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Subcommittee on Antifungal Susceptibility Tests Grand Hyatt Tampa Bay, Tampa, Florida 12 January 2013

Summary Minutes

A meeting of the Clinical and Laboratory Standards Institute Subcommittee (SC) on Antifungal Susceptibility Tests was held on Saturday, 12 January 2013 in Tampa, Florida. Those in attendance are listed below.

Mahmoud A. Ghannoum, MSc, PhD,	EMBA
Chairholder	

Case Western Reserve University

Barbara D. Alexander, MD, MHS Vice Chairholder **Duke University Medical Center**

Members Present

William B. Brasso Sharon K. Cullen, BS, RAC Ana Espinel-Ingroff, PhD Annette W. Fothergill, MA, MBA, MT(ASCP) Shawn R. Lockhart, PhD, D(ABMM) Jacques F. Meis, MD, PhD David S. Perlin, PhD Neil S. Ryder, PhD Nancy L. Wengenack, PhD, D(ABMM), FIDSA Peter R. Williamson, MD, PhD

Members Absent (with notice)

Michael A. Pfaller, MD

Advisors

Maiken Cavling Arendrup, MD, PhD Lynette Y. Berkely, PhD Steven D. Brown, PhD, ABMM Mariana Castanheira, PhD Kimberly E. Hanson, MD Cynthia C. Knapp, MS Michael LaFleur, PhD Cynthia L. Fowler, MD Mary R. Motyl, PhD, D(ABMM) Gary W. Procop, MD John H. Rex, MD, FACP Ribhi M. Shawar, PhD, D(ABMM) Kenneth Van Horn, PhD, D(ABMM) BD Diagnostic Systems Siemens Healthcare Diagnostics Inc. VCU Medical Center University of Texas Health Science Center Centers for Disease Control and Prevention Canisius Wilhelmina Hospital New Jersey Medical School-UMDNJ Consultant Mayo Clinic National Institutes of Health

University of Iowa College of Medicine

Statens Serum Institut FDA CDER The Clinical Microbiology Institute JMI Laboratories University of Utah and ARUP Laboratories Thermo Fisher Scientific Arietis MFHSC Merck Sharp & Dohme Corp. Cleveland Clinic AstraZeneca Pharmaceuticals FDA Ctr. Devices/Rad. Health Focus Diagnostics



Thomas J. Walsh, MD

Reviewers

Vishnu Chaturvedi, PhD Philippe Dufresne, PhD Jeff Fuller, PHD, FCCM, ABMM Beth P. Goldstein, PhD Patricia Hogan, MT(ASCP), MBA Scott B. Killian Laura Kovanda Linda M. Mann, PhD, D(ABMM) Maureen Mansfield Stephen A. Moser, PhD Maria M. Traczewski, BS, MT(ASCP) John Turnidge

Guests

Carey-Ann Burnham Kathy Burtner Jenifer Dawson Driscoll Gina Ewald-Saldana Sheila Farnham Elaine Goldwater Nilia M. Robels Hernandez Romney M. Humphries, PhD, D(ABMM) Åsa Karlsson Roberta Knefel Jennifer Lorber Ian Morrissey Sumathi Nambiae Elizabeth Palavechino, MD Jonathan Schmitz Katherine Sei Sharon Shinn Jennifer Smart Kerry Snow Phillip B. Sonke Will Stubbings Debora Sweeney Michael Sweeney Peter Warn Collette Wehr Nathan Wiederhold **Rob Williams** Teresa Wong

Weill Cornell Medical Center of Cornell University

New York State Department of Health Institut National de Santé Publique Alberta Health Services Beth Goldstein Consultant Pfizer Inc. Thermo Fisher Scientific Astellas Pharma Siemens Healthcare Diagnostics Inc. Thermo Fisher Scientific University of Alabama, Birmingham The Clinical Microbiology Institute SA Pathology

Washington University School of Medicine Siemens Healthcare Diagnostics Siemens Healthcare Diagnostics Siemens Healthcare Diagnostics bioMérieux, Inc. Merck bioMérieux. Inc. UCLA David Geffen School of Medicine bioMérieux SA bioMérieux, Inc. Thermo Fisher Scientific IHMA Europe Sárl FDA Wake Forest Baptist Medical Center Vanderbilt Universit Medical Center Siemens Healthcare Diagnostics Siemens Healthcare Diagnostics Astellas Pharma FDA Merck, Sharp & Dohme Inc. **Basilea** Pharmaceutica Micromyx Pfizer Animal Health Euprotek Siemens Healthcare Diagnostics UT Health Science Center Siemens Healthcare Diagnostics Siemens Healthcare Diagnostics



