

Results

The results of the study will be presented in the following sequences:

Part 1: Personal characteristics of studied sample at Benha university hospital (Table 1-2).

Part 2: comparison between Head nurses' and Staff Nurses Disposition toward using Information Systems (table 3).

Part 3: level of Head nurse and Staff nurse disposition toward using information systems at Benha University hospitals (Table 4).

Part 4: Mean and standard deviation of Staff Nurses Disposition toward using Information Systems according to nurses' age group, nurses' years of experience, Nurses' qualification, their department (Table 5-6-7-8).

Part 5: Mean and standard deviation of Head Nurses Disposition toward using Information Systems according to their age group ,their years of experience, Their Department(table 9,10,11).

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Part 1: Personal characteristics of studied sample at Benha university hospital.

Table (1): Personal Characteristics of Studied Sample at Benha University Hospitals no (534).(Staff nurses).

Item	Staff nurse (492)	
Age	NO	%
20-29	224	45.5
30-39	170	34.6
40-49	95	19.3
>50	3	0.6
Mean \pm SD	31.65 \pm 7.64	
Years of experience		
5<	82	16.7
5-10	109	22.2
11-15	92	18.7
15>	209	42.5
Mean \pm SD	13.94 \pm 7.88	
Qualification		
Baccalaureate in nursing	24	4.9
Nursing institute	80	16.3
Nursing diploma	388	78.8
departments		
Critical care	107	21.7
Medicine	175	35.6
Surgery	210	42.7

This table shows that 45.5% of staff nurses has age between (20-29) years, as regarded to years of experience 42.5%of staff nurses were more than 15years of experiences. Concerning qualification (78.8 %) of staff nurses have nursing diploma and 42.7% of studied nurses working in surgery departments.

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Table (2): Personal Characteristics of Studied Sample at Benha University Hospitals no (42) (Head nurses).

Item	Head nurse(42)	
	NO	%
Age		
20-29	24	57.1
30-39	18	42.9
40-49	-	-
>50	-	-
Mean \pm SD	30.45 \pm 3.78	
Years of experience		
5<	2	4.8
5-10	28	66.16
11-15	5	11.9
15>	7	16.7
Mean \pm SD	9.02 \pm 4.93	
Qualification		
Baccalaureate in nursing	42	100.0
Nursing institute	-	-
Nursing diploma	-	-
departments		
Critical care	14	33.3
Medicine	16	38.1
Surgery	12	28.6

This table shows that 57.1% of head nurses has age between (20-29) years, as regarded to years of experience (66.1%) of head nurses were between (5-10) years of experience. Concerning qualification 100% of head nurses have baccalaureate degree of nursing. And 38.1% of studied head nurses working in medical departments.

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Part 2: comparison between Head nurses' and Staff Nurses Disposition toward using Information Systems.

Table (3): Comparison between Head nurses' and Staff Nurses Disposition toward using Information Systems.

Components	Max. Score	Staff nurses (n=492) Mean \pm SD	Head nurses (n=42) Mean \pm SD	t Value	P value
Importance of computer	13	9.09 \pm 1.43	11.02 \pm .97	142.57	0.000
Importance of information systems	24	20.70 \pm 3.93	21.26 \pm 3.45	122.85	0.000
Importance of internet	10	8.18 \pm 1.57	8.61 \pm .76	124.25	0.000
obstacles'	10	7.13 \pm 1.90	7.38 \pm 2.11	85.98	0.000
Total	57	45.11 \pm 5.80	48.28 \pm 5.05	180.63	0.000

This table clearly shows head nurses and staff nurses disposition toward using information systems. The results revealed that, there was statistically significant difference in relation to total and all items of disposition. Head nurses reported the highest mean score while staff nurses reported the lowest mean score in relation to total and all items of disposition both of Head f nurses and staff nurses have a positive disposition toward using information systems.

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Part 3: level of Head nurse and Staff nurse disposition toward using information systems at Benha University hospitals.

Table (4) level of Head Nurse and Staff Nurse Disposition Toward Using Information Systems at Benha University Hospitals.

Level of disposition	Head nurse(42)		Staff nurse(492)		Chi	P
	no	%	no	%		
positive	41	97.6	421	85.6	374.76	0.00
neutral	1	2.4	71	14.4		
negative	0	0.0	0	0.0		

This table illustrates level of head nurse and staff nurse disposition toward using information systems at Benha University Hospitals. The result revealed that there was a statistically significant difference among head nurses and staff nurses disposition toward using information systems, otherwise the head nurses and staff nurses have a positive disposition toward using information systems.

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Part 4: Mean and standard deviation of Staff Nurses Disposition toward using Information Systems according to nurses' age group, nurses' years of experience, Nurses' qualification, their department.

