

THE COLOR ATLAS OF FAMILY MEDICINE

EDITORS

Richard P. Usatine, MD

Professor of Family and Community Medicine
Professor of Dermatology and Medicine
Assistant Director, Medical Humanities Education
University of Texas Health Science Center at San Antonio
Medical Director, Skin Clinic, University Health System
San Antonio, Texas

Mindy A. Smith, MD

Professor of Family Medicine
Michigan State University, College of Human Medicine
East Lansing, Michigan
Associate Editor, Family Medicine
Associate Medical Editor, FP Essentials
American Academy of Family Physicians

Heidi Chumley, MD

Associate Professor of Family Medicine
Associate Chair for Undergraduate
Medical Education
Department of Family Medicine
Kansas University School of Medicine
Kansas City, Kansas

E.J. Mayeaux, Jr., MD

Professor of Family Medicine
Professor of Obstetrics and Gynecology
Associate Family Medicine Residency Program Director
Louisiana State University Health Sciences Center
Shreveport, Louisiana

James Tysinger, PhD

Professor of Family and Community Medicine
Deputy Chair for Faculty Development
Department of Family & Community Medicine
University of Texas Health Science Center at San Antonio
San Antonio, Texas



New York Chicago San Francisco Lisbon London Madrid Mexico City
New Delhi San Juan Seoul Singapore Sydney Toronto

The McGraw-Hill Companies

The Color Atlas of Family Medicine

Copyright © 2009 by The McGraw-Hill Companies, Inc. All rights reserved. Printed in the China. Except as permitted under the United States Copyright Act of 1976, no part of this publication may be reproduced or distributed in any form or by any means, or stored in a data base or retrieval system, without the prior written permission of the publisher.

1 2 3 4 5 6 7 8 9 0 CTP/CTP 12 11 10 9 8

MHID: 978-0-07-147464-1

ISBN: 0-07-147464-1

This book was set in Perpetua by Aptara®, Inc.
The editors were Jim Shanahan, Karen G. Edmonson.
The production manager was Phil Galea.
The cover designer was Pehrsson Design.
The indexer was Kathy Unger.
China Translation & Printing Service, Ltd., was printer and binder.

This book is printed on acid-free paper.

Library of Congress Cataloging-in-Publication Data

The color atlas of family medicine / editors, Richard P. Usatine . . . [et al.].

p. ; cm.

Includes bibliographical references and index.

ISBN-13: 978-0-07-147464-1 (alk. paper)

ISBN-10: 0-07-147464-1 (alk. paper)

1. Family medicine—Atlases. I. Usatine, Richard.

[DNLM: 1. Family Practice—Atlases. WB 17 C719 2009]

R729.5.G4C58 2009

610—dc22

2008034328

DEDICATION



This book is dedicated to the memory of Leonard G. Paul, MD. Leonard was a family physician in rural practice before becoming a mentor and teacher for many family doctors across the country. Leonard was the epitome of the warm-hearted, kind, and compassionate family physician. He cared for his patients, staff, nurses, and doctors in training. Leonard was loved by everyone and practiced medicine until he was 82 years of age. His patients were saddened when he retired, but they knew he had given everything to them and the practice of medicine. Leonard Paul was the chair of the Department of Family and Community Medicine at the University of Texas Health Sciences Center at San Antonio for 12 years. During that time he fought to establish a family medicine inpatient service and enabled family physicians to deliver babies in delivery rooms controlled by obstetrics. Leonard loved his family, staff, and animals. He was a loving husband, father, grandfather, and man. He treated his staff to generous holiday dinners and brought food to the clinic each day. His favorite pastime was feeding deer. Every morning and evening scores of deer waited patiently for him to scatter corn on his driveway. He spoiled his dogs with steaks and people food.

Leonard was a self-directed learner. He graduated at the top of his class at Stanford School of Medicine. Despite being told multiple times that he should pursue other specialties, Leonard was steadfast in his determination to become a true family doctor. He read his journals, including the *New England Journal of Medicine*, every day throughout his career and even after he retired. He clipped interesting articles and put them in his colleagues' mailboxes. He was one of the best-read family physicians.

Leonard had a busy private practice for years in which he delivered babies and did a full range of family medicine. It was only in his later years that he practiced family medicine exclusively in the ambulatory setting. In his last year of practice he could no longer drive. Some evenings I would take Leonard home in my car. We had wonderful conversations about the world and shared our lives and visions. He knew that we were working on this book and was very supportive of this endeavor. He stopped practicing medicine only when his health made it difficult for him to get around the clinic without falling. Leonard passed away one week before I had the chance to tell him of our decision to dedicate this book to him. His humanism and caring will be passed down for generations of family physicians to come.

