Comparison between Nursing Performance and Standard of Care for Aborted Woman at Mansoura Hospitals

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Abstract

Aim of this study was to Compares between nursing performance and standard of care for aborted woman at Mansoura hospitals.

Study design: A cross sectional descriptive study was used.

Setting: This study was conducted at the labor and delivery unit of governmental hospitals at Mansoura city. The Sample Type: Sample type was convenient sample for health care provider.

The sample size: The current study was conducted on all health care providers and all attended for abortion at the study period. **Tools**: Two tools were used for data collection.

Tool I: Interview questionnaire sheet: The questionnaire sheet was designed by the researcher, it consists of demographic data of nurses.

Tool II: Clinical Policy Guidelines for abortion 2014 performance Standards for abortion (NAF).

Results: the study revealed that the old general hospital nurses achieved a higher practice mean score (157.25 ± 1.98) than other studied hospitals.

Conclusion: This study concluded that the current practices of all nurses for abortion were highly achieved the performance standards for abortion published by NAF 2014.

Recommendations: Strengthen pre-service education of all health care providers to ensure competency-based approaches that lead to stronger performance in and retention of knowledge and skills as well as evidence-based practices that meet the priority health care needs of Egypt.

Keywords: Abortion –Standard– Quality.

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I. Introduction

The word abortion derives from the Latin "aboriri" that means "to miscarry". Abortion means ending of pregnancy before fetus can survive on its own, and in this sense it is synonymous with miscarriage. It also means an induced pregnancy termination to by removing the fetus or embryo from the uterus. Although both terms are used interchangeably in a medical context, popular use of the word abortion by physicians implies a deliberate pregnancy termination. Thus, many prefer "miscarriage" refer to spontaneous fetal loss before viability (Grimes and Stuart, 2010).

Although legal, religious and social regulations save women in Egypt from terminating their unwanted pregnancies, many women seek to go through abortion throughout the country. Whether performed for clinical or other motives, abortion remains a controversial and hotly-debated problem in Egyptian society. In gynaecology, specialists are differ in their opinions. A few believe abortion is a shape of murder, others assume it lies inside the fundamental rights of women to have full manipulate over their bodies. The question of whether or not abortion is morally incorrect persists inside the hearts and minds of many girls while considering terminating a pregnancy (Shalaby, 2013).

In Egypt, there are few dependable statistics on the incidence of abortion in the country. Though, a survey reported that women admitted that 10.5% of their pregnancies ended abortion, 40% of admitted women from obstetric and gynecological condition to hospital are refers to abortion. Annually about 336000 cases of abortion in public hospitals treated from these cases (35%) are spontaneous. 5% are certainly induced (evidence of trauma or the patient admits induction), 60 % are considered as possibly induced (presence of sepsis or women admit that the pregnancy was unwanted). (Hassan et al., 2005).

The organized nursing care aims to offer safe, capable, and moral nursing care to society so standards allow the nurse to carry out their professional roles, serving as a protection for the nurse, the affected person and the agency wherein fitness care is supplied. Every nurse is responsible for her/his very own best of practice, and

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is accountable for the usage of these requirements to make sure knowledgeable, safe, and complete nursing care (College of Registered nurses of British Columbia, 2013).

. In addition a standard is defined as a collection of rules, guidelines, or desired characteristics for physical objects, materials, activities, behaviors, performance, quality, which are combined in a technical file, to have an most beneficial degree of achievement of the functioning of any equipment, procedure, system, or organization (American nurses association, 2014).

Additionally promote and guide our medical exercise. As it offer a framework for growing clinical competency checklists or proficiency evaluations for a selected medical unit or company, and may be used to assess a nurse's care. If there may be suspection of the nurse has developed unsafe work behavior or isn't adhering to established organizational guidelines or drastically familiar guidelines accepted by means of nation and federal legal guidelines or leading healthcare organizations, (Charlotte Davis, 2014)

. There is a need to apply high standardized care to enable nurses to plan, deliver, develop and evaluate abortion services within their scope of practice. The qualified nurse should be dynamic and respond to the changing needs of the abortion process. The nurses' services must meet health needs in a variety of health settings during the abortion (**Freedman et al., 2015**).

Ensuring high quality of aborted woman care is a primary goal in reducing maternal mortality and morbidity as well as improving neonatal outcomes in many developing countries. A significant percentage of life-threatening complications occur around the time of childbirth or immediate postpartum and cannot be predicted. Hence availability and accessibility of comprehensive obstetric care have become priorities in many strategies to reduce the incidence and sequelae of life-threatening complications related to pregnancy and childbirth, (Pitch forth et al.2010 and Mellows 2010).

in addition excessive excellent of maternity care is a need for supplying a minimal stage of care to all pregnant women and their newborn babies; consists of a better level of care to those who want it; Care provision with the high-quality feasible medical final results of mother and child; supplying care which satisfies customers and carriers; preserving sound managerial and financial performance; And develop existing services so that you can raise the requirements of care supplied to all women (UNICEF, 2009 and Hussein et al., 2012).

Significance:

One of the most easily preventable causes of maternal death and morbidity as a result of unsafe abortion is performing legal safe abortion under medical supervision. In Egypt abortion is legal only if performed to save a woman's life, other attempts to procure an abortion are punishable. Most induced abortions are performed under unsafe conditions, contributing to high maternal mortality ratio. There is no any study to assess practices regarding abortion utilized at governmental hospitals at Mansoura City and their consistency with performance standards, so it is the first study in Mansoura city.

Aim of the study:

The aim of this study is to compares between nursing performance and standard of care for aborted woman at Mansoura hospital

Research Question

Are nurses' practices regarding abortion at Mansoura governmental hospitals consistence with performance standards?

Subjects and methods:

Study design:

This study was a cross sectional descriptive design.

Setting:

This study was carried out at the labour and delivery unit in Mansoura District, Dakahlia Governorate, Mansoura General Hospital, Mansoura International Hospital, and Sandoub Health Insurance Hospital, in Dakahlia Governorate

Study subjects:

The subjects of the study included all health care providers, (obstetricians and nurses) and post aborted women.

Inclusion criteria:

All legal aborted women who have complication during abortion and accept to participate in the study.

The sample size:

The current study was conducted on all nurses and all attended for abortion at the study period for six months from (June 2015) to (December 2016) who met the study criteria at the previously mentioned hospitals.

The Sample Type:

Sample type was convenient sample for health care provider

Tool of study:

To achieve the aim of this study, two tools were used in data collection

Tool I: Interview questionnaire sheet.

The questionnaire sheet was designed by the researcher, it consists of demographic data of nurses who were involved in the provision of direct woman care, such as age, residence, level of education, years of experience... etc.

Tool II: Observational checklist to assess health care provider by Clinical Policy Guidelines for abortion 2014 performance

Standards for abortion: (National abortion federation (NAF) 2014):

Including 17 items, which begin with who can provide abortion, and ended with evaluation of evacuated uterine contents was assessed by using checklist for clinical performance.

Pilot study:

A pilot study carried out on 10 % (18 days) of the nurses in Mansoura governmental hospitals to test applicability and clarity of the tools, modification was done according to the results of pilot study and exclude from study sample.

Ethical considerations and administrative design:

Ethical approval obtained from the research ethics committee of the Faculty of Nursing – Mansoura University. An official permission to conduct the study obtained from the responsible administration of the hospitals. Privacy and confidentiality of the collected data would assured

Field work:

The actual fieldwork of the study conducted for 6 months period from (June 2015) to (December 2016) to collect the data needed for assessment of the nurses' practices who was involved in providing direct care for aborted women during the study period in each labour and delivery unit in all studied hospitals. An individual interview was conducted by the researcher using two tools and explanation about the aim and nature of the study was discussed for all obstetric nurses and aborted women.

