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RESEARCH ARTICLE

A STUDY TO ASSESS THE EFFECTIVENESS OF PELVIC BRIDGE EXERCISE ONDYSMENORRHOEA AMONG ADOLESCENT GIRLS AT SELECTED GOVERNMENT HIGHERSECONDARYSCHOOL, ATPUDUCHERRY

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Manuscript Info Abstract

Manuscript History

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Key words:-

Dysmenorrhea, Pelvicbridgeexercise

Background: Menstrual pain has always been such abig problem forgirlseverywhere,

dysmenorrheaoccurswithoutpelvicpathologyaffecting about 50% of women. It occurs more frequently in unmarriedwomen.

Objectives: Toassessthe levelofdysmenorrheal amongadolescentgirls. - Toevaluatetheeffectivenessofpelvicbridgeexerciseondysmenorrheaamo ngadolescentgirls.-Toassociatethelevelofdysmenorrhea among adolescent girls with selected Socio demographic variable.

Researchdesignandapproach:QuantitativeapproachandPre-

Experimental-One group pretest post-test design was adopted forthisstudy. The study was conducted at selected Government Girls HigherSecondary School, Madagadipet, Palayam. The sample size was 30. ThePurposivesamplingtechniquewasusedto selectthe subjects. Theintervention applied in this study was Pelvic bridge exercise, daily 2times perdayfor6daysperweekuptonextperiod.

Result: The results showed the association between the post-test levelof dysmenorrheal and selected socio demographic variables, there was asignificant association between the level of dysmenorrhea and selected socio demographic variables such as age in years (x2 = 0.833). Age

 $\begin{array}{lll} atmenarche(x2=0.536), Family Type(x2=1.50), Family income(x2=2.72),\\ amount of blood flow(x2=6.38) Regularity of blood flow(x2=6),\\ Frequency of cycle(x2=10.2) of adolescent girls. \end{array}$

Conclusion: This study concludes that the Pelvic bridge exercises ignificantly reduced the level of dysmenor rheal among the Adolescent girls.

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Introduction:-

Adolescent is the phase, usually between 10 to 20 years, in which children undergone rapid changes in bodysize, physiologic and psychological and social functioning. All body dimensions, development and maturation are completed. This is the net result of hormones and social structures designed to foster the transition from childhood to

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1608

adulthood. Menstrual pain has always been such abig problem for girls everywhere, dysmenorrhea occurs withoutpelvicpathologyaffectingabout50% of women. Itoccursmorefrequentlyinunmarriedwomen.

According to the World Health Organization [WHO], Adolescent is the period of life that extends from 10 years to 19 years. The IAP [Indian Academy of Pediatrics] define adolescent is the period of life between 10 years to 18 years. Arbitrarily, adolescent is divided in to three phases, early, middle and late adolescence. Early adolescencerefers to age 10 to 13 years, middle adolescence 14 to 16 years and late adolescence 17 to 20 years. Adolescence is the sequence of events in which the individual is transformed into a young adult by a series of biological changes.

Adolescents comprise early one-fifth of the total population. Among the total adolescent population47 percentcomprise of female adolescents. adolescent is considered to be from puberty until 18 years of age. the majorphysiological change that takes place in adolescent girls is the onset of menarche, which is often associated withdysmenorrhea dysmenorrhea involves menstrual periods that are accompanied by either sharp, intermittent pain ordull, achingpain, usually in the pelvis or lower abdomen. Other symptoms include nausea, vomiting, diarrhea, andbody ache.

Mostoftheadolescentpopulationintheschoolaresufferingfromdysmenorrheaandthisalso impacttheday-to-daylifeoftheadolescentgirlsfortheparticulardays.Sothatadolescentgirlsarehavingmorestressduringmenstruation.Thus,th e researcherwasvery muchinterestedto takethisstudy,withtheaimto reducethedysmenorrhea byusingpelvicbridgeexerciseasaninterventionamongadolescentgirlsatGovernmenthighschool.

Objectives:-

- 1. Toassessthelevelofdysmenorrhealamongadolescentgirlsstudyingin Governmenthigher secondaryschool.
- 2. ToevaluatetheeffectivenessofpelvicbridgeexerciseondysmenorrhealamongadolescentgirlsstudyingGovernmenthi ghersecondaryschool.
- 3. To associate the level of dysmenorrheal among adolescent girls studying in Government high school with theirselectedSociodemographicvariables.