CLSI Staff Present

Tracy A. Dooley, BS, MLT(ASCP) Marcy L. Hackenbrack, MCM, M(ASCP), BA

Meeting Materials Provided Prior to Meeting

- Epidemiologic Cut-off Value (ECV/ECOFF) workshop agenda
- Antifungal Subcommittee Meeting Agenda
- Internet link to copies of presentations, reference articles, draft documents, and other background material needed for review during meeting
- Information on marking up PDFs

Purpose of Webinar

The purpose of the meeting was to review and discuss ECV/ECOFF and QC data, address issues needing discussion by the subcommittee, and to review draft documents for revision.

Opening Remarks

Dr. Ghannoum opened the meeting at 10:00 am US Eastern time by welcoming the participants and expressing his gratitude for their hard work and attendance.

He reviewed the "rules of the road" including the introduction of new subcommittee voting members and advisors. It was noted that all voting members were present at the meeting except one; therefore, the 10 - 0 voting rules would apply for any votes taken during the meeting (pass = 10 - 0, 9 - 1, 8 - 2, and 7 - 3). He also reminded the participants to note any changes in disclosures.

Meeting Discussion

The main topics of discussion are list below (see table). **NOTE:** All presentations and data were distributed electronically prior to the meeting and are available for review on the Antifungal SC page on the CLSI website. Any revised presentations not distributed prior to the meeting are also available on the CLSI website.

Agenda Topic		Committee Discussion Points/Rational for Decisions Made and/or Path Forward	
1.	Agenda Item 1A: Document Review	 It was agreed that: M27 and M27S be revised. A working group has already been formed to create epidemiologic cut-off value (ECV) language for the documents (Dr. Pfaller, Dr. Turnidge, Ms. Cullen, Dr. Motyl, Dr. Espinel-Ingroff, Dr. Arendrup) M38 will be revised and a supplement created M44 and M44S will be revised M51-A will require review of the document and new QC data. Ms. Fothergill and Dr. Motyl volunteered to review the document and present recommendations at the next meeting (possible webinar in June). It was suggested that the supplements for each document could be combined to form two supplements for antifungal susceptibility information with one for yeasts and the other for moulds. The SC agreed to create one supplement for the yeasts (M27S and M44S) and one for utilize the information. These revisions will begin after the webinar to tentatively be held in June. 	
2.	Agenda Item 1G:	 A vote to approve the summary minutes of the Antifungal SC webinar held on 30 July 2013 was 	
	Summary Minutes	held and the minutes were approved $(10 - 0; 1 \text{ absent})$.	
3.	Agenda Item 2: An Intralaboratory Study for the Testing of Isavuconozole Against Aspergillus and Candida	 held and the minutes were approved (10 - 0; 1 absent). Dr. Ghannoum provided an overview of a study for testing isavuconozole against <i>Aspergill Candida</i>. A question regarding testing with only one lot of plates (it, same trays with 3 different media) was raised. Ms. Cullen reminded the participants of the CLSI M23 process for developing QC She indicated that studies have shown that the comparison from laboratory to laborator to-day testing, and data from tester to tester is more important than the test manufacturer. It was suggested that more Tier 3 data could be gathered over time and reviewed future. The method for calculating the percent agreement was also reviewed (eg, calculated the mode of the range selecting a 3 dilution range for those with a strong mode or a 4 or range for those with strong mode and shoulder). Dr. Rex suggested that Dr. Brown prepare a brief slide presentation explaining hor ranges are determined. This would be presented at the next meeting for all those vol that are new to the committee. Discussion – The study showed the following: There was excellent interlaboratory agreement of isavuvonazole MICs against <i>Aspewith >90%</i> agreement in all strains at 100% inhibition point; therefore, it is recomm reading at 100% inhibition endpoint. 	



