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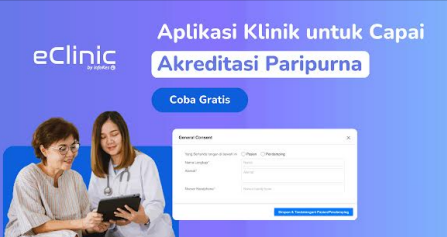
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ARTICLES



The role of protein-53 amyloid in determining the aggressiveness of basal cell carcinoma regulated by interleukin-6, myeloid cell leukemia-1 and basic fibroblast growth factor

Prasetyadi Mawardi, Handono Kalim, Kusworini Handono Kalim, Loeki Enggar Fitri, Karyono Mintarjo, Ambar Mudigdo, Oyong Oyong, Brian Wasita

<https://doi.org/10.4081/dr.2019.8012>

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The efficacy of skin care products containing glutathione in delivering skin lightening in Indonesian women

Kristiana Etnawati, Dwi Retno Adiwarni, Devi Sauchi, Hitomi Ito

<https://doi.org/10.4081/dr.2019.8013>

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The efficacy of skin care products containing glutathione in delivering skin lightening in Indonesian women

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Autologous non-cultured epidermal cell suspension combined with platelet rich fibrin for the treatment of stable vitiligo: A case series

Adniana Nareswari, Dendy Zulfikar, Indah Julianto, Suci Widhiati

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Distribution of Mycobacterium leprae genotypes from Surabaya and Bandung Clinical Isolates by Multiple Locus Variable Number of Tandem Repeat Analysis

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Potential for serodiagnosis of



Indonesian leprosy patients by detecting antibodies against LID-1

Nanny Herwanto, S. Sawitri, Cita Rosita Sigit Prakoeswa, Shinzo Izumi, Malcom S. Duthie, Indropo Agusni

<https://doi.org/10.4081/dr.2019.8018>

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The role of beluntas (*pluchea indica* less.) leaf extract in preventing the occurrence of fibroblasts hyperproliferation: An in vitro preliminary study

Sakti Charlia Maharani, Indah Julianto, Suci Widhiati

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Development of "Deskab" as an instrument to detect scabies for non-medical personnel in Indonesia

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Mycobacterium leprae deoxyribonucleic acid positivity on



skin lesion of untreated leprosy patients and its route to the skin surface

Endi Novianto, Patricsia Manalu, Benny Effendi Wiryadi, Sri Linuwih Menaldi

<https://doi.org/10.4081/dr.2019.8024>

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Immunoglobulin AMG Anti Natural Disaccharide Octyl - Leprosy IDRI Diagnostic (NDO-LID) Serologic Test for Leprosy Diagnosis: a Pilot Study

Bayu Bijaksana Rumondor, Anisha Callista Prakoeswa, Meva Nareza Trianita, I. Iswahyudi, Nanny Herwanto, M. Yulianto Listiawan, Indropo Agusni, Shinzo Izumi, Malcom Duthie, Cita Rosita Sigit Prakoeswa

<https://doi.org/10.4081/dr.2019.8025>

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Comparison amount of microphthalmia-associated transcription factor in vitiligo before and after narrowband-ultraviolet B therapy

Linda Astari, Putri Hendria

[31/dr.2019.8030](https://doi.org/10.4081/dr.2019.8030)

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Comparison between fractional Co2 laser-triamcinolone injection combination therapy and triamcinolone injection monotherapy for keloid

M. Yulianto Listiawan, Dwi Murtiastutik, Willy Sandhika, Brama Rachmantyo, Putri Hendria Wardhani

<https://doi.org/10.4081/dr.2019.8032>

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Why are they hard to treat? A preliminary survey to predict important factors causing persistent scabies among students of religion-affiliated boarding schools in Indonesia