Data was collected according to the hot days for each governmental hospital. The hot days were Saturday &Wednesday for the international hospital &Friday for the old general hospital and the other days for health insurance hospital. The researcher attended in each hospital according to the hot days from 8:30 am to 8:00pm. All obstetric nurses who were worked in the hot days and providing direct woman care during abortion was observed by using checklist to assess their practice and included in the study.

Statistical Design:

Analysis of data and statistical results were done by using SPSS package version 20.0. All data were categorical and were expressed in number and percent. For comparison of the categorical data among the groups the chi square test was used. Statistical significant difference was considered at p - value <0.05, and highly significant difference at p - value <0.001, also considered non-significant difference at p - value >0.05.

II. Result

Table1: General characteristics of health care provider among Mansoura governmental hospital frequent distribution of general characteristics of studied sample (nurses) at Mansoura governmental hospitals:

	Health N(14)	insurance	International N(10)		Old gen	neral	Chi square	test
	n	%	N	%	N	%	X2	P
Age (years)								
≤30	4	28.6	7	70	4	50	7.494	0.112
31 - 40	10	71.4	3	30	3	37.5		
41 – 50	0	0	0	0	1	12.5		
Sex								
Males	0	0	0	0	0	0	0	1.000
Females	14	100	10	100	8	100		
Residence								
Urban	11	78.6	7	70	1	12.5	12.314	0.002**
Rural	3	21.4	3	30	7	87.5		
Experience								
(years)								
1 – 3	0	0	0	0	2	25	10.198	0.037
4 – 6	1	7.1	3	30	0	0		
>6	13	92.9	7	70	6	75		
Level of								
education								
Diploma	13	92.9	2	20	4	50	20.653	<0.001**
Higher institute	1	7.1	8	80	2	25		
Bachelor	0	0	0	0	2	25		

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Table (1) shows that more than two third of studied nurses (71.4%) were in the age of (31-40 years), most of nurses (87.5%) were from rural areas. In relation to years of experience in labor unit, one quarter (25%) of the health care providers had less than 3years of experience of old general hospital, (30%) of them had work experience from 4_5 years at international hospital. Moreover there was significant difference regarding years of experiences. Also this table found that there was highly significant regarding residence, level of education among Mansoura governmental hospitals. While the majority (92.2%), three quarter(75%) and near to three quarter(70%) had more than 5 years of experience at health insurance, old general and international hospital respectively. Regarding the level of education found that the majority of nurses (92.9%) had diploma, while (80%) of them had higher institute, and one quarter had bachelor degree.

TOOLII: Clinical Policy Guidelines for Abortion performance standards: (National abortion federation (NAF) 2014) to assess of health care provider practical skills regarding utilization of clinical policy guideline for abortion performance standard.

Table 2: Frequency distribution of observational practice among studied Mansoura governmental hospitals regarding (Who can provide abortion, Patient Education, Counseling and informed Consent.

Infection prevention and control and RH testing and RH immunoglobulin administration)

Item	n prevention and contro		l KH h insura		ig an		1mm national		giobu		aami I genera		rauo	n) Chi squa	are test
Item	Standard	N=14		inte		N=10				N=	_			Cin squa	ire test
	Juniuai u	Done		Not d	ono	Done		Not d	lono	Do		No			
		Done		1401 0	one	Done		1401 0	one	D0	iic	dor			
		n	%	n	%	N	%	n	%	n	%	n	%	X2	P
1. Who	Sd1.Abortion will be provided	14	100	0	0	9	90	1	10	8	100	0	0	2.271	0.321
can	-	14	100	"	U	9	90	1	10	0	100	0	U	2.2/1	0.321
	by licensed practitioners. This														
provide	category is intended to include														
abortio	physicians from various														
n	specialties as well as nurse														
	midwives, nurse practitioners,														
	physician assistants, registered														
	nurses, and other health														
	professionals.		100				00		20		100			1.703	0.007
	Sd2.All practitioners providing	14	100	0	0	8	80	2	20	8	100	0	0	4.693	0.096
	abortions must have received														
	training to competency in														
	abortion care, including the														
	prevention, recognition, and														
	management of complications.														4 000
2.	Sd1.The practitioner must	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Patient	ensure that appropriate														
Educati	personnel have a discussion														
on,	with the patient in which														
Counsel	accurate information is														
ing and	provided about the procedure														
Informe	and its alternatives, and the														
d	potential risks and benefits.														
Consent	The patient must have the														
	opportunity to have any														
	questions answered to her														
	satisfaction prior to														
	intervention.			1.1	100		20		00	0			100	1.003	0.007
	Sd2.There must be	0	0	14	100	2	20	8	80	0	0	8	100	4.693	0.096
	documentation that the patient														
	affirms that she understands														
	the procedure and its														
	alternatives, and the potential														
	risks and benefits; and that her														
	decision is voluntary.	1,	100			10	100			6	100				1.000
	Sd3.Each patient must have a	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	private opportunity to discuss														
	issues and concerns about her														
	abortion.														

	Sd4. A patient must undergo	14	100	0	0	8	80	2	20	8	100	0	0	4.693	0.096
		14	100	U	U	0	00		20	0	100	U	0	4.093	0.050
	the abortion as expeditiously as														
	possible in accordance with														
	good medical practice.														
	Sd5. Information about	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	aftercare and contraception														
	must be available to patients at														
	the facility.														
	, v				100										
	Sd6.All reasonable precautions	0	0	14	100	2	20	8	80	0	0	8	100	4.693	0.096
	must be taken to ensure the														
	patient's confidentiality														
3.	Sd1.Proper engineering and	14	100	0	0	9	90	1	10	8	100	0	0	2.271	0.321
Infectio	work practice controls should														
n	be in place to reduce exposure														
Prevent	of patient and staff to infectious														
ion And	materials														
			100			10	100				100				1.000
Control	Sd2.Exposure control plans	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	must be established and														
	followed.														
	Sd3.All surgically removed	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	tissue must be considered bio														
	hazardous and be handled;														
	stored, and disposed of in a														
	manner that minimizes the risk														
	of exposure														
4. RH	Sd1.Rh status testing must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Testing	offered to all women														
And	undergoing first-trimester														
RH	abortion														
Immun	Sd2. Rh status must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
oglobuli	documented in all women														
n	undergoing second-trimester														
Admini															
	Abortion.		100				100				100				1.000
stration	Sd3.RH immunoglobulin	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	administration must be offered														
	to RH- women.														
	Sd4.If Rh immunoglobulin is	1	7.1	13	92.	10	100	0	0	8	100	0	0	28.15	<0.001*
	not administered in the facility,				9										*
	one of the following is required														
	:														
	(a) Informed waiver signed by														
	_ · · ·														
	a patient who declines Rh														
	immunoglobulin.														
	(b)Documentation of other														
	arrangements for														
	administration.														
	l	l .	1	l	1	L	l	l	1	Ь	l	Ь	l .	1	1

This table clarifies that the health insurance &the old general hospitals were competent achieved (100%) while the international hospital was achieved (90% and 80%) criteria of (Sd1&Sd2) respectively which related to "Who can provide abortion "and there were no significance differences among all studied hospitals . Also it presents that all studied hospitals were competent achieved (100%) all criteria of standard (1, 3, 5) ,also ,this table found that health insurance and old general hospital hadn't achieved standard6 which related to "Patient Education, Counseling and Informed Consent" and there were no significance differences among all studied hospitals .

The table presents that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2, 3), except the international hospital was achieved (90%) with just item (1) which related to "Infection Prevention and Control" and there were no significance differences among all studied hospitals, and presents that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2, 3, 4) except the health insurance hospitals weren't achieved (92.9) all criteria of standard (4) which related to ". RH Testing and RH

Immunoglobulin Administration " and there were highly significance differences among all studied hospitals (P<0.001**) regarding the fourth item.

