

Supplementary files

Performances and Determinants of Proficiency Testing in Clinical Laboratory Services at Comprehensive Specialized Hospitals, Northwest Ethiopia

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Table S1: Distribution of laboratory performances for 30 analyte in nine cycles of proficiency testing program carried out during the years 2020 -2022, Northwest Ethiopia

Analytes	Status	2020						2021						2022						Commulative	
		Cycle1		Cycle2		Cycle 3		Cycle 1		Cycle 2		Cycle3		Cycle 1		Cycle 2		Cycle 3			
		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Glucose	ACC	5	33.3	5	33.3	10	66.6	13	86.6	13	86.6	6	40	15	100	13	86.6	14	93.3	94	69.9
	UNACC	10	66.6	10	66.6	5	33.3	2	13.3	2	13.3	9	60	0	0	2	13.3	1	6.7	41	30.3
GPT	ACC	5	33.3	15	100	15	100	9	60	8	53.3	3	20	15	100	14	93.3	15	100	99	73.3
	UNACC	10	66.6	0	0	0	0	6	40	7	46.6	12	80	0	0	1	6.6	0	0	36	26.6
GOT	ACC	5	33.3	15	100	15	100	15	100	14	93.3	8	53.3	15	100	15	100	15	100	117	86.6
	UNACC	10	66.6	0	0	0	0	0	0	1	6.6	7	46.6	0	0	0	0	0	0	18	13.3
Albumin	ACC	4	26.6	5	33.3	5	33.3	10	66.6	5	33.3	7	46.6	5	33.3	10	66.6	6	40	57	42.2
	UNACC	11	73.3	10	66.6	10	66.6	5	33.3	10	66.6	8	53.3	10	66.6	5	33.3	9	60	78	57.7
T.protien	ACC	9	60	0	0	9	60	5	33.3	14	93.3	10	66.6	14	93.3	5	33.3	7	46.6	73	54
	UNACC	6	40	15	100	6	40	10	66.6	1	6.6	5	33.3	1	6.6	10	66.6	8	53.3	62	45.9
ALP	ACC	14	93.3	11	73.3	15	100	15	100	14	93.3	15	100	12	80	14	93.3	14	93.3	124	91.8
	UNACC	1	6.6	4	26.7	0	0	0	0	1	6.7	0	0	3	20	1	6.7	1	6.7	11	8.2
Bil.T	ACC	6	40	4	26.7	0	0	15	100	5	33.3	10	66.7	6	40	5	33.3	10	66.7	61	45.1
	UNACC	9	60	11	73.3	15	100	0	0	10	66.7	5	33.3	9	60	10	66.7	5	33.3	74	54.9
Bil.D	ACC	4	26.7	2	13.3	5	33.3	14	93.3	1	6.7	9	60	5	33.3	4	26.7	5	33.3	49	36.2