Rahadi Rihatmadja, Eliza Miranda, Melani Marissa Wicaksono, Sandra Widaty

<https://doi.org/10.4081/dr.2019.8033>

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The relationship between skin phototype, gender, and stress level with the incidence of acne vulgaris in students in Surakarta

...mungkas, Flora Ramona

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The efficacy and safety of fractional erbium yag laser combined with topical amniotic membrane stem cell (AMSC) metabolite product for facial rejuvenation: A controlled, split-face study

Ni Putu Susari Widianingsih, Trisniartami Setyaningrum, Cita Rosita S. Prakoeswa

<https://doi.org/10.4081/dr.2019.8036>

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Sleep problems in 0-36 months old Indonesian children with atopic dermatitis

I. Irwanto, Hapsari W. Ningtiar, Taufiq Hidayat, Azwin M. Putera, Zahrah Hikmah, Anang Endaryanto

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A comparative study of Chicago Sky Blue and Parker™ ink blue black potassium hidroxide in the diagnosis of dermatophytes

ahmadewi, Evy Ervianti

[31/dr.2019.8040](https://doi.org/10.4081/dr.2019.8040)

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Detection of ureaplasma urealyticum by polymerase chain



reaction examination in nonspecific genital infection patients

R. Rahmadewi, Dian PH

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Profile of patients with tinea capitis

Siti Amira Venitarani, Samsriyaningsih Handayani, Evy Ervianti

<https://doi.org/10.4081/dr.2019.8042>

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The effect of combination narrowband ultraviolet B phototherapy and vitamin D3 supplementation to increase serum 25-(OH)D levels in adult vitiligo patients

Reiva Farah Dwiwana, Fatima Aulia Khairani, Pufana Meidelia, Unwati Sugiri, Reti Hindritiani, Hendra Gunawan, Oki Suwarsa

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warsa, A. Achadiyani,

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Predictor factor of inguinal lymph lode metastasis in men with penile cancer at Sanglah General Hospital, Denpasar, Bali

I. Wayan Yudiana, Gede Wirya Kusuma Duarsa, Anak Agung Gde Oka, Kadek Budi Santosa, Pande Wisnu Tirtayasa, Harmaya AK, Wahjoe Djatisoesanto

<https://doi.org/10.4081/dr.2019.8046>

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Reading the history of venereal diseases in the city: Venereal disease from Surabaya, 19th-20th century

M. Moordiaty

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The efficacy of vitamin D3 supplementation in increasing 25-hydroxyvitamin D levels in childhood vitiligo patients receiving 308-nm-excimer light phototherapy

Reiva Farah Dwiyana, Pramita K.C. Nugrahaini, D.P. Larasati, Inne Arline Diana, Reti Hindritiani, Hendra Gunawan, Oki Suwarsa

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Nongonococcal cervicitis: The most common cause of fluor albus in female sex workers

Aff Nurul Hidayati, A. Astindari, Maylita Sari, Dwi Murtiastutik, Sunarko Martodihardjo, Jusuf Barakbah

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Causative drugs and HLA-B polymorphism in drug-induced Stevens-Johnson syndrome - toxic epidermal necrolysis: A study in five hospitals in Jakarta

Anesia Tania, Evita Halim Effendi, Inge Ade Krisanti, Yulia Ariani

 <https://doi.org/10.4081/dr.2019.8052>

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Hematological, hepatic, and renal adverse effects of high dose methotrexate injection (50 mg weekly) in severe psoriasis cases

Adissa Tiara Yulinvia, Prasta Bayu Putra, Niken Trisnowati, Sunardi Radiono

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Polymerase chain reaction chlamydia trachomatis examination in nonspecific genital infection patients

Dian Pertiwi Habibie, Dwi Murtiastutik, R. Rahmadewi

<https://doi.org/10.4081/dr.2019.8055>

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Ph value of infant's skin is higher on diaper area compared to nondiaper area

Nadia Wirantari, Linda Astari, Iskandar Zulkarnain

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The Correlation of Ig M Anti PGL-1 antibody between blood veins and dried capillary blood on filter papers in household contact of

