

# Atlas of Dermatology, Dermatopathology and Venereology

Editors [\(view affiliations\)](#)  
Bruce Smoller, Nooshin Bagherani

Living reference work

1 Citations  
11k Downloads



[Table of contents](#) (68 entries)

[About this book](#)

Page 1 of 4

Search within book

## Anatomy and Organization of Human Skin

Amal A. E. Ibrahim, Nooshin Bagherani, Bruce R. Smoller, Negin Bagherani, Cynthia Reyes-Baron

## Atopic Dermatitis

Pavel Viktorovich Chernyshov, Ncoza C. Dlova, Antoinette Chateau, Anna Jiráková, Igor V. Svistunov, Andreas Wollenberg

## Cosmetic Dermatology

Alain Tenenbaum, Andreas Katsambas, Ariel Luksenburg, Athanasios Pavlidis, Daniel de Rossi Fattaccioli, Ercin Ozüntürk et al.

## Cutaneous Adnexal Tumors

Annalisa Patrizi, Emi Dika, Pier Alessandro Fanti, Cosimo Misciali, Ambra Di Altobrando

## Cutaneous Bacterial Infections

Arun C. Inamadar, Aparna Palit

## Cutaneous Diseases Caused by Arthropods and Other Noxious Animals

Sumit Kar, Nidhi Yadav, Pooja Bonde, Varsha Verma

## Cutaneous Disorders of the Breast

Ranthilaka Rasika Ranawaka, Nayani P. Madarasinghe, Ajith Prasanna Kannangara, Kanishka de Silva

## Cutaneous Disorders of the External Ear

Sara Saniee, Armaghan Ghareaghaji Zare, Afsaneh Radmehr, Maryam Nasimi, Mahtab Rabbani Anari, Mayam Ghiasi et al.

## Cutaneous Inflammation: Prototypes of Immunological Mechanisms Involving the Skin

Garrett Desman, Farah R. Abdulla, Jonas A. Adalsteinsson, Katayun Adhami, Sofia Chaudhry, Samantha R. Ellis et al.

## Cutaneous Lymphomas and Lymphocytic Infiltrates

Irina Margaritescu, Aurel-Doru Chirita, Kristen Addis, Matthew S. Dinehart, Sarah Carlock, Mallory Shiver Abate et al.

## Cutaneous Mycobacterial Infections

Ramya Vangipuram, Stephen K. Tyring

## Cutaneous Photobiology

Jonathan Hale Zippin, Steven He, Jenny Z. Wang, Koji Ota, Anita Gade, Jonathan Galati et al.

## Cutaneous Reactions

Ajith Prasanna Kannangara, Ranthilaka R. Ranawaka

## Cutaneous Virus Infections

Carmen Maria Salavastru, Ionela Manole, Anca Chiriac, George-Sorin Tiplica

## Dermatological Surgery

Keyvan Nouri, Ali Rajabi-Estarabadi, Caiwei Zheng, Argentina Leon, Jay S. Herbst, Mahtab Forouzandeh et al.

## Dermoscopy

Danica Todorovic, Zeljko Mijuskovic, Emina Kasumagic-Halilovic, André Oliveira, Bruna Tuma, Hana Helpikangas et al.

## Dermoscopy of Nail Tumors

Ana Luísa João, Tomás Pessoa e Costa, André Lencastre

## Diagnosis of Skin Diseases

Vikram K. Mahajan, Sanjeev Handa

## Diseases of the Veins and Arteries: Leg Ulcers

Tanja Planinšek Ručigaj

## Disorders of Lymphatic Vessels

Tanja Planinšek Ručigaj, Andrzej Szuba

Page 1 of 4

Over 10 million scientific documents at your fingertips

Academic Edition

[Home](#) | [Imprimatur](#) | [Legal information](#) | [Privacy statement](#) | [California privacy statement](#) | [How we use cookies](#) | [Manage cookies/Do not sell my data](#) | [Accessibility](#) | [Contact us](#)

SPRINGER NATURE

© 2020 Springer Nature Switzerland AG. Part of Springer Nature.  
Not logged in · Not affiliated · 135.125.98.59

## Your privacy

We use cookies to make sure that our website works properly, as well as some "optional" cookies to personalise content and advertising, provide social media features and analyse how people use our site. By accepting some or all optional cookies you give consent to the processing of your personal data, including transfer to third parties, some in countries outside of the European Economic Area that do not offer the same data protection standards as the country where you live. You can decide which optional cookies to accept by clicking on "Manage Settings", where you can also find more information about how your personal data is processed. [View our privacy policy](#)

Manage Settings

Accept All Cookies

# Cutaneous Bacterial Infections

Authors [Authors and affiliations](#)Arun C. Inamadar , Aparna PalitLiving reference work entry  
First Online: 01 June 2020181  
Downloads

