



# THE COLOR ATLAS OF PEDIATRICS



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## The Color Atlas of Pediatrics

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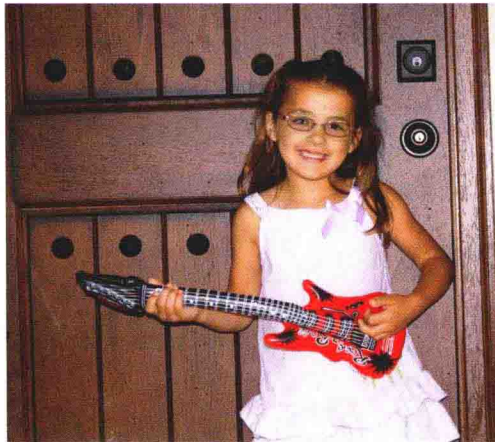
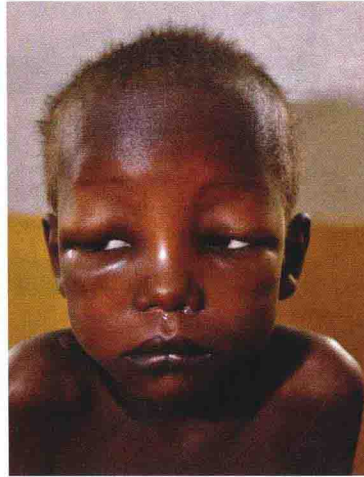
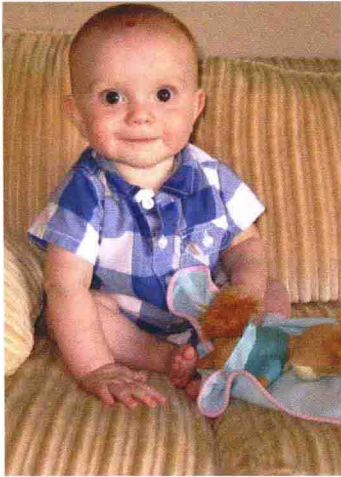
# THE COLOR ATLAS OF PEDIATRICS

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To our patients who unselfishly agreed to let us display their diseases and afflictions to the world to enhance the study and practice of medicine. We are honored by this trust. We have learned much from our patients as they continue to help us teach the next generation of health care providers.

Sincerely,

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Pediatricians see a wide variety of genetic and congenital disorders, infections, skin conditions, and many other problems that span the pediatric spectrum. It is clear that a comprehensive atlas that aids in diagnosis using visible signs and internal imaging will be of tremendous value. We have assembled more than 1,900 outstanding clinical images for this very purpose and are proud to present the first edition of a modern comprehensive atlas of pediatrics. Some photographs will amaze you and all will inform you about the various conditions that befall our patients.

It took a number of people many years to create the first edition of *The Color Atlas of Pediatrics*. For us, it has been a life long inspired by many great mentors, who taught us the importance of physical examination findings in caring for our patients. We have been fortunate to compile many photographs of our patients over the years, which we have used to teach medical students and residents. We now have the honor of sharing these images with the readers of this atlas. We are grateful to the many outstanding contributors to this textbook who have unselfishly shared with us their patient stories and images, and their vast knowledge of the disease processes, which has allowed us to compile this truly comprehensive pediatric atlas.

*The Color Atlas of Pediatrics* is written for pediatricians and all healthcare providers involved in providing care to children and adolescents. It can be invaluable to medical students, residents, nurse practitioners, physician assistants, family physicians and dermatologists.

*The Color Atlas of Pediatrics* is also for anyone who loves to look at clinical photographs for learning, teaching, and practicing medicine. The first chapter begins with an introduction to learning with images

and digital photography. The core of the book focuses on medical conditions organized by anatomic and physiologic systems. This book covers healthcare from birth to adulthood. There are special sections devoted to the essence of pediatrics, physical/sexual abuse, newborn and adolescent health, dermatology, and genetic disorders.

The collection of clinical images is supported by evidence-based information that will help the healthcare provider diagnose and manage a wide spectrum of common and not so common pediatric problems. The text is concisely presented with many easy to access bullets as a quick point-of-care reference. Each chapter begins with a patient story that ties the photographs to the real life stories of our patients. The photographic legends are also designed to connect the images to the people and their human conditions. Strength of recommendation ratings are cited throughout so that the science of medicine can be blended with the art of medicine for optimal patient care.

The first edition of *The Color Atlas of Pediatrics* is available electronically on iPad, iPhone, iPod touch, all Android devices, Kindle, and on the web through Access Pediatrics. These electronic versions will allow healthcare providers to access the images and the content rapidly and at the point-of-care.

Because knowledge continues to advance after any book is written, we recommend that you use the online resources presented in many of the chapters to keep up with the most current changes in medicine. Care deeply about your patients and enjoy your practice, as it is a privilege to be a healthcare provider and healer.

*The Editors*

Strength of Recommendation (SOR)	Definition
A	Recommendation based on consistent and good-quality patient-oriented evidence.*
B	Recommendation based on inconsistent or limited-quality patient-oriented evidence.*
C	Recommendation based on consensus, usual practice, opinion, disease-oriented evidence, or case series for studies of diagnosis, treatment, prevention, or screening.*

\*See Appendix A on pages 1320–1322 for further information.



