PARIP	EX - INDIAN JOURNA	LOFF	RESEARCH   volume - 12   Issue - 09   Septe	ember - 2023   PRINT 155M	1 No. 2250 - 1991   DOI : 10.36106/paripex				
	ournal or p	OR	IGINAL RESEARCH PAP	PER	Nursing				
Indian	PARIPET	EFFI MAT OF N COR COI	ECTIVENESS OF SIMULATED ERNITY ENHANCED CARE C MIDWIVES DURING INTRAPA PORATION MATERNITY CEN MBATORE	LEARNING ON OMPETENCIES RTUM CARE AT NTRES,	<b>KEY WORDS:</b> Simulated Learning, Intrapartum Care, Competencies				
Ha	atlin Sugi. M	1	(Ph.D Scholar), PSG College of Nursing, Tamil Nadu Dr. M.G.R. Medical University, Chennai, India.						
Dı	. Jayasudha.	. <b>A</b>	Principal, PSG College of Nursing.						
ABSTRACT	<b>Background:</b> Cl challenging for th emergency situa Before entering development by midwives were s random sampling questionnaire an labour among mi and 21, whereas s and skills on mat finding of study c was effective in er	hildbi heir p tion. I to the all sp select g tech idwive skill o sernity conclu	in this important for the women and is oblysical and psychological health, so it This study aimed to develop effective s e clinical ,Simulation learning is impor- ecialty, this lead to bring the safet ed based on inclusive criteria (10-Intra- nique (lottery method) is used. The p Ills by observation checklists to assess es. <b>Results:</b> The result shows that in inter f pre test and post test is 86.3 and 96.7.7 y enhanced care competencies k = 0.6 ided that simulated learning on matern rement of knowledge and skills among r	it bring a positive exp considers the preventi- simulation learning on i rtant ,it is the most imp ty of the mother and ch terventional group and pretest was conducted s maternity enhanced erventional group the k The reliability of the too the strength of agreen nity enhanced care com midwives.	perience for her family. It is very on of morbidity and reaction to the intrapartum care among midwives. portant training and effective skill ild. <b>Methodology:</b> In this study, 20 I 10 – Routine care group) simple on knowledge of labour by using care competencies in progress of the competencies in progress of the competencies in progress the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competencies in progress of the competenci in progress of the competenci in progress of the competenc				
<b>INTRODUCTION</b> Birth is a life-changing event for every women, it brings demonstration regarding maternity enhanced of competencies with the help of manneguin for 2 we									

happiness in their life .The women has the potential to care them during intrapartum which affect them both physically and emotionally at the time of delivery [1]. Women bring a positive experience for her family. It is very challenging their physical and psychological health, so it consider the preventing of morbidity and reaction to the emergency situation [2].

Worldwide, the statistic pointed that , 140 million women are giving birth every year. Every women and their foetus are healthy during the time of antenatal but it may be low risk of developing complications during childbirth[3]. At the same time, the morbidity or mortality may occur in the minority of women and neonate which lead to several complications[4]. Most of the maternity care policies are recognize that mother and their child should be fair, compassionate and respectful care during labor and delivery .This make the mother and neonate are get good healthy in their life.

As WHO enabled that evidence supporting the development of the 2018 followed the intrapartum care guidelines[6] which indicated that the women want a "positive birth experience" which meets or exceeds their personal ,sociocultural beliefs and expectations of the mother (7).

### **MATERIALS & METHODS**

Formal permission obtained from Corporation Maternity Officer and Medical officer, the study was conducted at Vilankurchi and Gandhimanagar Maternity Centres, Coimbatore. The investigator used true experimental -pre and post test design.20 midwives were selected based on inclusive criteria (10-Interventional group and 10 - Routine care group)simple random sampling technique (lottery method) were used.

The pretest was conducted about knowledge of labour by structure questionnaire and skills by observation checklists to assessed the maternity enhanced care competencies in progress of labour among 20 midwives for 4 weeks. On 5th week the researcher delivered the simulated learning regarding maternity enhanced care competencies such as Pervaginal Examination, Partograph, Immediate Newborn Care and Placental Examination for Interventional group. Each competency took 15 minutes and completed in 1 hour. The researcher ensured the practice of midwives by return Researcher assessed the post test knowledge and skills on maternity enhanced care competencies through questionnaire and observation check list for 1 month. All the data were collected and analyzed with proper statistical method by using descriptive and analytical data.

# VARIABLES:

# Independent Variable:

Simulated Learning on Maternity Enhanced Care Competencies.

#### **DependentVariable:**

Knowledge on labour and skills i) to assess the progress of labour, (Per Vaginal Examination, Partograph), ii) Placental examination iii) Immediate new born care.

#### **Reliability Of The Study:**

Inter rater observational method is used to test the skills through stimulated learning on maternity enhanced care competencies among the midwives. By using cohens kappa inter rater reliability method, In Observer I the pretest score is 89.8 and the post test score is 98.Whereas Observer II, the pretest is 84 and the post test is 98. So the agreement between both observer kappa k' = 0.6, the strength of agreement is moderate .The test retest method is used to assessed the knowledge questionnaire by using karlpearson correlation coefficient, r' = 0.81 which showed that the tool is reliable.

