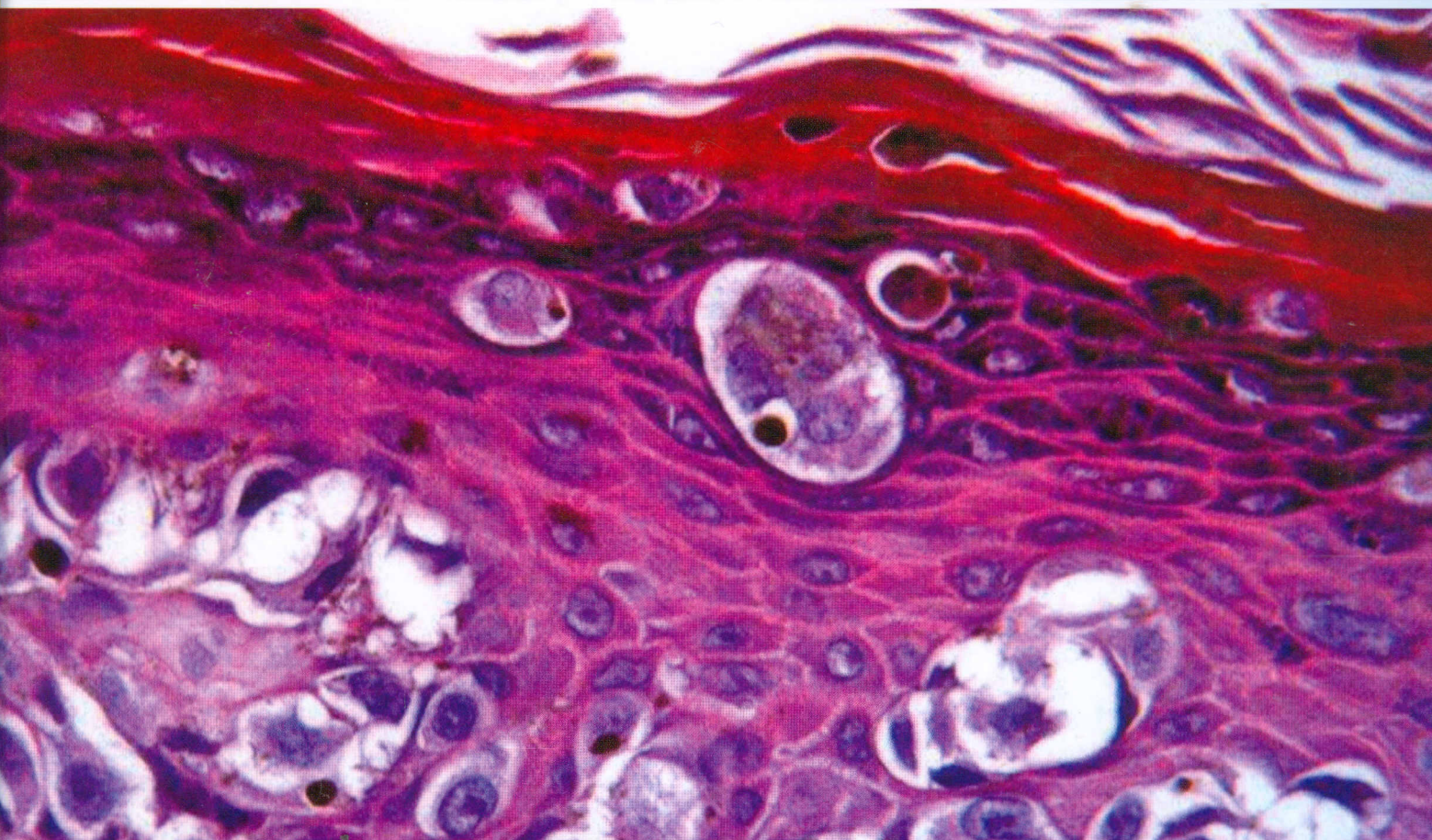


152136

Keyvan Nouri

# Skin Cancer



Contributors	xi
Foreword	xvii
Preface	xix
Acknowledgments	xxi

## SECTION 1. Cancers and Tumors

<b>1</b> Normal Skin	1
<i>Rana Anadolu-Brasie, MD, Samir K. Amin</i> <i>Khoozan Irani, Anita Singh, MS, and Keyvan Nouri, MD</i>	
<b>2</b> Aging Skin	17
<i>Jens J. Thiele, MD, PhD and Barbara A. Gilchrest, MD</i>	
<b>3</b> Epidemiology of Skin Cancer	32
<i>Melissa Gonzales, PhD, Esther Erdei, PhD,</i> <i>and Marianne Berwick, PhD</i>	
<b>4</b> Etiology of Skin Cancer	39
<i>Keyvan Nouri, MD, Shalu S. Patel, BS, and Anita Singh, MS</i>	
<b>5</b> The Genetic Basis of Common Forms of Skin Cancer	46
<i>Sena Lee, MD, PhD and Steven S. Fakharzadeh, MD, PhD</i>	
<b>6</b> Basal Cell Carcinoma	61
<i>Keyvan Nouri, MD, Christopher J. Ballard, MD,</i> <i>Asha R. Patel, BS, and Rana Anadolu Brasie, MD</i>	
<b>7</b> Squamous Cell Carcinoma of the Skin	86
<i>Rana Anadolu-Brasie, MD, Asha R. Patel, BS, Shalu S. Patel,</i> <i>BS, Anita Singh, MS, and Keyvan Nouri, MD</i>	
<b>8</b> Congenital Melanocytic Nevi	115
<i>Christopher J. Steen, MD, Jerry Rothenberg, MD,</i> <i>and Robert A. Schwartz, MD, MPH</i>	
<b>9</b> Spitz Tumors and Variants	120
<i>Raymond L. Barnhill, MD</i>	
<b>10</b> Atypical Melanocytic Nevi	130
<i>Raymond L. Barnhill, MD, Olivier Gaide, MD, PhD,</i> <i>Harold S. Rabinovitz, MD, and Ralph P. Braun, MD</i>	