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Staphylococcus aureus colonization on antecubital non-exacerbated atopic dermatitis patient compared to healthy children

Nur Khamidah, Evy Ervianti, Hari Sukanto

<https://doi.org/10.4081/dr.2019.8058>

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Cutaneous adverse drug reaction in Human Immunodeficiency virus patient associated with antiviral therapy: A retrospective study

Vidyani Adiningtyas, Cita Rosita Sigit Prakoeswa, Erwin Astha Triyono

<https://doi.org/10.4081/dr.2019.8059>

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Neisseria gonorrhoeae resistance test against cefixime in gonorrhea patients in Surabaya

Amalia Desitawati, C. Sawitri, Afif Nurul Hidayati

<https://doi.org/10.4081/dr.2019.8060>

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...ene e4 level profile in various degrees of severity in

atopic dermatitis patients in dermatovenereology outpatient clinic Dr. Soetomo General Hospital, Surabaya: A descriptive study

Meita Ardini Pratamasari, M. Marsoedi Hoetomo, Afif Nurul Hidayati

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Genotyping of Human Papilloma Virus (HPV) in female condyloma acuminata patient in Dr. Soetomo Hospital, Surabaya

Afria Arista, Dwi Murtiastutik, Trisniartami Setyaningrum, Gondo Mastutik

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Erwin Astha Triyono, Stefania Rany Seran, Didik Hasmono

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Indramaya

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CASE REPORTS



Importance of dermoscopy in diagnosis of tinea capitis: An evidence-based case report

Aninda Marina, Marsha Bianti, Sandra Widaty, Eliza Miranda

 <https://doi.org/10.4081/dr.2019.8072>

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Fractional laser and laser assisted corticosteroid delivery for hypertrophic scars in thermal burns

Ni Putu Susari Widianingsih, Cita Rosita S. Prakoeswa

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902 PDF: 327



The application of liposomal azelaic acid, 4-n butyl resorcinol and retinol serum enhanced by microneedling for treatment of malar pattern melasma: A case series

Arie Kusumawardani, Anggana Rafika Paramitasari, Susanti Rosmala Dewi, Ance Imelda Betaubun

<https://doi.org/10.4081/dr.2019.8075>

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Hair removal treatment using 1,064 nm long-pulsed Nd:YAG laser in auricular post reconstruction of microtia patient: two case reports

Kartika Ruchiatan, Erika Dewi Essary, Reti Hindritiani, RM Rendy Ariezal Effendi, Rani Septrina, Hendra Gunawan, Oki Suwarsa

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Subcutaneous phaeohyphomycosis: A rare case

Zahrudin Ahmad, Diah Mira Indramaya, Yuri Widia, Sylvia Anggraeni, Linda Astari, Evy Ervianti, Sunarso Suyoso

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Xeroderma pigmentosum with ocular involvement and squamous cell carcinoma: A case report

Bernadya Yogatri Anjuwita Saputri, Iskandar Zulkarnain

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Scabies incognito

Nanny Herwanto, Hasnikmah Mappamasing, Septiana Widiantari, Trisiswati Indranarum, Afif Nurul Hidayati, S. Sawitri, Evy Ervianti, Dwi

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ingrowing toenails

Eva Krishna Sutedja, Vina Feriza, Rachel Marsella Rahardjo, Dina Fatmasari, Reti Hindritiani, Hendra Gunawan, Oki Suwarsa

<https://doi.org/10.4081/dr.2019.8084>

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Crusted scabies in systemic lupus erythematosus: More than a mite contagious case

Eva Lydiawati, Indropo Agusni, Dwi Murtiastutik, Evy Ervianti, S. Sawitri, Trisiswati Indranarum, Septiana Widyantari, Hasnikmah Mappamasing

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Aspergillus fumigatus as an agent of cutaneous aspergillosis in immunocompetent patient: A rare case