Table (5): Mean and Standard Deviation of Staff Nurses Disposition Toward Using Information Systems According to nurses' age group (n= 492).

Components of Dispositions	Max. Score	20-29 (n=224) Mean \pm SD	30-39 (n=170) Mean \pm SD	40-49 (n=95) Mean \pm SD	50> (n= 3) Mean \pm SD	F Value	P value
importance of computer	13	9.32 \pm 1.39	9.00 \pm 1.56	8.72 \pm 1.23	8.66 \pm 0.57	4.379	0.005
importance of information systems	24	20.81 \pm 3.90	20.61 \pm 4.06	20.72 \pm 3.85	18.00 \pm 1.00	0.556	0.644
importance of internet	10	8.16 \pm 1. 45	8.24 \pm 1.65	8.10 \pm 1.71	8.66 \pm .57	0.262	0.853
obstacles' of using information system	10	7.19 \pm 1.86	7.05 \pm 1.90	7.12 \pm 2.01	6.66 \pm 2.08	0.218	0.884
Total	57	45.49 \pm 5.78	44.91 \pm 6.00	44.68 \pm 5.53	42.00 \pm 1.73	0.850	0.467

This Table Illustrates the relation between staff nurses dispositions toward using information systems and nurses' age group. The results revealed that, there was no statistically significant difference in relation to total and all item of staff nurses disposition except for item of importance of computer $p=0.005$. Staff nurses with age group 20-29 reported the highest mean score while staff nurses with age group 50> reported the lowest mean score in relation to total of disposition. All staff nurses with different ages have a positive disposition toward using information systems.

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Table (6) Mean and Standard Deviation of Staff Nurses Disposition Toward Using Information Systems According to Nurses' Years of Experience (n= 492).

Components of Dispositions	Max. Score	5< (n=82) Mean \pm SD	5-11 (n=109) Mean \pm SD	11-15 (n=92) Mean \pm SD	15> (n=209) Mean \pm SD	F Value	P value
importance of computer	13	9.37 \pm 1.23	9.36 \pm 1.48	9.21 \pm 1.48	8.77 \pm 1.41	6.125	.000
importance of information systems	24	20.95 \pm 3.33	20.81 \pm 3.82	20.69 \pm 4.31	20.56 \pm 4.06	0.223	0.880
importance of internet	10	7.97 \pm 1.79	8.32 \pm 1.28	8.18 \pm 1.63	8.20 \pm 1.59	0.762	0.516
obstacles' of using information system	10	6.85 \pm 1.88	7.41 \pm 1.91	7.28 \pm 1.49	7.02 \pm 2.05	1.798	0.147
Total	57	45.15 \pm 5.40	45.91 \pm 5.74	45.38 \pm 6.05	44.56 \pm 5.84	1.381	0.248

This table clearly shows the relation between staff nurses disposition toward using information systems and nurses years of experience. The results revealed that, there was no statistically significant difference in relation to total and all items of staff nurses disposition except for item of importance of computer $p=0.000$,Staff nurses with years of experience 5-11 years reported the highest mean score while staff nurses with years of experience 15> reported the lowest mean score in relation to total of disposition . All staff nurses with different years of experiences have a positive disposition toward using information systems.

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Table (7): Mean and Standard Deviation of Staff Nurses Disposition Toward Using Information Systems According to nurses' qualification (n= 492).

Components of Dispositions	Max. Score	Baccalaureate (n=24) Mean \pm SD	Nursing institute (n=80) Mean \pm SD	Nursing diploma (n=388) Mean \pm SD	F Value	P value
Importance of computer	13	10.50 \pm 1.53	9.36 \pm 1.43	9.09 \pm 1.43	15.78	0.000
Importance of information systems	24	20.95 \pm 3.98	21.05 \pm 3.69	20.62 \pm 3.99	0.438	0.646
Importance of internet	10	8.16 \pm 1.73	8.42 \pm 1.25	8.13 \pm 1.62	1.09	0.33
obstacles' of using information system	10	7.75 \pm 1.62	7.23 \pm 1.78	7.06 \pm 1.94	1.59	0.203
Total	57	47.37 \pm 6.95	46.07 \pm 5.16	44.78 \pm 5.80	3.59	0.028

This table clearly shows relation between staff nurses disposition toward using information systems and nurses' qualification. The results revealed that, there was statistically significant difference in relation to item of importance of computer $p=0,000$ and total of disposition $P=0.028$. The staff nurse with baccalaureate reported the highest mean score while staff nurses with nursing diploma reported the lowest mean score in relation to total of disposition, staff nurses with different qualification have a positive disposition toward using information systems.

