

## Augusta Pelosi, DVM, DACVS, DACVIM (Cardiology)

Founder and CEO Veterinary Heart Institute

President and CEO of KORO Biomedical



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# Curriculum Vitae

## Education

August 8, 2007	AVMA Certification	Veterinary Medicine	American Veterinary Medical Association - Educational Commission for Foreign Veterinary Graduates (ECFVG)
1994-1999	DVM Summa cum Laude as valedictorian (March 31, 2000)	Veterinary Medicine	University of Pisa (Italy) and Erasmus at Autonomous University of Barcelona (Spain)

## Postdoctoral Training

2005-2007	Diplomate American College of Veterinary Cardiology (ACVIM-Cardiology)	Cardiology Residency (Board certification in 2014)	Michigan State University – College of Veterinary Medicine
2002-2005	Diplomate American College of Veterinary Surgeons (ACVS)	SA Surgery Residency (Board certification in 2007)	Michigan State University – College of Veterinary Medicine
2001-2002		Rotating small animal (SA) internship	Tufts University – College of Veterinary Medicine

## Faculty Academic Appointments

2008-2016	Professor of cardiology	Small Animal Clinical Sciences	Michigan State University – College of Veterinary Medicine
2007-2008	Research assistant	Small Animal Clinical Sciences	Michigan State University – College of Veterinary Medicine

## Appointments at Hospitals/Affiliated Institutions

2019-	Cardiologist		Veterinary Heart Institute
2018-	Associate Adjunct Professor	Surgery Department	University of Minnesota
2017- 2019	Medical Director		North American Veterinary Heart Center
2017- 2019	Cardiologist and cardiac surgeon	Cardiology Department	North American Veterinary Heart Center
2017-	Consultant	Cardiology Telemedicine	Idexx

2016-2017	Head Cardiologist		Coral Springs Animal Hospital
2016-2017	Consultant	Extracorporeal Life Support Research Laboratory	University of Michigan – Medical School - Cardiac Surgery Department
2015-2016	Cardiologist and surgeon consultant		University of Florida – College of Veterinary Medicine
2014-2015	Cardiologist and surgeon consultant		Rechord Medical Solutions
2010-2013	Cardiologist consultant		VCA Berwyn (Berwyn, IL)
2012-2016	Cardiologist consultant	In vivo pharmacology	Michigan State University
2014-2016	Cardiologist and surgeon consultant		Ball zoo in Grand Rapids

### Committee Service

#### National and International

2018-	ACVIM Rating Committee		American College of Veterinary Internal Medicine
2015-2018	ACVIM Cardiology Forum Subcommittee		American College of Veterinary Internal Medicine * Assistant Chair (2015-2016) * Chair (2016-2017) * Ad hoc member (2017-2018)
2012-2015	ACVS Research committee		American College of Veterinary Surgeons * Ad hoc member (2012-2015) * Assistant Chair (2013-2014) * Chair (2014-2015)

#### Professional Societies

2017-	International Veterinary Cardiac Surgery Society (IVCS)		Cofounder and member
2016-	American College of Cardiology		Member
2014-	American College of Veterinary Internal Medicine (Cardiology)		Diplomate and member
2007-	American College of Veterinary Surgery		Diplomate and member

## Grant Review Activities

2012-2015      Research committee      American College of Veterinary Surgeons

## Editorial Activities

2011-      Reviewer      Journal of American Animal Hospital Association (JAAHA)  
2011-      Reviewer      Journal of Veterinary Emergency and Critical Care (JVECC)  
2011-      Reviewer      Journal of Veterinary Cardiology (JVC)  
2012-      Reviewer      Veterinary record  
2012-      Member of the Editorial Board      Veterinary Surgery  
2013-      Reviewer      Veterinary Radiology and Ultrasound (VRU)  
2014-      Reviewer      Journal of Veterinary Internal Medicine (JVIM)

