OR, SURAJIT KUNDU SR LECTURER DEPT. OF ANATOMY

MAITR INSTITUTE OF DENTAL SCIENCES

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RESEARCH CENTRE ANJORA, DURG, CHHATTISHGARH

INTRODUCTION

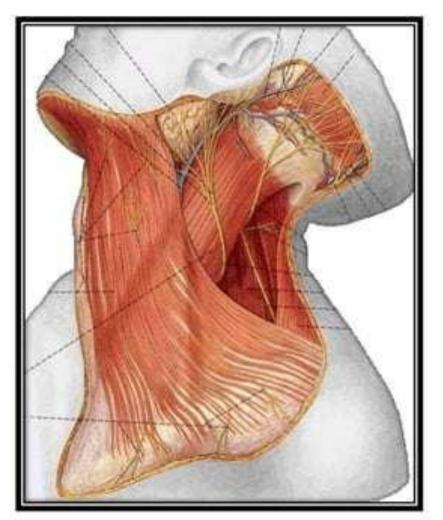
- FASCIA MEANS FIBROUS CONNECTIVE
 TISSUE WHICH BINDS TOGETHER
 VARIOUS STRUCTURES OF THE BODY
 - > ALWAYS OF 2 TYPES- SUPERFICIAL FASCIA & DEEP FASCIA
 - > SUPERFICIAL FASCIA IS SUBCUTANEOUS-PRESENT JUST BELOW THE SKIN
 - > DEEP FASCIA IS PRESENT ARROUND
 MUSCLES BLOOD VESSELS & ORGANS OF THE
 BODY

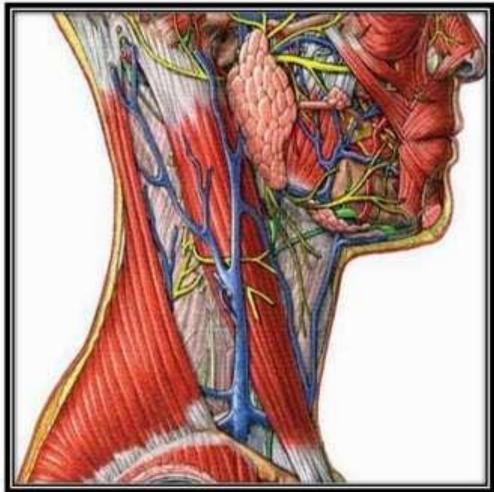
DEEP CERVICAL FASCIA

*DEEP FASCIA ARROUND THE NECK IS
KNOWN AS DEEP CERVICAL
FASCIA OR FASCIA COLLI AS
IT FORMS A COLLAR ARROUND THE
NECK

LIES DEEP TO PLATYSMA MUSCLE IN THE INTERVAL B/W MUSCLES, VESSELS & ORGANS OF THE CERVICAL REGION

*GIVES VARIOUS EXTENSIONS OR

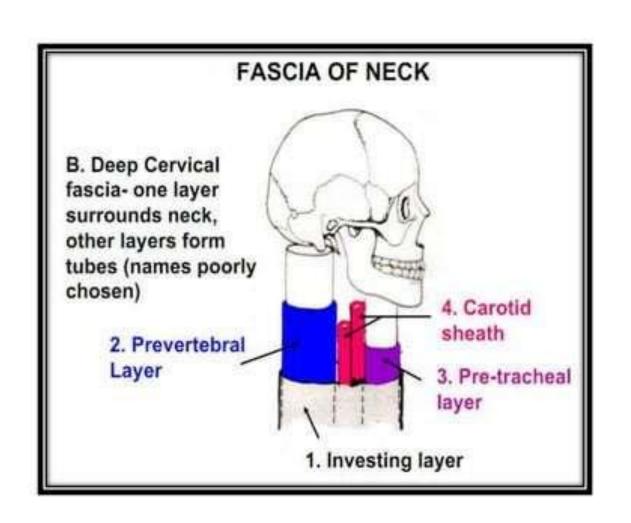




MODIFICATIONS/ LAMINAE/EXTENSIONS OF DEEP CERVICAL FASCIA

HAS 7 MODIFICATIONS

- 1. INVESTING LAYER
- 2. PRETRACHEAL LAYER
- 3. PREVERTEBRAL LAYER
 - 4. CAROTID SHEATH
- 5. BUCCOPHARYNGEAL FASCIA
 - 6. TEMPORAL FASCIA
- 7. PHARYNGOBASILAR FASCIA



