Stanford



Susan Payne Etheridge

Adjunct Clinical Professor, Pediatrics - Cardiology

NIH Biosketch available Online

Bio

BIO

Dr. Etheridge is a board-certified pediatric cardiologist and electrophysiologist. Since beginning her tenure in Pediatric Cardiology, her research focus has centered on Long QT Syndrome (LQTS) and other genetic disorders leading to sudden death in the young. She directed local and multi-center collaborative projects concerning LQTS, supraventricular tachycardia and Wolff-Parkinson-White Syndrome and Catecholaminergic Polymorphic Ventricular Tachycardia and hypertrophic cardiomyopathy. She has actively participated in multicenter projects of genetic conditions associated with sudden death in the young, including Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT), Timothy Syndrome, Andersen-Tawil Syndrome, hypertrophic cardiomyopathy, sudden death in athletes, and fetal LQTS. She was the local PI for multicenter projects on hypertrophic cardiomyopathy, fetal and nonfetal LQTS, Wolff-Parkinson-White Syndrome, Timothy Syndrome and CPVT. She is an an invited speaker at local, national, and international meetings where she speaks largely on the genetic susceptibility to sudden death in the young and WPW. She has published book chapters and invited editorials and articles related to heritable sudden death conditions and sports participation and arrhythmias in congential heart disease.

Her experience as a pediatric electrophysiologist, a Fellow in the Heart Rhythm Society, past present of the Pediatric and Congenital Arrhythmia Society, member of the America College of Cardiology Electrophysiology Committee and Vice President of the Sudden Arrhythmia Death Foundation underscores her interest in and service to children and adults with arrhythmic disease. Her years on the American Board of Pediatrics and her past leadership role within the fellowship speak to her dedication to the next generation of pediatric cardiologitsts. Dr. Etheridge created and led the University of Utah Inherited Arrhythmia clinic. This is a collaborative clinic that focuses on children and adults with familial sudden death conditions with input from genetics, adult and pediatric electrophysiology and child psychology. The goal was the pre-symptomatic assessment and sudden death prevention in patients with inherited arrhythmia conditions and care for the child and the entire family. The team followed the nationally defined protocols for this assessment and engage our research, genetics and adult electrophysiology colleagues in this assessment. She is embarking upon a similar role at Stanford University. As the Vice President of the SADS Foundation, she is intimately involved with families with these conditions. She takes part in and has developed educational seminars concerning these conditions as part of her involvement with SADS. She often faces questions concerning sports participation in children and young adults with inherited conditions that put children at risk for sudden death. She is a part of the writing group for a recently published consensus document on return to play with heart conditions from the Heart Rhythm Society, American College of Cardiology and the American Heart Association.

She has dedicated some of her clinical work to the care of adults with arrhytmias in the setting of congenital heart disease and has a clinic for this population in California, Alaska and Idaho. She is scheduled to co-chair the upcoming HRS document on arrhythmia management in adults with congenital heart disease.

HONORS AND AWARDS

- Top reviewer award, Europace (2024 and 2025)
- Heart Rhythm Case Reports Reviewer Spotlight, HRS (May 2024)
- Young Investigator Award Mentor, SADS and PACES (2020)
- Arrhythmia Alliance Pioneers in SVT Award, UK Arrhythmia Alliance (2022)
- Helen Taussig Founder's Award, American Academy of Pediatrics (September 2024)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board member, Board of Trustees, Heart Rhythm Society (2023 - present)
- Member, European Heart Rhythm Association (2022 - present)
- Member, American Academy of Pediatrics (1993 - present)
- Member, Heart Rhythm Society (1990 - present)
- Member, American College of Cardiology (1994 - present)
- Member, American Heart Association (1994 - present)
- Editorial Board, Heart Rhythm Case Reports (2006 - present)
- Vice Presidient, Sudden Arrhythmia Death Foundation (2000 - present)
- Editorial Board, Europace Journal (2022 - present)

PROFESSIONAL EDUCATION

- MD, Rush University Medical School , Medicine (1987)
- MD, University of Minnesota , Pediatrics Residency (1990)
- MD, University of Minnesota , Pediatric Electrophysiology (1994)
- MD, University of Minnesota , Pediatric Cardiology Fellowship (1993)