Table3: Frequency distribution of observational practice among studied Mansoura governmental hospitals regarding (limited sonography in abortion care and early medical abortion care.)

hospit	als regarding (limited son	ogra	phy i	n abo	rtion	care	and	early	med	ica	abo	rtio	n car	e.)	
Item	Number of	Healt	h insura	nce		Inter	national			Old	l genera	ıl		Chi squa	are test
	Standard	N=14				N=10				N=	8				
		Done		Not d	one	Done		Not d	one	Do	ne	Not	t		
												doı	ne		
		N	%	n	%	N	%	N	%	N	%	n	%	X2	p
5.	Sd1.Staff members who perform	13	92.	1	7.1	0	0	10	100	0	0	8	100	28.15	<0.001*
Limited	ultrasound exams and clinicians	13	92.	1	/.1	"	U	10	100	١ ،	U	0	100	20.15	*
Limited	who interpret those exams must														
Sonogr	either show documentation of														
aphy In	proficiency or complete a														
Abortio	program of training. Training														
n Care	must include a period of														
	supervision. Documentation of														
	this training must be maintained.														
	Sd2.A system of proficiency	13	92.	1	7.1	1	10	9	90	0	0	8	100	24.57	<0.001*
	review must be in place for staff members who perform ultrasound		9												*
	exams and clinicians who														
	interpret those exams.														
	Sd3.Patients must be informed of														
	the purpose and limitations of the	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	ultrasound exam in the abortion														
	care setting. Patients must be														
	informed of the sonographic														
	diagnosis, including early														
	pregnancy failure.														
	Sd4.The findings of all ultrasound	14	100	0	0	1	10	9	90	3	37.	5	62.	20.72	<0.001*
	exams and the interpretation of	1.	100				10				5		5	4	*
	those findings must be										-		-		
	documented in the medical														
	record. This documentation must														
	also include the name(s) of staff														
	who performed and interpreted the exam														
	Sd5. A limited first-trimester														
	ultrasound exam must include the	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	following:														
	1) A full scan of the uterus in both														
	the transverse and longitudinal														
	planes to confirm an intrauterine														
	pregnancy.														
	2) Evaluation of pregnancy														
	number.														
	3) Measurement to document														
	gestational age.														
	4) Evaluation of pregnancy land														
	marks such as yolk sac or the														
	presence or absence of fetal														
	embryonic cardiac activity Sd6.A limited second-trimester														
	ultrasound exam must include the	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	following:														
	. ,	<u> </u>							<u> </u>	<u> </u>		<u> </u>			

	1) Views to document intrauterine						ı	ı							
	·														
	location of the pregnancy. 2) Evaluation of fetal number.														
	· ·														
	3) Fetal measurements to														
	document gestational age.														
	4) Evaluation of fetal cardiac														
	activity.														
	5) Placental location.														
	Sd7.Ultrasound equipment must	1	7.1	13	92.	1	10	9	90	0	0	8	100	0.792	0.673
	be properly maintained	1	/.1	13	92.	1	10	,	90	U	U	0	100	0.792	0.073
					9										
	Sd8.Ultrasound transducers must	1	7.1	13	92.	0	0	10	100	0	0	8	100	1.327	0.515
	be disinfected between patients				9										
	Sd1.Initial evaluation must														
6. Early	include pertinent medical history	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Medical	-														
Abortio	Sd2. The patient must be informed	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
n	about the efficacy, side effects,														
	and risks, especially excessive														
	bleeding and infection.														
	Sd3.The patient must be informed	14	100	0	0	9	90	1	10	8	100	0	0	2.271	0.321
	of the need to ensure the success		200		Ü		, ,	_	10		200			21271	0.021
	of the abortion and of the														
	teratogenicity associated with the														
	medications to be used.														
-	Sd4.The patient must be informed			_	_			_	_	_		_	_	_	
	that a uterine aspiration will be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	recommended if medical abortion														
	fails														
	Sd5.Patient instructions must														
	include written and oral	0	0	14	100	3	30	7	70	0	0	8	100	7.283	0.026**
	information about use of														
	medications at home and														
	symptoms of abortion														
	complications.														
	Sd6.The facility must provide an	0	0	14	100	3	30	7	70	0	0	8	100	7.283	0.026**
	emergency contact service on a	-	-								-				
	24-hour basis and must offer or														
	assure referral for uterine														
	aspiration if indicated.														
	Sd7.Confirmation of pregnancy		400			_		_					400		0.0044
	must be documented. Gestational	14	100	0	0	3	30	7	70	0	0	8	100	23.56	<0.001*
	age must be verified to be within													7	*
	the limit of the facility medical														
	abortion protocol.														
	Sd8.If an ultrasound has been														
	performed and an intrauterine	14	100	0	0	0	0	10	100	0	0	8	100	32.00	<0.001*
	•														*
	gestation has not been confirmed,														
	ectopic pregnancy must be														
	considered. Additional evaluation														
	should follow a protocol as														
	outlined in CPG 8. Management														
	of pregnancy of uncertain														
	location. Starting the medical														
	abortion regimen does not need to														
	be delayed.														
	Sd9.Combined mifepristone"			_					_	_		_	_		4.055
	misoprostol regimens are	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	ineffective than misoprostol alone														
	- · · · · · · · · · · · · · · · · · · ·		l	l		l	l	l	l	1	1		1	l	
	or methotrexate and misoprostol.														

An evidence based medical abortion regimen must be used.														
Sd10.Patient comfort level during the medical abortion process must be considered.	2	14. 3	12	85. 7	0	0	10	100	0	0	8	100	2.743	0.254
SdI1.Success of the medical abortion must be assessed by ultrasonography, HCG testing, or by clinical means in the office or by telephone. If the patient has failed to follow-up as planned, clinic staff must document attempts to reach the patient. All attempts to contact the patient (phone calls and letters) must be documented in the patient's medical record.	0	0	14	100	1	10	9	90	0	0	8	100	2.271	0.321

Table (3) presents that the international hospital &old general hospital hadn't achieved (100%) all criteria of standard (1) & hadn't achieved (90% &100%) respectively all criteria of standard (2,7,8) which related to ". Limited sonography in abortion care " and there were highly significance differences among all studied hospitals (P<0.001) about standard (1, 2) but no statistical differences regarding standard (7, 8). Also it shows that all studied hospitals were competent achieved (100%) all criteria of standard (3, 5, 6) which related to and there were no significance differences among all studied hospitals.

In addition it presents also that the health insurance hospital was competent achieved (100%) and the international hospital hadn't achieved (90%) and the old general hospital hadn't achieved (62.5%) all criteria of standard (4) which related to ". Limited Sonography in Abortion Care " and there were highly significance differences among all studied hospitals (P<0.001). Also it presents that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2, 4, 9) and there weren't significance differences among all studied hospitals. Also the health insurance hospital &the old general hospital were competent achieved (100%) and the international hospital was achieved (90%) all criteria of standard (3) and there were no significance differences among all studied hospitals. Also the international hospital hadn't achieved all criteria of standard (5, 6) which related to "Early Medical Abortion" and there was significance differences among all studied hospitals (P=0.026).

In addition the international hospital and the old general hospital hadn't achieved (100%) and the health insurance hospital was competent achieved (100%) all criteria of standard (7, 8) which related to "Early Medical Abortion" and there was highly significance differences among all studied hospitals (P<0.001**). And also the all studied hospitals hadn't achieved all criteria of standard (10, 11) which related to "Early Medical Abortion" and there was no significance differences among all studied.

