CURRICULUM VITAE

Andrew A. Pellett, PhD., RDCS, FASE

Date: December 20, 2024
School: Allied Health Professions
Department/Program: Cardiopulmonary Science

Current Title: Professor of Cardiopulmonary Science and Physiology/Associate Dean of Academic Affairs
Business Address: 1900 Gravier Street, New Orleans, Louisiana 70112
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Initial Appointment at LSUHSC Date: 5/1/1991
Current Academic Rank: Professor
Date of Appointment to Current Rank: 7/1/2016

Education:

Undergraduate:

5/1986 University of Vermont, Burlington, VT, B.S. in Biological Science

Graduate:

5/1991 Louisiana State University Medical Center, New Orleans, LA, School of Graduate Studies, Department of Physiology, Ph.D.

Certification:

1994 Registered diagnostic cardiac sonographer, American Registry for Diagnostic Medical Sonography

1994 Registered cardiovascular technologist (noninvasive), Cardiovascular Credentialing International (inactive)

Academic, Professional, and Research Appointments:

1991 Assistant Professor, Louisiana State University Medical Center, School of Allied Health Professions, Department of Cardiopulmonary Science, New Orleans, LA

1997 Associate Professor, Louisiana State University Health Sciences Center, School of Allied Health Professions, Department of Cardiopulmonary Science, New Orleans, LA

1998 Associate Professor, Louisiana State University Health Sciences Center, Schools of Medicine and Graduate Studies, Department of Physiology, New Orleans, LA

2003 Program Director, Adult Echocardiography/Cardiovascular Sonography Program, Louisiana State University Health Sciences Center, School of Allied Health Professions, Department of Cardiopulmonary Science, New Orleans, LA

2004 Interim Department Head, Louisiana State University Health Sciences Center, School of Allied Health Professions, Department of Cardiopulmonary Science, New Orleans, LA

2008 Department Head, Louisiana State University Health Sciences Center, School of Allied Health Professions, Department of Cardiopulmonary Science, New Orleans, LA

2016 Professor, Louisiana State University Health Sciences Center, School of Allied Health Professions, Department of Cardiopulmonary Science, New Orleans, LA

2023 Interim Associate Dean of Academic Affairs, Louisiana State University Health Sciences Center, School of Allied Health Professions, New Orleans, LA

2024 Associate Dean of Academic Affairs, Louisiana State University Health Sciences Center, School of Allied Health Professions, New Orleans, LA

Awards and Honors:

2001 Pfizer Award for Excellence in Research, Education, Patient Care and Community Outreach, LSU Health Sciences Center.

2005 Fellow of the American Society of Echocardiography

Teaching Awards:

2006 Dr. Allen A. Copping Award for Excellence in Teaching, School of Allied Health Professions, LSU Health Sciences Center.

TEACHING EXPERIENCE AND RESPONSIBILITIES

Curriculum Development/Implementation

2003 Completed self-study and applied to JRC-CVT for initial accreditation of Adult Echocardiography program.

2004 Achieved initial accreditation of Adult Echocardiography Program by Commission on Accreditation of Allied Health Education Programs (CAAHEP)

2007 Achieved continuing accreditation of Adult Echocardiography Program by Commission on Accreditation of Allied Health Education Programs (CAAHEP)

2008 Overhauled Department of Cardiopulmonary Science (CPS) curriculum. Program was changed from one to two tracks: respiratory therapy and cardiovascular sonography. Created new curriculum in vascular technology.

Formal Course Responsibilities

Course Director, Clinical Echocardiography I, lecture/laboratory course, undergraduate allied health students; 4 credits, 120 contact hours; taught since 2008.

Course Director, Clinical Echocardiography II, lecture course, undergraduate allied health students; 2 credits, 28 contact hours; taught since 2009.

Course Director, Cardiopulmonary Physiology, lecture course, undergraduate allied health students; 3 credits, 34 contact hours; taught since 2004.

Course Director, Sonography Principles and Instrumentation, lecture course, undergraduate allied health students; 2 credits, 20 contact hours; taught since 2008.

