

The coronavirus (COVID-19) epidemic and patient safety



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In this issue of the *JAAD*, Chen et al¹ discuss patient safety measures in a Chinese dermatology clinic during the coronavirus outbreak (2019-nCoV acute respiratory disease), including patient screening, respiratory precautions, and telemedicine consultations. The steps they enacted serve as a reminder that we should have policies in place for infection control in every dermatology clinic.

Patients with varicella, measles, and other viral exanthems present to the dermatologist and may pose a risk to patients and office staff. Employees should receive all appropriate vaccinations, and testing should be available for employees to determine their immune status. This is especially important for women of child-bearing age who may be exposed to diseases such as varicella and erythema infectiosum. If available, a negative pressure room should be designated as an isolation room for patients with respiratory pathogens, and exposed susceptible individuals should be furloughed during the incubation period.^{2,3} Large health care organizations often address these issues during in-processing of employees, but many dermatologists practice in private clinics and should review existing policies to prepare for the inevitability of contagious patients entering the clinic.

This is not the first outbreak of a severe coronavirus. Prior outbreaks of virulent coronavirus strains have also been associated with severe respiratory syndromes and patient deaths. Individuals who are asymptomatic or who have only mild symptoms may spread the virus. However, superspreading events—instances where an index patient transmitted disease to ≥ 5 subsequent patients—were typically associated with patients who were severely ill, initially not recognized as severe respiratory syndrome-coronavirus cases, and subsequently died. Delays in implementation of control measures contributed to

secondary transmission, but contact tracing, testing, employee furloughing, and implementation of recommended transmission-based precautions for suspected cases ultimately halted transmission.⁴

Our responsibility for patient and employee safety is not limited to respiratory pathogens. Virulent streptococcal infections associated with necrotizing fasciitis and death have been spread during liposuction in outpatient facilities.⁵ The procedures were performed by a single surgical team that traveled between locations, and 2 team members were colonized by the organism. Substandard infection control, including errors in equipment sterilization and standard precautions, contributed to the outbreak.

Prevention of transmission of blood-borne infections deserves special mention, and readers should review the *JAAD* continuing medical education articles that focused on patient safety and blood-borne pathogens ([https://www.jaad.org/article/S0190-9622\(09\)00603-3/fulltext](https://www.jaad.org/article/S0190-9622(09)00603-3/fulltext) and [https://www.jaad.org/article/S0190-9622\(09\)00602-1/fulltext](https://www.jaad.org/article/S0190-9622(09)00602-1/fulltext)).⁶⁻⁸ Standard precautions should be enforced, and policies should be in place for post-exposure prophylaxis. As captains of our individual ships, it falls to us to put policies in place to prevent the spread of disease and prepare for the needle-stick injuries and transmissible diseases that are part of the practice of medicine.

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