Jeffrey Martin Pearl, M.D., F.A.C.S.

Associate Dean of Professional Health Education
Director of Clinical Anatomy
Executive Director, SMILE Simulation Center
Professor of Medical Education & Surgery
University of Texas at Tyler School of Medicine

CURRENT POSITIONS (2022–Present)

University of Texas at Tyler School of Medicine

- Associate Dean of Professional Health Education (previously Assistant Dean of Structure & Simulation)
- Director of Clinical Anatomy
- Executive Director, SMILE Simulation Center
- Professor of Medical Education & Surgery
- Medical Director Physician Assistant Program

Key Contributions

- Designed and implemented the *Structure* course (anatomy, histology, radiology, diagnostics, pathology, ECG, and skills).
- Founded and direct the SMILE Simulation Center, delivering multi-disciplinary training across UME, GME, CME, EMS, nursing, industry, disaster preparedness, and interprofessional education (IPE).
- Core faculty leader for vertical, horizontal, and spiral integration of Phase 1–3 SOM curricula.
- Course Director for three-semester Anatomy & Physiology sequence and one-semester Assessment & Physical Diagnosis course in the new CRNA program (launched 2025).
- Co-Course Director for Phase 1 “Balance” block.
- Mentorship of junior faculty and leadership on Curriculum, Assessment, and Dean’s Council committees.
- Instructor for ACLS and BLS.
- Simulation-based education for General Surgery, Internal Medicine, and Family Medicine residents with integrated IPE.
- Mentoring and development of Junior faculty and staff

Certifications & Honors

- ACUE Certificate in Effective College Instruction (2023)

- IPE Certification (2023)
- Advanced Simulation Instructor Certification (in progress)
- Inaugural Golden Apple Award for Teaching, UT Tyler SOM (2024)
- Vice-Chair, Surgery Section, Society for Simulation in Healthcare (2025–27)

Projects in Progress

- Development of new Physician Assistant Program (curriculum design, recruitment, fundraising, and clinical affiliation building).
- Development of new Cardiovascular Perfusionist Program.
- Lead Simulation Faculty for new Flight Nurse Program, including facility design and simulator acquisition.

PRIOR ACADEMIC & LEADERSHIP ROLES

University of California, Davis (2018–2022)

- Health Sciences Clinical Professor; Program Director, Physician Assistant Program, Betty Irene Moore School of Nursing
- Oversaw major curriculum revision and program accreditation.
- Developed integrated clinical anatomy and revised doctoring/clinical skills courses.
- Lecturer across multiple domains: primary care, ENT, neurology, cardiovascular disease, emergency medicine, surgery.
- Faculty development in curriculum design, assessment, and teaching.
- Committee member for IPE program development (DNP, PA, MEPN).

University of Arizona College of Medicine – Phoenix (2010–2018)

- Professor of Child Health; Co-Director of Clinical Anatomy
- Doctoring Faculty (history, physical exam, oral/written presentation, management).
- Simulation Instructor for medical students and residents.
- Member, Curriculum Oversight Committee.

Creighton University School of Medicine, Phoenix Regional Campus (2018–2020)

- Professor of Surgery; curriculum consultant and developer.

Mayo Clinic (2008–2014)

- Professor of Surgery
- Adult congenital surgeon and transplant team member.

Midwestern University – Physician Assistant Program (2013–2016)

- Professor & Program Director
- Led department in recruitment, faculty mentoring, curriculum design, student evaluation, and accreditation.
- Directed Clinical Simulation, ER Medicine & Surgery, Physical Diagnosis, and Clinical Medicine courses.
- PI, HRSA Grant: Expansion of rural healthcare training sites.
- Director of Academic PA Fellowship.
- Advisor, Ben Gurion University Medical School, Israel (first PA program).

Phoenix Children's Hospital (2007–2013)

- Section & Division Chief, Pediatric Cardiothoracic Surgery
- Founding faculty in partnership with University of Arizona COM–Phoenix.

Cincinnati Children's Hospital Medical Center (1997–2006)

- Surgical Director, Pediatric Heart Transplantation
- Director, Cardiac Surgery Research Lab
- Associate Professor of Surgery, University of Cincinnati
- Interim Surgical Director, Adult Heart Transplantation
- Assistant Professor of Clinical Surgery, University of Cincinnati

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INDUSTRY & CLINICAL LEADERSHIP

- **Principal Investigator, Celerion Inc.** (2016–2018): Led Phase I/II clinical trials for pharma/biotech.
- **Medical Director, UnitedHealthcare Group** (2019).
- **Heart & Lung Procurement Surgeon**, Mayo Clinic & University of Arizona (2015–2018).