INVESTING LAYER

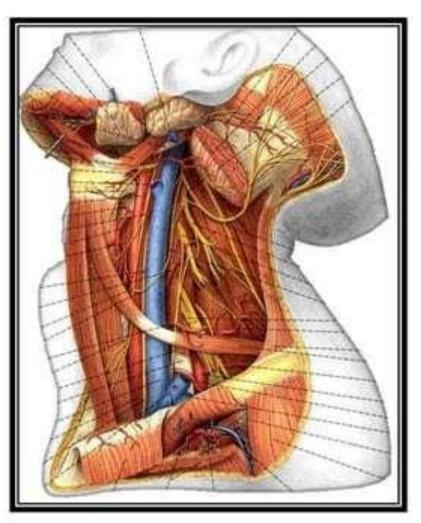
ATTATCHMENTS

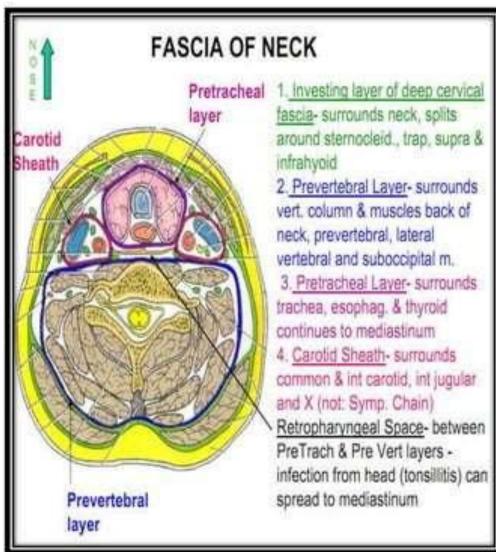
- ABOVE-EXTERNAL OCCIPITAL
 PROTUBERANCE, MASTOID PROCESS, EXTERNAL
 ACOUSTIC MEATUS, BASE OF THE MANDIBLE
- BELOW- SPINE OF SCAPULA, ACROMION PROCESS, CLAVICLE, MANUBRIUM STERNI
 - FRONT- HYOID BONE & CONTINUOUS WITH THE FASCIA OF THE FASCIA OF THE OPPOSITE SIDE
 - BEHIND 7TH CERVICAL VERTEBRA, LIGAMENTUM
 NUCHAE

INVESING LAYER

- TRACINGS
- HORIZONTAL TRACING-
- ENCLOSES 2 MUSCLES- TRAPEZIUS & STERNOCLEIDOMASTOID
- FORMS INTERMEDIAE FOR DIGASTRIC & OMOHYOID MUSCLES
 - FORMS ROOF OF 2 TRIANGLE- ANTERIOR & POSTERIOR
 - GIVES 2 LAMINA FOR PRETRACHEAL & PREVERTEBRAL FASCIA

