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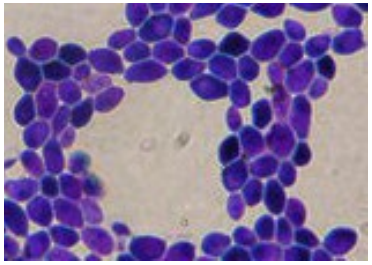
# Fungal spondylodiscitis in a patient recovered from H7N9 virus infection: a case study and a literature review of the differences between *Candida* and *Aspergillus* spondylodiscitis

**Key words:** Spondylodiscitis, Spinal infection, H7N9 virus, Avian influenza virus, *Candida*, *Aspergillus*, Fungi, Review

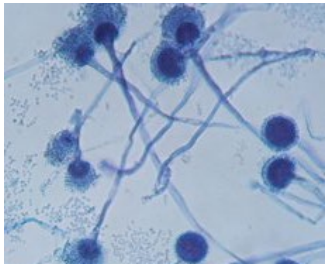
# *Research Summary*

**This paper reported the first case of fungal spondylodiscitis in a patient recovered from H7N9 virus infection, and then perform a literature review on the different characteristics between candida and aspergillus spondylodiscitis**



*Candida*

- **Different outcomes**
- **Different clinical features**
- **Different managements**



*Aspergillus*





# *Innovation points*

● **Emphasis of the reasons on why the outcome of patients with candida spondylodiscitis was better than patients with aspergillus spondylodiscitis.**

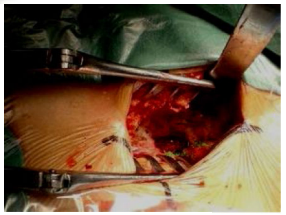
●Candida can be more likely to be found in blood cultures (47.8%) .



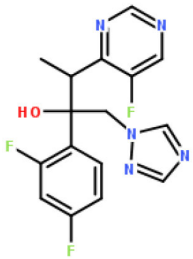
●Neurological deficits were observed more often in patients with aspergillus spondylodiscitis (43.6% vs 25.6%).



●Candida spinal infections were more often treated by radical debridement (60.5% vs 39.6%).



●Azoles were more likely to be used by patients with candida spondylodiscitis.

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# *Innovation points*

**A series of comprehensive tables were generated to summarize the difference regarding clinical features, treatment strategy, surgical options, and consequences.**

**Table 1｜ Characteristics of patients with aspergillus and candida spinal infections**

**Table 2｜ Number of patients with candida and aspergillus spondylodiscitis receiving conservative or operative treatment**

**Table 3｜ Surgical options for candida and aspergillus spondylodiscitis**

**Table 4｜ Drug selections after operations**

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