

# *Aspergillus fumigatus* isolate surveillance

Azole resistance in *Aspergillus fumigatus* is an increasing problem throughout the world. Resistant isolates have been identified in Europe, the Middle East, Asia, Africa, South America, and recently in the US. A recently published manuscript (Wiederhold, 2016 J. Clin. Microbiol. 54:168-171) has identified an isolate in the US with the same resistance mechanism that is being detected all over the world (called TR34 L98H). Most US hospitals do not perform mold susceptibility testing, so the amount of azole resistance in *Aspergillus* in the US is not known. In order to determine the extent of azole resistance, the Centers for Disease Control and Prevention is collecting human clinical isolates of *A. fumigatus* from US hospitals and laboratories.

We are interested in collecting all *A. fumigatus* isolates from clinical labs regardless of whether or not they are a cause of infection. We will test these isolates for resistance to the medical triazoles such as itraconazole and voriconazole. Isolates found to have high MICs will then be screened for specific mutations linked with resistance.

To determine the US prevalence of *A. fumigatus* azole resistance, we are requesting submission of any new isolates (collected in 2015 or later) of *A. fumigatus*. We are not collecting patient information.

Isolates can be sent to this address:

**Dr. Shawn Lockhart**  
**Centers for Disease Control and Prevention**  
**Attn: *Aspergillus fumigatus* azole study**  
**DASH Unit 40**  
**Bldg 17 Rm 2124**  
**1600 Clifton Rd NE**  
**Atlanta, GA 30333**

If you have questions about this project, please email [aspergillus@cdc.gov](mailto:aspergillus@cdc.gov).

Please detach and include the following slip with each isolate or provide a spreadsheet with similar data:

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Sender name: \_\_\_\_\_ Sender contact email: \_\_\_\_\_

Isolation date (MM/DD/YY): \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Isolation source (tissue, blood, CSF, BAL, fomite, other): \_\_\_\_\_

Source city: \_\_\_\_\_

Source state: \_\_\_\_\_

Unique identifier for notification of a resistant isolate: \_\_\_\_\_

Determination of disease (if known) Please check one:

Proven \_\_\_\_\_ Probable \_\_\_\_\_ Contaminant \_\_\_\_\_ Don't know \_\_\_\_\_