- VERTICAL TRACING
- ENCLOSES 2 GLAND- PAROTID & SUBMANDIBULAR
 SALIVARY CLAND

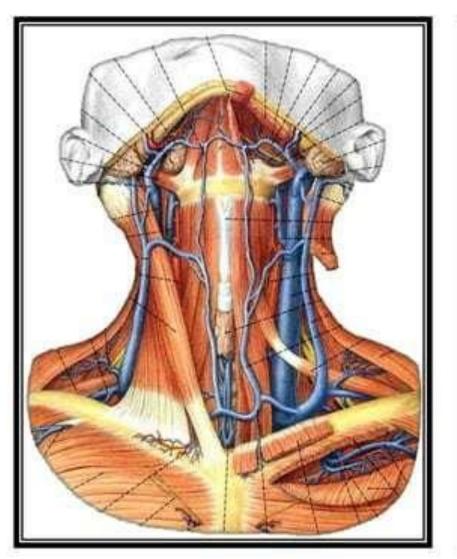


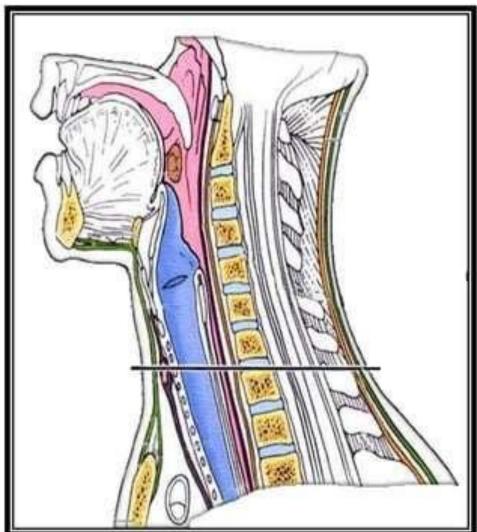


SUPRASTERNAL SPACE

- FORMED BY SPLITTING OF INVESTING LAYER OF DEEP CERVICAL FASCIA AT THE UPPER BORDER OF STERNUM WHICH GETS ATTATCHED TO ANTERIOR & POSTERIOR BORDER OF SUPRA-STERNAL NOTCH
- ENCLOSES A SPACE KNOWN AS SUPRA-STERNAL
 SPACE OR SPACE OF BURNS
 - CONTENT OF THE SPACE

INTER-CLAVICULAR LIGAMENT, STERNAL HEAD OF STERNOCLEIDOMASTOID MUSCLE, JUGULAR VENOUS ARCH. LOOSE AREOLAR TISSUE





SUPRACLAVICULAR SPACE

 FORMED BY SPLITTING OF INVESTING LAYER OF DEEP CERVICAL FASCIA AT MIDDLE 3RD OF CLAVICLE & GETS ATTATCHED TO ANTERIOR & POSTERIOR BORDER OF UPPER SURFACE OF CLAVICLE

- ENCLOSES A SPACE KNOWN AS
 SUPRACLAVICULAR SPACE
 - CONTENT OF THE SPACE
- SUPRACLAVICULAR NERVES, EXTERNAL JUGULAR VEIN

CLINICAL ANATOMY

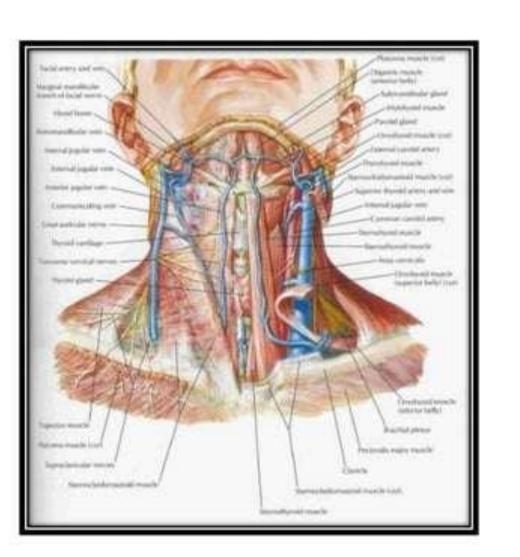
• BECAUSE OF THE PRESENCE OF THICK TOUGH PAROTIDO-MASSEERIC FASCIA WHICH COVERS THE PAROTID GLAND SWELLINGS OF THE PAROTID GLAND (MUMPS, PAROTITIS) ARE VERY PAINFULL