Table4: Frequency distribution of observational practice among studied Mansoura governmental hospitals regarding (First- Trimester surgical abortion and management of pregnancy of uncertain location:

Item	Number of	Healt	h insura	nce		Interi	national			Old	l genera	ıl		Chi squa	are test
	Standard	N=14				N=10				N=	8				
		Done		No		Done		Not		Do	ne	Not			
		N	%	n	%	N	%	n	%	n	%	n	%	X2	p
7. First- Trimest	Sd1.Pertinent medical history must be obtained	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
er Surgica	Sd2.Pregnancy must be confirmed and gestational age must be assessed.	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
l Abortio n	Sd3.Appropriate initial evaluation must be performed. Baseline blood pressure and pulse must be obtained for all patients	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	Sd4.All instruments entering the uterine cavity must be sterile.	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000

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	Sd5.The cervix should be appropriately dilated for the gestational age.	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	Sd6.First-trimester surgical abortion must be performed by aspiration of the uterus, not by	14	100	0	0	3	30	7	7	0	0	8	100	23.56	<0.001*
	sharp curettage.								0					7	*
	Sd7.The procedure and all medications given	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	must be documented.	14	100		v	10	100				100	ľ	Ů	ŭ	1.000
	Sd8.Termination of pregnancy must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	confirmed prior to the woman leaving the Facility or further evaluation must be initiated.														
	Sd9.When insufficient tissue or incomplete														
	products of conception are obtained, the	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	patient must be re-evaluated.														
	Sd10.If insufficient tissue is present after	2	14.	1	85.	2	20	8	8	0	0	8	100	1.698	0.428\
	adequate patient evaluation, ectopic pregnancy		3	2	7	2	20	0	0	"	U	0	100	1.090	0.426\
	must be considered, and the patient must be														
	informed of symptoms and dangers of ectopic														
	pregnancy. Sd1. The patient's medical history must be														
8.	evaluated in order to assess for the risk of	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Manage	ectopic implantation in early pregnancy.														
ment	Certain signs and symptoms, such as vaginal														
Of Pregna	bleeding, pelvic pain, and/or failure to identify														
ncy Of	a definitive intrauterine pregnancy.														
Uncerta	Sd2. Each facility must have a written protocol	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
in	to evaluate ectopic pregnancy. All relevant													-	
Locatio	staff at the site must be familiar with the														
n	protocol. Sd3.All patients with a pregnancy of uncertain														
	location must be informed of the Options for	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	evaluation and management. The symptoms														
	and dangers associated with ectopic														
	pregnancy, and a plan for when and how to														
	seek emergency medical attention must be														
	reviewed and documented.														
	Sd4.When a medical or aspiration abortion is	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	initiated for a patient with a pregnancy of														
	uncertain location, resolution of the pregnancy must be verified and documented. This may be														
	demonstrated by either the examination of														
	aspirated tissue or by following serial beta-														
	HCG levels according to evidence-based														
	regimens														
	Sd5. Patient follow-up must continue until one	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	of the following:														
	(1) The diagnosis of ectopic pregnancy has been excluded;														
	(2) Clinical resolution of a possible ectopic														
	pregnancy has been ensured; or														
	(3) Transfer of care to an appropriate provider														
	has been made and documented.														
	Sd6. Patients experiencing symptoms	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	suspicious for ruptured ectopic pregnancy		200				130	,	,		230			•	2.000
	must be evaluated emergently.														

Table (4) presents that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2, 3, 4, 5, 7, 8, 9) which related to "First- Trimester Surgical Abortion" and there weren't significance differences among all studied hospitals. Also presents that the health insurance hospital was competent achieved (100%)

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while the old general hospital hadn't achieved all criteria of standard (6) which related to "First- Trimester Surgical Abortion" and there was highly significance differences among all studied hospitals (P<0.001**). Also table shows that the all studied hospitals hadn't achieved (85.7% &80% &100%) respectively all criteria of standard (10) which related to "First- Trimester Surgical Abortion" and there weren't significance differences among all studied hospitals. And this table shows that all criteria were achieved among all studied hospitals and there were no significance differences regarding SD (1, 2, 3, 4, 5, and 6) which related to "Management of Pregnancy of Uncertain Location".

Table5: Frequency distribution of observational practice among studied Mansoura governmental

hospitals regarding (Abortion by Dilation and Evacuation and second trimester induction abortion).

Item	Number of		h insura		1011		national		. 1111	Old	l genera	ıl	1011	Chi so	
	Standard	N=14				N=10				N=	_			test	
		Done		No	t	Done		No	t	Do	ne	No	t		
				doi	ne			doi	ne			doı	ne		
		N	%	n	%	n	%	n	%	N	%	n	%	X2	р
9.	Sd1: Pertinent medical history must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Abortio	obtained and relevant physical examination														
n By	must be performed.														
Dilation	Sd2: Gestational age must be verified by	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
And	ultrasonography, using a consistent and														
Evacuati	published table of fetal measurements, prior to														
on	the termination of a pregnancy clinically														
	estimated to be more than 14 weeks from														
	LMP.														
	Sd3: The patient must be appropriately	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	evaluated and prepared for the procedure														
	Sd4: When osmotic dilators, misoprostol,	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	and/or other cervical ripening agents are used,														
	a plan for emergency care prior to the														
	evacuation procedure must be in place and														
	communicated to the patient.														
	Sd5: Appropriate dilation of the cervix must	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	be obtained gently and gradually.														
	Sd6: All instruments entering uterine cavity	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	must be sterile.														
	Sd7: Evidence_ base practices must be used to	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	lower the risk of complications.														
	Sd8: Uterotonics must be available to aid in	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	control of uterine bleeding													-	
	Sd9: Examination of the uterine contents must	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	be performed to identify the placenta and all		100			10	100				100				11000
	major fetal parts.														
10.	Sd1: Pertinent medical history must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Second-	obtained and relevant physical examination		200	"		-7	130	"	"		130		"		1.000
Trimest	must be performed.														
er	Sd2.Gestational age must be verified by	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Inductio	ultrasonography, using a consistent and														
n	published table of fetal measurements, prior to														
Abortio	the termination of a pregnancy clinically														
n	estimated to be more than 14 weeks from														
	LMP.														
	Sd3.The patient must be appropriately	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	evaluated and prepared for the procedure.														
	Sd4.Evidence-based regimens of medical	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	induction must be used.														
	Sd5.Once regular contractions have been	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	confirmed, patients must be observed by														
	health care staff trained to monitor														
	contractions and expulsion, and who can														
	- '	<u> </u>	<u> </u>	<u> </u>			<u> </u>		<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	

recognize emergent situations.														
Sd6.A trained clinician must be available from	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
initiation of induction until post abortion														
discharge.														
Sd7.Access to surgical management or	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
appropriate referral must be available in the														
event that surgical intervention is required.														
Sd8.Uterotonics must be available to aid in	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
control of uterine bleeding.														
Sd9.Examination of the uterine contents must	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
be performed to identify the placenta and all														
major fetal parts.														

This table clarifies that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2, 3, 4, 5, 6, 7, 8,and 9) of abortion by dilation and evacuation" and there weren't significance differences among all studied hospitals. Also it presents again that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2, 3, 4, 5, 6, 7, 8, 9) which related to "Second-Trimester Induction Abortion" and there weren't significance differences among all studied hospitals.

Table6: Frequency distribution of observational practice among studied Mansoura governmental Hospitals regarding (Analgesia and Sedation).

