

Necrotizing fasciitis (NF), also known as flesh-eating disease, is an infection that results in the death of parts of the body's soft tissue. It is a severe disease of sudden onset that spreads rapidly. Symptoms usually include red or purple skin in the affected area, severe pain, fever, and vomiting. The most commonly affected areas are the limbs and perineum. Typically, the infection enters the body through a break in the skin such as a cut or burn. Risk factors include poor immune function such as from diabetes or cancer, obesity, alcoholism, intravenous drug use, and peripheral artery disease. It is not typically spread between people. The disease is classified into four types, depending on the infecting organism. Between 55 and 80% of cases involve more than one type of bacteria. Methicillin-resistant *Staphylococcus aureus* (MRSA) is involved in up to a third of cases. Medical imaging is often helpful to confirm the diagnosis. Necrotizing fasciitis may be prevented with proper wound care and handwashing. It is usually treated with surgery to remove the infected tissue, and intravenous antibiotics. Often, a combination of antibiotics is used, such as penicillin G, clindamycin, vancomycin, and gentamicin. Delays in surgery are associated with a much higher risk of death. Despite high-quality treatment, the risk of death is between 25 and 35%. Necrotizing fasciitis occurs in about 0.4 people per 100,000 per year in the US, and about 1 per 100,000 in Western Europe. Both sexes are affected equally. It becomes more common among older people and is rare in children. It has been described at least since the time of Hippocrates. The term "necrotizing fasciitis" first came into use in 1952.¹

In the present book, fifteen typical literatures about Necrotizing fasciitis (NF) published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Necrotizing fasciitis (NF). We hope this book can demonstrate advances in Necrotizing fasciitis (NF) as well as give references to the researchers, students and other related people.

¹ https://en.wikipedia.org/wiki/Necrotizing_fasciitis