EDUCATION & TRAINING

- **MD** – University of California, Los Angeles School of Medicine (AOA), 1986–1988
- **BA, Physiology** – University of California, Berkeley (Highest Honors), 1984
- **Residency & Fellowship** – UCLA Medical Center
    - General Surgery Residency (1988–1994; Chief Resident 1994)
    - Research Fellowship, Cardiothoracic Surgery (1990–1992)
    - Cardiothoracic Surgery Residency (1994–1996; Chief Resident)
    - Fellowship in Congenital Heart Surgery & Transplantation (1996–1997)

BOARD CERTIFICATIONS

- American Board of Surgery (Inactive), #40255, 1995
- American Board of Thoracic Surgery, #5992, Active since 1997
- UNOS-Certified Transplant Surgeon

LICENSURE

- Texas (Active 2025–26)
- Arizona (Active, 2007 & 2019)
- California (Active, 1989, renewed 2018, 2025)

PROFESSIONAL MEMBERSHIPS

- Society for Simulation in Healthcare (Vice-Chair, Surgery Section)
- Congenital Heart Surgeons' Society (Emeritus)
- Society of Thoracic Surgeons
- American Association for Thoracic Surgery
- American College of Surgeons (Fellow)
- American Association of Physician Assistants
- Physician Assistant Education Association
- Former Fellow, American College of Cardiology
- Former Fellow, American Academy of Pediatrics
- Society of University Surgeons (Inactive)

SELECT HONORS & AWARDS

- Golden Apple Teaching Award, UT Tyler SOM (2024)
- UC Davis SoTL Award, "Active Learning in Gross Anatomy Laboratory" (2018)

Grants and Research

2013-2018 HRSA- Expansion of Rural and Underserved Training Sites- PI, $1,200,000 Principle Investigator

2011 Schneider Foundation Grant- BNP in palliated single ventricle patients- $75,000- Phoenix Children's Hospital

2008 Leadership Circle Grant, Phoenix Children's Hospital Foundation, $24,000 Peri-bypass Changes in Sodium, Glucose, and Serum Osmolality in Infants and Children

2005-2009 Investigator, National Institutes of Health, Heart Lung and Blood Institutes **NIH RO1 Grant** R01HL077653-01A1 Calpain and Calcium Regulation of reperfusion Injury, $1,320,000.

2005 American Heart Association Ohio Valley Affiliate Undergraduate Student Fellowship Calpain's Role in Cardiac Dysfunction Associated with Ischemia and Reperfusion,$30,000

2004-2006 **NIH RO3**: Investigator National Institutes of Health, National Institute of child Health and Human Development –1 RO3 HD046896-01Alleviation of Reperfusion-Mediated Cardiac Dysfunction $149,00

2003-2005 American Heart Association-Ohio Valley Affiliate Grant-in-Aid (Dr. Duffy)- Calpain/Calpastatin Regulation of Reoxygenation Injury in Neonates. $88,000

2003-2004 Investigator Trustee Grant: Children's Hospital Medical Center, Endothelin-1 and Nitric Oxide in Acute Hypoxia Pulmonary Hypertension,. $40,000

2003-2004 Investigator translational Research Initiative, Cincinnati Children's Hospital Medical Center

2002-2004 American Heart Association-Ohio Valley Affiliate 0365295B "Cardiopulmonary Bypass-Related Myocardial Injury in Neonates" $110,000

2000-2002 American Heart Association Ohio Affiliate: The Role of Nitric Oxide in the Regulation of ICAM- 1During Myocardial Hypoxia and Reoxygenation