Standard Sd1. When minimal, moderate, deep	N=14 Done		Not d		N=10				N=	8				
Sd1. When minimal, moderate, deep			Not d											
Sd1. When minimal, moderate, deep	N			lone	Done		Not d	lone	Do	ne	No	t		
Sd1. When minimal, moderate, deep	N										doı	ne		
Sd1. When minimal, moderate, deep	- 1	%	N	%	N	%	n	%	n	%	n	%	X2	p
	14	100	0	0	3	30	7	70	0	0	8	100	23.567	<0.00
sedation or general anesthesia is to be														1**
given, patients must be given information														
about the risks, benefits, and side effects														
of the medications to be used.														
Sd2.Prior to moderate sedation, a pre-	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
sedation evaluation of the patient must														
take place.														
Sd3.No additional evaluation is needed	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
prior to Para Cervical block and/or														
NSAID administration.														
Sd4.The supervising practitioner must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
immediately available when sedation is														
Administered.														
Sd5.The cervix should be appropriately	14	100	0	0	3	30	7	70	0	0	8	100	23.567	<0.00
dilated for the gestational age.														1**
Sd6.The potential need for intravenous	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
access must be considered prior to														
administering any level of sedation.														
Sd7.Pulse oximetry, with appropriate	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
alarms, must be employed when														
moderate or Deeper levels of sedation are														
used.														
Sd8.When sedation is provided,	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
monitoring must be adequate to detect														
the respiratory, cardiovascular, and														
neurological effects of the drugs being														
administered, and this monitoring must														
be documented.														
Sd9.Supplemental oxygen must be used	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
with deep sedation and general														
anesthesia.														
	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presedation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be documented. Sd9.Supplemental oxygen must be used with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a pre- sedation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be documented. Sd9.Supplemental oxygen must be used with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presedation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be used with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presedation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be used with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presedation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be used with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presedation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately 14 100 0 0 3 dilated for the gestational age. Sd6.The potential need for intravenous 14 100 0 0 10 administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, 14 100 0 0 10 monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be used 14 100 0 0 10 with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presedation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be used with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presedation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be used with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presetation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be used 14 100 0 10 10 100 0 0 0 0 0 0 0 0 0 0	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presetation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be used with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presetation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately dilated for the gestational age. Sd6.The potential need for intravenous access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate alarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be used with deep sedation and general	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presetation evaluation of the patient must take place. Sd3.No additional evaluation is needed 14 100 0 0 10 100 0 0 8 100 0 0 0 0 0 0 0	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presedation evaluation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be immediately available when sedation is Administered. Sd5.The cervix should be appropriately l4 l00 0 0 10 l00 0 0 8 l00 0 0 and little for the gestational age. Sd6.The potential need for intravenous l4 l00 0 0 l0 l0 l00 0 0 8 l00 0 0 access must be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate lalarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, l14 l00 0 0 l10 l00 0 0 8 l00 0 0 0 0 0 0 0 0 0 0 0 0	about the risks, benefits, and side effects of the medications to be used. Sd2.Prior to moderate sedation, a presectation of the patient must take place. Sd3.No additional evaluation is needed prior to Para Cervical block and/or NSAID administration. Sd4.The supervising practitioner must be medicately available when sedation is Administered. Sd5.The cervix should be appropriately prior to para to be considered prior to administering any level of sedation. Sd7.Pulse oximetry, with appropriate planarms, must be employed when moderate or Deeper levels of sedation are used. Sd8.When sedation is provided, monitoring must be adequate to detect the respiratory, cardiovascular, and neurological effects of the drugs being administered, and this monitoring must be be documented. Sd9.Supplemental oxygen must be used with deep sedation and general

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Sd10.When moderate sedation or deeper	14	100	1 0	0	10	100	1 0	1 0	8	100	0	0	0	1.000
is provided, a person other than the							_	-				-		
clinician performing the procedure, and														
who is trained to monitor appropriate														
Physiological parameters must be														
present. This person must not be														
performing Duties other than monitoring														
the patient.														
Sd11.The practitioner administering deep	1	7.1	13	92.	10	100	0	0	8	100	0	0	28.15	<0.00
sedation or general anesthesia must not				9										1**
be the practitioner performing the														
abortion.														
Sd12.Any individual responsible for	1	7.1	13	92.	0	0	10	100	0	0	8	100	1.327	0.515
administering, a patient receiving any				9										
level of sedation (BLS) certification.														
Sd13. When moderate sedation is	2	14.	12	85.	10	100	0	0	8	100	0	0	24.686	<0.00
administered, there should be at least one		3		7										1**
individual with documented airway skills														
in the procedure room.														
Sd14.The practitioner administering deep	0	0	14	100	7	70	3	30	8	100	0	0	23.567	<0.00
sedation or general anesthesia must				100	,					100			20.007	1**
adhere to established professional														1
standards of care.														
			- 12	0.2			10	100				100	1 225	0.515
Sd15.N2O must be self-administered by	1	7.1	13	92.	0	0	10	100	0	0	8	100	1.327	0.515
the patient or by a qualified anesthesia				9										
provider.														
Sd16.The provision of N2O must follow	0	0	14	100	0	0	10	100	0	0	8	100	0	1.000
guidelines for patient monitoring for														
moderate sedation.														
Sd17. Equipment for the delivery of	12	85.	2	14.	0	0	10	100	0	0	8	100	24.686	<0.00
N2O/O2 must:		7		3										1**
(a) Provide a concentration of N2O of no														
more than 70% inspired.														
(b) Provide a minimum of 30% O2.														
(c) Be checked and calibrated regularly.														
Sd18.Functioning equipment and current	12	85.	2	14.	1	10	9	90	0	0	8	100	21.162	<0.00
medications must be available on-site to		7		3										1**
handle medical emergencies														
Sd19.In settings where benzodiazepines	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
and opioids are used, appropriate	**	100		"	10	100				100	"	Ü		1.000
antagonists, bronchodilators, and bag-														
valve masks capable of delivering														
supplemental oxygen must be available.														
Sd20.In settings where deep sedation and	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
general anesthesia are used, it is expected														
that providers maintain the appropriate														
medication and equipment required for														
an anesthesia emergency.														
1	1	1	L	1	l		1		L		<u> </u>		<u> </u>	1

This table shows that more than half of standard criteria competent achieved (100%) by all studied hospitals regarding analgesia and sedation. Also there were highly significant difference among studied hospitals regarding standard (1, 5, 11,13,14,17 and 18).

Table7: Frequency distribution of observational practice among studied Mansoura governmental hospitals regarding (Use of antibiotics in abortion& Complications: Bleeding, complication: perforation &post procedure care& emergency procedures & evaluation of evacuated uterine contents).

Item	Number of	Health ins	Health insurance		1	Old genera	al	Chi squar	re test
	Standard	N=14	N=14			N=8			
		Done	Not done	Done	Not	Done	Not done		

								do	ne						
		N	%	N	%	N	%	n	%	N	%	n	%	X2	P
12. Use Of	Sd1.Routine antibiotic prophylaxis	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Antibiotics	must be used for surgical abortion.														
In Abortion	Sd2.Diagnosed infection must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	appropriately treated.														
13.	Sd1.All facilities must have a	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Complicatio	protocol for the management of														
ns: Bleeding	acute hemorrhage.														
	Sd2.The following items must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	included in the protocol:														
	(1) Establishment of intravenous														
	access														
	(2) Administration of uterotonics.														
	(3) Evaluation of the cause and/or														
	source of bleeding.														
	(4) Defined staff roles.														
	(5) Emergency supplies that will be														
	readily available.														
	(6) Methods for conducting a hospital transfer, if the bleeding does														
	not respond to therapeutic measures														
	or if the patient is hemodynamic ally														
	unstable.														
	Sd3.The facility must have at least	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	two uterotonics and/or mechanical	14	100			10	100	U			100				1.000
	methods of controlling bleeding.														
14.	Sd1.If in the clinician's judgment, an	14	100	0	0	7	70	3	30	8	100	0	0	7.283	0.026**
Complicatio	instrument passes farther than	1.	100			,	, ,				100			71200	0.020
n:	expected, then uterine perforation														
Perforation	must be considered.														
	Sd2.If a perforation occurs, even if	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	the patient is asymptomatic, close														
	observation and follow-up must be														
	done, according to the facility's														
	established protocol.														
	Sd3.The patient must be hospitalized	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	for definitive care if:														
	(a) Intra-abdominal viscera are														
	detected in the uterine cavity, cervix,														
	vagina, suction tubing, or on tissue														
	examination.														
	(b) Fetal parts are detected in the														
	abdominal cavity.														
	(c) Expanding intra-abdominal or														
	retroperitoneal hematoma is														
	detected.														
	(d) Hemodynamic instability is														
15 P4	present.	1.4	100			10	100			6	100				1 000
15. Post- Procedure	Sd1.All patients must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Procedure Care	continuously observed during the recovery period by a health care														
Care	worker trained in post-procedure														
	care.														
	Sd2.Patients who received sedation	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	or exhibit signs of instability should	17	100			10	100				100		"		2.500
	remain in the care of an														
	appropriately trained individual														
	until no longer at risk for														
			l		<u> </u>	l					<u> </u>		l		