Hypothesis

H1; There is a significant difference between

thepretestandposttestlevelofdysmenorrhealamongadolescentgirlsstudyinginGovernmenthighschool.

H2: Thereis a significant association between

thelevelofdysmenorrhealamongadolescent girls with their selected sociodemographic variables.

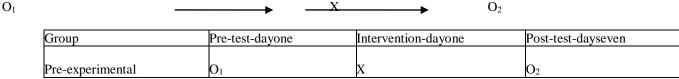
Research Methodology:-

A Quantitative approach adopted for this present study. Pre experimental (one group pre- test and post-test) designs elect for the present study by using purposive sampling technique was sample size was 30 adolescent girls with pelvic bridge exercise among adolescent girls. The period of data collection was 1 week. The data was gathered and analyzed by using descriptive and inferential statistics method and interpretations were made on the basis of the objectives of the study.

Research Design

 O_2

Research design is defined as the blueprint for conducting a study; maximizes control over factors that couldinterfere with the validity of the findings guides the planning and implementation of a study. Pre-experimental-onegrouppretestandposttestdesign



Key:O₁ - Pretest assessment of level of dysmenorrhea X -

Intervention(pelvicbridgeexercise)

Posttestassessment oflevelofdysmenorrhea

Research setting

The study was conducted at selected Government Girls Higher secondary School.

Tooldescription

Thetool consistsoftwosections.

SectionA

It consists of Demographic Variables of dysmenorrhea, such as Age in years, Age at menarche, Family type, FamilyIncome, Amount of blood flow, Regularity of blood flow, Frequency of cycle, Menstrual cycle duration, Foodpattern,doyouhaveprevioussourceofinformationonpelvicbridgeexercise.

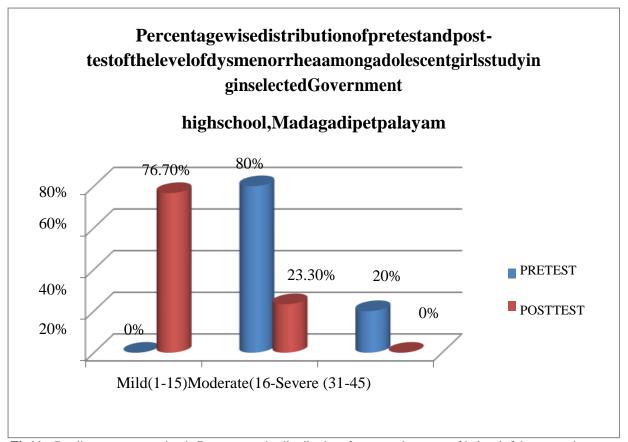
Section B

Checklisttoassessthelevelofdysmenorrhealamongadolescentgirls.

Resultanddiscussion:-

Bardiag ram representing the Percentage wise distribution of pretest and post test of the level of dysmen or rhea.

In pretest, Majority of adolescent girls 24(80%) had moderate and6(20%) hadsevere level of dysmenorrhea andthemeanandstandarddeviationofthelevelofdysmenorrheaamongadolescentgirlsstudyinginselectedGovernmenthighs chool, MadagadipetPalayam is30.30±3.120.



 $\textbf{Fig11:-} \ Bardiagram representing the Percentage wise distribution of pretest and post-test of the level of \ dysmen or rhead \ and \ dysmen or rhead \ dysmen \$

Effectiveness of pelvic bridge exercise on dysmen or rheal among adolescent girls studying in selected Government high school. Madaga dipet Palayam. (N=30)

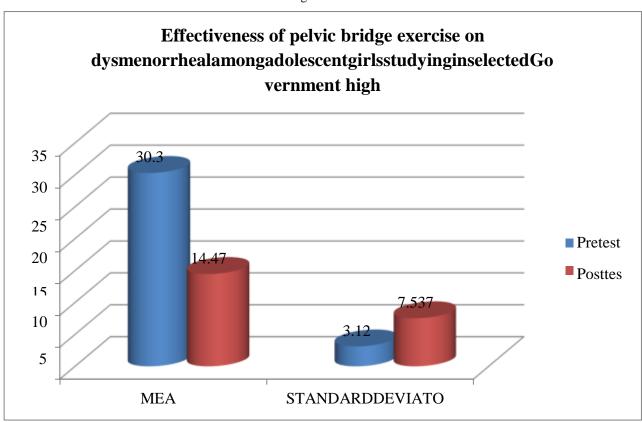
T-CC - 42	TE	M	STANDARD	IEANDIFFE	't'V	D	ʻp'V
Effectiveness of pelvicbridge	ST	EA	DEVIATON	RENCE	ALU	f	ALU
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dolescentgirlsstudyingin					Paire		
					d-ttest		
	Pre	30.	3.120				
	test	30		15.833	12.393	2	0.000
						9	**
Selected Governmenthigh	Post	14.	7.537				HS
School	test	47					

