Appendix 4

Table No (1): Showed the results of the study group for isolation and identification of Gram negative bacteria from urine sample before intervention phase.

Lab No	Sample	Identification methods							Isolate	observation
		Culture media	Grams stain	kiA	Oxidase	indole	citrate	urease		
1	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	Used proper type of media All of them not applied the identification procedures
2	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	
3	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	
4	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	

Table No (1.2): Showed the results of the study group for isolation and identification of Gram positive bacteria from urine sample before intervention phase.

Lab No	Sample	Identification methods						Isolate	observation
		Culture media	Grams stain	Catalese	MSA	DNAse	Coagulase		
5	Urine	CLED	G +ve cocci	N.A	N.A	N.A	N.A	G +ve cocci	. Used proper type of media . All of them not applied the identification procedures
6	Urine	CLED	G +ve cocci	N.A	N.A	N.A	N.A	G +ve cocci	
7	Urine	CLED	G +ve cocci	N.A	N.A	N.A	N.A	G +ve cocci	

Table No (3.1) Showed the results of the control group for isolation and identification of Gram negative bacteria from urine sample before intervention phase.

Lab No	Sample	Identification methods							Isolate	observation
		Culture media	Grams stain	KiA	Oxidase	indole	citrate	urease		
1	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	. Used proper type of media . All of them not applied the identification procedures.
2	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	
3	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	

Table No (3.2) Showed the results of the control group for isolation and identification of Gram positive bacteria from urine sample before intervention phase.

Lab No	Sample	Identification methods						Isolate	Observation
		Culture media	Grams stain	Catalese	MSA	DNAse	coagulase		
4	Urine	CLED	N.A	N.A	N.A	N.A	N.A	G +ve cocci	. Used proper type of media, not applied the identification procedures.

Table No (4.1) Showed the results of the control group for isolation and identification of Gram negative bacteria from Wound swab before intervention phase.

Lab No	Sample	Identification methods							Isolate	Observation
		Culture media	Grams stain	oxidase	kiA	indole	citrate	urease		
1	Wound swab	B.A	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	. Not used proper type of media . not applied the identification procedures
2	Wound swab	B.A	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	

Table No (4.2) Showed the results of the control group for isolation and identification of Gram positive bacteria from Wound swab before intervention phase.

Lab No	Sample	Identification methods						Isolate	Observation
		Culture media	Grams stain	Catalese	MSA	DNAse	Coagulase		
3	Wound swab	B.A + M acc	G +ve cocci	+ ve	N.A	N.A	N.A	G +ve cocci	. 50% used proper type of media . not applied the identification procedures.
4	Wound swab	B.A	G +ve cocci	N.A	N.A	N.A	N.A	G +ve cocci	

Table No (5.1) Showed the results of the study group for isolation and identification of Gram negative bacteria from urine sample after intervention phase.

Lab No	Sample	Identification methods							Isolate	observation
		Culture media	Grams stain	KiA	Oxidase	indole	citrate	urease		
1	Urine	CLED	G –ve bacilli	s b gas H_2s y y + –	–ve	+ve	–ve	–ve	*E.coli*	. Used proper type of media . All of them applied the identification procedures.
2	Urine	CLED	G –ve Bacilli	s b gas H_2s R R – –	+ve	–ve	+ve	–ve	*P.aureuginosa*	
3	Urine	CLED	G –ve Bacilli	s b gas H_2s y y + –	–ve	+ve	–ve	–ve	*E.coli*	
4	Urine	CLED	G –ve Bacilli	s b gas H_2s R R – –	+ve	–ve	+ve	–ve	*P.aureuginosa*	

Table No (5.2) Showed the results of the study group for isolation and identification of Gram positive bacteria from urine sample after intervention phase.

Lab No	Sample	Identification methods						Isolate	observation
		Culture media	Grams stain	Catalese	MSA	DNAse	Coagulase		
5	Urine	CLED	G +ve cocci	+ve	+ve	+ve	N.A	*S.aureus*	. Used proper type of media . All of them applied the identification procedures.
6	Urine	CLED	G +ve cocci	+ve	+ve	+ve	N.A	*S.aureus*	
7	Urine	CLED	G +ve cocci	+ve	+ve	+ve	N.A	*S.aureus*	

Table No (6.1) Showed the results of the study group for isolation and identification of Gram negative bacteria from Wound swab after intervention phase.

Lab No	Sample	Identification methods							Isolate	observation
		Culture media	Grams stain	KiA	Oxidase	indole	citrate	urease		
1	Wound swab	B.A + Macc	G-ve bacilli	s b gas H_2s y y + –	–ve	+ve	–ve	–ve	*E.coli*	. used proper type of media . All of them not applied the identification procedures.
2	Wound swab	B.A + Macc	G-ve bacilli	s b gas H_2s R R – –	+ve	–ve	+ve	–ve	*P.aureuginosa*	
3	Wound swab	B.A + Macc	G-ve bacilli	s b gas H_2s y y + –	–ve	+ve	–ve	–ve	*E.coli*	
4	Wound swab	B.A + Macc	G-ve bacilli	s b gas H_2s R R – –	+ve	–ve	+ve	–ve	*P.aureuginosa*	
5	Wound swab	B.A + Macc	G-ve bacilli	s b gas H_2s y y + –	–ve	+ve	–ve	–ve	*E.coli*	