<b>11</b> Malignant Melanoma	140
<i>Raymond L. Barnhill, MD, Martin C. Mihm, Jr., MD,</i> <i>and George Elgart, MD</i>	
<b>12</b> Cutaneous Lymphomas and Leukemias	168
<i>Roger H. Weenig, MD and Lawrence E. Gibson, MD</i>	
<b>13</b> Merkel Cell Carcinoma	181
<i>Jerry D. Brewer, MD, David L. Appert, MD,</i> <i>and Randall K. Roenigk, MD</i>	
<b>14</b> Fibrohistiocytic Tumors	195
<i>Bernhard Zelger, MD, MSc and Walter H. C. Burgdorf, MD</i>	
<b>15</b> Sarcomas	214
<i>Matthew Halpern, MD, Elbert Chen, MD,</i> <i>and Desiree Ratner, MD</i>	
<b>16</b> Sweat Gland Tumors	222
<i>Darius R. Mehregan, MD, David A. Mehregan, MD, Viktor</i> <i>Goncharuk, MD</i>	
<b>17</b> Sebaceous Carcinoma	240
<i>Paul T. Martinelli, MD, Philip R. Cohen, MD,</i> <i>Keith E. Schulze, MD, Jaime A. Tschien, MD, and</i> <i>Bruce R. Nelson, MD</i>	
<b>18</b> Hair Follicle Tumors	251
<i>Darius R. Mehregan, MD, David A. Mehregan, MD,</i> <i>and Eric Hanson, MD</i>	
<b>19</b> Tumors of the Nail Unit	264
<i>Olympia I. Kovich, MD and Richard K. Scher, MD, FACP</i>	
<b>20</b> Vascular Tumors of the Skin	277
<i>Daniel J. Santa Cruz, MD and Anita Singh, MS</i>	
<b>21</b> Kaposi Sarcoma	317
<i>Reuven Bergman, MD, Emma Guttman-Yassky, MD,</i> <i>and Ronit Sarid, PhD</i>	
<b>22</b> Eyelid Cancers	336
<i>Mahnaz Nouri, MD, Anita Singh, MS, Shalu S. Patel, BS,</i> <i>and Keyvan Nouri, MD</i>	