COMMUNITY AND INTERNATIONAL WORK

- PALS Education in Central America, Elsalvador, Guatemala, Nicaragua
- International Education in Ghana, Kumasi, Ghana
- Fellowship Advancement in Botswana, University of Botswana, Gaborone, Botswana

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Pediatric Cardiology (Fellowship Program)

Publications

PUBLICATIONS

- **The latest Fontan paradox: when less is more (difficult).** *Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology*
  Moore, J. P., Paul, T., Etheridge, S. P.
  2026; 28 (9)

- **HRS/ISACHD/PACES Scientific Statement on Provider and Institutional Best Practices for Comprehensive Adult Congenital Heart Disease Electrophysiology Programs.** *Heart rhythm*
  Khairy, P., Etheridge, S. P., Araujo, J. J., Aronis, K. N., Kalis, V. M., Kamp, A. N., Lloyd, M. S., Madhavan, M., Sherwin, E. D., Triedman, J. K., Moore, J. P.

2026

- **Predictors of Response to Cardiac Resynchronization Therapy in Pediatric Patients and Patients With Congenital Heart Disease.** *Circulation. Arrhythmia and electrophysiology*
  Chubb, H., Mah, D., Shah, M., Lin, K. Y., Peng, D., Hale, B. W., May, L., Etheridge, S., Goodyer, W., Ceresnak, S. R., Motonaga, K. S., Rosenthal, D. N., Almond, et al
  2025: e013600

- **Sudden cardiac arrest: Limitations in risk-stratification and treatment, and the potential for digital technologies and artificial intelligence to improve prediction and outcomes.** *Progress in cardiovascular diseases*
  Srivats, S., Zghyer, F., Shahrori, Z., Albert, C., Al-Khatib, S. M., Chugh, S., Etheridge, S. P., Goldberger, Z. D., Gopinathannair, R., Lakkireddy, D., Morin, D. P., Perez, M. V., Rottmann, et al
  2025

- **The expanding genetic, mechanistic, and phenotype scope of CACNA1C-mediated disease.** *Heart rhythm*
  Landstrom, A. P., Etheridge, S. P.
  2025; 22 (6): 1626-1627

- **Children are Less Likely Than Adults to Develop Complete Heart Block Following TAVR.** *Pediatric cardiology*
  Newlon, C. A., Niu, M. C., Binka, E., Boucek, D. M., Ou, Z., Etheridge, S. P., Pilcher, T. A., Martin, M. H., Gray, R. G., Asaki, S. Y.
  2025

- **Immune and nonimmune congenital heart block: A tale of two very different entities.** *Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology*
  Etheridge, S., Strasburger, J.
  2025

- **Children's Heartbeat: A Web-Based Program to Spread Knowledge on Arrhythmias in Children.** *Pediatric cardiology*
  Gakenheimer-Smith, L., Etheridge, S. P., Batra, A. S., Sanatani, S., Holiman, H., Nahey, T., Balaji, S.
  2024

- **Implantable cardioverter defibrillators in pediatric patients: Yet another example of healthcare divergence?** *Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology*
  DeWitt, E., Janousek, J., Etheridge, S.
  2024

- **Vigorous Exercise in Patients With Congenital Long-QT Syndrome: Results of the Prospective, Observational, Multinational LIVE-LQTS Study.** *Circulation*
  Lampert, R., Day, S., Ainsworth, B., Burg, M., Marino, B. S., Salberg, L., Tome Esteban, M. T., Abrams, D. J., Aziz, P. F., Barth, C., Behr, E. R., Bell, C., Berul, et al
  2024

- **Vigorous Exercise in Individuals With Long QT Syndrome (LQTS): Primary Results of the Prospective, Multinational Lifestyle and Exercise in LQTS (LIVE-LQTS) Study**
  Lampert, R., Day, S., Ainsworth, B., Burg, M., Marino, B. S., Salberg, L., Tome, M., Abrams, D. J., Aziz, P. F., Barth, C., Bell, C., Berul, C. I., Bos, et al
  LIPPINCOTT WILLIAMS & WILKINS.2023: E307

- **Multicenter Study of Survival Benefit of Cardiac Resynchronization Therapy in Pediatric and Congenital Heart Disease.** *JACC. Clinical electrophysiology*
  Chubb, H., Mah, D. Y., Shah, M., Lin, K. Y., Peng, D. M., Hale, B. W., May, L., Etheridge, S., Goodyer, W., Ceresnak, S. R., Motonaga, K. S., Rosenthal, D. N., Almond, et al
  2023