2014-2016      Associate editor      Veterinary Surgery

## Honors and Prizes

### Outside recognition

2015      Visiting scientist      Universita' di Padova – College of Veterinary Medicine

2012 and 2013      External Reviewer      Universita' di Milano – College of Veterinary Medicine

2011      Who's Who in the World  
Marquis Who's Who 2011, 28th Edition

Coauthor      VetCoach (in several editions)

### Clinical

May 2004      Clinical Appreciation award      Michigan State University – Veterinary Tech (Class 2004)

### Teaching

April 2005      Resident of the year award      Michigan State University – Veterinary class (Class 2005)

### Research

October 2004      MSU Phi Zeta research award (1st place)      Michigan State University

October 2004      Outstanding surgical resident competition      American College of Veterinary Surgeons      Resident research presentation award

### Education

1998-1999

Erasmus scholar award

Universita' of Pisa, Italy

2-yr paid scholarship to study at the Universitat Autònoma de Barcelona (UAB), Spain

## Report of Funded and Unfunded Projects

### Funding Information

#### Current



2016 PRIN - BRAVE - Biological Regenerating Antigens-free substitutes for heart Valve Endurance: clinical evaluation of allogeneic valves in pediatric and young adult patients and preclinical trial of xenogeneic valves in non-human primates

PRIN 2016

Col: (995,123 euro)

2014

Development of a dysphoria scale (DORA) for dogs and cats

Morris Animal Foundation

PI: (\$12,000)

2014

Development and testing of a novel canine annuloplasty ring for mitral valve Repair

Cavalier King Charles Spaniels Charitable Trust

PI (\$13,890)

#### Past



2013-2016

Testing of an annuloplasty ring

MC3 and NIH-SBBR (PI: Dr. Bolling S. and Biancucci B.)

PI for MSU (\$126,000.00)

2011-2013

ACT analyzers comparison to monitor effect of high dose heparin in dogs

Michigan State University - Endowed Research Funds Project

PI (\$24,852)

2009

LiDCO Plus continuous, real-time cardiovascular monitoring system

Michigan State University - Endowed Research Funds Project

Co-PI (\$19,330) PI: Dr. Brown A.

2007-2008

Michigan State University - Endowed Research Funds Project

PI (\$22,975)

Research project evaluating cardiovascular effect of adriamycin in dogs

2005-2006 Equicizer Systems  
Co-PI (191,579); PI; Dr Rosenstein D.  
Research project evaluating effect of exercise in obese dogs on a calorie-restricted diet

2004-2005 Bowling-Pfeizer  
Co-PI (\$250,000); PI: Dr Eyster GE  
Research project testing a catheter-based electromagnetic system for detection of outlet strut fractures in Bjork-Shiley valves

August 2010 Heart tumor detection in dogs: Is MRI more sensitive than echocardiography?  
Michigan State University - Endowed Research Funds Project  
Co-PI (\$24,993); PI; Dr Coelho JC

2013 Life expectancy database in dogs  
Canine Health Foundation  
PI (\$12,910) – no funded

2008 Michigan State University - Endowed Research Funds Project  
Co-PI (\$21,880); PI: Dr Brown A.  
Research project evaluating continuous cardiac output monitoring by arterial waveform analysis in a canine model of hemorrhagic shock

### Unfunded Projects

2009-2016 Thromboelastography changes in dogs undergoing bypass  
CoPI; (PI: Dr Koeninshof A)

## Report of Local Teaching and Training

### Teaching of Students in Courses

2016-2017		University of Florida – CVM Clinical student rotation
2007-2016	VM 543 (2 credits each semester) 110 VM students (2 <sup>nd</sup> year)	Michigan State University - CVM Curriculum classes in cardiology (2 hours per week per semester)
2004-2005	VM students (3 <sup>rd</sup> year)	Michigan State University - CVM Curriculum classes in surgical treatment of hernias - Laboratory practical surgical skills
2002-2004	VM students (3 <sup>rd</sup> year)	Michigan State University - CVM Laboratory practical surgical skills
2001-2002	VM students (2 <sup>nd</sup> and 3 <sup>rd</sup> year)	Tufts University - CVM Curriculum classes in shock, anemia, dilated

**Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)**

2009-2016	Michigan State University Board preparation for emergency and critical care residents
2019-2016	Michigan State University Board preparation for surgery residents

**Clinical Supervisory and Training Responsibilities**

Spring 2019	Midwestern University	Cardiology Clinic Rotation
Spring to Fall 2008-2016 (year round)	Michigan State University _ SCS 640 (3 credits each semester)	Cardiology clinic rotation with 4 DVM students/clerkship +/- tech student
Spring to Fall 2014	Michigan State University _ SCS 520 (3 credits each semester)	Surgery clinic rotation with 4 students/clerkship +/- tech student

**Laboratory and Other Research Supervisory and Training Responsibilities**

1996	Teaching/Research Assistant	2 semesters (1 hour per week)
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**Formal Teaching of Peers (e.g., CME and other continuing education courses)**

June, 2018	Core Imaging ultrasound series "Basic Echocardiography" Knoxville, TN	All day presentation to veterinarians
November 11, 2017	Core Imaging ultrasound series "Basic echocardiography" Princeton, NJ	All day presentation to veterinarians
November 14, 2009	"Congenital cardiac defects" Cardiology Symposium (Boehringer Ingelheim)	2 presentations (2 hours) Michigan State University
November 12, 2008	"ECG interpretation"	1 presentation (2 hours) Animal Cancer and Imaging Center
October 2006	Lab assistant Emergency and Critical care Conference	1 session Michigan State University

**Report of Regional, National and International Invited Teaching and Presentations**

## Invited Presentations and Courses

### REGIONAL

<i>February 2-4, 2018</i>	“From Auscultation to Transcatheter Valve Replacement: Evolution of Cardiology and Cardiac Surgery” VMX-AAHA (Orlando)
<i>June 6, 2016</i>	“How to run an open heart program” University of Florida – College of Veterinary Medicine
<i>April 2016</i>	“The past, the present and the future of open heart surgery” Coral Spring Animal Hospital
<i>January 30, 2016</i>	“Cardiology Topics” Michigan Veterinary Conference
<i>August 23, 2015</i>	“Overview of cardiac conditions in small Animals” M-CHIC
<i>2015</i>	“Surgical principles” “ Team building for veterinary surgery” Michigan Veterinary Conference
<i>2011</i>	“Heart surgery: a review of the literature” The Ohio State University
<i>2010</i>	“Introduction to cardiac surgery” “ABC of open heart surgery at MSU” Michigan Veterinary Conference
<i>December 2, 2009</i>	“Cardiac surgery” Talk to SACVS/SACVIM Michigan State University
<i>2005</i>	“Introduction to thoracoscopy and laparoscopy in veterinary medicine” Michigan Veterinary Conference
<i>2004</i>	Jugular vein graft for a modified Blalock-Taussig technique Phi Zeta research day
<i>2003</i>	Surgical intervention for congenital heart diseases” Michigan State University (Resident Seminar)

### NATIONAL

<i>June 2019</i>	Understanding Cardiac Surgery ACVIM Forum – Phoenix, AZ
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June 2018	Surgery Principles for the Interventional Cardiologist ACVIM Forum – Phoenix, AZ
June 2017	“Cardiac Surgery 101 and beyond” ACVIM Forum – Seattle WA
June 6, 2016	Round table with the expert ACVIM Forum – Seattle WA
2015	“Vascular Ring Anomalies: Using Cross-Sectional Imaging To Guide Surgery” ACVIM Forum – Washington DC
2015	“Cardiac Surgery Review” “Cardiac Cancer Panel Discussion” ACVIM Forum - Denver
October 21, 2010	“PDA treatment: Coil vs. Amplatz vs. Surgery: What is the evidence?” ACVS
October 8, 2004	“Cardiac surgery” University of Minnesota – College of Veterinary Medicine “ <i>Challenges of bypass in dogs</i> ”  ACVS Veterinary Symposium  “Jugular vein graft for a modified Blalock-Taussig technique” ACVS Veterinary Symposium