<b>23</b>	Oral Cancer .....	345	<b>38</b>	The Role of Sentinel Lymph-Node Biopsy in Skin Cancer Management .....	463
	<i>Robert A. Ord, DDS, MD, FRCS., FACS and Andrew R. Salama, DDS, MD</i>			<i>Frederick L. Moffat, Jr., MD, Carol P.R. Bowen-Wells, MD, Francisco J. Civantos, MD and M. Baris Karakullukcu, MD,</i>	
<b>24</b>	Genital Cancers .....	359	<b>39</b>	Surgical Excision .....	474
	<i>Wolfgang H. Cerwinka, MD and Norman L. Block, MD</i>			<i>Ivan D. Camacho, MD and Keyvan Nouri, MD,</i>	
<b>25</b>	Paget's Disease .....	371	<b>40</b>	Mohs Micrographic Surgery .....	482
	<i>Zeina Tannous, MD</i>			<i>Keyvan Nouri, MD, Asha R. Patel, BS, and Voraphol Vejjabhinanta, MD</i>	
<b>26</b>	HPV-Associated Skin Cancers .....	375	<b>41</b>	Reconstructive Surgery of Eyelid Cancers .....	502
	<i>Ammar M. Ahmed, MD, Brenda Chrastil, MD, Vandana Madkan, MD, Stephen K. Tyring, MD, PhD Oliver A. Perez, MD, and Brian Berman, MD, PhD</i>			<i>Jennifer I. Hui, MD and David T. Tse, MD, FACS</i>	
<b>27</b>	Cutaneous Metastases .....	380	<b>42</b>	Reconstructive Surgery of Skin Cancer Defects .....	514
	<i>Daniel G. Federman, MD, FACP, Jeffrey D. Kravetz, MD, Robert S. Kirsner, MD, PhD, and Peter W. Heald, MD</i>			<i>Valencia D. Thomas, MD, Wendy Long Mitchell, MD, Neil A. Swanson, MD, Thomas E. Rohrer, MD, and Ken K. Lee, MD</i>	
<b>28</b>	Skin Cancer in Transplant Patients .....	386	<b>43</b>	Cryosurgery .....	526
	<i>John A. Carucci, MD, PhD</i>			<i>Christopher M. Scott, MD, and Gloria F. Graham, MD</i>	
<b>29</b>	Skin Cancers in HIV Patients .....	392	<b>44</b>	Curettage and Electrodesiccation .....	536
	<i>Julie K. Karen, MD and Miguel R. Sanchez, MD</i>			<i>Voraphol Vejjabhinanta, MD, Anita Singh, MS, Shalu S. Patel, BS, and Keyvan Nouri, MD</i>	
<b>30</b>	Nonmelanoma Skin Cancers in Non-White Populations .....	403	<b>45</b>	Lasers in Skin Cancer Diagnosis: Highlights of <i>in vivo</i> Reflectance Confocal Microscopy .....	542
	<i>Panta Rouhani, MPH, Shasa Hu, MD, and Robert S. Kirsner, MD, PhD</i>			<i>Yolanda Gilaberte-Calzada, MD, Manuel Fernández- Lorente, MD, Elena De las Heras, MD, Jesús Cuevas- Santos, MD, Pedro Jaén-Olasolo, MD, and Salvador González, MD, PhD</i>	
<b>31</b>	Melanoma in Non-White Populations .....	407	<b>46</b>	Photodynamic Therapy .....	549
	<i>Panta Rouhani, MPH, Shasa Hu, MD, and Robert S. Kirsner, MD, PhD</i>			<i>Riccardo Rossi, MD, Torello Lotti, MD, R. M. Rashid, MD, PhD, SW Liu, BA, and Murad Alam, MD</i>	
<b>32</b>	Skin Cancer and Pregnancy .....	411	<b>47</b>	Radiation Therapy .....	562
	<i>Mercedes E. Gonzalez, MD, Elizabeth Alvarez Connelly, MD</i>			<i>Aaron H. Wolfson, MD, Torello Lotti, MD, Piero Campolmi, MD, and Riccardo Rossi, MD</i>	
<b>33</b>	Skin Cancer in Pediatric Population .....	415	<b>48</b>	Immunomodulators for Skin Cancer .....	576
	<i>Cheryl G. Aber, MD, Elizabeth Alvarez Connelly, MD, and Lawrence Schachner, MD</i>			<i>Deborah Zell, MD, Brian Berman, MD, PhD, Oliver Perez, MD, Cindy Berthelot, MD, Vandana Madkan, MD, and Stephen Tyring MD, PhD, MBA</i>	
<b>34</b>	Syndromes Associated with Skin Cancers .....	420	<b>49</b>	Topical 5-Fluorouracil .....	587
	<i>Cheryl G. Aber, MD, FAAP, Elizabeth Alvarez Connelly, MD, and Lawrence A. Schachner, MD, FAAP</i>			<i>Voraphol Vejjabhinanta, MD, Asha R. Patel, BS, Rana Anadolu Brasie, MD, Anita Singh, MS, Shalu S. Patel, and Keyvan Nouri, MD</i>	
<b>35</b>	Dermatologic Manifestations of Internal Malignancy .....	431	<b>50</b>	NSAIDs for the Treatment of Skin Cancer .....	593
	<i>Cindy England Owen, MD and Jeffrey P. Callen, MD</i>			<i>Claudia C. Ramirez, MD and Robert S. Kirsner, MD, PhD</i>	
<b>SECTION 2. Techniques and Treatments</b>					
<b>36</b>	Biopsy Techniques .....	448	<b>51</b>	Chemotherapy and Other Adjuvant Therapies for Treatment of Skin Cancer .....	600
	<i>Keyvan Nouri, MD, Shalu S. Patel, BS, and Voraphol Vejjabhinanta, MD</i>			<i>Varee N. Poochareon, MD, Niramol Savaraj, MD, and Lynn Feun, MD</i>	
<b>37</b>	Dermoscopy and Mole Mapping .....	452	<b>52</b>	Skin Cancer Vaccines .....	615
	<i>Ralph P. Braun, MD, Olivier Gaide, MD, PhD, A. Marghoob, MD, Margaret Oliviero, ARNP, Alfred W. Kopf, MD L. E. French, MD, J.-H. Saurat, MD, and Harold S. Rabinovitz, MD</i>			<i>Jean-Claude Bystryin, MD</i>	

