



Frank F. Ing, M.D., FACC, MSCAI

Philosophy of Care

My philosophy of care is to provide the highest and most advanced level of care for patients with congenital heart disease – from fetus to adulthood, using the least invasive techniques possible, and with compassion and involvement of the entire family.

Clinical Interests

Some of Dr. Ing's major clinical interests include pediatric cardiology, congenital heart disease, adult congenital heart disease, pediatric interventional cardiology, ASD, VSD and PDA occlusions, transcatheter valve implants, and stent implantation for congenital heart disease.

Research/Academic Interests

Dr. Ing's academic and research interests include: 1) clinical trials of devices and stents involving congenital heart disease; 2) outcomes research related to the pediatric cath lab; 3) development of new devices, catheters, and delivery systems; 4) techniques for congenital heart disease interventions; and 5) fetal cardiac interventions.

He has additional interest in working with device companies and the U.S. Food and Drug Administration to forward the approval of cardiac devices for pediatric heart patients, and also to educate the next generation of pediatric interventionists.

He is the associated editor for the Journal of the Society of Cardiac Angiography and Interventions.

Title

Chief, Division of Pediatric Cardiology
Codirector, UC Davis Pediatric Heart Center
Professor of Pediatrics

Specialty

Pediatric Cardiology

Department

[Pediatrics](#)

Division

Fetal Care and Treatment Center
Pediatric Cardiology

Center/Program Affiliation

[UC Davis Children's Hospital](#)
[Pediatric Heart Center](#)

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Education

M.D., State University of New York at Stony Brook, Stony Brook NY 185
B.A., Yale University, New Haven CT 1980



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Internships	Pediatrics, New York University Medical Center, New York, NY 1986-87
Residency	Pediatrics, New York University Medical Center, New York NY 1986-1989 Chief Resident, New York University Medical Center, New York NY 1989-1990
Fellowships	Pediatric Cardiology, Columbia Presbyterian Medical Center, New York NY 1990-1993 Pediatric Interventional Cardiology, Texas Children's Hospital, Houston TX 1993
Board Certifications	American Board of Pediatrics, 1998 American Board of Pediatrics, Pediatric Cardiology, 2015
Professional Memberships	American College of Cardiology American Heart Association American Pediatric Society Society of Cardiac Angiography and Interventions
Honors and Awards	Awarded Master of the Society of Cardiac Angiography and Interventions (MSCAI), 2020 Teacher of the Year-Third-Year Pediatrics Resident, 1989 Teacher of the Year-Second-Year Pediatrics Resident, 1988 Magna cum laude (Yale University), 1980
Select Recent Publications	To view a complete list of Dr. Ing's publications, please click here .

Guenther TM, Chen SA, Gustafson JD, Ing FF, Brothers JA, Raff GW. Total anomalous origin of the coronary arteries from the pulmonary artery: a systematic review. *Cardiol Young*. 2021 Jul 26:1-8.

Naidu SS, Baron SJ, Eng MH, Sathanandam SK, Zidar D, Feldman DN, Ing FF, Latif F, Lim MJ, Henry TD, Rao SV, Dangas GD, Hermiller JB, Daggubati R, Shah B, Ang L, Aronow HD, Banerjee S, Box LC, Caputo RP, Cohen MG, Coylewright M, Duffy PL, Goldsweig AM, Hagler DJ, Hawkins BM, Hijazi ZM, Jayasuriya S, Justino H, Klein AJ, Kliger C, Li J, Mahmud E, Messenger JC, Morray BH, Parikh SA, Reilly J, Secemsky E, Shishehbor MH, Szerlip M, Yakubov SJ, Grines CL. Hot Topics in Interventional Cardiology: Proceedings from the Society for Cardiovascular Angiography and Interventions (SCAI) 2021 Think Tank. Published CCI 2021 Aug 16.

