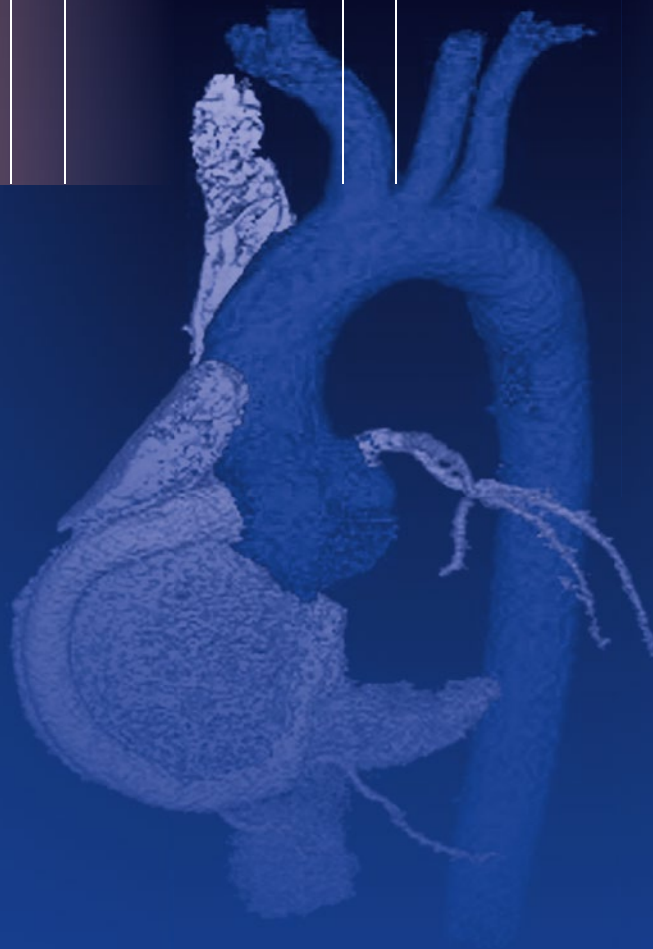


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Atlas of Pediatric CTA of Coronary Artery Anomalies



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I would like to dedicate this book to the memory of Dr. Janet Strife, MD. In my opinion, one of the great leaders in radiology passed away on May 8, 2019. If anyone ever asked me what kind of radiologist I would like to be, I would always have answered that I want to be like Janet Strife. Janet was Chief of Radiology while I was a fellow at Children's Hospital in Cincinnati. She was President of the Society for Pediatric Radiology in 2000 and President of the Program Directors in Radiology in 2003–2004. She had many peer-reviewed publications, textbooks, and chapters on pediatric radiology.

I am sure her great knowledge base and leadership experience helped to make her a great mentor, but I don't remember reading any of her journal articles or books or even any of the lectures she gave.

What I remember is how she sparked my interest in cardiac imaging by allowing me to sit with her and read the cardiac catheterizations for babies and children with congenital heart disease.

What I remember was her invitation to thanksgiving dinner and other holidays at her home with all of the other radiology fellows where we sat and enjoyed the company of Janet, Fred, and her family.

What I remember is her comforting my teary-eyed wife who was frustrated when we moved to Cincinnati because we couldn't find a place to live.

I think the word "mentor" is often overused and underperformed. I never remember Dr. Strife using the word "mentor" to describe herself, but she was one of the greatest mentors I have ever known.

Her legacy will live on in the lives of many, like me, who have benefitted from her leadership, teaching, and mentorship.

Preface

The *Atlas of Pediatric CTA of Coronary Artery Anomalies* is a concise visual guide to the imaging of coronary artery anomalies in infants and children. Imaging plays an ever-increasing role in diagnosis, preoperative planning, and postoperative management for children with congenital and acquired heart disease. Coronary artery anomalies, when present, need to be imaged and understood before surgical intervention to avoid potential morbidity and mortality. The book, therefore, focuses on the utilization of advanced CT imaging for pediatric patients with coronary arteries artery anomalies which are distinct from adult patients, with an emphasis on techniques for lowering radiation, protocols for imaging infants and children, and recommendations for most appropriate studies that should decrease the time and cost of imaging these patients.

Coronary artery anomalies are well described in the adult literature. What makes this book unique is that it sees the relation of the coronary artery anomalies to common and uncommon congenital heart defects. The other unique feature of this atlas is the visualization of these anomalies in infants where the coronary arteries are often 1–2 mm in diameter. We feel fortunate to have accumulated one of the largest collections of coronary artery anomalies for infants and children.

Our hope is that this information may be used to teach physicians in training who are interested in the fields of pediatrics, cardiology, and radiology and as a review for physicians studying for maintenance of certification and board examinations. We also feel that this book will stimulate new ideas for imaging in infants and children by the many physicians who will continue to improve and evolve the quality and safe treatment of this subset of patients.

I want to give credit to the wide variety of physicians who have contributed to this publication through regular conferences, discussions, lectures, and research collaboration:

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