Course Director, Echocardiographic Interpretation, lecture course, undergraduate allied health students; 2 credits, 30 contact hours; taught since 2009.

Course Director, Cardiovascular Registry Review, lecture course, undergraduate allied health students; 2 credits, 28 contact hours; taught since 2010.

Course Director, Clinical Inquiry, lecture course, undergraduate allied health students; 1 credit, 9 contact hours; taught since 2021

Instructor, Cardiopulmonary Human Gross Anatomy, undergraduate allied health students; 1.5 contact hours

Instructor, Human Physiology, medical students; 6 contact hours; taught since 2025

Instructor, Biological Systems, graduate physical therapy and physician assistant studies students; 10 contact hours; taught since 2025

Undergraduate, Medical, or Graduate Student Research Projects:

Member of project committee for Beth Hamilton; received MHS in December 1995
Member of project committee for John Zamjahn; received MHS in May 1996
Member of project committee for Kevin Lord; received MHS in August 2000.
Head of project committee for Tim Cordes; received MHS in December 2000

RESEARCH AND SCHOLARSHIP

Grants and Contracts:

Funded

DeBoisblanc, B.P., Pellett, A., Johnson, R., Levitzky, M. Automated Determination of Pulmonary Capillary Pressure in Critically Ill Patients. Kinetic Concepts Incorporated. $150,000. 1995-1999. Role: Senior Investigator.

DeBoisblanc, B.P., Pellett, A., Johnson, R., Levitzky, M. Automated Determination of Pulmonary Capillary Pressure and Pulmonary Artery Occlusion Pressure in a Canine Model. Kinetic Concepts Incorporated. $50,000. 1999-2002. Role: Senior Investigator.

Pellett, A., Welsh, D., Lipscomb, G., & Johnson, R. Ventilator-Induced Lung Injury and Pulmonary Endothelium. LSUHSC School of Allied Health Professions Small Grants Program. $5000. 2001-2002. Role: Principal Investigator

Jazwinski, M. (Principal Investigator). P01 AG022064 (NIH/NHLBI). Determinants of Human Longevity and Healthy Aging. 5/1/04 – 4/30/09, $1,850,848 direct/year. This Program Project Grant examined the interrelationships between genetics, metabolism, and physical & psychological function in a population-based study. Role: Senior Investigator (Core A, Project 4), 4/06 – 4/30/09

Lammi, M. (Principal Investigator). Inhaled iloprost, dynamic hyperinflation, and oxidative stress in patients with COPD. Funded by Louisiana Clinical and Translational Science Center and Department of Medicine, Pulmonary/Critical Care Section. $79,313. 2013-2015. Role: Co-investigator.

Major Area of Research Interest:

Current area of interest is echocardiographic evaluation of diastolic function.

Journal Publications:

Refereed

Published:

Lammi MR, Ghonim MA, Johnson J, D'Aquin J, Zamjahn JB, **Pellett A**, Okpechi SC, Romaine C, Pyakurel K, Luu HH, Shellito JE, Boulares AH, deBoisblanc BP, Acute effect of inhaled iloprost on exercise dynamic hyperinflation in COPD patients: A randomized crossover study. *Respiratory Medicine*, https://doi.org/10.1016/j.rmed.2021.106354.

Pellett, A.A., Myers, L., Welsch, M., Jazwinski, S.M., & Welsh, D.A. (2013). Left atrial enlargement and reduced physical function during aging. J Aging Phys Act., 21:417-432.

Pellett, A.A., & Kerut, E.K. (2006). The Doppler velocity waveform. Echocardiography, 23(6):528-530.

Pellett, A.A., Tolar, W.G., Merwin, D.G., & Kerut, E.K. (2005). Doppler aliasing. Echocardiography, 22(6):540-542.

Pellett, A.A., Welsh, D.A., deBoisblanc, B.P., Lipscomb, G., Johnson, R.W., Lord, K.C., & Levitzky, M.G. (2005). Low positive end-expiratory pressure does not exacerbate nebulized-acid lung injury in dogs. J Crit Care, 20(1): 97-105.