Contributors	xi
Preface	xv
Acknowledgement	xvii

PART 1

LEARNING WITH IMAGES AND DIGITAL PHOTOGRAPHY

1 An Atlas to Enhance Patient Care, Learning, and Teaching	2
-----------------------------------------------------------------------------	---

PART 2

THE ESSENCE OF FAMILY MEDICINE

2 Patient—Physician Relationship	6
3 Family Planning	10
4 Pregnancy and Birth	15
5 End of Life	23
6 Social Justice	33

PART 3

PHYSICAL AND SEXUAL ABUSE

7 Child Physical Abuse	46
8 Child Sexual Abuse	51
9 Intimate Partner Violence	57
10 Adult Sexual Assault	63

PART 4

OPHTHALMOLOGY

Section 1: External Eye

11 Pterygium	70
12 Hordeolum and Chalazion	72
13 Scleral and Conjunctival Pigmentation	75
14 Corneal Foreign Body/Abrasion	78
15 Conjunctivitis	81
16 Scleritis and Episcleritis	85

Section 2: Internal Eye

17 Uveitis and Iritis	89
18 Glaucoma	92
19 Diabetic Retinopathy	95
20 Hypertensive Retinopathy	98
21 Papilledema	101
22 Age-Related Macular Degeneration	103
23 Eye Trauma—Hyphema	106
24 The Red Eye	109

PART 5

EAR, NOSE AND THROAT

Section 1: Ear

25 Acute Otitis and Otitis Media with Effusion	116
26 Otitis Externa	125
27 Ear: Foreign Body	129
28 Chondrodermatitis Nodularis Helicis and Preauricular Tags	133

Section 2: Nose and Sinus

29 Nasal Polyps	137
30 Sinusitis	141

Section 3: Mouth and Throat

31 Angular Cheilitis	146
32 Torus Palatinus	148
33 Scarlet Fever and Strawberry Tongue	150
34 Pharyngitis	153
35 The Larynx (Hoarseness)	158

PART 6

ORAL HEALTH

36 Black Hairy Tongue	164
37 Geographic Tongue (Benign Migratory Glossitis)	166
38 Gingivitis and Periodontal Disease	169
39 Gingival Hyperplasia	173
40 Aphthous Ulcer	176
41 Leukoplakia	179
42 Oral Cancer	182
43 Early Childhood Caries	185
44 Adult Dental Caries	189

PART 7

THE HEART AND CIRCULATION

Section 1: Central

45 Coronary Artery Disease	194
46 Congestive Heart Failure	198
47 Pericardial Effusion	201
48 Bacterial Endocarditis	205

Section 2: Peripheral

49 Clubbing	210
50 Venous Insufficiency	212

CONTENTS

PART 8

THE LUNGS

- 51** Community-Acquired Pneumonia 216
- 52** Tuberculosis 221
- 53** Pulmonary Embolus 227
- 54** Chronic Obstructive Pulmonary Disease (COPD) 231
- 55** Lung Cancer 237

PART 9

THE GUT

- 56** Peptic Ulcer Disease 244
- 57** Gastric Cancer 248
- 58** Liver Disease 253
- 59** Gallstones 259
- 60** Colon Polyps 264
- 61** Colon Cancer 269
- 62** Ulcerative Colitis 274
- 63** Hemorrhoids 279

PART 10

THE URINARY TRACT

- 64** Urinary Sediment—Hematuria, Pyuria, and Casts 284
- 65** Kidney Stones 287
- 66** Hydronephrosis 291
- 67** Polycystic Kidney Disease 295
- 68** Renal Cell Carcinoma 297
- 69** Bladder Cancer 299

PART 11

WOMEN'S HEALTH

Section 1: Pregnancy

- 70** Skin Findings in Pregnancy 304
- 71** Pruritic Urticarial Papules and Plaques of Pregnancy (PUPPP) 308
- 72** Pemphigoid Gestationis 311
- 73** First Trimester Ultrasound 314
- 74** Second Trimester Ultrasound 317
- 75** Obstetrics—Third Trimester Ultrasound 321

Section 2: Vaginitis and Cervicitis

- 76** Vaginitis 324
- 77** Atrophic Vaginitis 327
- 78** Bacterial Vaginosis 329
- 79** Candida Vulvovaginitis 333
- 80** Trichomonas Vaginitis 338
- 81** Chlamydia Cervicitis 341