PRETRACHEAL FASCIA

• IT IS ONE OF THE LAMINA OF DEEP CERVICAL FASCIA THAT ARISES DEEP TO STERNOCLEIDOMASTOID MUSCLE

- HORIZONTALLY THE FASCIA ENCLOSES THE
 THYROID GLAND & THEN BECOMES CONTINUOUS
 WITH THE FASCIA OF THE OPPOSIDE SIDE
- VERTICALLY THE FASCIA IS ATTATCHESD TO HYOID BONE & THEN DOWNWARDS IT ENCLOSES THYROID GLAND & RUNS DOWMWARDS & FINALLY GETS ATTATCHED TO PERICARDIUM OF THE

HEADT



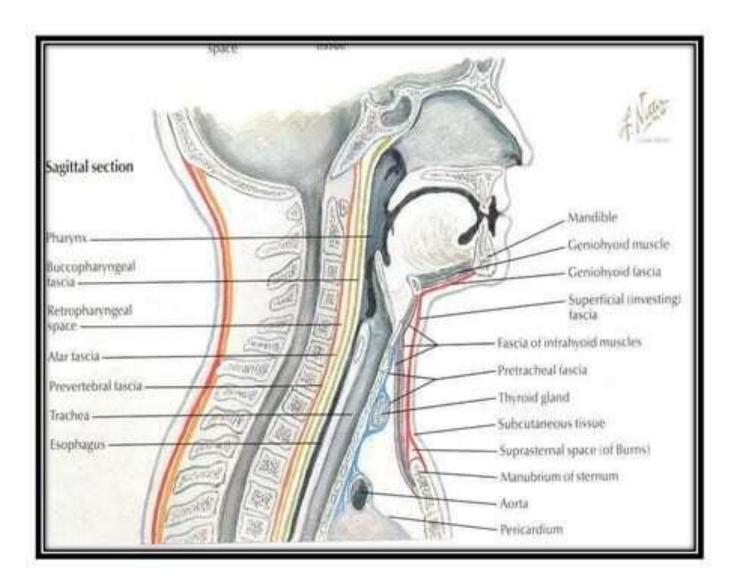
CLINICAL ANATOMY

- THE FASCIA FORMS THE OUTER FALSE CAPSULE OF THYROID GLAND, POSTERIOR PART OF WHICH IS THIN & NOT WELL DEFINED. HENCE THYROID SWELLINGS GROWS POSTERIORLY & MAY COMPRESS THE OESOPHAGUS CAUSING DYSPHAGIA
- A THYROXO GLAMO MOVES MITH DEGULITITION AS THE POSTERIOR ASPECT OF THE GLAND IS ATTATCHED TO THE GRAND IS ATTATCHED TO THE GRAND AS A THICKENING OF PRETRACTER AS A SECURITY OF THYROLOGY AS A SECURITY OF THYROLOGY AS A SECURITY OF THYROLOGY AS A SECURITY AND ASSESSMENT OF THYROLOGY AS A SECURITY AND A SECU
 - DURING THYROID SURGERIES THE LIGAMENT OF BERRY HAS TO BE CUT TO MOBILISE THE TYHROID GLAND
 - EMBARRESMENT OF THE HEART AS THE LOWER