Pellett, A.A., Tolar, W.G., Merwin, D.G., & Kerut, E.K. (2004). Spectral Doppler instrumentation. Echocardiography, 21(8):759-761.

Pellett, A.A., Tolar, W.G., Merwin, D.G., & Kerut, E.K. (2004) The Tei index: Methodology and disease state values. Echocardiography, 21(7):669-672.

Pellett, A.A., & Kerut, E.K. (2004). The Doppler equation. Echocardiography, 21(2):197-198.

Pellett, A.A., & Kerut, E.K. (2004). The Chiari network in an echocardiography student. Echocardiography, 21(1):91-93.

deBoisblanc, B.P., **Pellett, A**., Johnson, R., Champagne, M., McClarty, E., Dhillon, G., & Levitzky, M. (2003). Estimation of pulmonary artery occlusion pressure by an artificial neural network. Crit Care Med, 31(1): 261-266.

Pellett, A.A., Lord, K.C., Champagne, M.S., deBoisblanc, B.P., Johnson, R.W., & Levitzky, M.G. (2002). Pulmonary capillary pressure during acute lung injury in dogs. Crit Care Med, 30:403-409.

Pellett, A.A., Johnson, R.W., Morrison, G.G., Champagne, M.S., deBoisblanc, B.P., & Levitzky, M.G. (1999). A comparison of pulmonary arterial occlusion algorithms for estimation of pulmonary capillary pressure. Am J Respir Crit Care Med, 160:162-168.

Pellett, A.A., Cairo, J.M., & Levitzky, M.G. (1997). Hypoxemia and hypoxic pulmonary vasoconstriction: Autonomic nervous system vs. mixed venous PO2. Respir Physiol, 109:249-260.

Lippton, H.L., **Pellett, A**., Cairo, J., Summer, W.R., Lowe, R.F., Sander, G.E., Giles, T.D., Cohen, G., & Levitzky, M.G. (1989). Endothelin produces systemic vasodilation independent of the state of consciousness. Peptides, 10(5):939-943.

H-Index/indices: 9, Google Scholar, 1/18/2025

Book Chapters:

Pellett, A., Umland, M. Cardiac physiology. In: Anderson B, Park, MM, eds. *Basic to Advanced Clinical Echocardiography. A Self-Assessment Tool for the Cardiac Sonographer.* Philadelphia, PA: Wolters Kluwer; 2020:20-29.

Scientific Presentations/Published Abstracts/Oral Sessions and Posters:

Published Abstracts/Proceedings

Cairo, J., **Pellett, A**., Lippton, H., Summer, W., Hyman, A., & Levitzky, M. (1989). In vivo effects of endothelin on vascular dynamics. *FASEB J.* 3(3):A878.

Pellett, A., Cairo, J., and Levitzky, M. (1991). Muscarinic and beta-adrenergic receptors do not mediate the inhibition of hypoxic pulmonary vasoconstriction by hypoxemia. FASEB J. 5(5):A1429.

Pellett, A., Cairo, J., and Levitzky, M. (1996). Elevation of mixed venous PO2 maintains blood flow diversion from a hypoxic lung during hypoxemia. FASEB J. 10(3):A101.

Morrison, G., **Pellett, A**., Bell, G., Champagne, M., deBoisblanc, B., & Levitzky, M. (1996). Correlation of single and double vessel occlusion for the determination of pulmonary capillary pressure in the closed chest dog. Am J. Respir Crit Care Med 153(4):A604.

Johnson, R., **Pellett, A**., Morrison, G., Champagne, M., deBoisblanc, B., & Levitzky, M. (1997). Continual pulmonary arterial wedge pressure estimated beat-to-beat by a neural network. *Proceedings of the 19th Annual Conference of IEEE/EMBS*.

