



CONTENTS

1	Understanding premature and newborn skin anatomy <i>Marty O. Visscher, Vivek Narendran</i>	1
2	Navigating neonatal skin structure: challenges in pressure injury staging <i>Ann Marie Nie, Katie McKeown</i>	17
3	Exploring pediatric skin microbiota: implications for dermatological health <i>Antonia Piazzesi, Chiara Marangolo, Lorenza Putignani</i>	28
4	Pathophysiology of pressure ulcer formation in children: bioengineering laboratory evidence <i>Amit Gefen</i>	38
5	Pediatric wound care and kintsugi: the art of repairing and regenerating body and soul mediated by an ancient Japanese art of restoration <i>Guido Ciprandi, Silvia Valle</i>	49
6	A new tool for assessing the risk of pressure injuries in infants: Italian-Neonatal Skin Risk Assessment Scale (I-NSRAS) <i>Felice Curcio, Guido Ciprandi</i>	62
7	Single-use negative pressure wound therapy <i>Giancarlo Antonielli, Marianna Retattino</i>	76
8	Hyperbaric oxygenation (HBO ₂) for wound care in the pediatric population <i>Pasquale Longobardi, Lindell K. Weaver</i>	86

XVIII NEONATAL AND PEDIATRIC WOUND CARE

9	The therapeutic potential of medical honeys in pediatric wound management <i>Niels Cremers, Andrea Pokorná, Daniela Chrysostomou</i>	105
10	Topical oxygen therapy for pediatric wound healing <i>Viviana Gonçalves</i>	134
11	Bridging strategies for pediatric wound care: hyaluronic acid and amino acids <i>Guido Ciprandi, Biagio Nicolosi</i>	141
12	Dressings for pediatric wound infections <i>Rene Amaya</i>	176
13	Intact fish skin grafts for pediatric wound healing <i>Guido Ciprandi, Dimitri Beeckman</i>	194
14	All-ages approach to palliative wound care <i>Georgina Gethin, Sebastian Probst</i>	210
15	Wound repair for pediatric spinal fragile patients <i>Franco Bassetto, Antonio Amabile, Maria Federica Visconti, Carlotta Scarpa</i>	218
16	Cold atmospheric plasma (CAP) in pediatric patients <i>Guido Ciprandi, Lisa Gebhardt</i>	230
17	Home-health-care team in pediatric wound care – 1st step. The process from hospital to the territory <i>Pablo Garcia Molina, Mauro Pace, Valentina Vanzi</i>	245
18	Home-health-care team in pediatric wound care <i>Biagio Nicolosi, Leonardo Fioravanti</i>	266
19	Wound management in pediatric disabled populations <i>Gabriela Madrigal</i>	279
20	Sternal wounds in pediatric cardiac surgical patients: clinical perspectives <i>Neerod Kumar Jha, Gulnaz Tariq</i>	291
21	Pediatric burn sequelae: care, management, and rehabilitation <i>Joyce Barrantes, Claudia Ramirez Castro, Carola Andrea Reyes Hitschfeld</i>	305
22	Pediatric ostomy care <i>Sandra Guerrero Gamboa, Pamela Gallegos-Alcalá, Guadalupe Maria Lobo</i>	313
23	Newborn, infants, children, and soft tissue necrosis <i>Guido Ciprandi, Andrea Dotta</i>	334

24 Therapeutic education: promoting healing and wellbeing <i>Sebastian Probst, Alessio Stefanelli</i>	349
25 Skin tears in neonatal and pediatric patients <i>Heidi Hevia Campos, Mily Constanza Moreno Ramos, Cinthia Viana Bandeira da Silva, Vera Lucia Conceição de Gouveia Santos</i>	357
26 Prevention of pressure injuries in NICU-PICU settings: upgrading the problem <i>Anna-Barbara Schluier</i>	373
27 The artificial intelligence (AI) in pediatric wound care <i>Paulo Jorge Pereira Alves, Mohammad Mohammad Amin, Lucia Vales da Silva</i> Introduction, AI in Pediatrics <i>Guido Ciprandi, Dimitri Beeckman</i>	381
28 Spa thermal therapies in pediatric wound care <i>Serena Crucianelli, Mario Fontana</i>	393
29 Managing pediatric microbial burden through bacterial fluorescence imaging detection <i>Corrado Maria Durante</i>	424
30 Advancements in laboratory and clinical wound biofilm management in pediatrics <i>Rui Chen, Marcus J. Swann, Fergus Watson, Steven L. Percival</i>	433
31 Pediatric simulation in wound care <i>Valentina Vanzi, Serena Crucianelli</i>	454
32 Application of the moist framework in pediatric chronic wounds <i>Terry Swanson</i>	468
33 Assessment and management of procedural pain in wounded children <i>Mats Eriksson, Stefan Nilsson</i>	481
34 Pediatrics, pain and no-drugs/ drugs care: understanding the physiopathology <i>Giuliano Marchetti, Alessandro Vittori</i>	490
35 Assessment, prevention, and treatment of diaper dermatitis in neonates, babies, children, and infants <i>Dimitri Beeckman, Ann Marie Dunk, Kirsi Isoherranen</i>	506
36 Nutrition, skin integrity, and pediatric wound care <i>Mary Demarest Litchford, Nancy Munoz</i>	517
37 Challenges in translating pressure ulcer preventative interventions from adults to pediatrics <i>Maarit Ahtiala, Emilia Kielo-Viljamaa, Esa Soppi</i>	531

38	Promoting wound hygiene in pediatric care: an educational strategy <i>Pablo Garcia Molina, Guido Ciprandi, Evelin Balaguer-López</i>	550
39	Wound care counseling for children <i>Geanina Carvajal Moya</i>	583
40	Understanding wound from the perspective of traditional chinese medicine and practicing regenerative medical technology in wound repair <i>Qianli Tang, Jiehui Li</i>	593
41	Different physio-developmental aspects of skin and wounds in newborns and children <i>Ryan Geng, Cathryn Sibbald, Elizabeth Ann Ayello, Ronald Gary Sibbald</i>	605
42	Prophylactic dressings for pressure injury prevention <i>Nick Santamaria, Amit Gefen</i>	627
43	Psychosocial care in pediatric wound management: approaches, challenges, and nursing interventions <i>Maria Isabel Dias Da Costa Malheiro, Sonia Isabel Pinela Colaço, Rita Sofia Quinteira Cabral Fernandes</i>	636