Section 3: Vulva

- 82** Paget's Disease of The Vulva 345
- 83** Vulvar Intraepithelial Neoplasia 349

Section 4: Colposcopy

- 84** Colposcopy—Normal and Noncancerous Findings 353
- 85** Colposcopy of Low-Grade Disease 356
- 86** Colposcopy of High-Grade Disease 360
- 87** Colposcopy of Cervical Cancer 365

Section 5: Breast

- 88** Mastitis and Breast Abscess 369
- 89** Breast Cancer 372
- 90** Paget's Disease of The Breast 377

PART 12

MUSCULOSKELETAL PROBLEMS

Section 1: Arthritis and Bursitis

- 91** Osteoarthritis 382
- 92** Rheumatoid Arthritis 386
- 93** Ankylosing Spondylitis 390
- 94** Gout 393
- 95** Olecranon Bursitis 397

Section 2: Fractures

- 96** Clavicle Fracture 400
- 97** Distal Radial Fracture 404
- 98** Metatarsal Fracture 407
- 99** Hip Fracture 410

Section 3: Soft Tissue

- 100** Knee Injuries 413
- 101** Dupuytren's Disease 419

PART 13

DERMATOLOGY

Section 1: Childhood Dermatology

- 102** Normal Skin Changes 422
- 103** Childhood Hemangiomas 427
- 104** Pustular Diseases of Childhood 432
- 105** Diaper Rash and Perianal Dermatitis 435

Section 2: Acneiform Disorders

- 106** Acne Vulgaris 439
- 107** Rosacea 447
- 108** Pseudofolliculitis and Acne Keloidalis Nuchae 453
- 109** Hidradenitis Suppurativa (Acne Inversa) 457

Section 3: Bacterial

110 Impetigo	461
111 Folliculitis	466
112 Pitted Keratolysis	472
113 Erythrasma	475
114 Cellulitis	478
115 Abscess	482
116 Necrotizing Fasciitis	485

Section 4: Viral Infection

117 Chickenpox	489
118 Herpes Zoster—Skin	493
119 Zoster Ophthalmicus	498
120 Measles	503
121 Fifth Disease (Erythema Infectiosum)	507
122 Hand, Foot, and Mouth Disease	510
123 Herpes Simplex	513
124 Molluscum Contagiosum	518
125 Common Wart	522
126 Flat Warts	527
127 Genital Warts	530
128 Plantar Wart	535

Section 5: Fungal

129 Cutaneous Fungal Infections—Overview	539
130 Mucocutaneous Candidiasis	545
131 Tinea Capitis	549
132 Tinea Corporis	553
133 Tinea Cruris	557
134 Tinea Pedis	560
135 Tinea Versicolor	566

Section 6: Infestations

136 Lice	570
137 Scabies	575
138 Cutaneous Larva Migrans	581

Section 7: Dermatitis/Allergic

139 Atopic Dermatitis	584
140 Contact Dermatitis	591
141 Hand Eczema	597
142 Self-Inflicted Dermatoses	603
143 Urticaria and Angioedema	609

Section 8: Papulosquamous Conditions

144 Seborrheic Dermatitis	615
145 Psoriasis	620
146 Pityriasis Rosea	630
147 Lichen Planus	634
148 Reiter's Syndrome	640
149 Erythroderma	643

Section 9: Benign Neoplasms

150 Skin Tag (Acrochordon)	648
151 Seborrheic Keratosis	651
152 Sebaceous Hyperplasia	657
153 Dermatofibroma	661
154 Pyogenic Granuloma	666

Section 10: Nevi

155 Benign Nevi	670
156 Congenital Nevi	676
157 Epidermal Nevus and Nevus Sebaceous	680
158 Dysplastic Nevus	684

Section 11: Pre Cancer/Early Cancer

159 Actinic Keratosis and Bowen's Disease	687
160 Keratoacanthomas	693
161 Lentigo Maligna	696
162 Cutaneous Horn	700

Section 12: Skin Cancer

163 Basal Cell Carcinoma	704
164 Squamous Cell Carcinoma	712
165 Melanoma	720

Section 13: Infiltrative Immunologic

166 Granuloma Annulare	730
167 Pyoderma Gangrenosum	735
168 Sarcoidosis	740
169 Mycosis Fungoides	745

Section 14: Hypersensitivity Syndromes

170 Erythema Multiforme, Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis	750
171 Erythema Nodosum	756
172 Cutaneous Vasculitis	760

