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#### STUDY OF MODIFIED TRIPLE ASSESSMENT IN BREAST LUMPS

### \*1Dr.Karthikeyan, 2Prof.Dr.R,Baskaran, 3Dr.karthik Raja, 4Dr.Prema and 1Dr.Sasikanth

\*1Post graduate, Department of surgery Rajah Muthiah Medical College, Annamalai Nagar-608002
 2Professor of surgery, Department of surgery Rajah Muthiah Medical College, Annamalai Nagar-608002
 3lecturer, Department of surgery Rajah Muthiah Medical College, Annamalai Nagar-608002
 4lecturer, Department of surgery Rajah Muthiah Medical College, Annamalai Nagar-608002

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#### **ABSTRACT**

The study is conducted with the objective of assessing the combined and individual reliability of the Modified Triple Test in making a pre-procedural diagnosis of palpable breast lumps. A prospective cross sectional study of 100 female patients attending the outpatient department at the Department of General Surgery, Rajah Muthiah Medical College & Hospital, Chidambaram, with the complaint of a palpable lump/lumps in the breast was undertaken. Our results show that the diagnostic accuracy of combined physical examination breast USG and FNAC/CNB is comparable to that of histological examination

Keywords: Modified trible assessment, Breast Lumps

#### 1.INTRODUCTION

The study is conducted with the objective of assessing the combined and individual reliability of the Modified Triple Test in making a pre-procedural diagnosis of palpable breast lumps.

The components of the Modified Triple Test are:

Clinical Examination (C/E) .

Breast Ultrasonogram (USG)

Fine Needle Aspiration Cytology/Core Needle Biopsy (FNAC/CNB)

#### 2.MATERIALS AND METHODS

A prospective cross sectional study of 100 female patients attending the outpatient department at the Department of General Surgery, Rajah Muthiah Medical College & Hospital, Chidambaram, with the complaint of a palpable lump/lumps in the breast was undertaken.

Male patients and female patients with advanced Breast Cancer that makes diagnosis obvious were excluded from the study (n=32).

#### The inclusion criteria were:

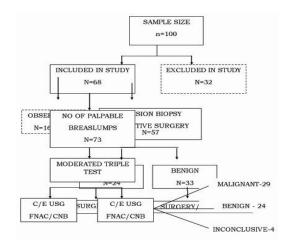
- 1. Females>30 years
- 2. C/o breast lump clinically palpable as a localized lesion differing from the surrounding breast tissue.

\*Corresponding author **† Dr. Karthikeyan,** Post Graduate, Department Of Surgery, Rajah Muthiah Medical College& Hospital, Annamalai University, Chidambaram, Tamil Nadu Each patient was put through the Modified Triple Test. On the basis of a systematic clinical examination, the lumps were grouped as – Malignant, Benign, inconclusive.

Malignant – III defined, heterogeneous mass with sharp angulations; presence of micro calcifications.

 Benign lesions were either cystic or solid Cysts – FIBOADENOMA, FIBROADENOSIS, and BREAST ABSCESS.

Ultrasound examination also included the contralateral breast, axillae, internal mammary lymph nodes. For deeply seated lesions Sono-guidance was utilized to aspirate cysts and to take biopsies. After this, FNAC/CNB was performed by the attending surgeon and sent for cytological / Histopathological examination.



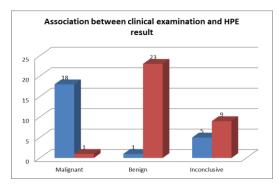
#### 3.RERSULTS

#### ECHOGENICITY OF LESIONS AND HPE:

Echogenicity	Malignancy	Benign
Mixed	10	6
Hypoechoic	14	23
Hyperechoic	0	4

## ASSOCIATION BETWEEN CLINICAL EXAMINATION AND HISTOPATHOLOGY RESULT

	Malignancy	Benign
Malignant	18	1
Benign	1	23
Inconclusive	5	9



#### STATISTICAL ANALYSIS OF THE STUDY

Sensitivity	<b>C/E</b> 75%	USG 92%	FNAC/CNB 100%	<b>MTT</b> 100%
•	(53 – 80%)	(72 – 99%)	(83 – 100%)	(83 – 100%)
Specificity	97% (82 – 100%)	85% (67 - 94%)	100% (87 - 100%)	85% (67 - 94%)
Positive	95%	81%	100%	83%
Pre dictive	(70 - 99%)	(61 - 93%)	(83 - 100%)	(64 - 93%)
Value				
Negative	84%	93%	100%	100%
Pre dictive	(64 - 90%)	(76 - 99%)	(87 - 100%)	(85 - 100%)
Value				
'P' value	< 0.001	< 0.001	< 0.001	< 0.001

#### **4.CONCLUSION**

Detection and management of a breast mass requires an optimal environment for interpretation , relevant use of clinical information, technically excellent imaging procedures, proper interpretation of finding and pertinent recommendations.

Our results show that the diagnostic accuracy of combined physical examination breast USG and FNAC/CNB is comparable to that of histological examination.

A fine collaboration between experienced radiologists, pathologist and the clinician is required.

Ultrasound when replacing mammography serves as effective an imaging modality in palpable breast lumps and is more comprehensive.

CNB is a suitable alternative when FNAC in inconclusive and may offer additional information.

Thus the use of MTT to complement findings in differential diagnosis of a lesion in a symptomatic women seeking medical care deserves acceptance and further evaluation. This may lead to less delay in treatment when malignancy is suspected and to avoidance of surgical exploration when a benign nature of lesion is suspected.

#### **5.BIBLIOGRAPHY**

- Vetto JT, et.al Diagnosis of palpable breast lesion in younger women by the modified triple test is accurate and cost – effective Arch Surg 1996 Sep; 131 (9): 967 – 72; discussion 972-4.
- Vetto J, Use of the "triple test" for palpable breast lesions yields high diagnostic accuracy and cost savings Am J Surg 1995 May; 169 (5): 519-22
- 3. Purasiri P, et.al A novel diagnostic index for use in the breast clinic. J.R. CollSurgEdinb 1995 Feb; 41(1): 30-4.
- 4. Hermanscn C, et.al Diagnostic reliability of combined physical examination, mammography, and fine-needle puncture ("triple test") in breast tumors. A prospective study Cancer 987 Oct 15;60(8); 1866-71
- Hatada T, et. al Usefulness of ultrasound guided, fine needle aspiration biopsy for palpable breast tumours Arch Surg 1996 Oct;13 (10): 1095-8.
- Hard JR, et.al. How many tests are required in the diagnosis of palpable breast abnormalities? Department of Radiology, Royal Marsden Hospital, Sutton, Surrey, UK. Clin Oncol (R Coll Radiol) 1990 May;2(3): 148-52.
- Lawrence W. Bassett, M.D. Et.al Usefulness of Mammography and Sonography in women Less than 35 years of Age^ Radiology 191; 180:831-835.

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