Sankaran D, Siefkes H, Ing FF, Lakshminrusimha S, Poulain FR. Critical Congenital Heart Disease Detection in the Screening Era: Do Not Neglect the Examination! *AJP Rep* 2021;11:e84–e90.



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Murray BH, Gordon BM, Crystal MA, Goldstein BH, Qureshi AM, Torres AJ, Epstein SM, Crittendon I, Ing FF, Sathanandam SK. Resource Allocation and Decision Making for Pediatric and Congenital Cardiac Catheterization During the (COVID-19 Pandemic). J Invasiv Cardiol 2020;May 32(5):E103-E109.

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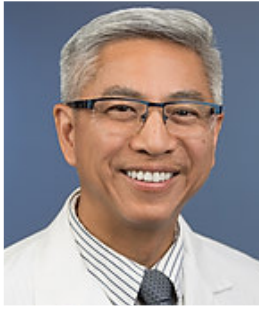
Bartakian S, Batlivala S, Blankenship JC, Delaney J, Hiremath G, Hoyer MH, Ing FF. Pediatric interventional cardiology coding workgroup: Part Three: The intra-procedure and post-procedure segments in a RUC assessment of total procedure time. Congenital Cardiology Today 2020; 19(7): 8-10.

Bartakian S, Batlivala S, Gray D, Hiremath G, Hoyer MH, Ing FF. Pediatric interventional cardiology coding workgroup: Part Two: The pre-procedure segment in a RUC assessment of total procedural time. Congenital Cardiology Today 2020; 18(5):13-14.

Bartakian S, Batlivala S, Gray D, Hiremath G, Hoyer MH, Ing FF. Pediatric interventional cardiology coding workgroup: Introduction (Part 1 of 4). Congenital Cardiology Today 2020; 18 (4):11-14.

Klein LW, Box L, Krishnan S, Kar Subrata, Ing FF, Cigarroa J, Mahmud E. In defense of the AMA/Specialty Society RVS Update Committee (RUC). Published Catheter Cardiovasc Inter. 2020 Jul;96(1):156-157.

Patel D, Nageotte S, Ing FF, Armstrong AK, Chmait R, Detterich J, Galindo A, Gardiner H, Herberg



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U, Tworetzky W, Moon-Grady A, Pruetz JD. Procedural, Pregnancy, and Short-term Outcomes after Fetal Aortic Valvuloplasty. Catheter Cardiovasc Inter. 2020 Sep 1;96(3):626-632.

Aboulhson J, McEllhinney D, Kavinsky C, Hijazi Z, Wadia S, Sinha S, McLennan D, Levi D, Kay, Ing FF, Benson L, Daniels C, Gillespie M, Kar S, Horlick E, Jones T, Ghobrial J, Hermiller J, Bailey S, Iglessis I. SCAI position statement on adult congenital cardiac interventional training, competencies and organizational recommendations. PMID: 32272495. DOI: 10.1002/ccd.28885. Published CCI 2020 Sep 1;96(3):643-650

Takahashi S, Ibrahim N, Yasukochi S, Ringel R; Ing FF; Tomita H; Sugiyama H, Yamagishi M, Forbes T, Kim SH, Ho M, Gillette N, Nakamura Y, Mineta K, Fearnot N, Dineen D, Vang E, Haskin R, Becker L, Becker L, Sekiguchi K, Sakamoto K, Ruiz CE (on behalf of the Harmonization by Doing for Children Working Group). Partnership between Japan and the United States for early development of pediatric medical devices; Harmonization By Doing for Children. PMID: 32238666. DOI: 10.1253/circj.CJ-19-1092. Published Circ J 2020 Apr 24;84(5):786-791

Patel ND, Sullivan PM, Takao CM, Badran S, Ing FF. Stent treatment of ostial branch pulmonary artery stenosis: initial and medium term outcomes and technical considerations. Cardiology in the Young (accepted 11/2019). PMID: 31831087 DOI: 10.1017/S1047951119003032. Published: 2020 Feb; 2020; 30(2):256-262.

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