#0060317B, $70,000,

1999-2000 Children's Heart Foundation Grant Recipient- Hypoxia- Reoxygenation In

Grant Review AHA-7 years

Grant Reviewer NIH Subsection- 3 years

Recent Presentations

1. An Interdisciplinary Mass Casualty Incident Through the Eyes of A Sim Ops Specialist (From Design to Implementation) IMSH Annual Meeting, 2026
2. Laying the Foundation EMT Training and Simulation as a First Step in Medical School IMSH Annual Meeting, 2026
3. Coordinated Chaos: Designing and Implementing a Large-Scale Interprofessional Mass Casualty Simulation IMSH Annual Meeting, 2026
4. *Using an MCI Simulation to Evaluate UME Learners, IAMSE 2025*
5. *Designing a Simulation Lab for the 21st Century, IAMSE 2025*
6. *Using Simulation to Reinforce Anatomy and Physiology, IAMSE 2025*
7. *Leveraging Simulation to Achieve EPA Milestones* — Grand Rounds, UT Tyler SOM, Dec 2024
8. *The Use of Simulation in Medical School to Solidify and Apply Clinical Anatomy* — IMSH Annual Meeting, 2025
9. *Lessons Learned from Developing an Integrated Simulation Center* — IMSH Annual Meeting, 2025
10. *Grand Rounds (CME)* — UT Tyler Health, Dec 6, 2024
11. *Panel on Simulation* — UT Tyler Pre-Health Conference, Feb 2024
12. *A 21st-Century Mixed Methodology Approach to Teaching Anatomy Using Clinical Vignettes for Self-Directed Learning* — Shine Academy, March 2024
13. *All Things Cardiac* — Invited Speaker, Fall Symposium, TJC Respiratory Therapy, 2023
14. *Pulmonary Assessment, Diagnosis, Management* — Invited Speaker, Spring Symposium, TJC Respiratory Therapy, March 2023
15. *Use of Clinical Vignettes for Self-Directed Anatomy Instruction in Medical School* — IMSH Annual Meeting, San Diego, Jan 2023
16. *A 21st-Century Mixed Methodology Approach to Teaching Anatomy Using Clinical Vignettes* — IMSH Annual Meeting, San Diego, Jan 2023
17. Invited Panelist — UT Tyler Career Success Conference, Oct 2022
18. Invited Speaker — UT Tyler Undergraduate Presentation on UTSOM, Nov 2022
19. *Integration of Anatomy in Medical Education: Use of Virtual Anatomy* — AT Still University, 2019
20. *Modern Approach to Teaching Anatomy: Focus on Clinical Relevance and Application* — AT Still University, 2018
21. *Active Learning in the Gross Anatomy Laboratory* (Sandholdt & Pearl) — UC Davis SOTL, 2018 (First Place Award)

22. UC Davis Pre-Health Fair (2016–2018): Panels on PA/MD Careers, PA Admissions, and Surgeon-PA Relationships
23. *Careers in Medical Education* — SEAK Annual Meeting, Oct 2016
24. *Pericardial Disease* — APACVS 35th Annual Meeting, Las Vegas, 2016
25. *Sternal Wound Infections* — APACVS 37th Annual Meeting, Miami, 2018
26. *Rotation Shortages in Physician Assistant Education* — PAEA Education Forum, Nov 2015; AAPA Annual Meeting, May 2015
27. FOX News TV Spot: *Gluten Allergy and Celiac Disease*, May 2014
28. CBS Radio Spot: *Teen Athlete Nutrition*, March 2014

Invited Moderator and Speaker Roles

1. *New Dimensions in Heart Failure: Transplantation for Adults with Congenital Heart Disease* — Pro/Con Session, Accel Healthcare, Mason, OH, June 2000
2. *The Shelhigh Experience in Cincinnati* — Shelhigh Valve, Inc., New York, July 2000
3. *What's New in Bypass Support* — Samuel Kaplan Lectureship, Cincinnati, Sept 2000
4. *Ultrafiltration During Pediatric Cardiac Surgery: Techniques and Benefits* — American College of Surgeons, Chicago, Oct 2000
5. *Repair of Pulmonary Atresia and MAPCAS* — Pediatric Grand Rounds, Cincinnati, Dec 2000
6. *Pediatric Cardiac Critical Care: Heart Transplantation — Indications and Outcomes* — SCCM, San Francisco, Feb 2001
7. *RV-PA Conduits: Choices and Management* — ACC, Atlanta, March 2002
8. Visiting Professor — Hadassah University Medical Center, Jerusalem, Nov 2002
9. Wolfson Medical Center, Israel, Nov 2002:
    - *Hypoplastic Left Heart Syndrome in the 21st Century*
    - *Glucocorticoids and Pulmonary Hypertension after Bypass*
10. *Heart Transplantation Update* — Cincinnati Children's Hospital, April 2003
11. *Basic Science in Pediatric Heart Surgery* — Surgical Grand Rounds, UCLA, March 2004
12. Invited Discussant — AATS 84th Annual Meeting, San Francisco, April 2005
13. *Adult and Pediatric Assist Devices* — SCCM, Feb 2007
14. Faculty, 9th Annual Update in Pediatric Cardiology (CHOP), Scottsdale, AZ, 2008 — *Pulmonary Valves and Conduits*
15. Faculty, CHOP Pediatric Cardiology Update, Feb 2011:

- *Pediatric Heart Transplantation*
- *Crew Training in Cardiac Surgery*

16. Faculty Moderator — Academic Surgical Congress, Feb 2011
17. *Heart Transplantation in Complex Congenital Heart Disease* — UCSF Surgery Grand Rounds, May 2011
18. *Simulation in Cardiac Surgery* — 22nd Annual ELSO Conference, Sept 2011
19. *RVOT Reconstruction: Future Needs* — W.L. Gore, Nov 2012
20. *Hypovolemic Shock* — University of Arizona COM-Phoenix, April 2013
21. (See also APACVS and AT Still University talks listed in Recent Presentations, 2016–2018)

Book Chapters

1. Pearl JM, Haas G, Laks H. *Management of Complications Related to Extracardiac Conduits*. In: *Management of Complications in Cardiothoracic Surgery*. Year Book.
2. Haas GS, Laks H, Pearl JM. *Modified Fontan Procedure*. In: *Advances in Cardiac Surgery*, Vol 1, Year Book Medical Publishers, 1990.
3. Laks H, Billingsley A, Drinkwater D, George B, Pearl JM, Wu A. *Clinical Experience with Blood Cardioplegia in Infants and Children*. In: *Perspectives in Pediatric Cardiology, Part 3*, Futura, 1990.
4. Pearl JM, Laks H. *Current Status of the Modified Fontan Procedure*. In: *Cardiac Surgery Annual*, Yacoub M (ed), 1991.
5. Pearl JM, Laks H, Drinkwater DC. *Repair of Conotruncal Abnormalities with Valved Conduit*. In: *Yearbook of Cardiology*, Mosby, 1993.
6. Pearl JM, Laks H. *Surgical Management of CHD in Down's Syndrome*. In: *Perspectives in Pediatric Cardiology, Part 4*, 1994.
7. Pearl JM, Permut L, Laks H. *Tricuspid Atresia*. In: *Glenn's Textbook of Cardiovascular Surgery*, 6th ed, Appleton & Lange, 1995.
8. Laks H, Pearl JM. *CHD and Down Syndrome: Intervention and Outcomes*. In: *Heart Disease in Persons with Down Syndrome*, Brookes, 1996.
9. McLean KM, Lombardi JM, Pearl JM. *Cardiopulmonary Bypass*. In: *Pediatric Critical Care Medicine*, Wheeler DS (ed), Springer, 2007.
10. Pearl JM, Duffy JY, McLean KM. *Pediatric Myocardial Protection*. In: *Pediatric Critical Care Medicine*, Wheeler DS (ed), Springer, 2007.
11. Graziano J, Pearl JM. *Pulmonary Valve Stenosis*. In: *Cardiothoracic Surgery Review*, LWW, 2011.
12. Pearl JM. *Aortopulmonary Window*. In: *Cardiothoracic Surgery Review*, LWW, 2011.
13. Pearl JM. *Partial Anomalous Pulmonary Venous Return*. In: *Cardiothoracic Surgery Review*, LWW, 2011.
14. McMullan DM, Pearl JM. *Intra-Aortic Balloon Pump*. In: *New and Developing Technologies for Ventricular Assistance*, LWW, Dec 2011.

Historical Presentations

1. Keyvanjah K, Fang P, Cooke B, DiPrimeo D, Pearl J. *A drug–drug interaction study evaluating the effect of multiple doses of ranitidine administered once daily or staggered twice daily on the pharmacokinetics and safety of neratinib in healthy subjects.* ACCP Global Conference on Clinical Pharmacy, Seattle, WA, 2018.
2. Sandholdt L, Pearl J. *Active learning in the gross anatomy laboratory.* SOTL, UC Davis, 2018.
3. Pearl J. *Current management of sternal wound infections.* APACVS 37th Annual Meeting, Miami, FL, 2018.
4. Pearl J. *Pericardial disease.* APACVS 35th Annual Meeting, Las Vegas, NV, 2016.
5. Pearl JM. *Role of BNP monitoring in congenital heart surgery.* American Academy of Pediatrics National Meeting, New Orleans, LA, 2012.

