

Identification of *Aspergillus* Sp Fungi on Prayer Mats in the Tarbiyyahtish Shihhah Mosque, Ministry of Health Polytechnic of Bengkulu

Nurul Rahma Dianti¹, Sahidan^{1,*}, Tedy Febriyanto¹, Gani Asa Dudin¹, Eliana²

¹Department of Medical Laboratory Technology, Poltekkes Kemenkes Bengkulu, Bengkulu, Indonesia

²Department of Midwifery, Poltekkes Kemenkes Bengkulu, Bengkulu, Indonesia

Email address:

sahidan@poltekkesbengkulu.ac.id (Sahidan)

*Corresponding author

Abstract

Fungi are one of the eukaryotic microorganisms that can be found in various places, both outdoors such as on soil, plants and indoors and on the human body. Mold can grow on prayer mats because they generally have open ventilation and are frequently accessed so that various materials from outside can enter the mosque and become pollutants because prayer mats that are on the floor make it easier for fungal spore particles to stick to the surface of the prayer mat. Contact between humans and prayer mats infected with pathogenic fungi can increase the risk of fungal infections (mycosis). This study aims to identification of fungi in the Tarbiyyahtish Shihhah Mosque, Health Polytechnic, Ministry of Health, Bengkulu, needs to be carried out to see whether there are *Aspergillus* Sp fungi. The research sample was taken as many as 30 samples using a sampling technique using simple random sampling. Based on the results of research on samples of mosque prayer mats, it is known that of the 30 samples examined, 5 samples (16.6%) of mosque prayer rugs were found to be infected with *Aspergillus* Sp fungus and (83.4%) were not infected with *Aspergillus* Sp fungus with the result being the *Aspergillus* Sp species. positive, namely that there were 2 colonies of *Aspergillus Fumigatus*, 2 colonies of *Aspergillus Niger*, and 1 colony of *Aspergillus Flavus*. Some of the mosque prayer mats examined were infected with the fungus *Aspergillus* sp. Prayer mats and the surrounding environment need to be addressed with the factors that cause the growth of *Aspergillus* sp fungus by regularly maintaining the cleanliness of the mosque, especially personal and environmental cleanliness.

Keywords

Aspergillus sp, Prayer Mats, Mosque