Table S1: Profile of the experts participating in the International Society for Human and Animal Mycology (ISHAM) allergic bronchopulmonary aspergillosis (ABPA) working group (n=39)

Variables	Results
Age, years (range)	34-73
Sex	
Men	33 (84.6)
Women	6 (15.4)
Country	0 (10.1)
India	19 (48.7)
United Kingdom	6 (15.4)
Germany	3 (7.7)
France	2 (5.1)
Australia	1 (2.6)
Austria	1 (2.6)
Brazil	1 (2.6)
Canada	1 (2.6)
Japan	1 (2.6)
Netherlands	1 (2.6)
Singapore	1 (2.6)
Uganda	1 (2.6)
United States	1 (2.6)
Specialty	1 (2.0)
Adult Pulmonary Medicine	19 (48.7)
Infectious Disease	9 (23.1)
Microbiology	5 (23.1) 5 (12.8)
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Allergy-Immunology Pediatric Pulmonology	2 (5.1)
••	2 (5.1)
Radiodiagnosis	1 (2.6)
Community Medicine/Public Health  Affiliation	1 (2.6)
	22 (05)
University or teaching hospital	33 (85)
Private practitioner	4 (10)
Laboratory practice	2 (5)
Clinical experience in managing ABPA, years	0 (7.7)
1-5	3 (7.7)
6-10	5 (12.8)
11-15	9 (23.1)
>15	19 (48.7)
Not applicable	3 (7.7)
Experience in managing cystic fibrosis-ABPA	20 (51.3)
Number of asthma patients managed per month	
<10	6 (15.4)
10 to 50	14 (35.9)
51 to 100	6 (15.4)
>100	7 (17.9)
Not applicable	6 (15.4)
Number of ABPA patients managed per month	
1 to 5	12 (30.8)
6 to 10	12 (30.8)
11 to 20	5 (12.8)
21 to 50	3 (7.7)
>50	1 (2.6)
None/Not applicable	6 (15.4)
All values are presented as numbers (percentage) upless	

All values are presented as numbers (percentage) unless otherwise specified

Table S2: Questions discussed in the Delphi process and the scores obtained (for the statements not achieving consensus in rounds 1 and 2, we used the level of consensus achieved during the final round)

		Round 1	Round 2	Round 3
FUNGAL SENSITIZATION				
Which fungi do you suggest	Aspergillus fumigatus	37/39 (94.9%)	-	-
screening for fungal sensitization?	A. flavus	24/39 (61.5%)	24/39 (61.5%)	
(Choose all that you regard as	Candida albicans	15/39 (38.5%)	24/39 (61.5%)	
routine)	Alternaria spp.	24/39 (61.5%)	24/39 (61.5%)	
•	Cladosporium spp.	24/39 (61.5%)	15/39 (38.5%)	
	Trichophyton spp.	13/39 (33.3%)	13/39 (33.3%)	
	Other (please list)	5/39 (12.8%)	5/39 (12.8%)	
2. In which of the following situations	1. All newly referred or newly diagnosed	18/39 (46.2%)	25/35 (71.4%)	
would you suggest screening for	adult asthmatics	,	( )	
fungal sensitization?	2. All newly referred or newly diagnosed	12/39 (30.8%)	10/37 (27%)	
3	children (aged >5 years) with asthma	(,	( ),	
	3. All children with asthma referred to or	22/39 (56.4%)	27/37 (73%)	
	managed at tertiary care		,.,	
	3. Uncontrolled asthma	35/39 (89.7%)	-	
	Difficult to treat asthma	36/39 (92.3%)	-	
	5. Severe asthma	36/39 (92.3%)	-	
	6. Peripheral eosinophilia	26/39 (66.7%)	-	
	7. Any other	4/39 (10.3%)	-	
3. Which method do you prefer for	Fungal-specific IgE	26/34 (76.5%)	-	
documenting fungal sensitization?	Skin prick test	1/34 (2.9%)	-	
doddffdffillig fallgal ooriolii2alloff.	Both	11/34 (32.3%)	-	
4. In which of the following situations	All asthmatic adults managed or	20/39 (51.2%)	25/35 (71.4%)	
would you suggest evaluating	diagnosed at primary or secondary care	20/00 (01.270)	20/00 (71.470)	
adults for ABPA? (Choose all that is	2. All adults with asthma referred to or	23/39 (59%)	23/35 (65.7%)	
appropriate)	managed at tertiary care	23/33 (33/0)	25/55 (05.1 /0)	
αρριομιαίο)	3. Uncontrolled asthma	34/39 (87.2%)	_	
	Difficult to treat asthma	36/39 (92.3%)	_	
	5. Severe asthma	36/39 (92.3%)	_	
	6. Peripheral eosinophilia	27/39 (69.2%)	_	
	7. Others	6/39 (15.4%)	_	
5. In which of the following situations		, ,	-	
5. In which of the following situations	1. All asthmatic children (aged >5 years)	4/39 (10.3%)	-	
would you suggest evaluating	managed or diagnosed at diagnosed			