6. Pearl JM, Plank D, Duffy J. *Glucocorticoids attenuate the alterations in intracellular calcium handling seen in myocytes subjected to ischemia–reperfusion.* STS 44th Annual Meeting, Ft. Lauderdale, FL, 2008.
7. Pearl JM, Zingarelli B, Wong H, Duffy J. *Epigallocatechin-3-gallate moderates nitric oxide production during ischemia and reperfusion of cardiomyocytes.* STS 44th Annual Meeting, Ft. Lauderdale, FL, 2008.
8. Duffy JY, Plank DM, Schwartz SM, McLean KM, Pearl JM. *Glucocorticoid administration improves calcium handling by cardiomyocytes after ischemia and reperfusion.* American Heart Association Heart Failure Symposium, Keystone, CO, 2005.
9. McLean KM, Pearl JM, Johnstone S, et al. *Inhibition alleviates troponin I degradation after hypoxia and reoxygenation on cardiopulmonary bypass in pigs.* American Heart Association Heart Failure Symposium, Keystone, CO, 2005.
10. McLean KM, Pearl JM. *Steroids prior to brain death shift the balance between pro- and anti-inflammatory mediators in porcine myocardium.* Postdoctoral Scholars Research Forum, University of Cincinnati College of Medicine, 2005.
11. Pearl JM. *Calpain inhibition prevents acute myocardial dysfunction and apoptosis associated with reperfusion injury.* American College of Cardiology 54th Annual Scientific Session, Orlando, FL, 2005.
12. Pearl JM. *Glucocorticoids suppress pulmonary hypertension after cardiopulmonary bypass by reducing endothelin and neutrophil adhesion molecules in neonatal lungs.* 8th International Congress of Cardiothoracic and Vascular Anesthesia/19th International Congress of the Israel Society of Anesthesiologists, Tel Aviv, Israel, 2002.
13. Pearl JM. *Superoxide dismutase administration reduces reoxygenation-induced cardiac dysfunction in neonates.* 8th International Congress of Cardiothoracic and Vascular Anesthesia/19th International Congress of the Israel Society of Anesthesiologists, Tel Aviv, Israel, 2002.
14. Pearl JM. *Superoxide dismutase administration reduces reoxygenation-induced cardiac dysfunction in piglets.* American Academy of Pediatrics National Congress, 2002.
15. Pearl JM. *Biventricular repair following Norwood palliation.* Society of Thoracic Surgeons 38th Annual Meeting, Ft. Lauderdale, FL, 2002.
16. Pearl JM. *Early failure of the Shelhigh pulmonic valve conduit in infants: The Cincinnati experience.* Society of Thoracic Surgeons 38th Annual Meeting, Ft. Lauderdale, FL, 2002.
17. Pearl JM. *Glucocorticoids reduce ischemia–reperfusion induced myocardial apoptosis in immature hearts.* Society of Thoracic Surgeons 38th Annual Meeting, Ft. Lauderdale, FL, 2002.
18. Pearl JM. *Perioperative glucocorticoids result in improved hemodynamics and LV function in neonatal piglets undergoing circulatory arrest.* American Heart Association 74th Scientific Sessions, Anaheim, CA, 2001.
19. Pearl JM. *Inhaled nitric oxide resulted in rebound pulmonary hypertension and cellular damage after hypoxia/reoxygenation.* American Heart Association 73rd Scientific Sessions, New Orleans, LA, 2000.
20. Pearl JM. *Glucocorticoids prior to and during cardiopulmonary bypass decrease cardiac and pulmonary dysfunction after hypothermic circulatory arrest.* Association of Academic Surgeons 34th Annual Meeting, Tampa, FL, 2000.