- **Vigorous Exercise in Patients With Hypertrophic Cardiomyopathy.** *JAMA cardiology*
  Lampert, R., Ackerman, M. J., Marino, B. S., Burg, M., Ainsworth, B., Salberg, L., Tome Esteban, M. T., Ho, C. Y., Abraham, R., Balaji, S., Barth, C., Berul, C. I., Bos, et al
  2023

- **A Global Look to the Future of Pediatric Electrophysiology.** *JACC. Clinical electrophysiology*

Cohen, M. I., Dubin, A. M., Webster, G., Bar-Cohen, Y., Motonaga, K. S., Kriebel, T., Sanatani, S., Rosenthal, E., Moltedo, J., Yoshimoto, J., Davis, A., Van Hare, G. F., Etheridge, et al

2022; 8 (12): 1599-1602

- **Physical Activity in Individuals With Hypertrophic Cardiomyopathy: Baseline Data From the Prospective "Lifestyle and Exercise in Hcm" (live-hcm) Study**

  Lampert, R., Ackerman, M. J., Marino, B. S., Burg, M., Ainsworth, B., Salberg, L., Tome, M., Balaji, S., Ho, C., Czosek, R. J., James, C., Emery, M., Gray, et al

  LIPPINCOTT WILLIAMS & WILKINS.2021

- **Virtual Transformation and the Use of Social Media: Cardiac Electrophysiology Education in the Post-COVID-19 Era** *CURRENT TREATMENT OPTIONS IN CARDIOVASCULAR MEDICINE*

  Han, J. K., Baykaner, T., DeSimone, C., Etheridge, S. P., Futyma, P., Saha, S. A., Stiles, M. K., Gopinathannair, R., Kabra, R., Merchant, F. M.

  2021; 23 (11): 70

- **2021 PACES Expert Consensus Statement on the Indications and Management of Cardiovascular Implantable Electronic Devices in Pediatric Patients.** *Indian pacing and electrophysiology journal*

  Writing Committee Members, Shah, M. J., Silka, M. J., Silva, J. A., Balaji, S., Beach, C., Benjamin, M., Berul, C., Cannon, B., Cecchin, F., Cohen, M., Dalal, A., Dechert, B., et al

  2021

- **2021 PACES Expert Consensus Statement on the Indications and Management of Cardiovascular Implantable Electronic Devices in Pediatric Patients: Executive Summary.** *Indian pacing and electrophysiology journal*

  Writing Committee Members, Silka, M. J., Shah, M. J., Silva, J. A., Balaji, S., Beach, C., Benjamin, M., Berul, C., Cannon, B., Cecchin, F., Cohen, M., Dalal, A., Dechert, B., et al

  2021

- **Management of Congenital Long-QT Syndrome: Commentary From the Experts.** *Circulation. Arrhythmia and electrophysiology*

  Kaufman, E. S., Eckhardt, L. L., Ackerman, M. J., Aziz, P. F., Behr, E. R., Cerrone, M., Chung, M. K., Cutler, M. J., Etheridge, S. P., Krahn, A. D., Lubitz, S. A., Perez, M. V., Priori, et al

  2021: CIRCEP120009726

- **2021 PACES Expert Consensus Statement on the Indications and Management of Cardiovascular Implantable Electronic Devices in Pediatric Patients.** *Heart rhythm*

  Shah, M. J., Silka, M. J., Silva, J. A., Balaji, S., Beach, C., Benjamin, M., Berul, C., Cannon, B., Cecchin, F., Cohen, M., Dalal, A., Dechert, B., Foster, et al

  2021

- **An International Multi-Center Evaluation of Type 5 Long QT Syndrome: A Low Penetrant Primary Arrhythmic Condition.** *Circulation*

  Roberts, J. D., Asaki, S. Y., Mazzanti, A. n., Bos, J. M., Tuleta, I. n., Muir, A. R., Crotti, L. n., Krahn, A. D., Kutyifa, V. n., Shoemaker, M. B., Johnsrude, C. L., Aiba, T. n., Marcondes, et al

  2020

- **Genotype Predicts Outcomes in Fetuses and Neonates With Severe Congenital Long QT Syndrome.** *JACC. Clinical electrophysiology*