#### INTERNATIONAL

September 7, 2019	The biology of fracture healing: Vascularization and Neoangiogenesis ESVOT (Cremona, Italy)
September 5, 2019	Surgical Team Building . What It Is About And How Can It Have An Impact On Reducing My Complication Rate Time, room flow, briefing and debriefing ESVOT (Cremona, Italy)
January 6, 2016	“Cardiopulmonary emergencies in the dog and cat” (Emergenze Cardiopulmonary nel Cane e nel gatto) SVETPET (Padova- Italy)
October 2016	“Indications for Mitral Valve Surgery. The hourglass of heart surgery” International Cardiology Veterinary Symposium (Dubrovnick-Croatia)
July 6, 2015	“Open-Heart Surgery In Dogs: The Logistics And The Team Approach” “PDA: What Is The Evidence? Coil Vs. Amplatz Vs. Surgery (45 Min)” “Pacing The Heart: Where Are We At?” ECVS (Berlin-Germany)

July 30, 2014 ECVS (Copenhagen\_Denmark)

October 20, 2010 Cardiology review  
SCIVAC (Cremona-Italy)

## **Report of Clinical Activities and Innovations**

### **Licensure and Certification**

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5/1/2016 – present	State of Florida - Veterinary License DEA License
1/1/2014 – 31/12/2014	State of Michigan - Clinical Academic License Board of Pharmacy – Controlled Substance license
2/1/2012 – 1/31/2013	State of Illinois Veterinary License Board of Pharmacy – Controlled Substance license

### **Practice Activities**

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2019-present	Cardiologist	Veterinary Heart Institute
2017-2019	Cardiology and cardiac surgery	North American Veterinary Heart Center
2016-2017	Cardiology	Coral Spring Animal Hospital
2014-2016	Cardiology	Michigan State University
2014	General surgery	Michigan State University
2005-2013	Cardiac and thoracic surgery	Michigan State University
2012-2013	Cardiology	VCA Berwyn
2005-2013	Cardiology	Michigan State University
2002-2005	General surgery	Michigan State University

## **Report of Scholarship**

### **Publications**

## Peer reviewed publications in print or other media

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### Research investigations

**Pelosi A.**, Ball H., Sanders R., Olivier NB. Cardiovascular effect of doxorubicin in dogs (To be Submitted to Journal of Veterinary Cardiology)

**Pelosi A.**, Rosenstein D, Abood SK, Olivier B. Cardiac effect of experimental weight gain and weight loss in dogs. Vet Rec. 2013 Feb 9;172(6):153.

**Pelosi A.**, St. John L, Gaymer J, Ferguson D, Goyal SK, Abela GS, Rubinstein J Tissue Doppler Imaging in anesthetized New Zealand White Rabbits. J Am Assoc Lab Anim Sci. 2011;50(3):317-21

Rubinstein J, **Pelosi A.**, Vedre A, Kotaru P and Abela GS. Hypercholesterolemia and Myocardial Function Evaluated via Tissue Doppler Imaging. Cardiovascular Ultrasound 2009, 7:56

**Pelosi A.**, Rush J, Freeman LM, Farabough AE Seasonal and circadian variation in presentation of cats with congestive heart failure. Journal of Veterinary Emergency and Critical Care 18(6) 2008, pp 626–630

**Pelosi A.**, Eyster GE, Dejardin LM, Kiupel M, Olivier NB. Jugular vein for a modified Blalock Taussig Procedure. AJVR 2006 Jan; 67(1): 174-9

### Other peer-reviewed publications

**Pelosi A.**, Ball H. Cardiac surgery: a metanalysis review of the veterinary literature (Submitted to Veterinary Surgery)

**Pelosi A.**, Anderson LK, Paugh J, Robinson SE, Eyster G. Challenges of cardiopulmonary bypass-a review of the veterinary literature. Vet Surg. 2013 Feb;42(2):119-36.