Trisniartami Setyaningrum, Karina Dyahtantri Pratiwi

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Dermoscopic evaluation of tinea capitis: A case report

Ade Fernandes, Yuri Widia, Sylvia Anggraeni, Linda Astari, Evy Ervianti, Sunarso Suyoso

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Establishing the diagnosis neurofibromatosis type 1: A rare case

Dyatiara Devy, D. Damayanti

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Report: Acquired vulva in a young female lymphadenitis

ul Hidayati

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Diffuse lepromatous leprosy caused by dual infection of mycobacterium leprae and mycobacterium lepromatosis: A case report

Ridha Ramadina Widiatma, Hari Sukanto

<https://doi.org/10.4081/dr.2019.8094>

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Crusted scabies in patients with long-term use of oral corticosteroid with different underlying diseases – case series

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<https://doi.org/10.4081/dr.2019.8095>

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Successful treatment of severe psoriasis vulgaris in child with methotrexate injection

Agatha Anindhita, S. Sawitri

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Khanisyah E. Gumilar, Manggala Pascawardhana,
Budi Wicaksono, E. Ernawati, Agus Sulistyono, A.
Aditiawarman, Hermanto T. Joewono, M.N.
Abdullah, Erry G. Dachlan

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Serial case reports: Pregnancy with Lucio's phenomenon of leprosy in dr. Soetomo hospital, Surabaya

Nareswari I. Cininta, M.I.A. Akbar,
Rozi A. Aryananda,
Khanisyah E. Gumilar,
Mangala Pascawardhana,
Budi Wicaksono, Ernawati,
Agus Sulistyono, Aditiawarman,
Hermanto T. Joewono, M.N. Abdullah,
Erry G. Dachlan

Maternal Fetal Medicine Division,
Obstetrics & Gynecologic Department,
Faculty of Medicine, Universitas
Airlangga, Dr. Soetomo General
Hospital, Surabaya, East Java,
Indonesia

Abstract

Leprosy is a complex disease which will affect in many aspects of the patient. In dr. Soetomo hospital, there were two cases of pregnancy with leprosy and Lucio's phenomenon from 2014 until 2018. Both had been receiving multidrug therapy (MDT) before pregnancy but stopped due to lack of compliance. First case was resulted with term. Second case was admitted with worse condition than the first case, fetal growth restriction and ended with preterm delivery probably because the severity of the case. Lucio's phenomenon incidence is increased in pregnancy due to immunodeficient condition. This serial case report shows that the initial diagnosis and optimum treatment of leprosy is very important especially in women of child-bearing age.

Introduction

The global trend of new cases of leprosy detected shows gradual decline from 265,661 in 2006 to 210,758 in 2015.¹ By 2015, Indonesia is still the third country with the highest new case of leprosy (3%) after India (60%) and Brazil (13%). On 2000, leprosy has been declared eradicated and for twelve years the prevalence was 8-10/100,000 people (the target is <10/100,000 or <1/10,000) On 2015 the prevalence was 0.79/10,000, with a slight increase on 2016 0.80/10,000.^{2,3} The province with highest prevalence is on West Papua with 15.07/10,000 and the case detection rate of 94.36/100,000. Leprosy has a bimodal age distribution, with one peak between 10 and 15 years of age and a

second peak between 30 and 60 years of age. Lucio's phenomenon is a diffuse nodular form of lepromatous leprosy and was first described in 1948 by Latapi and Chavez. In dr. Soetomo hospital, there were two cases of pregnancy with leprosy and Lucio's phenomenon from 2014 until 2018. In this, case reports we aim to discuss the management of pregnancy with leprosy, the effect of the disease to the pregnancy and the physiological changes in pregnancy effect on the disease^{1,2,3,4}