## Abstract

Bacterial infections are common illnesses in daily dermatological practice. Poor hygiene, overcrowding, and hot humid environment are the common predisposing factors. Common superficial and deep pyogenic infections may be "hospital-acquired" or "community-acquired." Superficial infections are easily treatable and curable. Deep infections and bacterial exotoxin-mediated illnesses may be life-threatening. Elderly people, diabetics, HIV-infected, and other immunosuppressed patients are prone to deeper infections. All bacterial infections must be treated with adequate dose of proper antibiotics. There are special groups of bacteria causing non-pyogenic skin infections. Gram negative bacteria may cause superficial and deep skin infections as well as life-threatening systemic involvement. Spirochetes like *Treponema pallidum* cause sexually transmitted infections. This chapter provides an overview of bacterial skin infections.

## Keywords

Bacterial infection Cutaneous bacterial infection Pyoderma Impetigo Bullous impetigo Non-bullous impetigo Perioritis Folliculitis Bockhart's impetigo Sycosis barbae Blistering distal dactylitis Acute paronychia Furuncle Carbuncle Ecthyma Erysipelas Cellulitis Necrotizing fasciitis Erythrasma Trichomycosis axillaris Pitted keratolysis Staphylococcal scalded skin syndrome Ritter's disease Toxic shock syndrome Meningococcal infection Gonococcal infection Gonorrhoea Pseudomonas infection Ecthyma gangrenosum Hot-tub folliculitis Toe-web infection Malignant otitis externa Rhinoscleroma Tularemia Plague Brucellosis Granuloma inguinale Tropical ulcer Yaws Famboesia Endemic treponematoses Pinta Lyme disease Syphilis Botryomycosis Actinomycosis Nocardiosis

This is a preview of subscription content, [log in](#) to check access.

## References

- Abalkhali A, Satti MB, Uthman MA, Al Hilli F, Darwish A, Satir A (2007) Rhinoscleroma: a clinicopathological study from the gulf region. *Singap Med J* 48(2):148–151  
[Google Scholar](#)
- Centers for Disease Control and Prevention (2015) Sexually transmitted diseases treatment guidelines. *MMWR Recomm Rep* 63:4. <http://www.cdc.gov/std>. Accessed 10 Oct 2017
- Cohen PR (2007) Community-acquired methicillin-resistant *Staphylococcus aureus* skin infections: a review of epidemiology, clinical features, management and prevention. *Int J Dermatol* 46(1):1–11  
[CrossRef](#) [Google Scholar](#)
- Durupt F, Mayor L, Bes M, Reverdy ME, Vandenesch F, Thomas L, Etienne J (2007) Prevalence of *Staphylococcus aureus* toxins and nasal carriage in furuncles and impetigo. *Br J Dermatol* 157(6):1161–1167  
[CrossRef](#) [Google Scholar](#)
- Elston DM (2004) Epidemiology and prevention of skin and soft tissue infections. *Cutis* 73(5 Suppl):3–7  
[PubMed](#) [Google Scholar](#)
- Gabillot-Carré M, Roujeau JC (2000) Acute bacterial skin infections and cellulitis. *Curr Opin Infect Dis* 20(2):118–123  
[CrossRef](#) [Google Scholar](#)
- Gomes GB, Kamb ML, Newman LM, Mark J, Bouret N, Hawkes SJ (2013) Untreated maternal syphilis and adverse outcomes of pregnancy: a systematic review and meta-analysis. *Bull World Health Organ* 91(3):217–226  
[CrossRef](#) [Google Scholar](#)
- Hay RJ, Morris-Jones R (2016) Bacterial infections. In: Griffiths C, Barker J, Bleiker T, Chalmers R, Creamer D (eds) *Rook's textbook of dermatology*, 8th edn. Wiley-Blackwell, Oxford, pp 26.1–26.87  
[Google Scholar](#)
- Inamadar AC (2014) Bacterial infections. In: Inamadar AC, Palit A, Ragunatha S (eds) *Pediatric dermatology*, 2nd edn. Jaypee Brothers Medical Publishers, New Delhi, pp 143–156  
[CrossRef](#) [Google Scholar](#)
- Inamadar AC, Palit A (2003) Primary cutaneous nocardiosis: a case study and review. *Indian J Dermatol Venereol Leprol* 69(6):386–391

## Your privacy

We use cookies to make sure that our website works properly, as well as some "optional" cookies to personalise content and advertising, provide social media features and analyse how people use our site. By accepting some or all optional cookies you give consent to the processing of your personal data, including transfer to third parties, some in countries outside of the European Economic Area that do not offer the same data protection standards as the country where you live. You can decide which optional cookies to accept by clicking on "Manage Settings", where you can also find more information about how your personal data is processed. [View our privacy policy](#)