21. Pearl JM. *Inhaled nitric oxide is associated with increased endothelin-1 levels: A potential cause of rebound pulmonary hypertension.* American Heart Association Scientific Sessions, Atlanta, GA, 1999.
22. Pearl JM. *L-arginine worsens post-reoxygenation pulmonary hypertension and lung function by increasing endothelin-1 rather than by peroxynitrite formation.* American Heart Association Scientific Sessions, Atlanta, GA, 1999.
23. Pearl JM. *Increased endothelin-1 levels: A potential cause of the rebound pulmonary hypertension phenomenon.* American Academy of Pediatrics, Section on Cardiology, Washington, DC, 1999.
24. Pearl JM. *Endothelin-1 blockade with bosentan decreases post-reoxygenation ventricular dysfunction and leukocyte-mediated injury.* American Academy of Pediatrics, Section on Cardiology, Washington, DC, 1999.
25. Pearl JM. *Endothelin-1 blockade with bosentan prevents late hypoxia–reoxygenation induced pulmonary hypertension and improves pulmonary function.* Society of Thoracic Surgeons 35th Annual Meeting, San Antonio, TX, 1999.
26. Pearl JM. *Effect of modified ultrafiltration on plasma thromboxane, leukotriene, and endothelin-1 in infants undergoing cardiopulmonary bypass.* Society of Thoracic Surgeons 35th Annual Meeting, San Antonio, TX, 1999.
27. Pearl JM. *Acute hypoxia and reoxygenation impairs exhaled nitric oxide release suggesting bronchial epithelial injury.* American Heart Association 71st Scientific Sessions, Dallas, TX, 1998.
28. Pearl JM. *Hyperoxia: The missing link for management of acid–base status during deep hypothermia and circulatory arrest.* American Heart Association 71st Scientific Sessions, Dallas, TX, 1998.
29. Pearl JM. *Hypoxia and reoxygenation injury.* 7th Biennial Kaplan Cardiology Series, Cincinnati, OH, 1998.
30. Pearl JM. *Pediatric heart transplantation.* Pediatric Grand Rounds, Cincinnati Children's Hospital, Cincinnati, OH, 1998.
31. Pearl JM. *Loss of endothelium-dependent vasodilatation and nitric oxide release following myocardial protection with University of Wisconsin solution.* American Heart Association 65th Scientific Sessions, New Orleans, LA, 1992.
32. Pearl JM. *Normocalcemic blood or crystalloid cardioplegia provides superior neonatal myocardial protection over low-Ca^{2+} cardioplegia.* American Association of Thoracic Surgery Annual Meeting, 1992.
33. Pearl JM. *Leukocyte-depleted reperfusion of transplanted human hearts: A randomized, double-blind clinical trial.* International Society of Heart and Lung Transplantation, San Diego, CA, 1992.
34. Pearl JM. *Leukocyte-depleted reperfusion.* Department of Surgery Grand Rounds, UCLA Medical Center, Los Angeles, CA, 1992.
35. Pearl J. *Myocardial preservation and reperfusion: New advances.* Division of Cardiothoracic Surgery Grand Rounds, UCLA Medical Center, Los Angeles, CA, 1992.
36. Pearl JM. *Modified Fontan procedure in patients less than four years of age.* Southern California Chapter, American College of Surgeons, 1992.
37. Pearl JM. *Oxygenated perfluorochemical cardioplegia results in 100% functional recovery compared to blood cardioplegia.* Southern California Chapter, American College of Surgeons, 1992.

38. Pearl JM. *Leukocyte-depleted reperfusion of transplanted human hearts prevents ultrastructural evidence of reperfusion injury.* Association for Academic Surgery 25th Annual Meeting, Colorado Springs, CO, 1991.
39. Pearl JM. *Modified Fontan in patients <4 years of age.* American Heart Association 64th Scientific Sessions, Anaheim, CA, 1991.
40. Pearl JM. *Repair of truncus arteriosus in infancy.* Society of Thoracic Surgeons 27th Annual Meeting, San Francisco, CA, 1991.
41. Pearl JM. *Total cavopulmonary anastomosis versus the conventional modified Fontan procedure.* Society of Thoracic Surgeons 27th Annual Meeting, San Francisco, CA, 1991.
42. Pearl JM. *Repair of complex congenital heart disease with the use of a valved conduit.* American College of Cardiology 38th Annual Scientific Session, Anaheim, CA, 1989.
43. Pearl JM. *Comparison of cryopreserved homograft to porcine-valved Dacron conduit in repair of RV–PA discontinuity.* Cardiothoracic Grand Rounds, UCLA Medical Center, Los Angeles, CA, 1989.
44. Pearl JM. *Repair of complex congenital heart disease with the use of the valved conduit.* American College of Surgeons Southern California Chapter, Palm Springs, CA, 1989.
45. Pearl JM. *The use of an adjustable intra-atrial communication in patients undergoing the Fontan and definitive right heart procedures.* American Heart Association 61st Scientific Sessions, Washington, DC, 1988.
46. Pearl JM. *Morphine- and methadone-dependent rats exhibit different sensitivities to α-interferon modulation of withdrawal.* International Society of Neuroscience Annual Meeting, Washington, DC, 1986.

