



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

KOPLIK SPOTS IN A PAPULAR-PURPURIC GLOVES AND SOCKS SYNDROME DUE TO PARVOVIRUS B19 ACUTE INFECTION

G Neely⁽¹⁾ - R Cabrera⁽¹⁾

Clínica Alemana De Santiago - Universidad Del Desarrollo, Department Of Dermatology, Santiago, Chile⁽¹⁾

Background: Koplik spots have been considered a pathognomonic sign of measles since its first description by Henry Koplik in 1886. In measles they have been described as white slightly raised spots of 2-3 mm in diameter on an erythematous base opposite to first or second molars in the oral mucosa. They are present in more than 70% of patients with measles and appear one day before the onset of the rash, persisting for 2-3 days. Currently this finding is not exclusive for measles since it has been reported as an uncommon finding in echovirus-9 and parvovirus B19 infections.

Observation: We present a case of a 42-year-old man who had a four-day history of malaise, headache and low-grade fever. According to his medical history, he received the measles, mumps, rubella (MMR) vaccination scheme during childhood. The physical examination revealed a pruritic papular and purpuric rash with gloves and socks distribution associated with multiple Koplik spots with a mild erythema surrounding each lesion on the lower lip mucosa, without lesions on the posterior buccal mucosa. The serology of parvovirus B19 was positive for IgM and negative for IgG, suggesting an acute infection.

Key message: To our knowledge, there are only two cases reported which describe Koplik spots in the oral mucosa in parvovirus B19 acute infections, and neither of them shows images of this finding. Both patients had positive IgM and negative IgG for parvovirus B19, compatible with acute infection.

This is the first report of Koplik spots in a parvovirus B19 infection occurring exclusively on the lower lip mucosa, without lesions on the classical posterior buccal mucosa. Although it is an extremely infrequent mucosal manifestation of parvovirus B19 infection, it is important to note for a differential diagnosis with measles due to the different clinical prognostic implications.