[Manage Settings](#)[Accept All Cookies](#)

dermatology, 8th edn. Wiley-Blackwell, Oxford, pp 30.1–30.27

[Google Scholar](#)

Korkmaz P, Kartal ED (2016) Skin manifestations associated with brucellosis. *EMJ Dermatol* 4(1):119–125

[Google Scholar](#)

Matsuda Y, Kato H, Ono E, Kikuchi K, Muraoka M, Takagi K, Imanishi K, Itoh S, Itoh T, Ogawa T, Nitta K, Inokuchi S, Hibi T, Ohta H, Uchiyama T (2008) Diagnosis of toxic shock syndrome by two different systems; clinical criteria and monitoring of TSS-1 reactive T cells. *Microbiol Immunol* 52(11):513–521

[CrossRef](#) [Google Scholar](#)

Morris A (2006) Cellulitis and erysipelas. *Clin Evid* 15:2207–2211

[Google Scholar](#)

O'Sullivan GM, Worsnop F, Natkunarajah J (2018) Ecthyma gangrenosum, an important cutaneous infection to recognize in the immunosuppressed patient. *Clin Exp Dermatol* 43(1):67–69

[CrossRef](#) [Google Scholar](#)

Palit A (2014) Dermatological emergencies. In: Inamadar AC, Palit A (eds) *Critical care in dermatology*. Jaypee Brothers Medical Publishers, New Delhi, pp 13–113

[Google Scholar](#)

Palit A, Inamadar AC (2010) Current concepts in the management of bacterial skin infections in children. *Indian J Dermatol Venereol Leprol* 76(5):476–488

[CrossRef](#) [Google Scholar](#)

Prentice MB, Rahalison L (2007) Plague. *Lancet* 369(9568):1196–1207

[CrossRef](#) [Google Scholar](#)

Richens J (2006) Donovanosis (granuloma inguinale). *Sex Transm Infect* 82(Suppl IV):iv21–iv22

[PubMed](#) [PubMedCentral](#) [Google Scholar](#)

Scheinfeld NS (2007) Is blistering distal dactylitis a variant of bullous impétigo? *Clin Exp Dermatol* 32(3):314–316

[CrossRef](#) [Google Scholar](#)

Senel E, Satilmis Ö, Acar B (2015) Dermatologic manifestations of tularaemia: a study of 151 cases in the mid-Anatolian region of Turkey. *Int J Dermatol* 54(1):e33–e37

[CrossRef](#) [Google Scholar](#)

Vasudevan B, Chatterjee M (2013) Lyme borreliosis and skin. *Indian J Dermatol* 58(3):167–174

[CrossRef](#) [Google Scholar](#)

Vuzevski VD, van Joost T, Wagenvoort JH, Dey JJ (1989) Cutaneous pathology in toxic shock syndrome. *Int J Dermatol* 28(2):94–97

[CrossRef](#) [Google Scholar](#)

Walling HW (2009) Primary hyperhidrosis increases the risk of cutaneous infection. *J Am Acad Dermatol* 61(2):242–246

[CrossRef](#) [Google Scholar](#)

## About this entry



Check for updates

### Cite this entry as:

Inamadar A.C., Palit A. (2020) Cutaneous Bacterial Infections. In: Smoller B, Bagherani N. (eds) *Atlas of Dermatology, Dermatopathology and Venereology*. Springer, Cham. [https://doi.org/10.1007/978-3-319-45134-3\\_72-1](https://doi.org/10.1007/978-3-319-45134-3_72-1)

### Received

18 March 2020

### Accepted

25 March 2020

### First Online

01 June 2020

### DOI

[https://doi.org/10.1007/978-3-319-45134-3\\_72-1](https://doi.org/10.1007/978-3-319-45134-3_72-1)

### Publisher Name

Springer, Cham

### Online ISBN

978-3-319-45134-3

### eBook Packages

Medicine

Reference Module Medicine

[Reprints and Permissions](#)

Over 10 million scientific documents at your fingertips

Academic Edition ▾

[Home](#) | [Imprint](#) | [Legal information](#) | [Privacy statement](#) | [California privacy statement](#) | [How we use cookies](#) | [Manage cookies/Do not sell my data](#) | [Accessibility](#) | [Contact us](#)

### SPRINGER NATURE

© 2020 Springer Nature Switzerland AG. Part of [Springer Nature](#).  
Not logged in · Not affiliated · 135.125.98.59

## Your privacy

We use cookies to make sure that our website works properly, as well as some "optional" cookies to personalise content and advertising, provide social media features and analyse how people use our site. By accepting some or all optional cookies you give consent to the processing of your personal data, including transfer to third parties, some in countries outside of the European Economic Area that do not offer the same data protection standards as the country where you live. You can decide which optional cookies to accept by clicking on "Manage Settings", where you can also find more information about how your personal data is processed. [View our privacy policy](#)

Manage Settings

Accept All Cookies