

# Skin infection linked to exposure to aquariums is under-diagnosed

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A skin infection linked to exposure to contaminated water in home aquariums is frequently under-diagnosed, according to a Henry Ford Hospital study.

Researchers say diagnosing and managing *Mycobacterium marinum* infection is difficult because skin lesions don't appear for two to four weeks after incubation, leading to delayed treatment and unnecessary and ineffective use of antifungal and antibacterial agents.

During the [incubation period](#), patients also fail to remember the source of the exposure, which is often traced to them cleaning their aquarium. Infection results when bacteria in the non-chlorinated water attacks an open skin wound on the arm or hand.

"People just don't know or think about their fish tank harboring this bacterial organism," says George Alangaden, M.D., a Henry Ford Infectious Diseases physician and the study's lead author.

"And unless they're directly questioned about it by their physician, who may or may not have adequate knowledge of *Mycobacterium marinum* and its prolonged incubation period, appropriate treatment often gets delayed."

The study is being presented Saturday at the Infectious Diseases Society of America's annual meeting in San Francisco.

In a retrospective study conducted between January 2003 and March 2013, researchers identified five patients ages 43 to 72 treated at Henry Ford for *Mycobacterium marinum*, which resemble reddish skin lesions or bumps on the hands or arms. Skin biopsies performed on all five patients confirmed the infection.

The incubation period before [skin lesions](#) appeared ranged from 11 to 56 days. While all five patients responded effectively to antibiotic treatment, it took on average 161 days from the time of initial presentation to time of treatment.

"*Mycobacterium marinum* is not a life-threatening illness, but it remains an unrecognized cause of skin [infection](#)," says Dr. Alangaden. "To accelerate diagnosis and [treatment](#), physicians are encouraged to ask detailed questions about the patient's history, especially questions about potential exposure to aquariums."

Provided by Henry Ford Health System

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