children for ABPA? (Choose all that	primary or secondary care	17/00 (10 00)	07/07 (700)
is appropriate)	2. All children with asthma (aged >5	17/39 (43.6%)	27/37 (73%)
	years) referred to or managed at tertiary	00/00 (70 00/)	
	care	30/39 (76.9%)	-
	Uncontrolled asthma	31/39 (79.5%)	-
	4. Difficult to treat asthma	22/39 (56.4%)	20/37 (54.1%)
	5. Severe asthma	6/39 (15.4%)	-
	6. Peripheral eosinophilia		
6. Which method do you prefer for	A. fumigatus specific IgE	37/39 (94.9%)	-
screening asthmatic patients for	Aspergillus skin test	0	-
ABPA? (Please choose one)	Serum total IgE	8/39 (20.5%)	-
	A. fumigatus-specific IgG	2/39 (5.2%)	-
	Aspergillus precipitins	1/39 (2.6%)	-
	Peripheral blood eosinophil count	0	-
	Sputum for Aspergillus culture	0	-
	Chest radiograph	0	-
	CT chest	1/39 (2.6%)	-
	Any other test (please specify)	1/39 (2.6%)	-
7. Would you recommend evaluating/	Yes, alternate years.	5/36 (13.9%)	8/37 (21.6%) -
screening all complex/difficult/brittle	Yes, annually.	13/36 (36.1%)	12/37 (32.4%)
asthmatic adults for ABPA	Only if there is a significant deterioration in	18/36 (50.0%)	17/37 (45.9%)
periodically?	asthma control		
8. INVESTIGATIONS FOR ABPA			
Aspergillus skin test	Yes	22/39 (56.4%)	22/39 (56.4%)
Aspergillus precipitins	Yes	15/39 (38.5%)	13/39 (33.3%)
Serum total IgE, IU/ml	Yes	35/39 (89.7%)	-
A.fumigatus-specific IgE, kUA/L	Yes	37/39 (94.9%)	-
A.fumigatus-specific IgG, mgA/L	Yes	32/39 (82.1%)	-
Blood eosinophil count, cells/µL	Yes	34/39 (87.2%)	-
Sputum fungal cultures	Yes	23/39 (59.0%)	24/39 (61.5%)
Serum galactomannan	No	36/39 (92.3%)	-
IgE against recombinant <i>Asperaillus</i>			
IgE against recombinant <i>Aspergillus</i> antigens			
antigens	Yes	15/39 (38.5%)	16/39 (41%)
	Yes Yes	15/39 (38.5%) 16/39 (41%)	16/39 (41%) 16/39 (41%)

f4	Yes	13/39 (33.3%)	13/39 (33.3%)
f6	Yes	10/39 (25.6%)	-
Aspergillus PCR in sputum	Yes	3/39 (7.7%)	-
9. Cut-off values		, ,	
A.fumigatus-specific IgE (kUA/L)			
0.1	Yes	1/38 (2.6%)	
0.35	Yes	34/38 (89.5%)	-
0.5	Yes	1/38 (2.6%)	
Other cut-offs	Yes	2/38 (5.3%)	
Serum total IgE (IU/mL)		,	
417	Yes	2/38 (5.3%)	2/38 (5.3%)
500	Yes	23/38 (60.5%)	22/38 (57.9%)
1000	Yes	12/38 (31.6%)	13/38 (34.2%)
A.fumigatus-specific IgG (mgA/L)		· ·	· · · ·
27	Yes	16/35 (45.7%)	16/35 (45.7%)
40	Yes	10/35 (28.6%)	11/35 (31.4%)
60	Yes	2/35 (5.7%)	2/35 (5.7%)
Other cut-offs	Yes	7/35 (20.0%)	6/35 (17.1%)
Peripheral blood eosinophil count		· ·	
(cells/μL)			
300	Yes	5/37 (13.5%)	
500	Yes	27/37 (73.0%)	-
1000	Yes	5/37 (13.5%)	
Imaging		,	
Chest radiograph	Yes	24/39 (61.5%)	-
CT chest	Yes	36/39 (92.3%)	-
MRI thorax	Yes	0 ` ′	-
10. Bronchoscopy for ABPA			
Do you recommend performing	No	31/36 (86.1%)	-
bronchoscopy in ABPA patients for		,	
diagnosis?			
Do you perform bronchoscopy in the	Yes, sometimes	30/35 (85.7%)	-
evaluation/management of ABPA		,	
patients?			
If the ABPA / asthma diagnosis is	Yes	19/37 (51.3%)	
uncertain.		, ,	