Section 15: Connective Tissue Disease

173 Lupus Erythematosus (Systemic and Cutaneous)	766
174 Dermatomyositis	772
175 Scleroderma and Morphea	778

Section 16: Bullous Disease

176 Bullous Diseases—Overview	784
177 Bullous Pemphigoid	790
178 Pemphigus	794
179 Other Bullous Diseases	799

Section 17: Hair and Nail Conditions

180 Alopecia Areata	807
181 Traction Hair Loss and Trichotillomania	811
182 Scarring Alopecia	815
183 Normal Nail Variants	819
184 Pigmented Nail Disorders	822

CONTENTS

x

185 Onychocryptosis (Ingrown Toenail)	826
186 Onychomycosis	829
187 Paronychia	834
188 Psoriatic Nails	838
189 Subungual Hematoma (Nail Trauma)	842

Section 18: Pigmentary and Light Related Conditions

190 Melasma	845
191 Vitiligo	849
192 Photodermatitis	853
193 Erythema Ab Igne	858

Section 19: Vascular

194 Acquired Vascular Lesions in Adults	861
195 Hereditary and Congenital Vascular Lesions in Adults	865

Section 20: Other Skin Disorders

196 Cutaneous Drug Reactions	869
197 Keloids	878
198 Genodermatoses	881
199 Erythema Annulare Centrifugum	886

PART 14

PODIATRY

200 Calluses and Corns	892
201 Bunion Deformity	896
202 Hammertoe Deformities	900
203 Ischemic Ulcer	904
204 Neuropathic Ulcer	907
205 Charcot Arthropathy	909
206 Dry Gangrene	912

PART 15

INFECTIOUS DISEASES

207 Intestinal Worms and Parasites	916
208 Gonococcal Urethritis	921
209 Syphilis	924
210 Kaposi's Sarcoma	929
211 Lyme Disease	933

PART 16

ENDOCRINE

212 Acanthosis Nigricans	942
213 Diabetic Dermopathy	945
214 Necrobiosis Lipoidica	948
215 Xanthomas	951
216 Goiter and Hypothyroidism	954
217 Graves' Exophthalmus and Goiter	959
218 Acromegaly	963

PART 17

NEUROLOGY

219 Cerebral Vascular Accident	968
220 Subdural Hematoma	972
221 Normal Pressure Hydrocephalus	976
222 Bell's Palsy	979
223 Neurofibromatosis	982

PART 18

SUBSTANCE ABUSE

224 Substance Abuse Disorder	988
225 Methamphetamine	994
226 Cocaine	1000
227 Injection Drug Use	1006

APPENDIXES

A Interpreting Evidence-Based Medicine (EBM)	1014
B Topical and Intralesional Corticosteroids	1017
C Dermoscopy	1019
D Regional Index for Diagnosis	1030
E Morphology Index for Diagnosis	1042

Index	1053
-----------------	------

Cathleen M. Abbott, MD

Assistant Professor
 Department of Family Medicine
 College of Human Medicine
 Michigan State University
 East Lansing, Michigan

Anna M. Allred, MD

Resident Physician
 Department of Neurological Surgery
 University of Texas Southwestern
 Dallas, Texas

James Anderst, MD, MS

Assistant Professor of Pediatrics
 Division of Child Abuse Pediatrics
 The University of Texas Health Science Center at San Antonio
 Christus Santa Rosa Center for Miracles
 San Antonio, Texas

Hend Azhary, MD

Assistant Professor
 Department of Family Medicine
 Michigan State University College of Human Medicine
 East Lansing, Michigan

Michael Babcock, MD

Chief Resident, Dermatology
 Division of Dermatology
 Department of Medicine
 University of Texas Health Science Center at San Antonio
 San Antonio, Texas

Lesla V. M. Brookes, MD, FAAP

Associate Director, Pediatrics Education
 Director of Student Education
 Oakwood Hospital and Medical Center
 Department of Pediatrics
 Dearborn, Michigan

Pierre P. Chanoine, MD

Drexel University School of Medicine
 Philadelphia, Pennsylvania
 St. Christopher's Hospital for Children
 Philadelphia, Pennsylvania

Beth A. Choby, MD

Assistant Professor
 Department of Family Medicine
 University of Tennessee—Chattanooga College of Medicine
 Chattanooga, Tennessee

Heidi Chumley, MD

Associate Professor of Family Medicine
 Associate Chair for Undergraduate Medical Education
 Department of Family Medicine
 Kansas University School of Medicine
 Kansas City, Kansas

Thomas J. Corson, D.O.

