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OBJECTIVE: The objective of the study is for detection of precancerous lesions of cervical cancer using Pap smear ABSTRACT screening method. METHODS: women who visited the outpatient clinic of Obstetrics and Gynecology department, BMCRI with different clinical problems over a period of 9 months from oct-2017 to june-2018 were recruited for the study. A detail history, clinical examination with per speculum and per vaginal examination were performed. Pap smear was obtained using Ayre spatula and spread over glass slide using 95% ethyl alcohol fixator and sample was sent for cytopathologicalexamiantion.RESULTS: 2003 Pap smear samples were examined, out of that 96.95% were inflammatory smears(negative for malignancy), 0.74%- LSIL, 0.34%- HSIL, 1.04%- ASCUS. Women with Pap smear report positive for LSIL, HSIL, ASCUS were advised to undergo cervical biopsy/colposcopy. CONCLUSION: Pap smear screening is simple, non-invasive, cost effective method for detection of precancerous lesions of cervical cancer in gynecological patients.

KEYWORDS : pap smear, LSIL, HSIL

AIMSAND OBJECTIVES

For detection of precancerous lesions of cervical cancer using Pap smear screening method.

NEED FOR THE STUDY

- Cervical cancer is a preventable disease due to the long preinvasive stage.
- Early detection and appropriate treatment are possible if robust screening is implemented.
- Early cervical epithelial changes can be identified by a Pap smear test, which is the primary screening test for detection of precancerous cervical intraepithelial neoplasia and the early stage of invasive cervical cancer.

METHOD AND MATERIALS

- This is a prospective descriptive study carried out over 9 months from October 2017 to June 2018 at the Department of Obstetrics and Gynaecology, BMCRI Bangalore.We screened for 2003 women who are more than 21 yrs.
- Women with different complaints, including vaginal discharge, blood-mixed discharge, foul-smelling discharge, postcoital bleeding, intermenstrual bleeding, postmenopausal bleeding, abdominal pain, infertility, and secondary amenorrhea, were included in this study.
- A detailed history was taken using a predetermined proforma that included the chief complaint and the findings of per speculum and vaginal examinations.

METHODOLOGY

- Patients were placed in the lithotomy position, and a sterile bivalve speculum was inserted into the vagina.
- The posterior vaginal wall was retracted posteriorly and the anterior vaginal wall anteriorly to allow proper visualization of the cervix and vaginal wall.
- The smear was obtained using an Ayre spatula and cyto brush and spread over a marked glass slide, which was placed in 95% ethyl alcohol and sent to the Department of Pathology for cytopathological examination.
- All data were recorded using a predetermined proforma.

STATISTICALANALYSIS

Data collected are analyzed by descriptive statistical methods using mean, median, and standard deviation, Chi-square test is used for association of categorical variables.

AGE DISTRIBUTION

AGE IN YEARS	NO. OF PATIENTS	PERCENTAGE	
21-30	125	7%	
31-40	274	14%	
41-50	578	28%	
51-60	601	32%	

RELIGIOUS DISTRIBUTION

61 - 70

	RELIGION	NO. OF PATIENTS	PERCENTAGE		
	MUSLIM	677	34%		
	HINDU	1326	64%		

327

17%

GEOGRAPHIC DISTRIBUTION

GEOGRAPHIC AREA	NO. OF PATIENTS	PERCENTAGE
URBAN	717	36%
RURAL	1286	64%

SYMTOMATIC DISTRIBUTION

SYMPTOMS	NO. OF PATIENTS	PERCENTAGE	
WHITE DISCHARGE	768	38.34%	
IRREGULAR	584	29.15%	
CICLES			
PAIN ABDOMEN	426	21.36%	
ASYMTOMATIC	197	9.83%	
POST	20	0.99%	
MENOPAUSAL			
BLEED			
POST COITAL	8	0.39%	
BLEED			

RESULTS CYTOLOGY REPORT ACCORDING TO AGE DISTRIBUTION

	AGE IN	INFLAM	ЛАТ	LSIL	HSIL	ASCUS	TOTAL
	YEARS	ORY					
	21-30	123		1	0	1	125
	31-40	268		1	1	4	274
	41-50	571		3	1	3	578
	51-60	586		5	2	12	605
	61-70	323		1	2	1	327
	>70	54		1	1	0	56
	CYTOLOGY		NC	D.OF PA	TIENTS	PERCEN	TANGE
INFLAMMATORY		1942		96.95%			
LSIL			12		0.74	4%	
HSIL		7		0.34%			
ASCUS		21			1.04%		
ATROPHIC		16 0.79%		9%			
UNSATISFACTORY			24	24 1.19%		9%	
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2003 Pap smear samples were examined, out of that 96.95% were inflammatory smears(negative for malignancy), 0.74%- LSIL, 0.34%- HSIL, 1.04%- ASCUS. Women with Pap smear report positive for LSIL, HSIL, ASCUS were advised to undergo cervical biopsy/colposcopy.

DISCUSSION:

- The Pap smear test used as a screening method to detect cervical cancer is an effective way to prevent the development of cervical cancer, but awareness within the community about the Pap smear test is very low. If not diagnosed and treated early, these precancerous lesions are likely to progress to invasive cancers.m
- In our study conducted in Obstetric and Gynecology department, BMCRI, Bengaluru over a period of 9 months from october 2017 t0 june 2018 around 2003 women were examined and screened for cervical cancer using pap smear.
- A study conducted by lakshmi, et al 200 pap smear were taken out of which 134 were inflammatory, 15- LSIL, 13- moderate dysplasia, 12- HSIL, 8 were negative for imflammatory smears and 2 were squamous cell carcinoma.
- In our study 2003 Pap smear samples were examined, out of that 96.95% were inflammatory smears(negative for malignancy), 12-LSIL, 7- HSIL, 21- ASCUS. Women with Pap smear report positive for LSIL, HSIL, ASCUS were advised to undergo cervical biopsy/colposcopy.
- By conducting health health camps, increasing health awareness and performing Pap smear screening programmes the incidence of cervical carcinoma can be decreased.

CONCLUSION:

- Pap smear testing is a useful, simple, economical and safe tool for detecting precancerous cervical epithelial lesions. It should be established as a routine screening procedure to reduce the treatment burden, morbidity, and mortality.
- Every woman above the age of 21 years should undergo routine cervical cancer screening, even into the postmenopausal period.
- The Pap test has been regarded as the gold standard of cervical screening programs.
- When the Pap test is combined with an HPV DNA test, the sensitivity for detection of cervical pathology is increased.
- The community should be educated about the Pap smear test, including its goal and the required frequency of application, by widespread educational and media programs.

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