Langlois D, **Pelosi A.**, Kruger J M Successful treatment of intracardiac and intraocular blastomycosis in a dog using combination azole therapy. JAAHA 2013 Jul-Aug;49(4):273-80.

**Pelosi A.**, Prinsen JK, Eyster GE, Schall W, Olivier NB Caudal vena cava kinking in dogs with ascites. Vet Radiol Ultrasound. 2012 May-Jun;53(3):233-5.

**Pelosi A.**, Côté E, Eyster GE, Congenital Coronary-Pulmonary Arterial Fistula in a German Shepherd Dog: diagnosis and surgical correction. J Vet Cardiol. 2011 Jun;13(2):153-8.

**Pelosi A.** Aortic thromboembolism: medical, surgical and interventional treatment. Veterinaria, 2009 Aprile; 23(2)

**Pelosi A.**, Hauptman JG, Eyster GE, Beal M, Anderson LK, Olivier NB. Myocardial perforation by a stick foreign body in a dog. Journal of Veterinary Emergency and Critical Care 2008 April; 18(2): 184–187

Reimer SB, **Pelosi A.**, Frank J, Kiupel M, Hauptman JG. Multiple endocrine neoplasia type I in a cat. JAVMA 2005 July; 227 (1): 101-104

Morales C, Pastor J, **Pelosi A.** Diagnóstico Laboratorial de las endocrinopatías caninas y felinas [Laboratory Diagnosis of Canine and Feline Endocrinopathies] Consulta de Difusión Veterinaria 8:74, 47-56

Pastor J, **Pelosi A**, Cuenca R. Diagnóstico Laboratorial: pancreas endocrino (diabetes mellitus, insulinoma y gastrinoma) [Laboratory Diagnostic Tests for Endocrine Pancreatic Disorders (Diabetes Mellitus, Insulin-secreting neoplasia and gastrinoma)]. Consulta de difusión Veterinaria 8:73, 61-69

#### Non-peer reviewed scientific or medical publications/materials in print or other media

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**Pelosi A. and C. Orton**, Cardiac Surgery. In Veterinary Surgery: Small Animal. 2<sup>nd</sup> ed. LR. Tobias K, Johnston S. Editors. Saunders Publisher. 2018

**Pelosi A.**, The Operating Room. In Veterinary Surgery: Small Animal. 2<sup>nd</sup> ed. LR. Tobias K, Johnston S. Editors. Saunders Publisher. 2018

**Pelosi A.**, Pericardial effusion. In Small Animal Surgical Emergencies. LR. Aronson editor. Wiley-Blackwell Publisher. December 2015

**Pelosi A**, Rubinstein J. Cardiac anatomy in Electrocardiography. In Electrocardiogram/Book 1. INTECH Open Access Publisher (Human electrocardiography book)

#### Professional educational materials or reports, in print or other media

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**Pelosi A**, Olivier NB, Anderson LK, Eyster GE. MVMA case of the month

#### Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings

**Pelosi A.** Challenges of bypass in dogs in Scientific Presentation abstract ACVS 2010

**Pelosi A.** Laparoscopy and thoracoscopy in veterinary medicine in Proceedings Michigan Veterinary Conference

**Pelosi A**, Hauptman, J.G. Biliary tract surgery in dogs, an assessment of mortality in scientific abstracts 3rd annual meeting Society of Veterinary Soft Tissue Surgery.

**Pelosi A**, Eyster GE, Olivier NB, Dejardin LM. "Jugular vein grafts for a modified Blalock Taussig Procedure" in Scientific Presentation abstracts ACVS 2004 and Vet Surg 2004 Sept; 33 (5): E17-E18 and Vet Surg 2005 May; 34 (3): E20

**Pelosi A.** Surgery of the biliary system - Prediction of risk in Proceedings Michigan Veterinary Conference

#### Interests

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1. Mitral valve repair
2. Animal model for cardiovascular research
3. Cardiovascular research and development
4. Preclinical valve transcatheter and non-catheter based