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

_____________________________________________________________________________

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_______