy (esp., cholelithiasis) and alleviation of biliary stasis. 	Dr. Sharon Center

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Tuesday, September 28, 2021		
Time (Mountain Time)	Topic	Presenter(s)
12:15-1:15 pm	Lunch Break 12:45-1:15 pm: Lunch and Learn – Sponsored by Royal Canin Open Forum Discussion with Pet Food Industry Partners	Dr. Adrienne Bautista Dr. Vincent Biourge Dr. Craig Datz, Dr. Danielle Dito
1:15-2:15 pm	Biliary Tract Disease in Dogs: Mucoceles Be familiar with breed risk and antecedent conditions increasing risk for GBM. Recognize clinical and clinicopathologic features that have survival-risk relevance. Describe the evolution of GBM maturation which assists case triage for surgical intervention. Recommend reasonable pre- and post-surgical interventions that assist recovery. Be aware of unusual cases of intra-abdominal extruded GBM.	Dr. Sharon Center
2:15-3:15 pm	 Biliary Tract Disease in Dogs: Cholecystitis, Cholangitis, Cholelithiasis Explain differential diagnoses for Non-GBM GB conditions including disorders leading to EHBDO. Describe the pathogenesis of canine cholelithiasis and associated comorbidities. Recognize GB hemobilia as a cause of serious enteric bleeding, associated US findings, diagnostic utility of color flow doppler, and association with neuroendocrine neoplasms. Recognize the importance of cholecystectomy in most GB disorders, unless biliary enteric anastomosis is a realistic consideration. Understand what is meant by ductopenia and ischemic cholangiopathy. 	Dr. Sharon Center
3:15-3:30 pm	Break	

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Tuesday, September 28, 2021		
Time (Mountain Time)	Торіс	Presenter(s)
3:30-4:30 pm	 Ductal Plate Malformations Understand the pathogenesis of ductal plate malformations. Recognize the various histologic appearances of ductal plate malformations. Understand the clinical implications of ductal plate malformations. 	Dr. John Cullen
4:30-5:30 pm	 Group Panel Discussion/Q&A: Controversies in Feline Liver Disease Recognize the controversies regarding the clinical significance of combination of mild inflammation of the liver, small intestines and pancreas. Recognize the benefits and limitations of different imaging modalities for the evaluation of the feline hepatobiliary system. Recognize the benefits and limitations of cytological evaluation of the feline hepatobiliary system. Recognize possible indications for surgery of the feline hepatobiliary system. 	Dr. Sharon Center, Dr. John Cullen, Dr. Jonathan Lidbury, Dr. Angela Marolf, Dr. Valerie Parker

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Wednesday, September 29, 2021		
Time (Mountain Time)	Торіс	Presenter(s)
8:00-10:00 am	 Hepatic Interventional Radiology: Lessons Learned Over Two Decades Recognize how IR techniques often provide an opportunity to better understand the disease process rather than simply providing a minimally invasive alternative treatment option. Explain how IR techniques often offer superior treatment options and outcomes compared to more conventional surgical treatments. Be familiar with the considerable (and growing) level of evidence that these techniques can improve the quality of life of our patients. Recognize when medical management of EHBDO should be considered based on recent research. 	Dr. Chick Weisse
10:00-10:15 am	Break	
10:15-11:15 am	Portal Hypertension: Case Series	Dr. Tarini Ullal
11:15 am- 12:15 pm	 Group Panel Discussion/Q&A: EHBO – When and How to Intervene Recognize challenges when imaging the biliary outflow tract of dogs and cats. Recognize potential indications for medical management of biliary tract disease. Recognize potential indications for surgical management of biliary tract disease. 	Dr. Tarini Ullal, Dr. Chick Weisse, Dr. Jonathan Lidbury
	Group Panel Discussion: overall course discussion and questions, course wrap up	Dr. Sharon Center, Dr. John Cullen, Dr. Hille Fieten, Dr. Jonathan Lidbury, Dr. Valerie Parker, Dr. Tarini Ullal, Dr. Chick Weisse
12:15 pm	Course Concludes	

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