Table No (6.2) Showed the results of the study group for isolation and identification of Gram negative from Wound swab after intervention

Lab No	Sample	Identification methods						Isolate	observation
		Culture media	Grams stain	Catalese	MSA	DNAse	coagulase		
3	Wound swab	B.A + Macc	G+ve Cocci	+ve	+ve	+ve	N.A	*S.aureus*	. used proper type of media . All of them applied the identification procedures.
4	Wound swab	B.A + Macc	G+ve Cocci	+ve	+ve	+ve	N.A	*S.aureus*	

Table No (7.1) Showed the results of the control group for isolation and identification of Gram negative bacteria from urine sample after intervention phase

Lab No	Sample	Identification methods							Isolate	observation
		Culture media	Grams stain	KiA	Oxidase	indole	citrate	urease		
1	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	Not improved
2	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	
3	Urine	CLED	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	

Table No (7.2) Showed the results of the control group for isolation and identification of Gram positive bacteria from urine sample after intervention phase.

Lab No	Sample	Identification methods						Isolate	Observation
		Culture media	Grams stain	Catalese	MSA	DNAse	coagulase		
4	Urine	CLED	G +ve Cocci	N.A	N.A	N.A	N.A	*S.aureus*	Not improved

N.A:Not applied
B.A:Blood agar
Macc:Macconkey
MSA:Mannitol salt agar
R:Red Y:Yellow
S:Slope B:butt G:Gas
-Ve :Negative +Ve :Positive

Table No (8.1) Showed the results of the control group for isolation and identification of Gram negative bacteria from Wound swab after intervention phase.

Lab No	Sample	Identification methods							Isolate	Observation
		Culture media	Grams stain	oxidase	kiA	Indole	citrate	urease		
1	Wound swab	B.A	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	Not improved
2	Wound swab	B.A	G –ve bacilli	N.A	N.A	N.A	N.A	N.A	G –ve bacilli	

Table No (8.2) Showed the results of the control group for isolation and identification of Gram positive bacteria from Wound swab after intervention phase.

Lab No	Sample	Identification methods						Isolate	Observation
		Culture media	Grams stain	Catalese	MSA	DNAse	Coagulase		
3	Wound swab	B.A + Macc	G +ve cocci	N.A	N.A	N.A	N.A	G +ve cocci	Not improved
4	Wound swab	B.A	G +ve cocci	N.A	N.A	N.A	N.A	G +ve cocci	

(9) showed performance requirements of Susceptibility test of Isolates from study group before Intervention phase.

Lab No	Identification methods								
	media	Reagent	Method	Internal Quality	Single antibiotic agent	Multiple antibiotic agent		Measurement of inhibition zone	
						G +ve	G -ve	Ruler	Approximately
1	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	N.A	Used	N.A	Used
2	Nutrient agar	N.A	N.A	N.A	N.A	N.A	Used	N.A	Used
3	Muller Hinton	N.A	N.A	N.A	Used	N.A	N.A	N.A	Used
4	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	N.A	Used	N.A	Used
5	Nutrient agar	N.A	N.A	N.A	N.A	Used	N.A	N.A	Used
6	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	Used	N.A	N.A	Used
7	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	Used	N.A	N.A	Used

Note: approximately i.e. they used necked eye to measure inhibition zone.

(10) showed performance requirements of Susceptibility test of Isolates from control group before Intervention phase.

Lab No	Identification methods								
	media	Reagent	Method	Internal Quality	Single antibiotic agent	Multiple antibiotic agent		Measurement of inhibition zone	
						G +ve	G -ve	Ruler	Approximately
1	Muller Hinton	N.A	Modified Kairby bauer	N.A	N.A	N.A	used	N.A	used
2	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	N.A	Used	N.A	used
3	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	Used	N.A	N.A	used
4	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	used	N.A	N.A	used

Note: approximately i.e. they used necked eye to measure inhibition zone

(11) showed performance requirements of Susceptibility test of Isolates from study group after Intervention phase.

Lab No	Identification methods								
	media	Reagent	Method	Internal Quality	Single antibiotic agent	Multiple antibiotic agent		Measurement of inhibition zone	
						G +ve	G -ve	Ruler	Approximately
1	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	N.A	Used	Used	N.A
2	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	Used	N.A	N.A	Used	N.A
3	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	Used	N.A	N.A	Used	N.A
4	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	Used	N.A	N.A	Used	N.A
5	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	Used	N.A	Used	N.A
6	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	Used	N.A	Used	N.A
7	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	Used	N.A	Used	N.A

Note: approximately i.e. they used nacked eye to measure inhibition zone.

(12) showed performance requirements of Susceptibility test of Isolates from control group after Intervention phase.

Lab No	Identification methods								
	media	Reagent	Method	Internal Quality	Single antibiotic agent	Multiple antibiotic agent		Measurement of inhibition zone	
						G +ve	G -ve	Ruler	Approximately
1	Muller Hinton	N.A	Modified Kairby bauer	N.A	N.A	N.A	used	N.A	used
2	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	Used	N.A	N.A	N.A	used
3	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	Used	N.A	N.A	used
4	Muller Hinton	Maccfarland	Modified Kairby bauer	N.A	N.A	used	N.A	N.A	used

Note: approximately i.e. they used nacked eye to measure inhibition zone.