If radiology is consistent with TB, to rule out TB, before corticosteroids are given.	Yes	22/37 (59.5%)		
To collect samples for fungal culture, microscopy, and Aspergillus antigen/PCR.	Yes	14/37 (37.8%)		
Only for therapeutic reasons, to	Yes	21/37 (56.8%)		
remove mucus plugs.	Yes	24/27 (64 00/)		
To investigate hemoptysis.	Yes	24/37 (64.9%)		
Others  11. DIAGNOSTIC CRITERIA		5/37 (13.5%)	04/00 (50 00/)	05/04/70 50/\
	Modifications suggested and discussed	19/39 (48.7%)	21/39 (53.8%)	25/34 (73.5%)
12. CLINICAL CLASSIFICATION 13. RADIOLOGICAL		20/34 (58.8%)	29/34 (85.3%)	-
CLASSIFICATION		18/34 (52.9%)	21/34 (61.8%)	30/34 (88.2%)
14. TREATMENT OF ABPA				
	No	20/25 (95.70/)	_	
Do you suggest treating asymptomatic or well-controlled asthmatics with	INO	30/35 (85.7%)	-	-
ABPA using systemic medications				
(oral glucocorticoids or triazoles)?				
What first-line treatment do you	Prednisolone	25/32 (78.1%)		
suggest for managing new cases of	Itraconazole	19/32 (59.4%)	24/35 (68.6%)	25/34 (73.5%)
ABPA?	Voriconazole	7/32 (21.9%)	24/33 (00.070)	25/54 (75.570)
אטו א:	Posaconazole	1/32 (21.9%)		
	Isavuconazole	1/32 (3.1%)		
	Prednisolone-itraconazole combination	9/32 (28.1%)		
	Prednisolone-voriconazole combination	1/32 (3.1%)		
	Nebulized amphotericin	1/32 (3.1%)		
	Biologics (anti-IgE, anti-type 2)	1/32 (3.1%)		
	High-dose ICS	0		
What treatment do you suggest in	Itraconazole	33/39 (84.6%)	_	-
those with contraindications to	Voriconazole	22/39 (56.4%)		
glucocorticoids?	Posaconazole	9/39 (23.1%)		
g	Isavuconazole	4/39 (10.3%)		
	Nebulized amphotericin	7/39 (17.9%)		
	Biologics (anti-IgE, anti-type 2)	17/39 (43.6%)		
What treatment do you suggest in	Prednisolone	28/39 (71.8%)	_	-

those with contraindications to azoles?	Nebulized amphotericin	18/39 (46.2%)		
	Biologics (anti-lgE, anti-type 2)	18/39 (46.2%)		
What treatment do you suggest for	Prednisolone	27/37 (73%)	-	-
managing ABPA during pregnancy?	Itraconazole	0		
	Voriconazole	0		
	Posaconazole	0		
	Isavuconazole	0		
	Prednisolone-itraconazole combination	1 (2.7%)		
	Prednisolone-voriconazole combination	0		
	Nebulized amphotericin	8/37 (21.6%)		
	Biologics (anti-IgE, anti-type 2)	5/37 (13.5%)		
What dosing protocol would you recommend for glucocorticoids in treating ABPA?				
Oral prednisolone: 0.5 mg/kg/d, 0.25 mg/kg/d, 0.125 mg/kg/d, each, for 4 weeks; then taper by 5 mg/week to complete four months.	Yes	19/34 (55.9%)	21/35 (60.0%)	25/35 (71.4%)
Oral prednisolone 0.5 mg/kg/day for two weeks followed by 0.5 mg/kg/day for alternate days for eight weeks. Then taper by 5 mg every two weeks and discontinue over 3-5 months.	Yes	10/34 (29.4%)	14/35 (40.0%)	10/35 (28.6%)
Any other protocol	Yes	5/34 (14.7%)	-	-
What should be the dosing protocol for azoles in treating ABPA?				
Itraconazole (or Voriconazole) 200 mg bid for 4 months	Yes	29/34 (85.3%)	-	-
Do you suggest therapeutic drug monitoring while using antifungal azoles?	Yes	32/35 (91.4%)	-	-
When to assess treatment response?	4 weeks	5/35 (14.3%)	8 (20.5%)	
•	6 weeks	9/35 (25.7%)	8 (20.5%)	
	8 weeks	9/35 (25.7%)	16 (41.0%)	
	12 weeks	12/35 (34.3%)	5 (12.8%)	

