NATIONAL HEALTH LABORATORY SERVICE
QUALITY ASSURANCE

NHLS PROFICIENCY TESTING SCHEME
MYCOLOGY (YEASTS)

SURVEY QUESTIONNAIRE :
Return date: 28 Jan 2022
LABORATORY CODE:

SAMPLE	CLINICAL SCENARIO	CHALLENGE	ANSWER	ALLOCATED MARK
F04-21E (slide) Blood drawn through venous catheter	Child in ICU	Were yeasts observed microscopically? Stain the provided slide.	Yes ☐ No ☐	0 or 4
F04-21F (suspended culture) Blood	Breakthrough infection in a new born on fluconazole prophylaxis	What is the identification* of the organism? Provide genus and/or species name.	Only one answer code	0 or 1 or 3 or 4
		What method was used to identify the organism?	Any number of answer codes	Ungraded

GUIDE TO LEVEL OF IDENTIFICATION OF YEASTS*: Yeasts that are cultured from blood or normally-sterile sites should be identified to species level, if possible. If your laboratory cannot perform identification procedures beyond a germ-tube test, these isolates should be referred for identification to a reference laboratory.

Please return the completed survey questionnaire before the return deadline to **fax**: +27 (0) 11 386 6296/ (0) 86 246 8373 or **email**: mycopts@nhls.ac.za.

NHLS PROFICIENCY TESTING SCHEME
MYCOLOGY (YEASTS)

SURVEY QUESTIONNAIRE :
Return date: 28 Jan 2022
LABORATORY CODE:
Only for laboratories that routinely perform antifungal susceptibility testing:

SAMPLE	CLINICAL SCENARIO	CHALLENGE	ANSWER	ALLOCATED MARK
F04-21H (suspended culture) Blood	Breakthrough infection in a new born on fluconazole prophylaxis	What is the identification of the organism? Provide genus AND species name.	Only one answer code	0 or 4
		What method was used for antifungal susceptibility testing?	Write answer here	Ungraded
		Fluconazole	S: ☐ SDD: ☐ R: ☐ NT: ☐ NA: ☐	0 or 1 or 3 or 4
		Voriconazole	S: ☐ SDD: ☐ R: ☐ NT: ☐ NA: ☐	0 or 1 or 3 or 4
		Anidulafungin	S: ☐ I: ☐ R: ☐ NT: ☐ NA: ☐	0 or 1 or 3 or 4
		Micafungin	S: ☐ I: ☐ R: ☐ NT: ☐ NA: ☐	0 or 1 or 3 or 4

S: susceptible; I: intermediate; R: resistant; SDD: susceptible dose-dependent; NT: not tested; NA: not applicable, e.g. no breakpoints for this organism-agent combination

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ANSWER CODES

F04-21

	Identity of fungus		
01	*Candida* species, not otherwise specified	21	*Rhodotorula mucilaginosa*
02	*Candida* species, not *Candida albicans*	22	*Saccharomyces* species
03	*Candida albicans*	23	*Saccharomyces cerevisiae*
41	*Candida auris*	24	Yeast cultured, not otherwise specified
04	*Candida dubliniensis*	25	Yeast cultured, sent to reference laboratory for identification
05	*Candida famata*	26	*Candida* species, not *Candida albicans*, sent to reference laboratory for identification
06	*Candida glabrata*		**Identification method**
07	*Candida guilliermondii*	27	Niger seed agar – brown colonies
08	*Candida kefyr*	28	Colony colour and morphology on Sabouraud agar
09	*Candida krusei*	29	Chromogenic agar
10	*Candida lusitaniae*	30	Germ tube test positive
11	*Candida parapsilosis*	31	Germ tube test negative
12	*Candida tropicalis*	32	Urease positive
13	*Cryptococcus* species, not otherwise specified	33	API 20C
14	*Cryptococcus albidus*	34	API ID 32C
15	*Cryptococcus laurentii*	35	MicroScan
16	*Cryptococcus neoformans* species-complex	36	Vitek-2
17	*Cryptococcus* species, not *Cryptococcus neoformans*	37	Auxacolor
18	*Geotrichum* species	38	Molecular method (PCR, probe, sequencing)
19	*Malasezzia* species	39	Other commercial test system, not otherwise specified
20	*Rhodotorula species,* not otherwise pecified	40	MALDI-TOF mass spectrometry