	UNACC	11	73.3	13	86.7	10	66.7	1	6.7	14	93.3	6	40	10	66.7	11	73.3	10	66.7	86	63.8
urea	ACC	4	26.7	5	33.3	0	0	8	53.3	5	33.3	5	33.3	15	100	8	53.3	14	93.3	64	47.4
	UNACC	11	73.3	10	66.7	15	100	7	46.7	10	66.7	10	66.7	0	0	7 9	46.7	1	6.7	71	52.6
Creatine	ACC	9	60	7	46.7	10	66.7	9	60	13	86.7	11		15	100	10	66.7	14	93.3	98	72.6
	UNACC	6	40	8	53.3	5	33.3	6	40	2	13.3	4	26.7	0	0	5	33.3	1	6.7	37	27.4
Chol.T	ACC	5	33.3	5	33.3	8	53.3	7	46.7	9	60	12	80	7	46.7	10	66.7	9	60	72	53.3
	UNACC	10	66.7	10	66.7	7	46.7	8	53.3	6	40	3	20	8	53.3	5	33.3	6	40	63	46.7
Tg	ACC	13	86.7	9	60	14	93.3	8	53.3	10	66.7	10	66.7	15	100	10	66.7	10	66.7	89	65.9
	UNACC	2	13.3	6	40	1	6.7	7	46.7	5	33.3	5	33.3	0	0	5	33.3	5	33.3	46	34.1
C.morphology	ACC	5	33.3	10	66.7	0	0	7	46.7	0	0	7	46.7	6	40	8	53.3	0	0	43	31.9
	UNACC	10	66.7	5	33.3	15	100	8	53.3	15	100	8	53.3	9	60	7	46.7	15	100	92	68.1
WBC	ACC	15	100	14	93.3	10	66.7	13	86.7	5	33.3	10	66.7	13	86.7	15	100	15	100	100	74.0
	UNACC	0	0	1	6.7	5	33.3	2	13.3	10	66.7	5	33.3	2	13.3	0	0	0	0	35	26.0
RBC	ACC	15	100	10	66.7	10	66.7	14	93.3	5	33.3	10	66.7	14	93.3	15	100	15	100	108	80
	UNACC	0	0	5	33.3	5	33.3	1	6.7	10	66.7	5	33.3	1	6.7	0	0	0	0	27	20
HGB	ACC	15	100	10	66.7	10	66.7	15	100	5	33.3	10	66.7	14	93.3	15	100	15	100	109	80.7
	UNACC	0	0	5	33.3	5	33.3	0	0	10	66.7	5	33.3	1	6	0	0	0	0	26	19.3
HCT	ACC	13	86.7	6	40	9	60	13	86.7	4	26.7	9	60	13	86.7	14	93.3	13	86.7	94	69.6
	UNACC	2	13.3	9	60	6	40	2	13.3	11	73.3	6	40	2	13.3	1	6.7	2	13.3	41	30.4
PLT	ACC	15	100	14	93.3	10	66.7	15	100	5	33.3	10	66.7	15	100	15	100	15	100	114	82.3
	UNACC	0	0	1	6.7	5	33.3	0	0	10	66.7	5	33.3	0	0	0	0	0	0	21	19.7
MCV	ACC	15	100	9	60	10	66.7	15	100	4	26.7	10	66.7	15	100	15	100	15	100	108	80
	UNACC	0	0	6	40	5	33.3	0	0	11	73.3	5	33.3	0	0	0	0	0	0	21	20
MCH	ACC	15	100	14	93.3	10	66.7	15	100	5	33.3	10	66.7	15	100	15	100	15	100	114	82.3
	UNACC	0	0	1	6.7	5	33.3	0	0	10	66.7	5	33.3	0	0	0	0	0	0	21	19.7
MCHC	ACC	15	100	10	66.7	10	66.7	10	66.7	5	33.3	0	0	10	66.7	10	66.7	10	66.7	80	59.2
	UNACC	0	0	5	33.3	5	33.3	5	33.3	10	66.7	15	100	5	33.3	5	33.3	5	33.3	55	41.8
RDW	ACC	14	93.3	10	66.7	10	66.7	15	100	5	33.3	8	53.3	14	93.3	15	100	15	100	106	75.5
	UNACC	1	6.7	5	33.3	5	33.3	0	0	10	66.7	7	46.7	1	6.7	0	0	0	0	29	24.5
B.idfn	ACC	6	40	0	0	7	46.7	13	86.7	9	60	9	60	9	60	12	80	13	86.7	78	57.8

	UNACC	9	60	15	100	8	53.3	2	13.3	6	40	6	40	6	40	3	20	2	13.3	57	42.2
Gram stain	ACC	5	33.3	6	40	10	66.7	5	33.3	12	80	14	93.3	10	66.7	10	66.7	13	86.7	85	63.0
	UNACC	10	66.7	9	60	5	33.3	10	66.7	3	20	1	6.7	5	33.3	5	33.3	2	13.3	50	37.0
AFB stain	ACC	15	100	15	100	14	93.3	13	86.7	7	46.7	13	86.7	14	93.3	15	100	15	100	121	89.6
	UNACC	0	0	0	0	1	6.7	2	13.3	8	53.3	2	13.3	1	6.7	0	0	0	0	14	10.4
Culture	ACC	14	93.3	7	46.7	12	80	11	73.3	8	53.3	5	33.3	10	66.7	9	60	9	60	86	63.7
	UNACC	1	6.7	8	53.3	3	20	4	26.7	7	46.7	10	66.7	5	33.3	6	40	6	40	49	36.3
Gene expert	ACC	5	83.3	2	33.3	5	83.3	4	66.7	6	100	6	100	6	100	6	100	6	100	46	85.2
	UNACC	1	16.7	4	66.7	1	16.7	2	33.3	0	0	0	0	0	0	0	0	0	0	8	14.8
CD4	ACC	2	33.3	2	33.3	4	66.7	4	66.7	2	33.3	2	33.3	2	33.3	3	50	1	16.7	22	40.7
	UNACC	4	66.7	4	66.7	2	33.3	2	33.3	4	66.7	4	66.7	4		3	50	5	83.3	32	59.3
HIV	ACC	15	100	10	66.7	15	100	15	100	10	66.7	15	100	15	100	15	100	15	100	125	92.6
	UNACC	0	0	5	33.3	0	0	0	0	5	33.3	0	0	0	0	0	0	0	0	10	7.4
Blood film	ACC	4	66.7	3	50	5	83.3	4	66.7	3	50	4	66.7	6	100	5	83.3	4	66.7	38	70.4
	UNACC	2	33.3	3	50	1	16.7	2	33.3	3	50	2	33.3	0	0	1	16.7	2	33.3	16	29.6
Cumulative performance of analytes in the nine cycles																ACC	2573		2573/3807 x 100 = 67.58%		
																UNACC	1234				
																Total	3807				