^{**-}p <0.001highlysignificant, NS-Non-Significant.

Table-3shows that, themeand score of effectiveness of pelvic bridge exercise on dysmenorrheal among adolescentgirls studying in selected Government high school, MadagadipetPalayam in the pre-test was 30.30 ± 3.120 andthemeans core in the post-test was 14.47 ± 7.537 . The calculated paired 't' test value of **t=12.393** shows **statisticallyhighly significant** difference of effectiveness of pelvic bridge exercise on dysmenorrheal among adolescent girlsstudyinginGovernmenthighschool,

Madaga dipet Palayam. Effectiveness of pelvic bridge exercise on dysmen or rhea among adolescent girls studying in selected Government high school, Madaga dipet, Palayam

 $\label{eq:Fig12:-} Fig12:- \\ Bardiagram representing the Percentage wise distribution of Effectiveness of pelvic bridge exercise on dysmenor rheaamong a dolescent girls.$



Frequencyand percentagewise distribution of pretestand posttest of the level of dysmenorrhea among a dolescent girls studying in selected Governmenthighs chool, Madaga dipet Palayam. (N=30)

Table2:-Showsthatfrequencyandpercentagewisedistributionofpretestandposttest of thelevelofdysmenorrheaamongadolescentgirls studyinginselected Governmenthighschool,MadagadipetPalayam.

	PRETEST		POSTTEST	
Levelofdysmenorrheal	N	%	N	%
Mild (1-15)	0	0	23	76.7
Moderate(16-30)	24	80	7	23.3
Severe(31-45)	6	20	0	0
Mean				
Standarddeviation	30.30±3.120		14.47±7.537	

In pretest, Majority of adolescent girls 24(80%)had moderate and6(20%)had severe level of dysmenorrhea and themean and standard deviation of the level of dysmenorrhea amongadolescent girls studying in selected Governmenthighschool,MadagadipetPalayamis30.30±3.120.

In post- test, Majority of adolescent girls 23(76.7%) had mild and 7(23.3%) had Moderate level of dysmenorrheaand the mean and standard deviation of the level of dysmenorrhea among adolescent girls studying in selectedGovernmenthighschool, MadagadipetPalayamis 14.47±7.537.

Conclusion:-

This study concludes that the Pelvic bridge exercises ignificantly reduced the level of dysmenor rhearmong the Adolesc ent girls.

References:-

- 1. AdellePillitery,(2006).MaternalandChildHealthNursing.(2ndEds). New Delhi: LippincottandWilliamsPublishers.
- AnnMarrianerTomy&MarthRouileAlligood, (1998). NursingTheories and their work. Mosby: Philadelphia.
- 3. Basavanthapa, B.T. (2006). Textbook of midwifery and reproductive health. New Delhi: Jaypee Brothers Company.
- 4. Berek.S.Jonathan,(2007).Gynacology.(14theds).NewDelhi:WoltersKluwersprivatelimited.
- 5. Bhargarva, VL. (2009). Textbook of Gynecology. (2ndeds). Newdelhi: Anebooks Pvt. Ltd.
- 6. BobakJensen, (2009). MaternityandGynecologicCare(5thEds).NewDelhi:MosbyPublication.
- 7. Brown.K.Linda, BennetRuth, V. (2010). Mylestextbook formid wives (12thed).
- 8. NewYork: Churchilllivingstone.
- 9. Danfortis, (2010). Obstetrics & Gynecology. Calcutta: (9thEds). Lippincott Williams Publication.
- 10. DannelE, Shaon, WongandPerry, (1998). Maternal and childnursing care. C. V. Mosby: Philadelphia.
- 11. DeniseF.Polit&CheryTatanobeck.(2004).NursingResearch.(7thed).NewDelhi:LippincottWilliamsandWilkins.