<b>53</b>	Chemoprevention of Skin Cancer .....	622
	<i>Daniel I. Wasserman, MD</i> <i>and Barbara A. Gilchrest, MD</i>	

<b>54</b>	Natural Ingredients and Biomolecules for the Treatment of Skin Cancer .....	635
	<i>Niven R. Narain, Indushekar Persaud, MD</i> <i>Caroline V. Caperton, MSPH, and Sung L. Hsia, MD</i>	

<b>55</b>	Skin Cancer Prevention and Sunscreens .....	643
	<i>Hassan I. Galadari, MD and Barbara A. Gilchrest, MD</i>	

### **SECTION 3. Related Issues and Frontiers**

<b>56</b>	Photography of Skin Cancers .....	648
	<i>Ashish C. Bhatia, MD and Douglas Roach, MD</i>	

<b>57</b>	New Approaches in the Diagnosis of Skin Cancer .....	655
	<i>R. P. Braun, MD, A. Gewirtzman, MD,</i> <i>F.A. LeGal, MD, O. Gaide, MD, PhD,</i> <i>H. S. Rabinovitz, MD, J. -H. Saurat, MD,</i> <i>and A. A. Marghoob, MD</i>	

<b>58</b>	Teledermatology .....	660
	<i>Karen E. Edison, MD</i>	

<b>59</b>	Medicines and Therapies Associated with Skin Cancer .....	664
	<i>Christopher J. Ballard, MD, Navid Bouzari, MD,</i> <i>and Keyvan Nouri, MD</i>	

<b>60</b>	Indoor Tanning .....	672
	<i>Navid Bouzari, MD and Keyvan Nouri, MD</i>	

<b>61</b>	Economics of Skin Cancer .....	679
	<i>Daniel Pearce, MD, Philip M. Williford, MD, Rajesh</i> <i>Balkrishnan, PhD, and Steven R. Feldman, MD, PhD</i>	

<b>62</b>	Medical Legal Issues of Skin Cancer .....	686
	<i>David J. Goldberg, MD,</i>	

<b>63</b>	Psychosocial Aspects of Skin Cancer .....	689
	<i>Anne Han, BA and John Y. M. Koo, MD</i>	

<b>64</b>	Education and Public Awareness of Skin Cancer .....	694
	<i>Marianne Berwick, PhD, MPH</i>	

<b>65</b>	Online Resources for Skin Cancer .....	698
	<i>Ashish C. Bhatia, MD and Vidhya A. Kunnathur, BS</i>	

Index .....	701
-------------	-----