

*Aspergillus fumigatus-*

I G

T E

C c a a (CPA) a c a  
 b a c a a a c ca  
 a a .<sup>1</sup>F a CPA,  
 a 4-6 a a a c -  
 a ,<sup>2</sup> vC , a a a  
 CPA . T a  
 a a a b . I c  
 a a vC . Ra ca - a b  
 avCab a avC a CPA.<sup>2,3</sup>  
 H vC , a ca c a a c  
 a a vC c a vC b vC  
 a c a (CT) ca . Q a a-  
 vC ca A , , I G a a b a a  
 a a a a c  
 , b a vC a a  
 .<sup>4</sup>R a c a a b  
 ca c cc a , a ca b a  
 ca a c .  
 I c ca ac c , a  
 a c c a A , , I G vC a a a  
 a , a a avC a a -  
 a . H , a ca a a a ca  
 a b c b .  
 A 63- a- C a . T a  
 c c a c 8  
 . T a ' a ca a a  
 b c . C CT ca vC a vC a a  
 cuC a acuC a a , c a  
 c . Ga ac a a (GM) a a  
 ( vC : ≥ 0.5 a ≥ 0.8 b c avC a  
 uCa (BALF); B -Ra , F a c ) a avC b  
 (0.45) a BALF (0.66). T A , ,  
 , , (A. , , )- c c I G ( vC : ≥ 60 AU/  
 L; a : 50-60 AU/ L; avC : < 50 AU/ L;  
 D a , T a , C a) vC (74.23 AU/ L).  
 P c a b a c c  
 a a a a . T a a b  
 a a c c cuC a a a a  
 c b avC c a .



c vC acc a , a a , c ba a vC a a c a c  
 a a c a vC. T c  
 ca a A. , , , - c c I G  
 c b a b a a  
 c c a c CPA.

**ACKNO LEDGMEN**

T a b a a c a  
 Na a Sc c F a Z a P vC c  
 (LY16H190004), a F a H a D a -  
 Z a P vC c (2015RCA009, 2016KYA075,  
 a 2016ZDA005).

**CONFLIC OF IN ERE**

N a a c a c c  
 N a c c b  
 a c , a a c a vC b a  
 a b ca .



**A HOR CON RIB ION**



, : Ya  
 Z , Ya  
 C : Ya , L  
 C y : Y  
 C , : S ,  
 Z

**E HIC**

T c a a vC b T I a  
 RvC B a C ca R a c F A a  
 H a, Sc M c , Z a U vC . A  
 acc a c a vC  
 a a a c a

**ORCID**

 :// c . /0000-0003-4445-4357  
 J y  :// c . /0000-0002-8924-935X

Ya Ya <sup>1†</sup>, H a Z <sup>1†</sup>, Q Ya <sup>2</sup>, G a L <sup>1</sup>,  
 Y Y <sup>3</sup>, Y S <sup>1</sup> , Ja Z <sup>1</sup>   
<sup>1</sup>D y, F, A, H, ,  
 y, y, H , , 310003, C  
<sup>2</sup> K y L D , , I, , D, ,  
 C y I y C D , , I, ,  
 D, , F, A, H, C ,  
 y, y, H , , C  
<sup>3</sup>D I, , D, , H,  
 , y, y, H , , 310016, C  
 , , y , w

**REFERENCE**

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 b c a a a a a c ca  
 c c a a a . y . 2013;51  
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 a a : a a a c ca a -  
 a a a . *E J*. 2016;47(1):45–68.  
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 c c a a : a cvC c a.  
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 [4] Pa ID, R c a M, D DW. A b a -  
 - vCa ? y . 2015;53(5):417–439.  
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 A - c c I G a a a c c -  
 a a (CPA). *J I*. 2016;72(2):240–249.