## RESULTS

The result shows that in interventional group the knowledge of pre and post test is 18 and 21, whereas skill of pre test and post test is 86.3 and 96.7. The reliability of the tool obtained for knowledge 'r' = 0.81 and skills on maternity enhanced care competencies k = 0.6 the strength of agreement is moderate.

Table : 1 Frequency And Percentage Of Pre And Post Test Level Of Knowledge On Labour During Intrapartum Care Among Interventional And Routine Care Group. (N-20)

Level of knowled	Inter	ventio	onal (N	<b>I-10</b> )	Routine care (N-10)				
	Pre test		Post test		Pre test		Post test		
90	Freq	Perce	Frequ	Perce	Frequ	Perce	Freq	Perce	
	uenc	ntage	ency	ntage	ency	ntage	uenc	ntage	
	y (f)	(%)	(f)	(%)	(f)	(%)	y (f)	(%)	

www.worldwidejournals.com

### PARIPEX - INDIAN JOURNAL OF RESEARCH | Volume - 12 | Issue - 09 | September - 2023 | PRINT ISSN No. 2250 - 1991 | DOI : 10.36106/paripex

In	1	10	-	-	4	40	2	20
adequate								
Moderat ely adequate	6	60	4	40	4	40	4	40
Adequat e	3	30	6	60	2	20	4	40

depicts that, 1(10) in pretest had inadequate knowledge 6(60%) of them in pretest and 4(40)% in post test had moderately adequate knowledge, 3(30%) of midwives had adequate knowledge, Whereas in post test most 6(60%) of them had adequate knowledge in interventional group, In routine care group in pretest 4(40%) had inadequate, 4(40%) in post test had moderately adequate and 2(20%) in pre test and 4(40%)post test had adequate knowledge

Table 2Frequency And Percentage Distribution Of PreTest And Post Test Score Of Skills On Maternity EnhancedCare Competencies In The Interventional And RoutineCare Group (N-20)

Level of compet	Inter (N-10	ventio: )	nal gr	oup	Routine care group (N-10)				
encies	Prete	st	Postte	est	Prete	st	Posttest		
skill	Freq	Perc	Freq	Perc	Freq	Perc	Freq	Perc	
	uenc	entag	uenc	entag	uenc	entag	uenc	entag	
	y (f)	e (%)	y (f)	e (%)	y (f)	e (%)	y (f)	e (%)	
Outstan ding	-	-	7	70	-	-	-	-	
Compet ent	6	60	3	30	4	40	5	50	
Incompe tent	4	40	-	-	6	60	5	50	

**Depicts** that, 6(60%) of them were competent in pretest, 4(40%) was incompetent, Where as in post test most 7(70%) of them were outstanding and 3(30%) in were competent, in interventional group. In routine care group, both pretest and post test 4(40%) and 5(50%) of them were competent and 6(60%) in pretest and 5(50%) post test were incompetent.

### Table 3 Comparison Of Mean, SD, And Mean Percentage Of Pre And Post Test Scores Of Skills On Maternity Enhanced Care Competencies During Intrapartum Care Of Interventional Group(N-10)

s.	Āreas	Max	Pre te	est sc	ore	Post	't'		
No		Scor	Mea	SD	Mea	Mea	SD	Mea	valu
		e	n		n (%)	n		n (%)	e pair ed test
1.	Per- vaginal Examin ation	10	6	0.57	60	9	0.7	90	0.93
2.	Partogr aph	10	5.5	0.5	55	8	0.8	80	0.90
3.	Immedi ate Newbo rn care	10	7	0.7	70	9	0.9	90	0.75
4.	Placent al Examin ation	10	5.5	0.5	55	9	0.9	90	0.95

\*significant at 0.05 level

It shows the comparison of skills on maternity enhanced care competencies in interventional group , pretest mean 6±0.57, post test mean 9±0.7 and the 't' value 0.93 for Pervaginal examination, pretest mean 5.5±0.5, post test mean 8±0.8 and the 't' value 0.90 for Partograph, pretest mean 7±.7, post test

www.worldwidejournals.com

mean  $9\pm0.9$  and the 't' value 0.75 for Immediate newborn care , pretest mean  $5.5\pm0.5$ , post test mean  $9\pm0.9$  and the 't' value 0.95 for Placental examination at the level of P<0.05 significant



Table 4: Orrelate The Pretest And Post Test Level Of Knowledge And Skill On Maternity Enhanced Care Competencies Among Midwives During Intrapartum Care In The Interventional And Routine Care Group. (N-20)

Grou	Vari	Pre T	'est		Post Test					
р	able	Mea n	S.D	Spear man rho correl ation coeffic ient	Type of corr elati on	Mea n	S.D	Spear man rho correl ation coeffic ient	Type of corr elati on	
Inter venti onal grou	Kno wle dge	18	2.5	r=0.78	Stron g +	21	2.5	r =0.9	Stron g +	
р	s s	80.3	4.89			98.1	4.9			
Routi ne care	Kno wle dge	17	2.3	r =0.4	Wea k+	18	2.3	r =0.5	Wea k +	
grou p	Skill s	85.6	4.6			90.2	4.6			

