



INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

## A CASE OF LUCIO PHENOMENON IN LEPROMATOUS LEPROSY

Satya Wydya Yenny<sup>(1)</sup> - Tutty Ariani<sup>(1)</sup> - Dwisepfourteen - <sup>(1)</sup> - Tofrizal - <sup>(2)</sup>

Andalas University/dr. M. Djamil General Hospital, Department Of Dermatology And Venereology, Padang, Indonesia<sup>(1)</sup> - Andalas University/dr. M. Djamil General Hospital, Department Of Pathology Anatomy, Padang, Indonesia<sup>(2)</sup>

Background: Lucio's phenomenon is a rare and this is a special type of reaction observed in uniformly diffuse shiny infiltrative non-nodular form of lepromatous leprosy, called as lucio's leprosy. Its unique feature, it is seen only in untreated cases. Lucio's phenomenon is very rarely reported in East and West Asia. This is our fourth case reported from our Department and RS. Dr. M. Djamil Hospital since 2014 – 2018.

Observation: A 46 years old man presented with painless ulcers on his lower limbs, with surrounded by purpuric patches which subsequently became gangrenes and ulcerated for 3 weeks. On physical examination was moderate and body temperature was normal. We found madarosis, hypoesthesia lesions and on the feet, legs, hands, arms, such as ulcers and erosions covered with necrotic tissue. Dermatology state: there were multiple ulcers with irregular necrotic ulcer with gangrenous of the tip of the toes, fingers. There were diffuse infiltration on face, ears and trunk. Xerotic skin on the legs and arms. Stocking gloves anesthesia was positif, slit skin smears from both earlobes and ulcers was +6. In the hematologic examination we obtained anemia and hypoalbuminemia. Histopathological showed an obliterated and obstructed blood vessels. There were numerous of M. leprae in the blood vessel wall from FiteFaraco staining. The patient was diagnosed as Lucio phenomenon in Lepromatous leprosy. This patient is given adult multiple drug therapy (MDT) therapy, methylprednisolone, neurotrophic vitamins.

Key Message: Lucio's phenomenon most commonly affects patients with untreated leprosy. Early diagnosis and prompt institution of multi-drug therapy together may improve the prognosis and outcome of Lucio's phenomenon.

Keywords: Lucio's phenomenon, lepromatous leprosy, Lucio leprosy, rare case