	Hemodynamic instability or		1	I	1		1	ı		I	l	l		1	1
	respiratory depression.														
	Sd3.A clinician must remain in the	1	7.1	13	92.	0	0	1	100	0	0	8	100	1.327	0.515
	facility until all patients are				9			0							
	medically stable.														
	Sd4.The following criteria must be	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	documented prior to discharge: the														
	patient must be ambulatory with a														
	stable blood pressure and pulse, and														
	bleeding and pain must be														
	controlled.														
	Sd5.The patient must be given oral	0	0	14	100	7	70	3	30	8	100	0	0	23.56	<0.001*
	and written instructions outlining													7	**
	what to expect post-procedure, self-														
	care, and signs and symptoms of														
	complications.														
	Sd6.The facility must provide an	0	0	14	100	0	0	1	100	0	0	8	100	0	1.000
	emergency contact service on a 24-							0							
	hour basis, where calls are triaged in														
	accordance with written policies. A														
	recorded message alone is														
	unacceptable.														
	Sd7.Any non-clinician involved with	13	92.	1	7.1	0	0	1	100	0	0	8	100	28.15	<0.001*
	first-call triage must be trained to		9					0							**
	take a post abortion Health history														
	and follow clear written guidelines														
	indicating when Immediate														
	consultation with a clinician is														
	indicated.														
	Sd8.Any patient who gives a history	1	7.1	13	92.	2	20	8	80	0	0	8	100	21.84	<0.001*
	suggestive of a post-procedure				9									6	**
	complication must have access to a														
	clinician. The facility must establish														
	a pathway for physician referral if														
	indicated.														
16.	Sd1.When abortion procedures are	14	100	0	0	0	0	1	100	0	0	8	100	32.00	<0.001*
Emergency	being performed, at least one							0							*
Procedures	medical staff member with health														
	care provider level basic life support														
	(BLS) training must be present.														
	Sd2.Protocols for the management	0	0	14	100	10	100	0	0	8	100	0	0	32.00	<0.001*
	of medical emergencies must be in														*
	place. These protocols must include														
	indications for emergency transport														
	and written, readily available														
	directions for contacting external														
	emergency assistance (e.g., an														
	Ambulance).														
17.	Sd1.Termination of pregnancy must	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Evaluation	be confirmed prior to the woman							ľ	-			`			
Of	leaving the Facility or further														
Evacuated	evaluation must be initiated.														
Uterine	Sd2.When insufficient tissue or	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
Contents	incomplete products of conception							ľ	-			`			
	are obtained, the patient must be re-														
	evaluated.														
	Sd3.If insufficient tissue is present	14	100	0	0	10	100	0	0	8	100	0	0	0	1.000
	after adequate patient evaluation,	17	100	0	"	10	100	"	"	9	100	"	0		1.000
	ectopic pregnancy must be														
	eccopic pregnancy must be														

considered, and the patient must be							
informed of symptoms and dangers							
of ectopic pregnancy.							

This table presents that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2) which related to "Use of Antibiotics in Abortion" and there weren't significance differences among all studied hospitals. Also this table presents again that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2, and 3) which related to "Complications: Bleeding " and there weren't significance differences among all studied hospitals. This table shows that the health insurance hospital &the old general hospital were competent achieved (100%) all criteria of standard (1, 2, and3) while the international hospital was competent achieved (70%) all criteria of standard (1) which related to "Complication: Perforation " and there was significance differences among all studied hospitals (P=0.026) regarding standard 1. And also This table presents that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2, 4) which related to "Post-Procedure Care" and there weren't significance differences among all studied hospitals. Also the same result found in the old general hospital regarding to standard 5 and there was highly significance differences regarding to standard 5 (P<0.001).

Also this table presents that the old general hospital & the international hospital hadn't achieved (100%) and the health insurance hospital was competent achieved(92.9%) all criteria of standard (7) which related to "Post-Procedure Care" and there were highly significance differences among all studied hospitals (P<0.001). While, on the opposite side the studied hospitals were not achieved (100%) of standard 6, also the majority give near to this result regarding standard 3,8 of post procedure and there was highly significance differences regarding to standard 8(P<0.001). This table illustrates that the health insurance hospital was competent achieved (100%) and the other hospitals hadn't achieved(100%) all criteria of standard (1) which related to "Emergency Procedures" and there were highly significance differences among all studied hospitals (P<0.001**). Also the international hospital and the old general hospital were competent achieved (100%) &while the health insurance hadn't achieved (100%) all criteria of standard (2) which related to "Emergency Procedures" and there were highly significance differences among all studied hospitals (P<0.001**). The table presents that all studied hospitals were competent achieved (100%) all criteria of standard (1, 2, 3) which related to "Evaluation of Evacuated Uterine Contents "and there weren't significance differences among all studied hospitals.

Table 8: The mean score and standard deviation of the standards among the nurses in the health insurance, international and old general hospitals.

Table8 shows results related to the total mean score and standard deviation of achievement among studied hospitals regarding for abortion performance standard.

_	n of items	Health insurance	International	Old general					
		Mean ±SD	Mean ±SD	Mean ±SD	F	P			
S1: Who can provide abortion	2	2 ±0	2.3 ±0.48	2 ±0	4.272	0.024*			
S2: Patient Education, Counseling and Informed Consent	6	8 ±0	7.8 ±0.79	8 ±0	0.712	0.499			
S3: Infection Prevention And Control	3	3 ±0	3.1 ±0.32	3 ±0	1.108	0.344			
S4: RH Testing And RH Immunoglobulin Administration	5	6.86 ±0.53	5 ±0	5 ±0	106.031	<0.001**			
S5: Limited Sonography In Abortion Care	15	17 ±0.78	19.7 ±0.95	20.25 ±1.98	23.153	<0.001**			
S6: Early Medical Abortion	11	14.86 ±0.36	16.1 ±1.52	17 ±0	15.936	<0.001**			
S7: First- Trimester Surgical Abortion	10	10.86 ±0.36	11.5 ±0.85	12 ±0	12.364	<0.001**			
S8: Management Of Pregnancy Of Uncertain Location	8	8 ±0	8 ±0	8 ±0	-	-			
S9: Abortion By Dilation And Evacuation	9	9 ±0	9 ±0	9 ±0	-	-			

S10: Second-Trimester Induction Abortion	9	9 ±0	9 ±0	9 ±0	-	-
S11: Analgesia And Sedation	22	28.21 ±0.58	29.9 ±0.32	30 ±0	65.142	<0.001**
S12: Use Of Antibiotics In Abortion	2	2 ±0	2 ±0	2 ±0	-	-
S13: Complications: Bleeding	8	8 ±0	8 ±0	8 ±0	-	-
S14: Complications: perforation	6	6 ±0	6 ±0	6 ±0	4.272	0.024*
S15: Post-Procedure Care	8	11.93 ±0.47	12.1 ±0.32	12 ±0	0.649	0.530
S16: Emergency Procedures	3	4 ±0	4 ±0	4 ±0	-	-
S17: Evaluation Of Evacuated Uterine Contents	2	2 ±0	2 ±0	2 ±0	-	-
Total	129	150.71 ±0.91	155.8 ±2.29	157.25 ±1.98	45.195	<0.001**

From the table it can be noted that old general Hospital was achieved a higher mean score and standard deviation 157.25 ± 1.98 among all studied hospitals. Also from the table, it can be seen that, there were highly significance differences (P<0.001**) among all studied hospitals.