  Moore, J. P., Gallotti, R. G., Shannon, K. M., Bos, J. M., Sadeghi, E. n., Strasburger, J. F., Wakai, R. T., Horigome, H. n., Clur, S. A., Hill, A. C., Shah, M. J., Behere, S. n., Sarquella-Brugada, et al

  2020; 6 (12): 1561–70

- **Loss of Ventricular Pre-excitation During Non-invasive Testing Does Not Exclude High-Risk Accessory Pathways: A Multicenter Study of WPW in Children.** *Heart rhythm*

  Escudero, C. A., Ceresnak, S. R., Collins, K. K., Pass, R. H., Aziz, P. F., Blaufox, A. D., Ortega, M. C., Cannon, B. C., Cohen, M. n., Dechert, B. E., Dubin, A. M., Motonaga, K. S., Epstein, et al

  2020

- **Atrioventricular block after congenital heart surgery: Analysis from the Pediatric Cardiac Critical Care Consortium**

  Romer, A. J., Tabbutt, S., Etheridge, S. P., Fischbach, P., Ghanayem, N. S., Reddy, V., Sahulee, R., Tanel, R. E., Tweddell, J. S., Gaies, M., Banerjee, M., Retzloff, L., Zhang, et al

  MOSBY-ELSEVIER.2019: 1168-+

- **Atrioventricular block after congenital heart surgery: Analysis from the Pediatric Cardiac Critical Care Consortium.** *The Journal of thoracic and cardiovascular surgery*

Romer, A. J., Tabbutt, S., Etheridge, S. P., Fischbach, P., Ghanayem, N. S., Reddy, V. M., Sahulee, R., Tanel, R. E., Tweddell, J. S., Gaies, M., Banerjee, M., Retzloff, L., Zhang, et al

2019; 157 (3): 1168-1177.e2

- **Life-Threatening Event Risk in Children With Wolff-Parkinson-White Syndrome: A Multicenter International Study.** *JACC. Clinical electrophysiology*

  Etheridge, S. P., Escudero, C. A., Blaufox, A. D., Law, I. H., Dechert-Crooks, B. E., Stephenson, E. A., Dubin, A. M., Ceresnak, S. R., Motonaga, K. S., Skinner, J. R., Marcondes, L. D., Perry, J. C., Collins, et al

  2018; 4 (4): 433–44

- **Life-Threatening Event Risk in Children With Wolff-Parkinson-White Syndrome A Multicenter International Study** *JACC-CLINICAL ELECTROPHYSIOLOGY*

  Etheridge, S. P., Escudero, C. A., Blaufox, A. D., Law, I. H., Dechert-Crooks, B. E., Stephenson, E. A., Dubin, A. M., Ceresnak, S. R., Motonaga, K. S., Skinner, J. R., Marcondes, L. D., Perry, J. C., Collins, et al

  2018; 4 (4): 433–44

- **PACES/HRS Expert Consensus Statement on the Evaluation and Management of Ventricular Arrhythmias in the Child With a Structurally Normal Heart.** *Heart rhythm*

  Crosson, J. E., Callans, D. J., Bradley, D. J., Dubin, A., Epstein, M., Etheridge, S., Papez, A., Phillips, J. R., Rhodes, L. A., Saul, P., Stephenson, E., Stevenson, W., Zimmerman, et al

  2014; 11 (9): e55-78

- **Pediatric Nonpost-Operative Junctional Ectopic Tachycardia Medical Management and Interventional Therapies** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*

  Collins, K. K., Van Hare, G. F., Kertesz, N. J., Law, I. H., Bar-Cohen, Y., Dubin, A. M., Etheridge, S. P., Berul, C. I., Avari, J. N., Tuzcu, V., Sreeram, N., Schaffer, M. S., Fournier, et al

  2009; 53 (8): 690-697

- **The use of Implantable cardioverter-defibrillators in pediatric patients awaiting heart transplantation** *JOURNAL OF CARDIAC FAILURE*

  Dubin, A. M., Berul, C. I., Bevilacqua, L. M., Collins, K. K., Etheridge, S. P., Fenrich, A. L., Friedman, R. A., Hamilton, R. M., Schaffer, M. S., Shah, M., Silka, M. J., Van Hare, G. F., Kertesz, et al

  2003; 9 (5): 375-379