Pellett, A., Johnson, R., Morrison, G., Champagne, M., deBoisblanc, B., & Levitzky, M. (1997). Correlation of single- and double-vessel occlusion for the determination of pulmonary capillary pressure in the closed-chest dog. *FASEB J.* 11(3):A470.

deBoisblanc, B., Johnson, R., **Pellett, A**., Summer, W., & Levitzky, M. (1998). Estimation of pulmonary artery occlusion pressure (PAOP) by a neural network (NN). *Am J Respir Crit Care Med* 157(3):A527.

deBoisblanc, B., Johnson, R., **Pellett, A**., Summer, W., & Levitzky, M. (1998). Pulmonary capillary pressure (PCP) measurement during mechanical ventilation (MV). *Am J Respir Crit Care Med* 157(3):A527.

Johnson, R.W., **Pellett, A.A**., Morrison, G.G., Champagne, M.S., Levitzky, M.G., & deBoisblanc, B.P. (1998). Continuous estimation of pulmonary artery occlusion pressure by a neural network. *Crit Care Med* 26(1):A65.

Pellett, A., Johnson, R., Champagne, M., deBoisblanc, B., & Levitzky, M. (1998). Rapid versus slow inflation of pulmonary artery catheter balloon for determination of pulmonary capillary pressure in closed-chest dogs. *Crit Care Med* 26(1):A109.

Pellett, A.A., Lord, K., Champagne, M.S., deBoisblanc, B.P., Johnson, R.W., & Levitzky, M.G. (2000). Pulmonary capillary pressure dynamics during acute lung injury. *FASEB J.* 14(4):A604.

Pellett, A., Welsh, D., deBoisblanc, B., Lipscomb, G., Johnson, R., Lord, K., Cairo, J., Zamjahn, J., & Levitzky, M. (2002). A new model for assessing ventilator-induced lung injury. *FASEB J.* 16(5):A410.

Lord, K., McIlwain, E., **Pellett, A**., Lucchesi, P., & Varner, K. (2007). Heart rate-mediated changes in mitral annular velocity in rats. *FASEB J.* 21(6):A1258.

Lammi MR, Ghonim MA, Johnson J, D'Aquin J, Zamjahn JB, **Pellett A**, Okpechi SC, Romaine C, Pyakurel K, Luu HH, Shellito JE, Boulares AH, deBoisblanc BP, Acute effect of inhaled iloprost on exercise dynamic hyperinflation in COPD patients: A randomized crossover study. Respiratory Medicine, https://doi.org/10.1016/j.rmed.2021.106354.

Scientific Presentations

Poster

Pellett, A., Cairo, J., and Levitzky, M. (1991). Muscarinic and beta-adrenergic receptors do not mediate the inhibition of hypoxic pulmonary vasoconstriction by hypoxemia. Experimental Biology annual meeting.

Pellett, A., Cairo, J., and Levitzky, M. (1996). Elevation of mixed venous PO2 maintains blood flow diversion from a hypoxic lung during hypoxemia. Experimental Biology annual meeting.

Pellett, A., Johnson, R., Morrison, G., Champagne, M., deBoisblanc, B., & Levitzky, M. (1997). Correlation of single- and double-vessel

occlusion for the determination of pulmonary capillary pressure in the closed-chest dog. Experimental Biology annual meeting.

Pellett, A., Johnson, R., Champagne, M., deBoisblanc, B., & Levitzky, M. (1998). Rapid versus slow inflation of pulmonary artery catheter balloon for determination of pulmonary capillary pressure in closed-chest dogs. Society of Critical Care Medicine annual meeting.

Pellett, A.A., Lord, K., Champagne, M.S., deBoisblanc, B.P., Johnson, R.W., & Levitzky, M.G. (2000). Pulmonary capillary pressure dynamics during acute lung injury. Experimental Biology annual meeting.

Pellett, A., Welsh, D., deBoisblanc, B., Lipscomb, G., Johnson, R., Lord, K., Cairo, J., Zamjahn, J., & Levitzky, M. (2002). A new model for assessing ventilator-induced lung injury. Experimental Biology annual meeting.

Invited Presentations:

Measurement of pulmonary capillary pressure in the critically ill patient. Department of Physiology, Tulane University School of Medicine, New Orleans, LA, October 20, 1997.