III. Discussion:

The current study aimed to compare between nursing performance and standard of care for aborted woman at Mansoura governmental hospitals. Concerning to the research question (Are health care provider's practices for management of abortion at Mansoura governmental hospitals consistency with performance standards for abortion?). The result was significantly support to answer of research question. In relation to item one which related to "Who can provide abortion" the findings of present study shows that nurses in the health insurance & the old general hospital were competent achieved all standards. These findings may be due to the experiences and the knowledge of health care providers. These findings are consistent with Berer, (2009) who confirmed the similar result that experience of the individual permit to provide competent care also it is safe and beneficial for suitably trained mid-level health-care providers to provide first-trimester vacuum aspiration and medical abortions and to treat incomplete abortions.

According to the current study in relation to item two which related to "Patient education, counselling and informed consent" The findings of present study about nurses showed that, the all studied hospitals were competent achieved most of standard among the health insurance and old general hospital. While there wasn't performance to standard 2(there must be documentation that the patient affirms that she understands the procedure....) and standard 6(all reasonable precautions must be taken to ensure patient confidentiality) which related to patient education, counselling and informed consent" this may be due to the hospital policy in managing abortion and the rest of studied hospitals had emergency admission which characterized by caseload long time all over the hot days.

Concerning item three which related to "Infection prevention and control" The findings of current study highlighted nurses presented that, all studied hospitals were competent achieved all standard except the new general hospital was achieved most of all criteria of standard one (proper engineering and work practice controls should be in place to reduce exposure of patient.....) for nursing staff. This results may be due to the nurses follow up the infection controls plan and also presence of more round and frequent supervision about infection control committee.

These findings were in the same line to **Hussein et al., (2011)** who has highlighted classes related to infection manage and maternal mortality reduction. First, despite restricted proof on powerful contamination manage measures at some stage in abortion and shipping and from low aid settings, it seems that education, organizational change and satisfactory development interventions have to be delivered, confirming the want for a health structures method to lessen maternal mortality, in particular on the subject of sepsis. Second is the need to enhance our information of organizational and behavioral trade to efficaciously implement contamination manage measures?

While these findings were in contrast with **Friday et al.**, (2012) Who reported that the results of this study suggest the need for improved record-keeping procedures, the development of appropriate policies and protocols for infection control and staff training on infection control in maternity care facilities in Edo State.

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Concerning item four which related to "Rh testing and Rh immunoglobulin Administration", the nurses at all studied hospitals were competent achieved standard (1, 2, 3, 4) except the health insurance hospital weren't achieved standard (4) (documentation of other arrangement for administration) and there was highly significance differences among all studied hospitals. This findings may be as a result of international policy for each hospital and it is very important issue for the mother and the baby. These result are consistent with **Fung et al., (2003)** who reported that the results of study suggest decreased incidence of Rh alloimmunization and reduced practice variation with regards to immunoprophylaxis strategies in Canadian women.

Concerning item five which related to "Limited Sonography in Abortion care ", nurses at all studied hospitals were achieved standard (3, 5, 6) and there was no highly significance differences among all studied hospitals, these result are consistent with **Pricilla et al., (2014)** Who found that, it is useful to use obstetric ultrasound in the early detection of missed abortions and twin pregnancies, and enables appropriate treatment of post-term pregnancies in situations where women do not forget the last menstrual period. It is possible to get good results by adequate training of a generalist physician in obstetric ultrasound. This training needs to be defined and have national quality assurance.

In addition all studied hospitals hadn't achieved standard (1, 2, 4, 7, 8) and there were highly significance differences among all studied hospitals regarding to standard (1, 2, 4). These result because each hospital has special policy, there are lack of training in obstetric ultrasound training program me and over load of cases, also poor provision about infection control.

As regards to item six which related to "Early medical abortion" the results of the current study about nurses showed that all studied hospitals were achieved more than half of the standard which related to "Early medical abortion" there was highly significance differences among all studied hospitals. These findings in agreement with **Ian et al.**, (2010) who mentioned that complications of first-trimester abortion care rates in family medicine clinical sites were very little and within the same rate available for obstetrics-gynecology and specialty abortion sites, expect the missed ectopic pregnancy, expected complications were treated by family physicians through their practice without support from emergency services or those of specialists. Quality improvement systems and clinical protocols that decrease the danger of missed ectopic pregnancy are vital to early abortion care. This study confirms the safety and efficacy of early abortion care by family physicians. In addition family physicians who offer abortion care promote continuity of care and the patient-centered medical home and may help to reduce abortion provider shortages across the United States more over it is done to safe mother health so it can be reduced maternal mortality.

Concerning item seven which related to "First Trimester Surgical Abortion" the present study presented that all studied hospitals completely achieved all standards except standard 6 and 10, this may due to hospital policy in managing abortion and there was highly significance differences among all studied hospitals, regarding to standard 6. These findings are consistent with **Lyus et al.,(2009)**, who found that, Manual Vacuum Aspiration(MVA) for first-trimester abortion is safe and effective. There are several published reports of MVA abortion being successfully incorporated into established primary care practices and family medicine residency training programs. Incorporating MVA abortion care into primary care settings offers improved continuity of care and fosters the goals of the Future of Family Medicine Project, which strives to create a medical home where a "basket of services" is offered to patients.

Also these result is consistent with **Jana et al.**, (2011) who found that management of first trimester pregnancy loss should be firstly included the wishes of the well-informed patient. Expectant or medical management may be useful for hemodynamically stable women with incomplete pregnancy loss. Surgical management should be done in patients who choose it firstly and in those with failed expectant medical management. MVA particularly when performed in the office setting, is less costly and more efficient than EVA in the operating room, but maintains equal or improved safety and efficacy. The addition of ultrasound guidance and antibiotic prophylaxis has been shown to decrease operative complications for either operative approach.

Also these result is consistent with **Alia and Hasan**, (2013) who found that with appropriate procedure training, surgical evacuation of the uterus for the first trimester missed abortion is being associated with low rate of complications, shorter evacuation time, and therefore a shorter length of hospital stay. The procedure seems more suitable for a woman who does not wish to undergo labor discomfort too early.

Concerning item eight which related to "Management of pregnancy of uncertain location" (PUL) nurses at all studied hospitals were competent achieved all standard and there was no significance differences among all studied hospitals, in which consistent with **Journal Turkish German Gynecology Association**, **2013** which found that, the rate of pregnancy of uncertain location occurrence has increased with the increase in the number of early pregnancy units. So, it is important to follow-up the patients diagnosed with PUL until the final diagnosis is concluded. Though the best method for predicting ectopic pregnancy in patients with PUL is the HCG ratio, progesterone is the best indicator for viability. In addition it is consistent with **Sagili and Mohamed**, (2008) who found that asymptomatic pregnancy of unknown location should be managed conservatively as none of the methods to predict the clinical outcome of PUL is 100% accurate. It is advisable to

follow up with HCG and transvaginal ultrasound assessments until the pregnancy is located accurately or intervention becomes necessary. Identified ectopic pregnancy should be managed according to local guidelines. Medical management is reserved for women with asymptomatic persisting PUL. Surgery is indicated if the woman is symptomatic at presentation or during subsequent expectant management.