PREVERTEBRAL FASCIA

 IT IS ONE OF THE LAMINA OF DEEP CERVICAL FASCIA THAT ARISES DEEP TO STERNOCLEIDOMASTOID MUSCLE

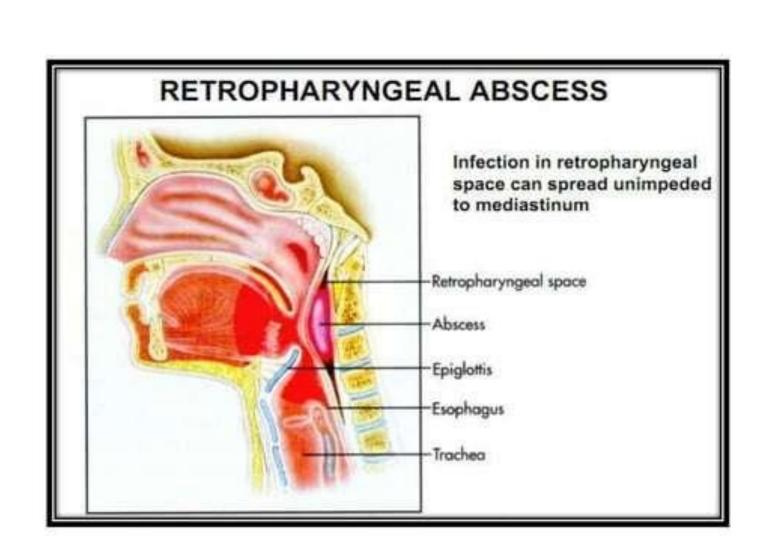
- LIES IN FRONT OF CERVICAL VERTEBRAE & MUSCLES IN FRONT OF IT
 - HORIZONTALLY IT FORMS THE FLOOR OF THE POSTERIOR TRIANGLE & FINALLY EXTENDS UPTO AXILLA AS AXILLARY SHEATH ENCLOSING THE AXILLARY VESSELS AND NERVES



CLINICAL ANATOMY

- DUE THE EXTENSION OF PREVERTEBRAL FASCIA
 AS AXILLARY FASCIA INFECTIONS OF VEREBRAECARIES SPINE (TUBERCULOSIS OF VERTEBRAE)
 MAY LEAD TO SPREAD OF PUS TO THE AXILLA,
 THE PUS MAY ALSO POIN AS AN ABSESS IN THE
 REGION OF THE POSTERIOR TRIANGLE
 - PREVERTEBRAL FASCIA FORMS THE
 POSTERIOR WALL OF
 RETROPHARYNGEAL SPACE

RETROPHARYNGEAL ABSESS CAUSES DYSPHAGIA



CAROTID SHEATH

 IT IS A FASCIAL SHEATH SITUATED DEEP TO STERNOCLEIDOMASTOID MUSCLE ON EACH OF THE FRONT OF THE NECK

FORMATION

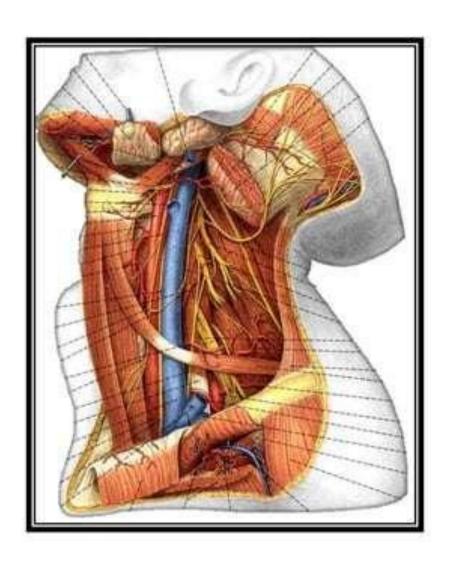
ANTERIOR WALL- BY PRETRACHEAL LAYER OF DEEP CERVICAL FASCIA POSTERIOR WALL- BY PREVERTEBRAL LAYER OF DEEP CERVICAL FASCIA

CONTENTS

 INTERNAL JUGULAR VEIN LATERALLY, COMMON CAROTID ARTERY (IN THE LOWER PART) & INTERNAL CAROTID ARTERY (IN THE UPPER PART) MEDIALLY, VAGUS NERVE IN B/W THEM IN A POSTERIOR PLANE

RELATIONS

ANTERIORLY- ANSA CERVICALIS
 POSTERIORLY - SYMPATHETIC TRUNK



THE PHARINGEAL FASCIAIS SEPARATED INTO TWO LAYERS WHICH SANDWHICH THE PHAREANGEAL MUSCLES B/W THEM-A THIN LAYER (buccopharyngeal fascia) COATS THE **OUTSIDE OF THE MUSCULAR PART OF** THE WALL: A MUCH THICKER LAYER (pharyngobasilar fascia) LINES THE INNER SURFACE. **TMPORAL FASCIA- THICK FIBROUS** SHEET WHICH COVERS TEMPORALIS

MUSCLE & FORMS THE ROOF OF