Case Report

Case #1

A 29-year-old primigravida, 29/30 weeks of pregnancy, from Pare, Kediri, East Java, Indonesia was admitted to the emergency room of dermatovenerology department with the suspicion of Steven Johnson's syndrome and consulted to OB/GYN department due to her pregnancy. Her initial complaint was three years before pregnancy with the thickening of the earlobes and loss of eyebrows, she claimed to receive medication from the dermatovenerologist but ceasing her treatment due to unknown reason. She only did antenatal care three times at the midwife and was categorized as high-risk pregnancy due to leprosy. On the first trimester she complained painful scarlet spots with darkening and ulcers on her hands and legs. She was given medication at Pare hospital but her condition was not improving. Three days before admission, the spots were progressing, she was given antibiotic by a general physician but she experienced fever. She was admitted to Pare hospital for two days and referred to dr. Soetomo hospital, Surabaya, due to her deteriorating condition. She was presented with good vital sign, no fever, underweight (body mass index/BMI=17.7), with her fundal height 19 cm, fetal heart rate of 152 beats per minute, no signs of labour. Her laboratory result was anemic with hemoglobin level 8.9 g/dl on the first day of admission and dropped down until 6 g/dl on the third day of admission. Aside from anemia, she also suffered from hypoalbuminemia with the declining trend from 2.6 g% to 1.9 g%. The sonography examination at the maternal fetal medicine division appeared with the exceptional result, no signs of fetal growth rate restriction, good amount of amniotic fluid and no markers of major congenital anomaly. The Doppler velocimetry examination of umbilical artery showed normal waveform and values.

The cardinal signs of leprosy, such as hypopigmentation or erythematous patches

Correspondence: Nareswari Cininta.
Obstetrics & Gynecologic Department Dr.
Soetomo general hospital, Jl. Prof. dr.
Moestopo 6-8, Surabaya, East Java, Indonesia,
60285. Phone: +6281233721937.
E-mail: nareswari_cininta@yahoo.com

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of the skin and sensory loss were not present. From facial region there was *madarosis*, *facies leonina*, earlobes thickening. From upper and lower extremities, there were multiple *erythematous macula* with clear and several unclear boundaries, bullous lesion, erosion and *crustae* (Figure 1) Slit-skin smear from earlobes showed bacterial index (BI) 6+ and morphological index (MI) 7%. A skin biopsy from the leg's ulcer showed atrophic epidermis with Gentz zone, foam cells with some lymphocyte cells, vasculitis with endothelium occlusion of thrombus on the dermis. There was lymphocyte infiltration at the blood vessels. Acid-fast bacilli were positive in subcutaneous fat and endothelium of blood vessels. These findings suggested Lucio's phenomenon (Table 1).

She received blood and albumin transfusion, WHO-MDT Multi Bacillary (MB) regimen, antibiotic with Claritromycin and dexamethasone administration 0.5 mg, three times daily for two weeks and substituted with methylprednisolone tablets, 16 mg, twice daily, tapering off for one month, along with 1,000 mcg of folic acid, once daily. Samples were collected from skin lesion, amniotic fluid to detect *M. leprae* DNA using Polymerase Chain Reaction (PCR) method and on delivery samples from umbilical cord blood, placenta membrane were taken for serological examination of phenolic glycolipid-1 (PGL-1) using Enzyme Linked Immunosorbent Assay (ELISA). PCR examination result were: 1:

taken from skin lesion, positive result; 2: taken from amniotic fluid, positive result; 3: taken from placenta membrane, negative result; 4: taken from umbilical cord blood, negative result.

During her admission, she suffered skin loss at the digits of her lower extremities and many lesions at the inguinal area which cause difficulty on performing lithotomy position for delivery. Thus, the team decided to perform cesarean delivery and insertion of contraceptive intrauterine device on 39/40 weeks of pregnancy. Her baby was born male, weighing 2650 g, 48 cm, Apgar score 8-9, no signs of growth restriction from the Ballard's score (appropriate with 38/39 weeks of pregnancy) and Lubchenko's score of p10-25. There were no signs of congenital leprosy at the baby.

