Journal or P. OR	RIGINAL RESEARCH PAPER	Breast Surgery	
ARIPET CAS	E REPORT ON MANAGEMENT OF UPPER B WEAKNESS AFTER A MODIFIED RADICAL STECTOMY	KEY WORDS:	
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INTRODUCTION:

The brachial plexus is formed by the the ventral rami of the C8-T1 nerves. This plexus is responsible for the motor and sensory supply of the muscles of the upper limb. the roots join to form trunks which divide and form trunks, divisions and cords as they pass through the neck into the axilla. In the posterior triangle of neck, the roots join to form trunks as they pass between the scalene muscles, further dividing into divisions as they cross the triangle laterally and form cords as they enter the axilla. This neuronal bundle is covered with fascia throughout its course and thus cannot withstand shearing forces.

Even though during mrm, injury to the brachial plexus is rare, it can occur in instances of improper positioning of the arm, over abduction of the arm or even while shifting of the patient post surgery (over-enthusiastic dissection, rough handling of structures, post op edema) Here we are presenting a case of post left sided mrm upper limb weakness, presenting on post op day 0, which happened to recover after a few months of physiotherapy.

CASE REPORT: A 50 year old female patient was referred to our surgical Opd with complain of lump in the left breast, that she noticed 6 months back. The lump grew in size over the period of 6 months. She had no other co-morbidities or significant family history. H/o open appendectomy 20 yrs back, menopausal since 10 yrs.

O/e-2 lumps were present

I. approximately 2x2 cm sized lump with ill defined margins in the left upper quadrant of left breast, with irregular surface, hard consistency, and no attachments to overlying skin or underlying muscles.

II. Approximately 4x3 cm sized lump with ill defined margins between the anterior and posterior border of left axilla, with irregular surface, and hard consistency.

The nipple areola complex was found to be normal.

The right breast examination was also normal.

The arms of the patient had no weakness in the pre-operative period.

PRE-OPERATIVE INVESTIGATIONS:

INVESTIGATION	FINDINGS
MAMMO-	Mammogram-irregularly shaped
SONOGRAPHY OF	lesion without internal calcification or
BOTH BREASTS	architectural distortion in left axilla.
	USG- approximately 19x47x37mm
	irregular bordered heterogeneous
	hypoechoic lesion with internal
	vascularity and sub capsular flow.
	Another approximately 13x20x15mm
	sized lesion with similar
	characteristics noted adjacent to
	above.
	Findings more in favour of metastatic
	lymphadenopathy.

Doppler of b/l upper limb	All vessels show normal Color flow and spectral waveform.
FNAC	Malignant lesion consistent with clinical diagnosis of possibility of metastatic ductal carcinoma of breast.
TRUCUT BIOPSY	Lymphoid tissue on fibrofatty background. No evidence of Koch's or malignancy.

PROCEDURE-

After positioning the patient with her left shoulder elevated, arm abducted and extended, an elliptical incision of approximately 15cm was kept.

Upper and lower flaps created.Extensive fibrosis present in the lower flap which was cut.

Fatty tissue of breast along with the Tumor dissected from the underlying clavipectoral fascia and pectoralis muscle.

The intercostobrachial nerve, nerve to serratus anterior, axillary artery, lateral thoracic artery were all safeguarded.

A necrotic node was present along the axillary vein which was carefully dissected out and removed.

Negative suction drain kept in flap and axilla.closure done in 2 layers.

Patient was then repositioned to neutral position and after extubation and shifted to ward.

POST OPERATIVE COURSE:

DAY	VITALS	EVENT	MANAGEMENT
0	6pm pulse-70 bpm Bp-120/70 Spo2-100% on room air	Tingling sensation over the left fingers and forearm D/o-50 cc hemorrhagic	Started all orally after 6hrs of surgery
1	6am- p- 82bpm Bp-110/70 Spo2-100 on room air	Weakness of left upper limb with difficulty to start abduction of arm,inability to flex the elbow and extend the wrist against gravity.patient able to move and flex fingers. sensation remain normal D/o-100cc hemorrhagic	Inj. Methyl prednisolone 200mg given stat. Inj calcium glauconate 10cc given 12hrly

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PARIPEX - INDIAN JOURNAL OF RESEARCH | Volume - 12 | Issue - 01 | January - 2023 | PRINT ISSN No. 2250 - 1991 | DOI : 10.36106/paripex

2	6am- p-	Weakness of left	Tab.prednisolone
	88bpm	upper limb	5mg qds
	Bp-110/79	persists	Inj calcium
	Spo2-100%		gluconate 12hrly
	on room air	D/o- 40cc	Tab tamoxifen
		hemorrhagic	20mg hs started
		_	Physiotherapy
			regime started
3	6am-p-	Weakness persists	Tab pregabalin
	82bpm	_	75mg hs
	Bp-126/80	D/o-60cc serous	Tab neurobion forte
	Spo2-100%		bd started.
	on room air		

On post op day 6 flap drain removed. Axillary drain removed on pod 10.

POST-OPERATIVE INVESTIGATIONS:

DATE	INVESTIGATION	FINDINGS
31/5/22	X-ray L shoulder-Ap/oblique	Bones and joints
		under vision
		appear normal
31/5/22	X-ray cervical spine	No e/o cervical
		rib, visualised nad
8/6/22	Doppler study of left upper	All vessels have
	limb	normal Color flow
		and spectral
		waveform.
13/6/22	MRI BRACHIAL PLEXUS	Necrotic axillary
		lymph nodes,
		largest measuring
		20x34mm
		Tarlov cysts at
		roots of C8 and D1
		on left side, largest
		7x7mm at D1.
16/6/22	CECT ANGIOGRAPHY OF	Normal
	HEAD AND NECK	appearance with
		p/o hypoplastic left
		vertebral artery.
17/6/22	EMG-NCV	CMAP of lt.
		Axillary, lt.
		Infrascapular, lt.
		Dorsal scapular,
		lt.musculocutanoeo
		us nerve reduced
		more than 50%
		compared to Rt.
		Side.
		Findings s/o
		electrophysiologic
		al evidence of
		partial left sided
		brachial plexus
		injury involving C-
		5 C-6 nerve roots
31/5/22	Biopsy of operated mass	Histology of
		invasive ductal
		carcinoma with
		medullary like
		features and
		involvement of
		Dase.
		4/5 lymph nodes
		positive for Tumor
		Cell
		TINM- TZN2aMx

CONCLUSION:

In the case of mrm, any post operative upper limb weakness occurring can most probably be due to a result of either a preexisting condition getting aggravated or improper shifting of the patient. It might rarely be due to the actual surgical procedure as the dissection plane is below the level of the brachial plexus.

The investigations post operatively should cover the bone anatomy, the vasculature as well as the nerve conduction and muscle strength to sequentially rule out the possible causes.

The early detection of the weakness and taking proper steps in the management of the same are crucial not only for the physical well being of the patient but also his/her emotional well being.

Here we would like to highlight the role of physiotherapy as well in helping the patient to recover fully from the ailment.

IMAGES:

Post-operative day 2:





patient unable to flex her elbow,supporting the same with other inability to abduct the shoulder With the shoulder hanging lower

Post physiotherapy sessions for 1 month





Abduction at shoulder without any support

Flexion of the elbow and the wrist possible



MRI image of a Tarlov cyst

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