Clinical measurement of pulmonary capillary pressure. Department of Physiology, LSU Medical Center, March 30, 1998.

Pulmonary capillary pressure dynamics. Department of Physiology, LSU Health Sciences Center, February 28, 2000.

Ventilator-induced lung injury: pulmonary endothelial involvement? Department of Physiology, LSU Health Sciences Center, April 1, 2002.

Accurate echocardiography measurements: What, how, and why. New Orleans Society of Echocardiography; Ochsner Kenner. February 2007.

How to measure left atrial volume. Imaging Society of Louisiana. Ochsner Medical Center, Jefferson, LA. February 4, 2015.

Aortic anatomy. American Society of Echocardiography Scientific Sessions, Boston, MA. June 14, 2015.

Standing up to the aortic valve. American Society of Echocardiography Scientific Sessions, Seattle, WA. June 11, 2016.

Assessing pulmonary hypertension. American Society of Echocardiography Scientific Sessions, Baltimore, MD. June 4, 2017.

Review of the diastolic function guideline: key points. American Society of Echocardiography Scientific Sessions, Nashville, TN. June 23, 2018.

How I teach echocardiography. First annual Echo Supervisor Summit (online). September 5, 2018.

Diastolic function guidelines update: key points. American Society of Echocardiography Scientific Sessions, Portland, OR. June 23, 2019.

Teaching proper echocardiographic measurement technique. Second annual Echo Supervisor Summit (online). September 18, 2019.

Understanding pressure traces. American Society of Echocardiography Scientific Sessions. Virtual presentation. June 2022.

Filling pressures defined. American Society of Echocardiography Scientific Sessions. Virtual presentation. June 2022.

Defending your echocardiographic measurements. Society of Diagnostic Medical Sonography annual conference. October 1, 2022.

Demystifying aortic stenosis. Society of Diagnostic Medical Sonography annual conference. October 1, 2022.

Understanding mitral regurgitation associated low gradient aortic stenosis. American Society of Echocardiography Scientific Sessions. June 24, 2023.

Videos, Electronic Media, and Multimedia:

Senior Contributor, "Proper Echocardiographic Measurements: How and Why" online, 3rd edition. American Society of Echocardiography, released 2023.

Pellett, A., Feinstein, S. "Teaching the teacher. How and what to teach medical students for the cardiac point of care ultrasound practical lab." American Society of Echocardiography, released 2018. https://aseuniversity.org/ase/activities/view/575

Senior Contributor, "Proper Echocardiographic Measurements: How and Why" DVD, 2nd edition. American Society of Echocardiography, released June 2018.

Senior Contributor, "Proper Echocardiographic Measurements: How and Why" DVD. American Society of Echocardiography, released November 2015.

Content Editor, "Best of ASE: Introduction to Diastology" DVD. American Society of Echocardiography, released December 2013.

Reviewer:

2003-2004	Referee, *Critical Care Medicine*
2008	External Reviewer, *Advances in Physiology Education*

2013	External Reviewer, *Medicine & Science in Sports & Exercise*
2017-present	Member, Editorial Board, *CASE (Cardiovascular Imaging Case Reports)*
2017	External Reviewer, *Cardiovascular Toxicology*
2019-2023	CME Editor, *CASE*

SERVICE AND ADMINISTRATION

University/Institutional Service:

LSUHSC (campus) committees

2021-present	Scientific Misconduct Committee
2017-2023	Facilitator/grader for TeamUP
2013-2015	Cafeteria Committee
2010-2020	Institutional Animal Care and Use Committee
2007-present	Standing Appeals Committee
2004-2005	Faculty Handbook Committee
2003-2004	Faculty Senate
2001-2008	Residence Hall Committee
1995-2004	Chancellor's Advisory Committee on Security
1993	Chair, Student Development Services Ad Hoc Committee for Southern Association of Colleges and Schools Review
1993(?)-present	Commencement Committee
1991-2007	Faculty advisor/editor-in-chief, LSUHSC yearbook

