

Naegleria Fowleri : A. Comprehensive Review of Pathogenesis, Diagnosis, and Treatment Strategies

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Abstract: *Naegleria fowleri* is a heat-loving amoeba often called the “brain-eating amoeba.” It causes a very dangerous water-related disease called primary amoebic meningoencephalitis (PAM) in both humans and animals. These amoebae live widely in nature, especially in soil and warm freshwater, where they feed on bacteria. Although infections with *N. fowleri* are extremely rare, the disease it causes is very severe and almost always fatal. Because so few people get infected, doctors have not been able to conduct clinical trials to find out which treatment works best. This review will cover the key information about *N. fowleri*, including its spread in different regions (epidemiology), its life cycle, how it enters the body, what causes the disease, how it damages the body, how it is diagnosed, the medicines used for treatment, and ways to prevent infection.

Keywords: *Naegleria fowleri* ,Primary Ameobic maningoncephalitis, Brain Eating Ameaba, Olfactoryneuroepitheliun, Trophozoites, Amphotericin B