Emergency Medicine Resident
 University of Connecticut School of Medicine
 Hartford Hospital
 Hartford, Connecticut

Zoe Diana Draelos, MD

Dermatology Consulting Services
 High Point, North Carolina

Cristina Fernandez, MD

Clinical Assistant Professor
 Department of Pediatrics
 College of Human Medicine
 Michigan State University
 East Lansing, Michigan

Damian Flowers, MD

Emergency Medicine Resident
 University of Connecticut School of Medicine
 Farmington, Connecticut

Jeremy A. Franklin, MD, FAAP

Assistant Professor
 Department of Pediatrics
 Chief, Division of Pediatric Infectious Diseases
 Texas Tech University Health Sciences Center
 Lubbock, Texas

Linda M. French, MD

Professor and Chair
 Department of Family Medicine
 University of Toledo College of Medicine
 Toledo, Ohio

Radha Raman Murthy Gokula, MD, CMD

Geriatrician & Palliative Medicine Consultant
 University of Toledo Medical Center
 Assistant Professor
 Department of Family Medicine
 University of Toledo
 Toledo, Ohio

Wanda C. Gonsalves, MD

Associate Professor
 Department of Family Medicine
 Medical University of South Carolina
 Charleston, South Carolina

James Haynes, MD

Lieutenant Colonel
 United States Air Force
 Program Director
 Family Medicine Residency Clinic
 Eglin Air Force Base, Florida

CONTRIBUTORS

Jimmy H. Hara, MD, FAAFP

Clinical Professor of Family Medicine
David Geffen School of Medicine at UCLA
Family Medicine Residency Program Director
Kaiser Permanente Center for Medical Education
Los Angeles, California

Kelli D. Hejl, MS

Research Coordinator
Trauma Services Department
University Medical Center Brackenridge
Austin, Texas

David D. Henderson, MD

Assistant Professor
Department of Family Medicine
University of Connecticut School of Medicine
Farmington, Connecticut

Nathan Hitzeman, MD

Clinical Faculty
University of California at Davis
Sacramento, California
Sutter Health Family Medicine Physician
Sutter Medical Group
Sacramento, California

Karen A. Hughes, MD, FAAFP

Associate Director
North Mississippi Center Family Medicine Residency Program
Tupelo, Mississippi

Khalilah Hunter-Anderson, MD

University of Connecticut School of Medicine
Residency Administration
University of Connecticut Health Center
Farmington, Connecticut

Jennifer A. Keehbauch, MD, FAAFP

Clinical Assistant Professor of Family Medicine
Florida State University Medical School
Tallahassee, Florida
Assistant Director
Family Medicine Residency
Florida Hospital
Orlando, Florida

Nancy D. Kellogg, MD

Professor of Pediatrics
Division Chief of Child Abuse
University of Texas Health Science Center at San Antonio
San Antonio, Texas

J. Michael King, MD

Fellow
University of Texas Health Science Center at San Antonio
Department of Otolaryngology--Head and Neck Surgery
Attending Physician
University HealthCare System
San Antonio, Texas

Amor Khachemoune, MD, CWS

Assistant Professor of Dermatology
New York University School of Medicine
New York, New York

Robert Kraft, MD

Assistant Clinical Professor of Family and Community Medicine
University of Kansas School of Medicine Wichita, KS,
Associate Director,
Smoky Hill Family Medicine
Residency Program Salina, KS

Andreas Kuhn, MD, MBA

Clinical Assistant Professor
Department of Family Medicine
College of Human Medicine
Michigan State University
East Lansing, Michigan

Javier La Fontaine, MD

Assistant Professor
Director, Podiatric Residency Training Program
Departments of Orthopedics
University of Texas Health Science Center at San Antonio
San Antonio, Texas

Megha Madhukar, BA

University of Texas Health Science Center at San Antonio
School of Medicine
San Antonio, Texas

Ashfaz A. Marghoob, MD

Memorial Sloan Kettering Cancer Center
Associate Professor of Dermatology
Stony Brook University Hospital
Stony Brook, New York
Memorial Sloan Kettering Cancer Center
Associate Member
Division of Dermatology
New York, New York

E.J. Mayeaux, Jr., MD, DABFP, FAAFP

Professor of Family Medicine
Professor of Obstetrics and Gynecology
Associate Family Medicine Residency Program Director
Louisiana State University Health Sciences Center
Shreveport, Louisiana