This book could not have been completed without the contributions of many talented physicians, healthcare professionals, and photographers. We received photographs from people who live and work across the globe. Each photograph is labeled and acknowledges the photographer and contributor. There are some people who contributed so many photographs it is appropriate to acknowledge them up-front in the book. The dermatology division at University Of Texas Health Sciences Center San Antonio contributed much of their expertise in photography, writing, and reviewing the extensive dermatology section. During the last few years, I was fortunate to work closely with the dermatology faculty and residents and they contributed generously to our book. Dr. Eric Kraus, the program director, gave us many wonderful photographs, especially for the section on bullous diseases. He also gave us open access to the 35-mm slides collected by the Division of Dermatology. Drs. Jeff Meffert and John Browning also contributed photographs to many chapters. Dr. Jack Resneck, Sr., from Louisiana, scanned his slides from more than 40 years of practice and gave them to Dr. E.J. Mayeaux, Jr., for use. Dr. Resneck's vast dermatologic experiences add to our atlas.

The UTHSCSA Head and Neck Department contributed many photographs for this book. We especially thank Dr. Frank Miller and Dr. Blake Simpson for their contributions. UTHSCSA pediatrics faculty contributed to our chapters on child abuse and otitis media. We are fortunate to have Dr. Nancy Kellogg contribute her photographs and expertise in caring for abused children to the book. Dr. Dan Stulberg, a family physician from New Mexico, with a passion for photography and dermatology, contributed many photographs throughout our book.

We thank our learners, many of whom coauthored chapters with us. UTHSCSA medical students and residents and fellows from Michigan State University's Primary Care Faculty Development Fellowship program coauthored chapters and contributed photographs with great enthusiasm to the creation of this work. It was a pleasure to mentor these young writers and experience with them the rewards of authorship. Dr. Usatine is thankful for the contributions of his "Underserved Dermatology Fellows". Working closely with such brilliant and caring doctors in our Skin Clinic and free outreach clinics allowed me to learn from them while doing my best to advance their academic and humanistic careers.

Of course, we would have no book without the talented writing and editing of my coeditors, Drs. Camille Sabella, Elumalai Appachi, Mindy A. Smith, E.J. Mayeaux, and Heidi Chumley. They each bring years of clinical and educational experience to the writing of the *Atlas*. Drs. Sabella, Appachi and Mayeaux contributed many of their own photographs. We also thank the chapter and photograph contributions of the many physicians at the Cleveland Clinic Children's Hospital. It has been a real pleasure to work with this dedicated group of individuals. We thank them for their expertise, perseverance, and devotion to teaching. We also want to thank the late Dr. Robert Mercer, one of the founding fathers of pediatrics at the Cleveland Clinic, who was responsible for the Cleveland Clinic Children's Hospital Photo Files, and whose photos are featured throughout this book. Dr. Mercer was a devoted clinician and educator, and we are indebted to him for his contributions to the field of pediatrics. We would like to also recognize Dr. Daniel Shapiro, who was responsible for collecting, safeguarding, and stressing the use of the photo files for educational purposes.

Most of all we need to thank our patients who generously gave their permission for their photographs to be taken and published in

this book. While some photos are not recognizable, we have many photos of the full face that are very recognizable and were generously given to us by our patients with full written permission to be published as is. For photographs that were taken decades ago in which written consents were no longer available, we have used bars across the eyes to make the photos less recognizable—verbal consent was always obtained for these images.

I (Dr. Richard Usatine) thank my family for giving me the support to see this book through. It has taken much time from my family life and my family has supported me through the long nights and weekends it takes to write a book while continuing to practice and teach medicine. I am fortunate to have a loving wife, wonderful daughter, successful son, great son-in-law and one very cute grandson who add meaning to my life and allowed me to work hard on the creation of this *Color Atlas*. I personally want to thank Dr. Camille Sabella for his strong work ethic, warmth and good humor during the whole process. It is rare to find such superb collaborators in life. In every step of this journey, we worked together with mutual respect, kindness and consideration.

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Dr. Mindy Smith adds, "I thank my husband, Gary, and daughter, Jenny, for their support and willingness to listen when I struggle with phrasing and wording in my writing and editing. I also thank several colleagues who have helped me to establish myself as an editor and supported my continued growth in this field—Drs. Barry Weiss, Mark Ebell, Richard Usatine, Suzanne Sorkin, and Leslie Shimp."

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Dr. Heidi Chumley adds, "I want to thank my husband, John Delzell, who has brought love and peace to my often chaotic life, and my children, Cullen, Sierra, David, Selene, and Jack, who give me joy and provide the incentive to stay on task. Each one, in turn, has cheerfully pitched in to help a grumpy and tired mom who stayed up most of the night working on one of many chapters. I have been very blessed."

Dr. Elumalai Appachi states that "I would like to thank all my teachers and patients who taught me the art of clinical pediatrics and how to show compassion for sick children. I want to take this opportunity to recognize my parents who always wanted me to be a physician and serve sick children. Finally I want to thank my family who has supported me to be sane and focused. Finally, I want to thank Camille Sabella who has given me opportunity to share what I learnt."

Finally, we all thank James Shanahan, Alyssa Fried and Karen Edmonson from McGraw-Hill for believing in this project and never giving up as our book grew larger and more comprehensive over time.