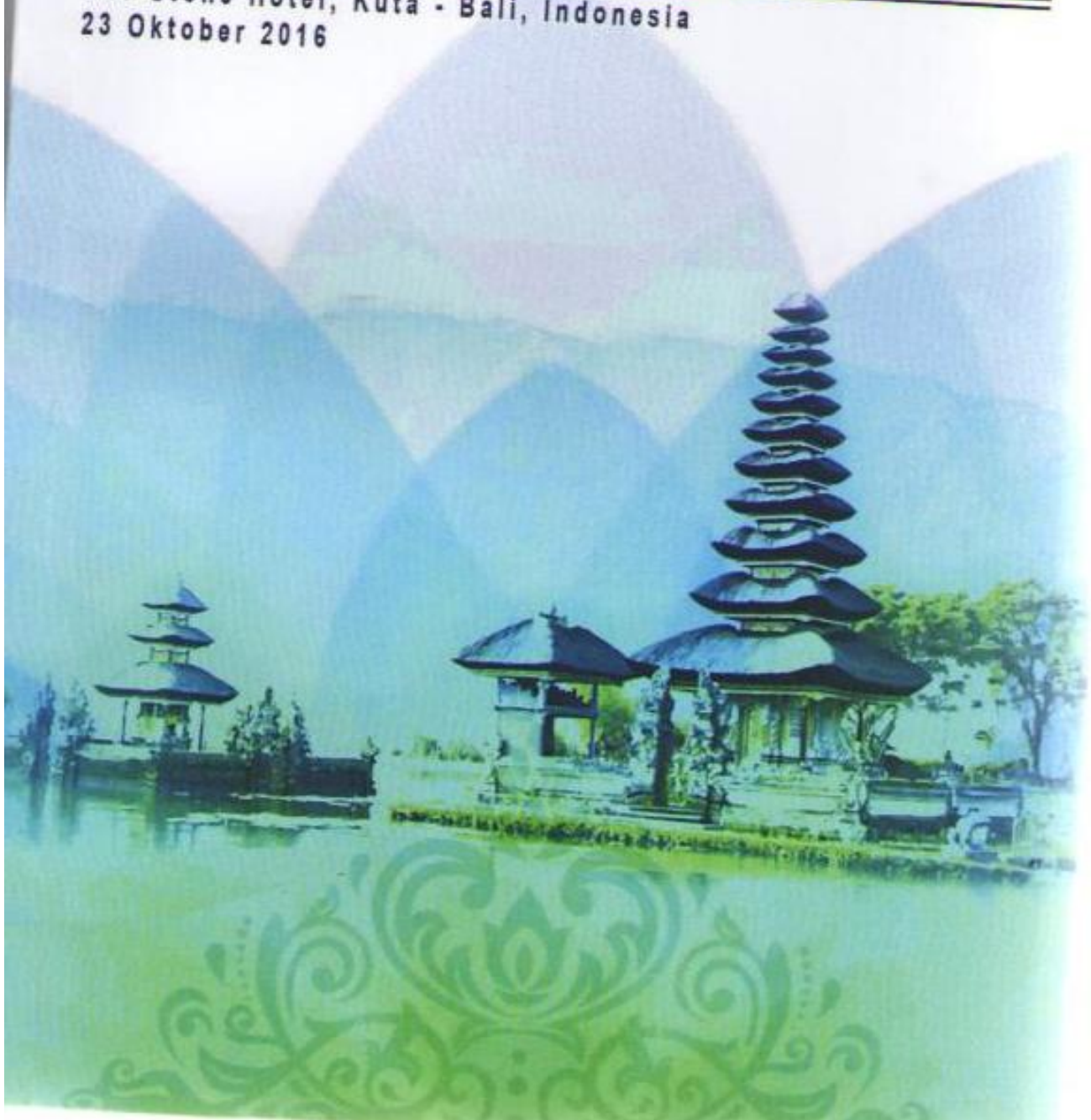




National Symposium of Dermatology and Venereology

# TROPICAL SKIN INFECTIONS

The Stone Hotel, Kuta - Bali, Indonesia  
23 Oktober 2016



Perpustakaan Nasional RI:  
Katalog dalam Terbitan (KDT)  
"National Symposium of Tropical Skin Infection"

