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

## FAMILY MEASLES OUTBREAK IN VACCINATED

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BACKGROUND: Measles is an infectious disease with high contagiousness in unvaccinated individuals; that is why the strategies for its control are based on the systematic immunization of the population with goals of at least 95%, especially for prevention of mortality in risk groups. Despite worldwide efforts, outbreaks have occurred in areas with high coverage of vaccines. In 2011, 5 cases of measles were reported in vaccinated people who transmitted the disease to 4 contacts in New York City. There are reports that neutralizing antibodies persist up to 10 years after the second immunization. In Venezuela, during the year 2018 three epidemiological outbreaks of measles are active, we present three vaccinated patients whose contagion started from a non-immunized index case.

OBSERVATION: A 55-year-old female Dermatologist who 5 days after evaluation of a 7-month-old child with a clinical diagnosis of measles, presented respiratory symptoms, fever and generalized erythem; antecedent of childhood vaccination and reinforcement in 2007 due to measles outbreak in the locality. On the third day after the onset of symptoms, her 17-year-old daughter presents a similar picture and also 7 days later another 22-year-old daughter (Medical Student) debuts with fever, chills and generalized maculo-papular rash, bilateral conjunctivitis with intense photophobia and enanthem with Koplic spots; both had received double vaccination in childhood. First two cases correspond clinically to atypical measles; the third to a typical case, presentation of the three cases could be related to expected absence of neutralizing antibodies 10 years after vaccination.

KEY MESSAGE: measles, immunization





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