		- A motion was made and seconded that the described method be used for testing Aspergillus -	
		Pass $(10 - 0; 1 \text{ absent})$	
		- A motion was made and seconded that the described method be used for testing Candida –	
		Pass $(10 - 0; 1 \text{ absent})$	
		• A question was raised regarding reading of <i>Candida</i> results at 24 and/or 48 hr.	
		- It was noted that some of the sites in the study reported only 24 hr data while others reported	
		both 24 and 48 hr data.	
		- It was noted that the 48 hr data meets the requirements for an M23 study but not the 24hr	
		data.	
		- It was agreed that another study will be performed to produce both 24 and 48 hrs data and a	
		laboratory to laboratory comparison will be generated.	
		- For the new study, a range lower than the one used in this study will be tested and QC will be	
		included in the study to determine if there is plast to plate variation.	
4.	Item 3 : An Interlaboratory Dr. Ghannoum provided an overview of a study for the identification of OC strains for t		
	Study for the Identification of	the Identification of isavuconazole against Aspergillus and Candida.	
• Discussion – The study showed the following:		• Discussion – The study showed the following:	
	Isavuconazole against	- QC strains for inclusion in the CLSI standards were based on MICs falling within the range	
	Aspergillus and Candida.	recorded for the majority of the clinical strains tested (Item 2) with >90% interlab agreement.	
		- The QC strains recommended for testing of isavuconazole (48 hr reads) against Aspergillus	
		are Paecilomyces variottii MYA 3630 at a range of 0.06 – 0.5 µg/ml and Aspergillus flavus	
		ATCC 204304 [®] at a range of $0.5 - 4 \mu \text{g/ml}$.	
		- The QC strains recommended for testing of isavuconazole (48 hr reads) against <i>Candida</i> are	
		Candida parapsilosis ATCC 22019 at a range of 0.015 – 0.12 µg/ml and Candida krusei	
		ATCC 6258 at a range of $0.06 - 0.5 \ \mu g/ml$.	
		• Vote	
		- A motion was made and seconded to accept <i>Paecilomyces variottii</i> MYA 3630 at a range of	
		$0.06 - 0.5 \ \mu g/ml$ and Aspergillus flavus ATCC 204304 [®] at a range of 0.5 - 4 $\mu g/ml$ for	
		testing of isavuconazole (48 hr reads) against Aspergillus. Pass (10 – 0; 1 absent)	
		- A motion was made and seconded to accept <i>Candida parapsilosis</i> ATCC 22019 at a range of	
		$0.015 - 0.12 \ \mu\text{g/ml}$ and <i>Candida krusei</i> ATCC 6258 at a range of $0.06 - 0.5 \ \mu\text{g/ml}$ for	
		testing of isavuconazole (48 hr reads) against Candida. It was noted that the same issue	
		regarding reading results at 24 and 48 hrs exists for the QC study (see Item 2). It was agreed	
		that a vote on the QC organisms for testing Candida will be revisited after data for 24 and 48	
		hrs is available.	
5.	Item 5: ECVs of Amphotericin	Dr. Espinel-Ingroff presented data	
	B, Caspofungin, Itraconazole,		
	Posaconazole, and		



	Voriconazole for Aspergillus		
	spp., Using the		
6.	Item 4: ECVs of CLSI M38	Dr. Espinel-Ingroff presented data for recommendation of proposed ECV/ECOFFs for four species of	
	Microdilution Method	Aspergillus and isavuconazole.	
	Isavuconazole for Aspergillus spp., Using the CLSI M38 Microdilution Method	 It was noted that a number of voting members expressed discomfort with approving the ECVs without a review of the raw data used to designate the ECVs. It was suggested that a vote on the ECVs be tabled until the subcommittee can review the raw data used to develop the recommended ECVs. – 	
7.		•	
8.		•	
9.		•	
10.		•	

Action Items – By 15 May 2013 (for next meeting/webinar to be determined)

	Specific Action Item Descriptions	Responsible Individual (NOTE: Include Date if different from above)
1.	Review M51-A and new QC data and provide input on	Ms. Fothergill
	need to revise the document.	
2.	Prepare a brief slide presentation on how MIC ranges are determined.	Dr. Brown
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Next Meeting Reminder:

The next meeting of the Antifungal Subcommittee

Adjournment

Respectfully submitted,

Marcy L. Hackenbrack, MCM, M(ASCP) Clinical and Laboratory Standards Institute