Denpasar, 2016  
14,5x21 cm  
vii, 290, illus

Penulis

: Made Swastika Adiguna, Prof., dr., Sp.KK(K); Indropo Agusni,  
Prof., Dr., dr., Sp.KK(K); Ni Made Dwi Puspawati, dr., Sp.KK;  
IGAA Dwi Karmila, dr., Sp.KK; Isaak Effendy, Prof., Dr., med.;  
Hanny Nilasari, dr., Sp.KK(K); IGAA Elis Indira, dr., Sp.KK; AAGP  
Wiraguna, Dr., dr., Sp.KK(K); I Made Sudarmaja, Dr., dr.,  
M.Kes.; Made Wardhana, Dr., dr., Sp.KK(K); Pati Aji Achdiat,  
dr., Sp.KK., M.Kes.; Nyoman Sri Budayanti, Dr., dr., Sp.MK(K);  
Ni Luh Putu Ratih Vibriyanti Karna, dr., Sp.KK; Sandra Widaty,  
Dr. dr., Sp.KK(K); Menaldi Rasmin, Prof., Dr., dr., Sp.P(K); IGAA  
Praharsini, Dr., dr., Sp.KK; Luh Made Mas Rusyati, Dr., dr.,  
Sp.KK; I Made Jawi, Dr., dr., M.Kes.

Tim Editor :  
Ketua : Made Swastika Adiguna  
Anggota : Luh Made Mas Rusyati, Prima Sudarsa  
Setting : I Gde Nengah Adhilaksman S. W.  
Desain Cover : I Gde Nengah Adhilaksman S. W.  
Cetakan : 2016  
ISBN : 9 786022 941385  
Dicetak oleh : Mulya Print

Deterbitkan atas kerjasama antara PERDOSKI (Perhimpunan Dokter Spesialis Kulit dan Kelamin Indonesia) Cabang Bali, Bagian/SMF Ilmu Kesehatan Kulit dan Kelamin RSUP Sanglah, dan Fakultas Kedokteran Universitas Udayana Denpasar-Bali, Ikatan Dokter Indonesia Wilayah Bali dan PMKI (Persatuan Mikologi Kedokteran Indonesia)

©Hak cipta yang dilindungi oleh undang-undang  
Dilarang keras mengutip, menjiplak, atau mengkopi, memperbanyak, atau menyebarkan dalam bentuk apapun baik sebagian maupun seluruh isi serta memperjualbelikannya tanpa mendapat izin tertulis dari penulis dan penerbit.

## DAFTAR ISI

Judul .....	i
Kata Pengantar .....	iii
Daftar Isi .....	v
<b>Prinsip Penanganan Infeksi di Bidang Dermatologi .....</b>	<b>1</b>
Prof. dr. Made Swastika Adiguna, Sp.KK(K), FINSDV, FAADV	
<b>Beban Masalah Kusta di Indonesia dan Beberapa Kebijakan Baru .....</b>	<b>19</b>
Prof. Dr. dr. Indropo Agusni, Sp.KK(K)	
<b><i>Pseudomonas aeruginosa</i>: Infeksi Kulit dan Jaringan Lunak ...</b>	<b>31</b>
dr. Ni Made Dwi Puspawati, Sp.KK	
<b>Manifestasi Dermatologis pada Diabetes Melitus .....</b>	<b>51</b>
dr. IGAA Dwi Karmila, Sp.KK	
<b><i>Anal Warts (Condylomata Acuminata): Current Issues</i> .....</b>	<b>65</b>
Prof. Dr. med. Isaak Effendy	