Concerning item nine which related to "Abortion by dilation and evacuation" the results of the current study about nurses showed that all studied hospitals were competent achieved all standard of abortion care and there weren't significance differences among all studied hospitals. This results may be because it is hospital policy guide line for abortion management.

Concerning item ten which related to "Second trimester induction abortion " the results of the current study about nurses showed that all studied hospitals were competent achieved all standard of abortion care and there weren't significance differences among all studied hospitals ,in which consistent with **Nagaria and Sirmor**,(2012) who found that the second trimester termination of the pregnancy by using combination of mifepristone and misoprostol is a safe, noninvasive, most cost effective method with a high success rate a short induction abortion interval(IAI). Pre-treatment with mifepristone adds to the effectiveness of the misoprostol as an abortifacient. In addition it is consistent with **Drezett et al.**, (2014) who found that it was effective and safe to induce abortion in pregnancies by following protocol analysis of misoprostol. Also it is consistent with **Patel et al.**, (2013) that they found that mifepristone followed by misoprostol was more effective and has a shorter IAI and fewer side effects

In addition to second trimester induction abortion is performed may be as related to medical problems or previous history this is go in the same line with **Mulat et al.**, (2015) who found that although the availability of safe first trimester abortion services ,the incidence of induced second trimester abortion is high . Different delaying factors were preventing the women from getting early abortion services. Women who had faced problems related to logistics, women from rural residence, women who are unable to recognize their pregnancy early, and irregular nature of their menses were found to have an abortion in the second trimester period.

As regards to item eleven which related to "Analgesia and sedation" the current study results showed that more than half of standards were competent achieved by all studied hospitals and there was highly significance differences among all studied hospitals regarding to standards (1,5,11,13,14,17,18). This results may be due to lack of hospitals resources& facilities and lack of health care provider's knowledge and experiences. These findings in agreement with **Ellen et al.,(2012)** who found that there is no complication related to low dose procedural sedation in over 47.000 consecutive non fasting patients who have abortion through 18weeks gestation eliminating the requirements to abortion would decrease stress and unpleasant symptoms without increase in the anesthesia related complication for woman having abortion.

As regards to, item twelve which related to "Use of antibiotics in abortion" the current study results showed that the all studied hospitals were competent achieved all standards and there weren't significance differences among all studied hospitals. This results may be because it is hospital policy and to reduce post abortion infection and complication. These findings in contrast with **Ricardo et al.**, (2011) who mentioned that antibiotics may not be essential after 48 hours of clinical improvement. Also these result is in agreement with **The Cochrane Collaboration**, (2012), who found that it is necessary to offer antibiotic prophylaxis at the first trimester surgical abortion is effective in preventing post-aborted upper genital tract infection. Evidence between trial heterogeneity suggests that the effect might not apply to all settings, population groups or interventions.

In addition to the result is in agreement with **Wendy**, (2012) who reported that antibiotic prophylaxis prior to surgical abortion using universal metronidazole, with selective azithromycin for women meeting criteria for a higher risk of infection, was associated with a low rate of postoperative infection among those for whom follow-up information is available. This regimen offers the advantages of observed single-dose treatment. Prospective evaluation including outcome assessment for a higher proportion of the study population is warranted. As regards to, item thirteen which related to "complications: bleeding" the current study results of nurses showed that the all studied hospitals were competent achieved all standard and there weren't significance differences among all studied hospitals. This results may be because years of experiences and hospital policy of abortion complication management.

As regards to, item fourteen which related to "complications: perforation" the current study results of nurses showed that the all studied hospitals were achieved all standard and there was significance differences among all studied hospitals. This results may be related to hospital policy for abortion complication management and complains of nurses with hospital policy.

As regards to, item fifteen which related to "Post procedure of care" the current study results showed that the all studied hospitals were competent achieved less than half of standard. Also, there was highly significance differences among all studied hospitals regarding to standard (5, 7). These result is due to decrease the capacity of healthcare providers to deliver post abortion care and also due to decrease post abortion care health education programme. These findings in agreement with **Arambepola et al.**, (2014) who mentioned that

although equitable emergency treatment of post-abortion complications, there were deficiencies with regards to provision of post-abortion counselling, education and family planning services among women seeking hospital care following unsafe abortion. Their dissatisfaction on the care during hospital stay was largely related to discrimination by care-providers based on their abortion status. Integration with the public health network was inadequate with no mechanism for follow-up care.

These findings in agreement with **Ansari et al.**, (2015) who mentioned while designated emergency obstetric facilities in Afghanistan generally have most of the supplies and equipment needed for post abortion care, this study shows that the capacity of healthcare providers to deliver post abortion care is limited.

Also these result is in consistent with **Tesfaye and Oljira**, (2013) who found that the interaction of patients and service providers was satisfactory. However, from a clinical service delivery stand point, important medical information on danger signs, follow-up needs of post abortion clients and care associated pain management were neglected by most of the health professionals. Almost all of the health facilities had basic and appropriate medical equipment and supplies required for providing post abortion services. A majority of the service providers have taken training that is not up to date and focus on general management of post abortion management clients. Also it is in the same line with **Demtsu et al.**, (2014) who found that patient satisfaction is little in addition when providing counseling and reassuring clients, there is refreshments trainings shortage and there are shortage of materials and supplements. This all could have synergetic effect on compromising the quality of post abortion management.

As regards to item sixteen which related to "Emergency procedures" the current study results about nurses showed that the international &old general hospital weren't achieved standard one and there were highly significance differences among all studied hospitals. These result is due to lack of health care providers' knowledge and experiences about basic life support. These findings in consistent with **Roshana et al.**, (2012) who mentioned that, there is in our center adequate knowledge in cardio pulmonary resuscitation &basic life support (CPR/BLS) which should be addressed promptly. There is need for all health care professionals to have some standard of CPR/BLS training and assessment because of CPR training and clinical exposure influence the retention of knowledge. Also the current study results about nurses showed that the international &old general hospital were achieved standard (2) and there were highly significance differences among all studied hospitals. These result is because it is hospital policy for emergency management.

Finally as regards to item seventeen which related to "Evaluation of evacuated uterine contents" the nurses showed that the all studied hospitals were competent achieved all standard and there weren't significance differences among all studied hospitals. This result due to Egyptian Muslim culture legal abortion not done until it confirmed by health care provider and if needed further evaluation it done. These findings in line with Ali, (2014) who mentioned that, the cost of histopathological examinations and the low incidence of molar pregnancies in Saudi Arabia, he can say it may not appear reasonable to perform these examinations routinely after all first-trimester miscarriage. he recommend that histopathological examination be performed in select instances: when the diagnosis is uncertain preoperatively, when fewer tissues than expected have been obtained, when ultrasound suggests a molar pregnancy, when patients are considered of high risk for trophoblastic disease, or when inspection during surgery suggests unexpected pathology.

IV. Conclusion

In the light of the present study results, it can be conclude that, high standards of achievements among all studied governmental hospitals at Mansoura City. It can be seen that the current practices of nurses for abortion were highly achieved the performance standards for abortion published by NAF 2014. It is clear that the old general hospital was achieved a higher mean score and standard deviation 9.13±0.35 among all studied hospitals.

V. Recommendation

Strengthen pre-service education of all health care providers to ensure competency-based approaches that lead to stronger performance and update knowledge and skills as well as evidence-based practices that meet the priority health care needs of Egypt. Increasing awareness of health care providers regarding infection control during using ultrasound. Designing and implementing programmes regarding basic life support.

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