School committees

2023-2024	Chair, Faculty Manual Committee
2022	Chair, Student Handbook Revision Committee
2022-present	Chair, Academic Affairs Committee
2022-present	Chair, Copping Award Committee

2019	Member, Search Committee for Department Head, Clinical Laboratory Sciences
2018	Chair, Search Committee for Department Head, Communication Disorders
2016-2025	Chair, Promotion and Tenure Committee
2016-2022	Member, Academic Affairs Committee
2014-2015	Member, Search Committee for Department Head, Clinical Laboratory Sciences
2013-2016	Chair, Academic Affairs Committee
2012-2013	Member, Emerging Technologies Committee
2010-2013	Chair, Grants and Research Committee
2010	Chair, Search Committee for Department Head, Physical Therapy
2009	Chair, Search Committee for Department Head, Clinical Laboratory Sciences
2007-2013	Member, Academic Affairs Committee
2007-2010	Member, Grants and Research Committee
2007	Member, Search Committee for Department Head, Physical Therapy
2006-2016	Member, Promotion and Tenure Committee
2005	Member, Search Committee for Department Head, Rehabilitation Counseling
2004	Faculty Assembly, President
2003-2004	Faculty Assembly, Vice-president
2003-2004	Faculty Assembly delegate
1997-2000	Faculty Assembly delegate
2004	Faculty Productivity Documentation committee
1999-2005	Member, Grants and Research Committee
1997-2001	Member, Academic Affairs Committee

1997-2000	Member, Promotion and Tenure Committee
1991-1997	Member, Honors Committee

Departmental committees

1991-present	Admissions Committee

National Service:

Professional society committees

2017-present	Member, Guidelines and Standards Committee, American Society of Echocardiography
2017-present	Preliminary editor of Guidelines and Standards documents, American Society of Echocardiography
2016-2019	Member, Point of Care Task Force A, American Society of Echocardiography
2014-2017	Member, Registered Cardiac Sonographer Exam Committee, Cardiovascular Credentialing International
2014-2017	Member, Steering Committee, Council on Cardiac Sonography, American Society of Echocardiography
2014-2017	Member, Board of Directors, American Society of Echocardiography
2013-2016	Member, Education Committee, American Society of Echocardiography
2011	Faculty, Registry Review Course in Portland, OR, American Society of Echocardiography (taught ultrasound physics)
2011-2013	Member, Board, Council on Cardiac Sonography, American Society of Echocardiography
2010-2013	Member, Information Technology Committee, American Society of Echocardiography
2007-2014	Member, Certified Cardiographic Technician Exam Committee, Cardiovascular Credentialing International
2007-2010	Member, FASE Committee, American Society of Echocardiography

Membership in Professional Organizations:

American Society of Echocardiography, 1995 to present
American Physiological Society, 1997 to 2010
Society of Critical Care Medicine, 1997, 2000-2003
New Orleans Society of Echocardiography, 2000-2012
American Association for Respiratory Care, 2005 to 2011
Society of Diagnostic Medical Sonography, 2008 to 2021
Imaging Society of Louisiana, 2015 to 2019

Regulatory Agency/Accrediting Body Service:

2004-2020	Site visitor and self-study reviewer for Joint Review Committee on Education in Cardiovascular Technology

Administrative Responsibilities:

School

Associate Dean of Academic Affairs. Responsible for mediating student grade appeals and allegations of misconduct, and various other academic-related duties determined by School dean. Since 2023.

Departmental

Department head since 2004.

Director of Echocardiography program since 2004, Cardiovascular Sonography program since 2008.

Community Service Activities:

2011	Volunteer, Fore! Kids Foundation, PGA golf tournament
May, 2009	Participated in Orleans Parish Criminal Sheriff's Office Employee Family Day. Spirometry screening.
May, 2008	Participated in the American College of Allergy, Asthma, and Immunology's Nationwide Asthma Screening Program, St Thomas Community Wellness Center, 2010 Magazine Street, New Orleans, LA.
2002-2007	Volunteer, Friends of the Jefferson Animal Shelter
2001-2005	Volunteer, Fore! Kids Foundation, PGA golf tournament