<b>Herpes Simpleks Rekuren: Tatalaksana dan Pencegahan .....</b>	<b>67</b>
dr. Hanny Nilasari, Sp.KK(K), FINS DV, FAADV	
<b><i>Update on the Management of Post Herpetic Neuralgia .....</i></b>	<b>77</b>
dr. IGAA Elis Indira, Sp.KK	
<b><i>Challenges in the Management of HPV Infection in Immunocompromised Patients .....</i></b>	<b>103</b>
Dr. dr. AAGP Wiraguna, Sp.KK(K), FINS DV, FAADV	
<b><i>Cysticercosis: Emerging Parasites Diseases .....</i></b>	<b>117</b>
Dr. dr. I Made Sudarmaja, M.Kes	
<b><i>Immunology of Susceptibility and Resistance in Scabies .....</i></b>	<b>123</b>
Dr. dr. Made Wardhana, Sp.KK(K), FINS DV	
<b><i>Arthropod Borne Infection in Dermatology .....</i></b>	<b>139</b>
dr. Pati Aji Achdiat, Sp.KK, M.Kes	
<b><i>Molecular Mechanism of Antibiotic Resistance in Gram-Positive and Gram-Negative Bacteria Infection .....</i></b>	<b>181</b>
Dr. dr. Nyoman Sri Budayanti, Sp.MK(K)	
<b><i>Viral Exanthema Management: Role of Immunomodulator and Antiviral .....</i></b>	<b>182</b>
dr. Ni Luh Putu Ratih Vibriyanti Karna, Sp.KK	

**Obat Antijamur Sistemik: Klasifikasi Obat dan Perkembangan  
Terbaru Golongan Azol ..... 197**

*Dr. dr. Sandra Widaty, Sp.KK(K)*

**Etik dan Keselamatan Pasien ..... 199**

*Prof. dr. Menaldi Rasmin, Sp.P(K), FCCP*

**Managemen Perubahan Pigmen Pasca Infeksi pada Kulit..... 201**

*Dr. dr. IGAA Praharsini, Sp.KK, FINS DV*

**Penatalaksanaan Ulkus Kulit yang Berhubungan dengan  
Infeksi ..... 215**

*Dr. dr. Luh Made Mas Rusyati, Sp.KK, FINS DV*

**Penggunaan Antibiotika yang Rasional untuk Infeksi Kulit ... 225**

*Dr. dr. I Made Jawi, M.Kes*

**Abstract Free Paper Presentations**

## MOLECULAR MECHANISM OF ANTIBIOTIC RESISTANCE IN GRAM POSITIVE AND GRAM NEGATIVE BACTERIA INFECTION

Ni Nyoman Sri Budayanti

Microbiology Department,  
Faculty of Medicine, Udayana University

### Abstract

Antibiotic resistance is increasing worldwide at an accelerating pace, reducing the efficacy of therapy for many infectious diseases, increasing health cost, morbidity and mortality related to infectious diseases. There are five main target sites for antibacterial action that are cell wall synthesis, protein synthesis, nucleic acid synthesis, metabolic pathway and cell membrane function. Bacteria are classified according to their cell wall as Gram positive or Gram negative. The main structural component of the cell wall is a peptidoglycan that is targeted for antibacterial action. Resistance of bacteria to antibiotics may be intrinsic or acquired. Intrinsic resistance is part of a bacterium's genetic make-up, encoded on the chromosome. Development of resistance is the major limiting factor of antibacterials. It arises through random mutation of bacterial chromosomal genes or through acquisition of resistance genes on integrons, transposons and plasmids. Conjugation is the most common method of resistance transfer in clinically important bacteria. Conjugative plasmids, which are capable of self-transmission to other bacterial hosts, are common in Gram-negative enteric bacilli whereas non-conjugative plasmids are common in Gram-positive cocci.

Mutated or acquired genes confer resistance by altering the target site of the antibiotic, altering the uptake of the drug or producing drug-degrading enzymes.