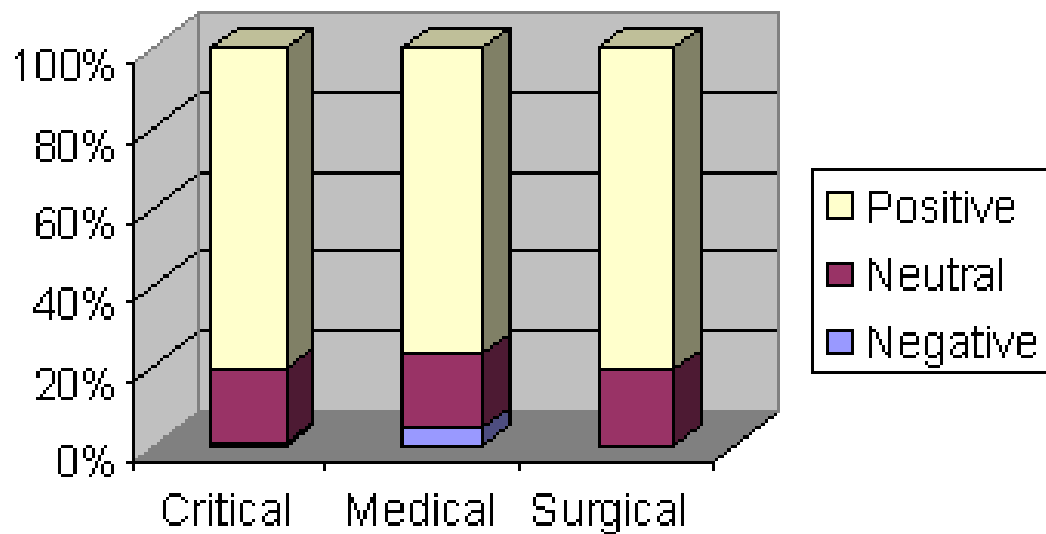
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Table (8) Mean and Standard Deviation of Staff Nurses Disposition Toward Using Information Systems According to their Department/ Units (n= 492).

Components of Dispositions	Max. Score	Critical (n=107) Mean \pm SD	Medical (n=175) Mean \pm SD	Surgical (n=210) Mean \pm SD	F Value	P value
total importance of computer	13	9.52+1.42	8.86+1.58	9.06+1.264	7.281	0.001
total importance of information systems	24	20.30+3.63	20.87+4.19	20.77+3.87	0.737	0.479
total importance of internet	10	8.43+.81	8.21+1.56	8.03+1.83	2.42	0.090
obstacles' of using information system	10	8.24+1.44	7.00+2.08	6.67+1.72	27.42	0.000
Total	57	46.51+4.73	44.95+6.05	44.54+5.98	4.257	0.015

This table clearly shows staff nurses disposition toward using information systems according to nurses' departments. The results revealed that, there was statistically significant difference in relation to total and all items of disposition except for item of importance of information systems $P=0.479$ and item of importance of internet, $p=0.090$. Staff nurses working in the critical departments reported the highest mean score while staff nurse working in the surgery departments reported the lowest mean score in relation to total score of disposition. Staff nurses in all departments have a positive disposition toward using information systems.

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Chi = 182.040

p = .000

(Figure 1): level of Staff Nurses Disposition toward using Information Systems in studied departments n= (492).

This figure portrays level of staff nurses disposition toward using information systems in studied department: The results revealed that the studied staff nurses in Critical Units, medicine and Surgery departments have positive disposition toward using information systems .

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Part 5: Mean and standard deviation of Head Nurses Disposition toward using Information Systems according to their age group ,their years of experience, Their Department.

Table (9): Mean and Standard Deviation of Head Nurses Disposition Toward Using Information Systems According to their Age Group (n= 42).

Components of Dispositions	Max. Score	20- 29 (n=24) Mean \pm SD	30- 39 (n=18) Mean \pm SD	T Value	P value
importance of computer	13	11.00 \pm .97	11.05 \pm .99	0.033	0.858
importance information systems	24	21.25 \pm 2.87	21.27 \pm 4.19	0.001	0.980
importance of internet	10	8.58 \pm .88	8.66 \pm .59	0.120	0.731
obstacles'	10	7.50 \pm 2.08	7.22 \pm 2.21	0.173	0.679
obstacles' of using information system	57	48.33 \pm 3.93	48.22 \pm 6.37	0.005	0.94

This Table illustrates the relation between head nurses disposition toward using information systems and their age group. The results revealed that, there was no statistically significant difference in relation to total and all items of disposition head nurses with different age group have a positive disposition.

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Table (10) Mean and Standard Deviation of Head Nurses Disposition Toward Using Information Systems According to Their Years of Experience (n= 42).