It show pretest in the interventional group level of knowledge the mean and S.D was  $18 \pm 2.5$  and for skills  $86.3 \pm 4.89$ , 'r' =0.78 shows strong positive correlation. Whereas in Routine care group on knowledge the mean and S.D was  $17 \pm 2.3$  and  $85.6 \pm 4.6$  for skills with the value 'r' =0.4 shows a weak positive correlation between knowledge and skills. post test in the interventional group on knowledge the mean and S.D was  $21 \pm 2.5$  and for skills 98.7  $\pm 4.89$  with value 'r' = 0.9 shows strong positive correlation, where as in Routine care group on knowledge the mean and S.D was  $18 \pm 2.3$  and for skills 90.2  $\pm$ 4.6; the correlation value 'r' = 0.5 shows weak positive correlation between knowledge and skills.

## DISCUSSION

The study result shows that lecturer based education is helpful along with the simulation learning with mannequins during clinical environment which makes more effective among midwives during intrapartum care. It is one of the best and active techniques of learning and due to that possibility of using different levels of learning through simulation. During multiple learning techniques handled through simulation, midwives can able to handle the real situation individually in clinical environment which leads to more effective and value added to study. Also simulation method is more safe and successful along with the learning environment. Success rate is improved gradually while multiple learning techniques are followed which results the study effective. The result shows that simulation learning experience is supportive to develop the midwives such as critical thinking, clinical reasoning, and decision making skills [10]. Future work must also study the implementation and sustainability of training programmes, evaluating of midwives and resources needed for, to conduct

#### PARIPEX - INDIAN JOURNAL OF RESEARCH | Volume - 12 | Issue - 09 |September - 2023 | PRINT ISSN No. 2250 - 1991 | DOI : 10.36106/paripex

of training for maternity care in both low- and high-income settings.

### CONCLUSION

Findings suggest significant overall improvement in intrapartum and newborn care practices after the simulation learning the midwive monitoring during the progress of labour . It is helpful for all the midwvies to improve their knowledge and skill in all aspects . Simulation and teamtraining likely contributed towards the overall improvement, especially for intrapartum care. The reliability of the tool obtained for knowledge 'r' = 0.81 and skills on maternity enhanced care competencies k = 0.6 the strength of agreement is moderate, which showed the tool is reliable. The study concluded that simulated learning on maternity enhanced care competencies during intrapartum care was effective in enhancement of knowledge and skills among midwives in interventional group and the study is feasible and practicable.

#### **REFERENCES:**

- Mina Iravani, Elahezarean, Mohsen Janghorbani et.al: Womens Needs And Expectation During Normal Labour And Delivery. Journal Education Of Health Promotion Pubmed. 2015, 10.4103/2277-9531.151885
  Meqhan A Bohren, G.Justus Hofmeys, Carol sakala et.al., (: Continuous Support
- Meghan A Bohren, G. Justus Hofmeys, Carol sakala et.al., (:Continuous Support for Women During Childbirth, . pubmed. 2017, 7:10.1002/14651858. CD003766. pub6
- WHO: Recommendation on "Intrapartum Care for a Positive Childbirth experience", National library of medicine ,PubMed. 2018, 6:10-30070803
- WHO: Safe Childbirth Checklist Implementation Guide Improving the quality of facility-based delivery for mothers and newborns. WHO-Interated Health Service. 2015, 65.
- WHO: safe childbirth checklist implementation guide: improving the quality of facility-based delivery for mothers and newborns. Geneva, World Health Organization, WHO- Integrated Health Service. 2018, 65.
  Pan American Health Organization, WHO: Mother-Baby Package:
- Pan American Health Organization, WHO: Mother-Baby Package: Implementing safe motherhood in countries. Geneva, World Health Organization, 2018. Irish institution reporting for information sharing. 2012,
- Tegbaryigzaw,fantuabebe. et al: Quality of Midwife-provided Intrapartum Care in Amhara Regional State, Ethiopia. Simulation based learning in midwifery education: A systematic review BMC pregnancy and child birth, Published - 16 Aug. 2017, 17:12.
- Emily J Hotton, Mario Merialdi M, Joanna F Crofts: Simulation for intrapartum care: from training to novel device innovation. Department of Women and Children's Research, Southmead Hospital, Translational Health Sciences, University of Bristol, UK.2021, 73(1):82–93. 10.23736/S2724-606X.20.04669-9
- Schneidereith, Crystel, Denise: Simulated home based health care scenarios for nurse practitioner students. "Clinical Simulation in Nursing". 2019, 26:38-43.10.1016
- UNDP/UNFPA/WHO/World Bank: Special Programme of Research, Development and Research Training in Human Reproduction (HRP). Progestogen-only contraceptive use during lactation and its effects on the neonate. Geneva, World Health Organization. 2018, 67.