Case #2

A 21-year-old primigravida, 31/32 weeks of pregnancy, from Sampang, East Java, Indonesia was admitted to the emergency room of dermatovenereology department with the Lucio's phenomenon and consulted to OB/GYN department due to her pregnancy. Her mother suffered leprosy for ten years ago but she refused medication, while the patient initial complaint was four years before pregnancy with hypopigmentation macula at the feet. At the end of 2017 the lesions worsened and she received MDT from Sampang primary health centre only to take it for one month due to diarrhea. She only did twice antenatal care at the midwife and was categorized as high-risk pregnancy due to leprosy. Since third until fifth months of pregnancy the painful ulcers appeared and she was admitted to Sampang general hospital for three days before referred to dr. Soetomo hospital.

She was presented with good vital sign, no fever, (body mass index/BMI= 17.8) with her fundal height 21 cm, fetal heart rate of 160 beats per minute, no signs of labour. Her laboratory result was pancytopenia with hemoglobin level 9.3 g/dl, leucocyte level of 2,780 and thrombocyte level of 65,000. She also suffered from hypoalbuminemia with 1.6 g%

The sonography examination at the emergency delivery room appeared with suspicion of fetal growth rate restriction with overall biometry appropriate with 29/30 weeks, low amount of amniotic fluid (amniotic fluid index = 3.6) which causes the exploration for markers of major congenital anomaly was not performed due to technical difficulty. The Doppler velocimetry was not performed due to limitation of the sonography device.

From facial region there was *madarosis*, *facies leonina*, earlobes thickening (Figure

2) From upper and lower extremities, there were multiple *erythematous macula* with clear and several unclear boundaries, bullous lesion, erosion and *crustae*. The dermatovenereology department planned for biopsy of the lesion, serology and PCR examination from skin biopsy and blood. She received antibiotic with Cloxacillin 500 mg three times daily and dexamethasone administration 0.5 mg, once daily for two days and tapering off, along with 1,000 mcg of folic acid, once daily. For the exploration of the pancytopenia, we planned for blood smear examination, serum ferritin level,

serum iron level, total iron binding capacity level, ANA test, C3, C4.

Due to the condition of the fetus with signs of growth restriction, we planned to do conservative treatment for maternal saving and have multidisciplinary discussion for the further plan of this case. On the third day her admission before case discussion, she entered labour and resulted in preterm delivery. Her baby was born male, weighing 1200 g (appropriate with 29/30 weeks of pregnancy), 40 cm, Apgar score 1-1-0 There was no sign of congenital leprosy at the baby. The patient received MDT after deliv-

Table 1. ELISA examination result of the first case.

Subject	ELISA anti PGL-1		Cutt-off	
	IgM (u/mL)	IgG (u/mL)	IgM (u/mL)	IgG (u/mL)
Patient	4.854	1.061	605	630
Umbilical Cord				
Blood	0	516		

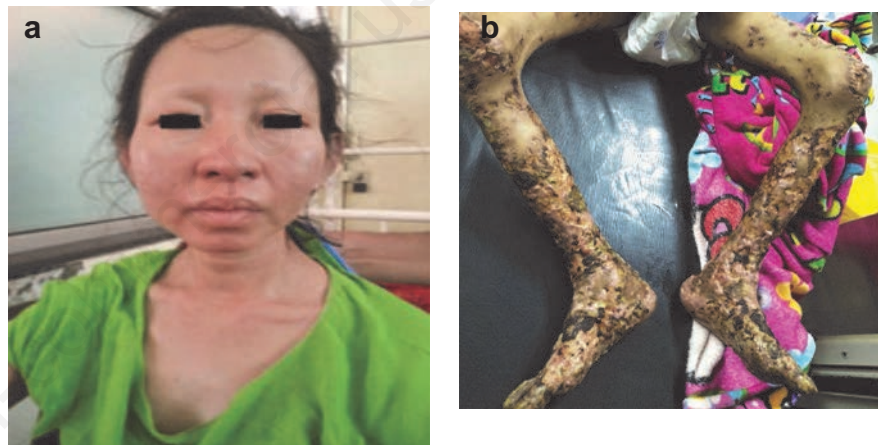


Figure 1. (a) Eyebrow loss; (b) Hyperpigmented macula and plaques at both extremities.