Abstracts

1. Keyvanjah K, Fang P, Cooke B, DiPrimeo D, Pearl J. *A drug–drug interaction study evaluating the effect of multiple doses of ranitidine administered once daily or staggered twice daily on the pharmacokinetics and safety of neratinib in healthy subjects.* J ACCP. 2018.
2. Duffy JY, Pearl JM, Wagner CJ, Petrucci O, Hirsh R. *Overexpression of Calpastatin Domains L and 1 reduces ischemia–reperfusion–induced cardiopulmonary dysfunction in neonatal piglets.* American Academy of Pediatrics, Washington, DC. 2009.
3. Pearl JM, Duffy J. *Calpain inhibition reduces reperfusion injury in immature hearts.* AAP. 2009.
4. Schoettmer E, Duffy J, Pearl JM. *Subcellular localization of calpastatin in cardiomyocytes subjected to ischemia and reperfusion.* AHA. 2009.
5. Pearl JM, Plank D, Duffy J. *Glucocorticoids attenuate the alterations in intracellular calcium handling seen in myocytes subjected to ischemia–reperfusion.* STS Annual Meeting, Ft. Lauderdale, FL. Jan 2008.
6. Pearl JM, Duffy J. *EGCG moderates nitric oxide production during ischemia–reperfusion of cardiomyocytes.* STS Annual Meeting, Ft. Lauderdale, FL. Jan 2008.
7. Gudausky TM, Pearl JM, Kim E, Divanovic A, Dent CL, Spicer R, Beekman RH. *Open-chest epicardial approach to transcatheter pulmonary artery stenting following heart transplantation in an infant.* Submitted 2006.

8. Pandalai PK, Lyons JL, Wagner CJ, McLean KM, Duffy JY, Pearl JM, Akhter SA. *The role of the β-adrenergic receptor kinase in myocardial dysfunction following brain death.* 2005.
9. Pearl JM, Lyons JM, Lombardi J, Wagner CJ, Duffy JY. *Calpain inhibition prevents acute myocardial dysfunction and apoptosis associated with reperfusion injury.*
10. Lyons JL, Duffy JY, Wagner CJ, Akhter S, Pearl JM. *Glucocorticoid administration attenuates brain-death–induced cardiac dysfunction.* 2005.
11. Dent C, Schwartz S, Spaeth J, Pearl J, Kurth CD. *Impaired cerebral oxygenation is common in the perioperative Norwood period.* Circ Suppl. 2004;110:17.
12. Lyons JM, Duffy JY, Wagner C, Pearl J. *Effects of sildenafil citrate on cardiopulmonary function following hypoxia–reoxygenation on cardiopulmonary bypass.* JAMS. 2003;137(3 Suppl).
13. Pearl JM, Schwartz SM, Nelson DP, Duffy JY. *Glucocorticoids suppress pulmonary hypertension after cardiopulmonary bypass by reducing endothelin-1 and neutrophil adhesion molecules in neonatal lungs.* ACC. 2003.
14. Pearl JM, Wagner CJ, Duffy JY. *Superoxide dismutase reduces reoxygenation-induced cardiopulmonary dysfunction in the immature heart.* ACC. 2003.
15. Schroeder VA, Cripe L, Pearl JM. *Mitral valve Z-score predicts need to close atrial shunts at time of coarctation repair.* ACC. 2003.
16. Pearl JM, et al. *Superoxide dismutase administration reduces reoxygenation-induced cardiac dysfunction in neonates.* AAP. Oct 2002.
17. Border WL, Syed AU, Michelfelder E, Khoury P, Uzark K, Manning PB, Pearl JM. *Impaired systemic ventricular relaxation affects postoperative short-term outcomes in Fontan patients.* ACC. 2002.
18. Schroeder VA, Pearl JM, Schwartz SM, et al. *Glucocorticoid pretreatment for congenital heart surgery improves cardiac output and reduces bypass-induced inflammatory mediator expression.* ACC. 2002.
19. Schwartz SM, Duffy JY, Pearl JM, et al. *Glucocorticoids preserve calpastatin and prevent troponin I degradation after cardiopulmonary bypass in neonatal pigs.* ACC. 2002.
20. Pearl JM, Nelson DP, Schwartz SM, et al. *Glucocorticoids reduce ischemia–reperfusion–induced myocardial apoptosis in immature hearts.* Ann Thorac Surg. Sept 2002.
21. Pearl JM, Cooper DS, et al. *Early failure of the Shelhigh pulmonary valve conduits in infants.* Ann Thorac Surg. 2002;74:000–00.
22. Jones CG, Shim D, Bucuvalas JC, Immerman E, Manning PB, Pearl JM, et al. *Cost effectiveness of coarctation repair strategies: Endovascular stent versus surgery.* AAP.
23. Pearl JM, Nelson DP, Wagner CJ, Raake JL, McNamara JL, Duffy JY. *Inhaled nitric oxide resulted in rebound pulmonary hypertension and cellular damage after hypoxia–reoxygenation.* Circ. 2000;102:II-273.
24. Duffy JY, Wagner CJ, Nelson DP, Schwartz SM, Ferguson R, Pearl JM. *Glucocorticoids prior to and during cardiopulmonary bypass decrease cardiac and pulmonary dysfunction after hypothermia circulatory arrest.* Circ. 2000;102(18 Suppl II):557.
25. Raake J, Rykman S, Uzark K, Sweeney D, Manning P, Pearl J, et al. *An interdisciplinary protocol for ventilator weaning in pediatric cardiac patients.* Respir Care. 2000;45(8).