Maria D. McColgan, MD, MEd

Assistant Professor
Departments of Pediatrics and Emergency Medicine
Director, Child Protection Program
Drexel University College of Medicine
Philadelphia, Pennsylvania

Carolyn Milana, MD

Associate Director, Division of General Pediatrics
Assistant Professor of Pediatrics
State University of New York Stony Brook
Department of Pediatrics
Stony Brook, New York

Shashi Mittal, MD

Faculty Director of Research
Baylor Family Medicine Residency at Garland
Garland, Texas

Asad Mohmand, MD

Assistant Professor
Department of Medicine
Lead Clerkship Director Advanced Medicine College of Human
Medicine Michigan State University
East Lansing, Michigan

Melissa Muszynski, BS

University of Texas Health Science Center at San Antonio
School of Medicine
San Antonio, Texas

Anjeli K. Nayar, MD, Capt, USAF, MC

Wright State University Internal Medicine
Wright-Patterson Air Force Base, Ohio

Richard A. Paulis, MD

Attending Physician
Department of Emergency Medicine
Frankford Hospital
Philadelphia, Pennsylvania

Brian Z. Rayala, MD

Assistant Professor of Family Medicine
Michigan State University College of Human Medicine
East Lansing, Michigan

Suraj G. Reddy, MD

The University of Texas Health Science Center at San Antonio
San Antonio, Texas

Michelle J. Rowe, MD

Farmington Hills, Michigan

Mark Jason Sanders, MD

Department of Pediatrics
Assistant Professor of Pediatrics
The University of Texas Medical School at Houston
Houston, Texas

Khashayar Sarabi, MD

Loma Linda Medical Center
Department of Physical Medicine and Rehabilitation
Loma Linda, California

Ana Trevino Saucedo, MD

Chief Resident, Dermatology
Division of Dermatology
Department of Medicine
University of Texas Health Science Center at San Antonio
San Antonio, Texas

Andrew D. Schechtman, MD, FAAFP

Adjunct Clinical Instructor
Stanford University School of Medicine
Department of Family and Community Medicine
Stanford, California
Faculty, San Jose-O'Connor Hospital Family Medicine Residency
Program
San Jose, California

Angela D. Shedd, BA

University of Texas Health Science Center at San Antonio
School of Medicine
San Antonio, Texas

Andrew Shedd, MD

Emergency Medicine Resident
Department of Emergency Medicine
Advocate Christ Medical Center
Oak Lawn, Illinois

Maureen K. Sheehan, MD, FACS

Assistant Professor of Vascular Surgery
University of Texas Health Science Center at San Antonio
San Antonio, Texas

Naohiro Shibuya, DPM, MS, AACFAS

Clinical Instructor
Department of Orthopaedics
Division of Podiatry
University of Texas Health and Science Center at San Antonio
San Antonio, Texas

Leslie A. Shimp, PharmD, MS

Professor of Pharmacy
University of Michigan
Clinical Pharmacist
Integrative Family Medicine
Briarwood Family Practice
Ann Arbor, Michigan

C. Blake Simpson, MD

Professor and Director University of Texas Voice Center
University of Texas Health Science Center at San Antonio
Department of Otolaryngology—Head and Neck Surgery
San Antonio, Texas

Mindy A. Smith, MD

Professor of Family Medicine
Michigan State University, College of Human Medicine
East Lansing, Michigan
Associate Editor, Family Medicine
Associate Medical Editor, FP Essentials, American Association of
Family Physicians

CONTRIBUTORS

James Tysinger, PhD

Professor of Family and Community Medicine
Deputy Chair for Faculty Development
Department of Family & Community Medicine
University of Texas Health Science Center at San Antonio
School of Medicine
San Antonio, Texas

Richard P. Usatine, MD, FAAFP

Professor of Family and Community Medicine
Professor of Dermatology and Medicine
Assistant Director, Medical Humanities Education
University of Texas Health Science Center at San Antonio
Medical Director, Skin Clinic, University Health System
San Antonio, Texas

Alejandra Varela, MD

Family Medicine Resident
Austin Medical Education Program
Austin, Texas

Christopher J. Wenner, MD

Associate Director
University of Minnesota/St. Cloud Hospital Family Medicine
Residency Program
St. Cloud, Minnesota
Assistant Professor of Family Medicine
University of Minnesota
Minneapolis, Minnesota

Shehnaz Aysha Zaman, MD

Internal Medicine Resident
Northwestern Memorial Hospital
Chicago, Illinois