Components of Dispositions	Max. Score	5< (n=2) Mean \pm SD	5-10 (n=28) Mean \pm SD	11-15 (n=5) Mean \pm SD	15> (n= 7) Mean \pm SD	F Value	P value
importance of computer	13	10.50 \pm .70	11.25 \pm .96	10.40 \pm 1.34	10.71 \pm .48	1.694	0.185
Importance	24	21.00 \pm 4.24	21.67 \pm 2.78	17.80 \pm 6.30	22.14 \pm 2.34	2.123	0.113
importance of internet	10	8.50 \pm .70	8.53 \pm .88	8.60 \pm .54	9.00 \pm .00	0.693	0.562
total obstacles' of using information system.	10	9.00 \pm .00	7.42 \pm 1.97	6.60 \pm 3.97	7.28 \pm 1.11	0.608	0.614
Total	57	49.00\pm5.65	48.89\pm3.76	43.40\pm10.52	49.14\pm2.96	1.889	0.148

This table clearly shows the relation between Head nurses disposition toward information systems and years of experience. The result revealed that, there was no statistically significant difference in relation to total and all items of head nurses disposition. Head nurses with years of experience more than 15> reported the highest mean score while head nurses with years of experience 11-15 reported the lowest mean score in relation to total of disposition . Head nurses with different years of experience have a positive disposition toward using information systems.

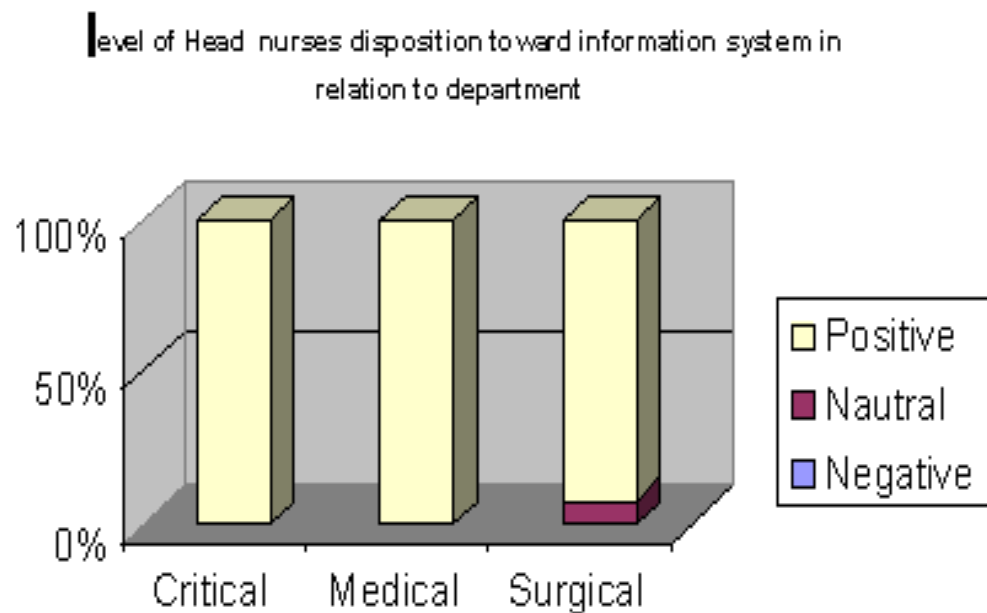
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Table (11): Mean and Standard Deviation of Head Nurses Disposition Toward Using Information Systems According to Their Departments/Units (n= 42).

Components of Dispositions	Max. Score	Critical units (n=14) Mean \pm SD	Medical Dep. (n=16) Mean \pm SD	Surgical Dep (n=12) Mean \pm SD	F Value	P value
importance of computer	13	11.14+.949	10.81+.91	11.16+1.11	0.597	0.555
Importance of information systems.	24	21.50+2.76	21.62+2.41	20.50+5.16	0.401	0.673
importance of internet	10	8.78+.42	8.81+.40	8.16+1.19	3.282	0.048
total obstacles' of using information system '	10	8.50+1.74	6.81+2.10	6.83+2.16	3.25	0.049
Total	57	49.92+3.75	48.06+2.51	46.66+7.96	1.39	0.259

This table illustrates head nurses disposition toward using information systems and their departments. The results revealed that, there was no statistically significant difference in relation to total and all items of disposition except for item of importance of internet=0.048 and item of obstacle's=.049. Head nurses working in the critical Units reported the highest mean score while head nurses working in the surgical departments reported the lowest mean score in relation to total of disposition score. Head nurses in all departments have appositive disposition toward using information systems.

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Chi = 12.000

p= .528

Figure (2): level of head nurses disposition toward information systems in studied department (n= 42).

This figure portrays level of head nurses disposition toward using information systems in studied departments the results revealed that the studied head nurses have a positive disposition toward using information systems in all studied departments.