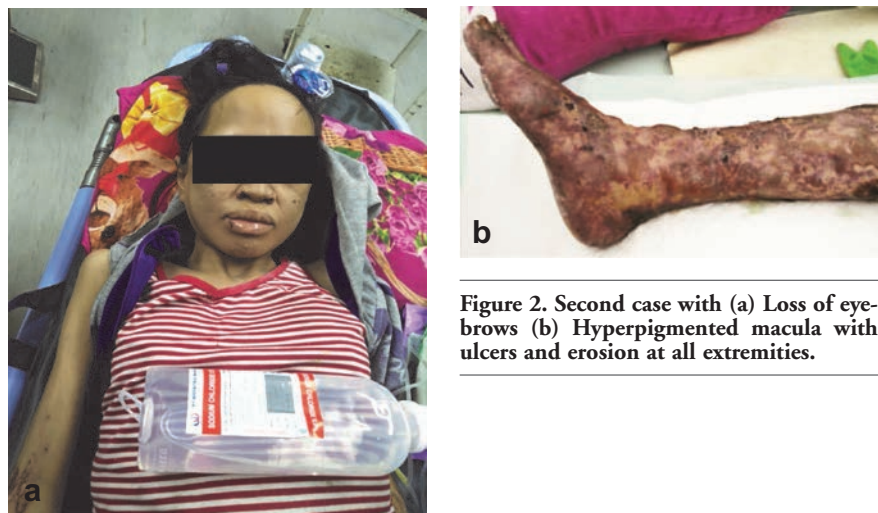


Figure 2. Second case with (a) Loss of eyebrows (b) Hyperpigmented macula with ulcers and erosion at all extremities.

ery and there are no signs of complication from the gynecologic organs. We advised her to take optimum treatment for leprosy until relieved before attempting another pregnancy.

Discussion

The US NHDP estimates that more than 95% of individuals are not susceptible to leprosy, even after significant exposure. Individuals who develop leprosy demonstrate an impaired cell-mediated immune response to the *M. leprae* bacillus and this results in widespread systemic disease. The underreporting of leprosy cases particularly in women is affected by low education level, low economic status and other cultural factors. Pregnancy causes relative decrease of cellular immunity which allows *M. leprae* to proliferate and the incidence of relapse after treatment may precipitate the first symptoms of leprosy, neuritis, and the *erythema nodosum leprosum*. The infant has high risk of contracting leprosy from skin-to-skin contact or droplet transmission from the mother, especially if she does not get treatment^{4,5}. Prakoeswa et al reported the possi-

bility of placenta as protective barrier towards vertical transmission of *M. leprae*. PGL-1 is a specific antigen to the *M. leprae* bacillus and to be shown higher in multi-bacillary cases than paucibacillary cases. PGL-1 has role in demyelination of Schwann cells. On examination of IgG/IgM anti-PGL-1 titers were high at the mother and low at the umbilical cord blood. This proved that placenta provide adequate innate defense against pathogens. MDT should also be continued during pregnancy because of the safety for maternal and fetal side. The US NHDP advises females of childbearing potential to avoid pregnancy until treatment is completed^{4,6}.

Conclusions

The cellular immunity changes during pregnancy contributed to leprosy progression especially in untreated cases. 20-30% of pregnant women has first symptoms of leprosy during pregnancy or immediately after and Lucio's phenomenon are more commonly seen due to the immunodeficient state of pregnancy. It is important to detect and treat leprosy before pregnancy to avoid maternal and fetal complications during pregnancy.

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