26. Taeed R, Nelson DP, Schwartz SM, Pearl JM, et al. *Arterial O_2 saturation alone does not predict pulmonary-to-systemic blood flow ratio in the post-operative Norwood patient.* Crit Care Med. 1999;27(Suppl):A40.
27. Shore S, Nelson DP, Wong H, Shanley T, Manning P, Pearl JM, et al. *Glucocorticoids reduce inotropic requirements in neonatal cardiac patients.* Presented at Third Annual Symposium on Pediatric Cardiac Intensive Care, Miami, FL. Dec 1999.
28. Raake J, Cooper B, Taeed R, Pearl JM, et al. *Evaluation of the VIA-LVM in neonates with congenital heart disease.* Respir Care. 1999;44(10):1251.
29. Shore S, Nelson D, Wong H, Shanley T, Manning P, Pearl JM, et al. *Steroids reduce inotropic requirements in neonates with congenital heart disease.* 3rd Int Pediatric Critical Care Symposium, Miami, FL. Dec 1999.
30. Pearl JM, Nelson DP, Raake JL, et al. *Inhaled nitric oxide is associated with increased endothelin-1 levels: A potential cause of the rebound pulmonary hypertension phenomenon.* AAP. June 1999.
31. Pearl JM, Nelson DP, Manning PB, et al. *Inhaled nitric oxide is associated with increased endothelin-1 levels: A potential cause of rebound pulmonary hypertension.* AHA Scientific Sessions, Atlanta, GA. Nov 1999.
32. Pearl JM, Nelson DP, et al. *L-Arginine worsens post-reoxygenation pulmonary hypertension and lung function by increasing endothelin-1 rather than peroxynitrite formation.* AHA Scientific Sessions, Atlanta, GA. Nov 1999.
33. Pearl JM, Nelson DP, Wagner CJ, et al. *Endothelin-1 blockade with Bosentan decreases post-reoxygenation ventricular dysfunction and leukocyte-mediated injury.* 26th Annual ODICH Meeting, Toledo, OH. May 1999.
34. Pearl JM, et al. *Bosentan prevents the last phase of hypoxia–reoxygenation–induced pulmonary hypertension and results in improved pulmonary function.* STS 35th Annual Meeting, San Antonio, TX. Jan 1999.
35. Pearl JM, Manning PB, McNamara JL, et al. *Effect of modified ultrafiltration on plasma thromboxane, leukotriene, and endothelin-1 in infants undergoing cardiopulmonary bypass.* STS 35th Annual Meeting, San Antonio, TX. Jan 1999.
36. Pearl JM, Manning PB, McNamara JL, Zaragoza AM, et al. *Effect of modified ultrafiltration on plasma thromboxane B_2, leukotriene B_4, and endothelin-1 in infants undergoing bypass.* ODICH Meeting, Toledo, OH. May 1999.
37. Pearl JM, et al. *Acute hypoxia and reoxygenation impairs exhaled nitric oxide release suggesting bronchial epithelial injury.* AHA 71st Scientific Sessions, Dallas, TX. Nov 1998.
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