EDITORIAL

An editorial note on oral thrush

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Citation: Priyadarshini VS, An editorial note on oral thrush. J Exp Clin Microbiol 2021;5(3):1-1.

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ungus are eukaryotic organisms that can take the form of yeasts (round Fungi), molds (filamentous fungi), or a combination of the two (dimorphic fungi). Oral candidiasis is a frequent fungus infection that affects the mouth's mucosa. Candida albicans is the yeast that causes these sores. Candida albicans is a component of normal oral microbiota, and it is carried by 30 to 50% of the population. The rate of carriage rises with the patient's age. Candida albicans is collected from the mouths of 60% of dentate patients over the age of sixty. Candida species exists in a variety of shapes and sizes. Candida is a fungus that was initially isolated from a tuberculosis patient's sputum in 1844. They are non-photosynthetic eukaryotic creatures with a cell wall that is exterior to the plasma membrane, like other fungus. Within the nuclear membrane, there is a nuclear pore complex. Substantial amounts of sterols, mostly ergosterol, are found in the plasma membrane. The macroscopic and microscopic culture properties of the various candida species are similar, with a few differences. They can metabolize glucose in both aerobic and anaerobic environments. Temperature regulates their growth, with higher temperatures in their possible host, such as 37°C, encouraging pseudo hyphae growth. They have been separated from animals and the environment. For their growth, they require fixed carbon sources in the environment. With hyphae and mycelium, filamentous growth, and apical extension of the filament, as well as the creation of lateral branches, are observed, while yeasts relate to single cell division.

Infection with *Candida albicans* has been linked to several pathogenic factors in several investigations. Certain fungal cell wall components, such as mannose, C3d receptors, mannoprotein, and saccharin's, increase *candida* adhesion to epithelial cell walls, a crucial step in infection initiation. Germ tube creation, mycelia, persistence within epithelial cells, endotoxins, tumor necrosis factor activation, and proteinases are among the other components implicated. Phenotypic flipping, or the ability of specific C. *albicans* strains to transition between different morphologic phenotypes, has also been linked to the disease. A white coating covers your mouth and throat, indicating oral thrush. Using a tongue depressor to scrape it off reveals irritated red spots that typically bleed slightly. People with oral thrush will experience a persistent cottony feeling in their mouth, even if they practice good dental hygiene. They may experience discomfort or a burning feeling on their tongue, as well as a change in their perception of taste. It can be difficult to eat and drink because of this. Oral thrush that is severe might make it difficult to swallow or speak.

Oral thrush can be exacerbated by dentures, diabetes, and some drugs (e.g., broad-spectrum antibiotics taken for several weeks at a time). When the body and immune system are compromised, infections are more prone to occur. This could occur because of HIV/AIDS, for example. Oral thrush can also affect elderly persons who need nursing care and are often feeble, eat and drink little, or are fed through a tube. Oral thrush rarely causes major health problems, but it can be extremely unpleasant. If the fungus spreads to your food pipe, it might make it difficult to swallow. Oral thrush patients may eat less and lose weight because of this, in addition to the regular symptoms. This is especially problematic if they are already weak due to another medical condition or therapy, or if they have additional issues such as nausea or a lack of appetite. Oral thrush can linger for months or even years if left untreated. In rare situations, fungi can infiltrate deeper layers of tissue, reaching the circulatory system and causing life-threatening blood poisoning if your immune system is compromised (sepsis).

Antimycotics can be used to treat oral thrush. Some of these drugs can be applied directly to the damaged mucous membranes in the mouth (topically). Other types are ingested. After that, they spread throughout your body (systemic treatment). Saliva transports lesser amounts of topically given medicine to the gastrointestinal tract (stomach and bowel). Some of the drug is absorbed and then circulated throughout the body. Antimycotics that are taken orally are likely to be less effective than those given topically. Temporary headaches, rashes, nausea, flatulence (wind), and diarrhea are all possible adverse effects. The antimycotic that is right for you is determined by factors including your overall health and how far the illness has gone. The drugs are normally taken for one to two weeks. You can also alter your diet to make mouth sores less painful, such as switching to soft meals, avoiding hot or alcoholic beverages, and substituting honey for sugar as a sweetener.

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Received: October 11, 2021, Accepted: October 16, 2021, Published: October 21, 2021



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