6 (33.3%) 10/35 (2 6 (91.7%) - - 6 (36.4%) 12/35 (3 6 (69.4%) - 6 (61.1%) 25/35 (3 - (10.8%) - (10.8%) - 5 (71.4%) - 5 (34.3%) (20.0%)	- - - 34.2%) 9/34 (26.4%
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practice?	Yes	28/34 (82.4%)	-
Omalizumab	Yes	25/30 (83.3%)	26/33 (78.8%)
Mepolizumab	Yes	19/30 (63.3%)	14/31 (45.2%)
Benralizumab	Yes	18/30 (60.0%)	17/32 (53.1%)
Dupilumab	Yes	16/30 (53.3%)	15/29 (51.7%)
Tezepelumab	Yes	7/30 (23.3%)	6/27 (22.2%)
If yes, please suggest the indications		,	
for biologics:			
New ABPA cases	Yes	1/32 (3.1%)	-
ABPA exacerbations	Yes	5/32 (15.6%)	
For treatment dependent ABPA as	Yes	23/32 (71.9%)	
maintenance therapy after		,	
response			
Contraindications to oral	Yes	26/32 (81.2%)	
glucocorticoids		( ,	
Contraindications to oral azoles	Yes	23/32 (71.9%)	
Intolerance to oral azoles	Yes	24/32 (75.0%)	
Do you suggest using nebulized	Yes	18/33 (54.5%)	15/35 (42.9%)
amphotericin B (NAB) for ABPA?		,	,
Where do you suggest using NAB?			
New ABPA cases	Yes	0	
ABPA exacerbations	Yes	1/27 (3.7%)	-
Treatment-dependent ABPA as	Yes	10/27 (37.0%)	
maintenance therapy after		(3 2 2 2 7)	
response			
Contraindications to oral			
glucocorticoids	Yes	7/27 (25.9%)	
Contraindications to oral azoles		( = = = ,	
Intolerance to oral azoles	Yes	16/27 (59.3%)	
	Yes	16/27 (59.3%)	
Would you recommend routinely	No	26/34 (76.4%)	
treating all patients of serologic ABPA	-	==: ( : :: : : )	
(ABPA without bronchiectasis) with			
systemic medications (oral			
glucocorticoids or triazoles)?			
If yes, when	Severe asthma	27/34 (79.4%)	
, 55,	Recurrent ABPA exacerbations	29/34 (85.3%)	
	1.00diTolit/IDI/1.0/doorbationo	20,01 (00.070)	

	Any other			
Management options for treatment	Long term itraconazole	-	-	31/31 (100%)
dependent ABPA	Biologics		22/31 (71%)	
	Nebulized amphotericin B			31/31 (100%)

All values are presented as numbers (percentage) unless otherwise specified. 

<sup>a</sup>Multiple options allowed in the first round of Delphi

Table S3: Detailed imaging acquisition protocol for chest computed tomography (CT)

Parameters	CT chest
Scanning mode	Helical
Patient position	Supine, in deep suspended inspiration
Scan area	The whole chest (from apices to domes of the diaphragm)
Scan acquisition	Volumetric, non-contrast
Tube potential (kVp)	Appropriate to patient size; 120 (standard) and lower tube potential for small, thin, or pediatric patients
Tube current (mA)	<200, AEC modulated mA is preferred over fixed mA
Collimation	Thinnest possible (e.g., 0.6 mm)
Slice thickness, millimeter	0.625-1.5
Scan (rotation) time, seconds	Shortest possible (<0.5s)
Pitch	0.75-1.5
Matrix	512 x 512
Reconstruction technique	IR blended with FBP (when available), else FBP
Reconstruction algorithm/kernel/filter	High spatial resolution (also called sharp/bone) algorithm
Window level/width	Lung window: -600 to -700 HU/1000-1500 HU; mediastinal window: 50/350 HU
Post Processing	MPR, MIP, minIP or VRT
Effective Radiation Dose	3-7 mSv

The acquired CT images are then reconstructed in the soft tissue window (20-30 kernel) and lung window (sharp/bone or high-spatial frequency algorithm, 60-80 kernel) with 0.625-1.25 mm slice thickness. The 60-80 kernel reconstruction becomes the high-resolution CT, without a need for separate non-sequential high-resolution CT scan, as was previously done. The post-processing of the acquired volumetric CT data can be performed on various workstations.

AEC = Automated exposure control, IR = Iterative reconstruction, FBP = filtered back projection, MPR = multiplanar reconstruction, MIP = maximum intensity projection, minIP = minimum intensity projection, VRT = volume rendered technique

Figure S1: Use of sputum eosinophil counts to choose drug therapy in allergic bronchopulmonary aspergillosis (ABPA) patients with exacerbation of respiratory symptoms

