## MANAGEMENT OF LARGE/GIANT HERNIAS

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# HERNIA IS ONE OF THE MOST COMMON SURGICAL PROBLEM BUT GAINT HERNIAS ARE VERY SELDOM TO ENCOUNTER AND CHALLENGING TO TREAT

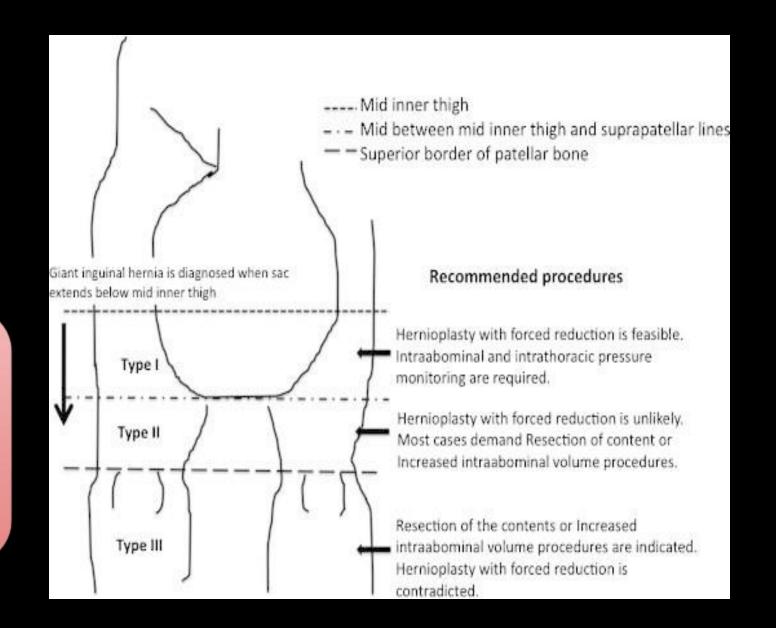
GAINT INGUINAL HERNIAS
LARGE VENTRAL HERNIAS

## WHAT IS A GAINT INGUINAL HERNIA

A GAINT INGUINAL HERNIA IS DEFINED
AS "THE HERNIA
WHICH EXTENDS
BELOW THE
MIDPOINT OF THIGH
IN STANDING
POSITION"



#### GAINT INGUINAL HERNIA S NEW CLASSIFICATION IS





IT IS DEFINED AS

"DEFECT MORETHAN 10 CM IN ANY DIMESION WITH LOSS OF DOMAIN"

ABDOMINALCT VOLUMETRY "HERNIAL VOLUMEIS ALMOST 30% OF ABDOMINAL VOLUME"IS CONSIDERED AS GAINT VENTRAL HERNIA



# MHAL DO ME LHINK ŚŚŚŚŚŚŚ

IS IT REDUCIBLE \$\$\$\$\$

IS IT MANAGABLE AT MY CENTRE???

IF NO—

IF YES---

YES/NO

REFER TO HIGHER CENTRE WHERE A COMPLICATION CAN BE MANAGED

IS THERE ANY STANDARD TECHNIQUE?

WHAT ARETHE OPTIONS TO MANAGE

WHAT COMPLICATIONS CAN ARISE?

BECAUSE OF RARE PRESENTATION OF SUCH CASES THERE ARE NO STANDARD TECHNIQUES

ANY STANDARD TECHNIQUE MOSTLY DEPENDENT ON SURGEON S CHOICE INTRAOPERATIVE PERIOD

IN LITERATURE NO SERIES OF CASES PRESENTED RATHER MANY DIFFERENT SINGLE CASE PRESENTATIONS WERE THERE FROM DIFFERENT CENTRES

WHAT ARE THE OPTIONS ? BEFORE WE
THINK OF
OPTIONS WE
SHOULD KNOW
ABOUT THE
COMPLICATIONS
WHILE DEALING
WITH SUCH
PROBLEMS

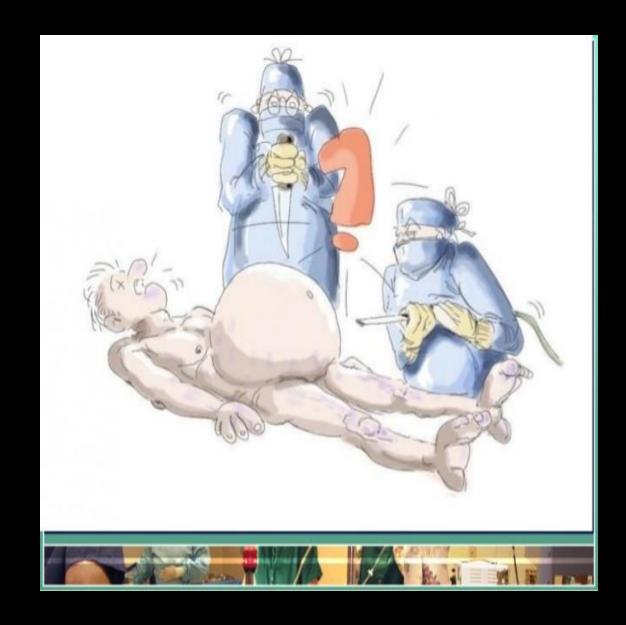
KNOWLEDGE
ABOUT THE
COMPLICATIONS
WILL GUIDE US
TO TAKE A
PROPER
DECISION

WHAT TO KNOW WHICH MAKES OUR LIFE EASY KNOWING ABOUT THE LOSS OF DOMAIN OF INTRA ABDOMINAL CAVITY –IT IS THE CRUCIAL INFORMATION TO KNOW IN THE MANAGEMENT AND OUTCOME OF THE SURGERY

WETHER TO INCREASE THE ABDOMINAL CAVITY SPACE OR REDUCE THE CONTENTS TO KEEP IN THE ABDOMINAL CAVITY OR ABDOMINAL WALL RECONSTRUCTION

AVOID INCREASE IN THE ABDOMINAL CAVITY PRESSURE

WHAT IS IT
ANY
SURGEON
IS WORRIED
ABOUT



INTRA ABDOMINAL HYERTENSION (IAH) •ITS EVERY SURGEONS
NIGHTMARE -----WHEN WE
DON T FIND A WAY TO
COME OUT OF THE
SURGERY

# IAH\$

#### IAH IS DEFINED

AS -----SUSTAINED INTRA
ABDOMINAL PRESSURE > 12
mmHg WHICH IS MONITORED
BY STANDARD TRANSBLADDER
TECHNIQUE



# WHAT ARE THE CONCERNS ABOUT THE IAP??



NORMAL •0-5 mmHg



NORMAL IN ICU PATIENTS

•5-7 mmHg



IAH

•>12 SU ATAINED PRESSURE



IMPENDING ACS 15-20mmHg



ACS

>20 SUSTAINED WITH OR WITHOUT APP<60mmHg

ABDOMINAL PERFUSION PRESSURE IS =

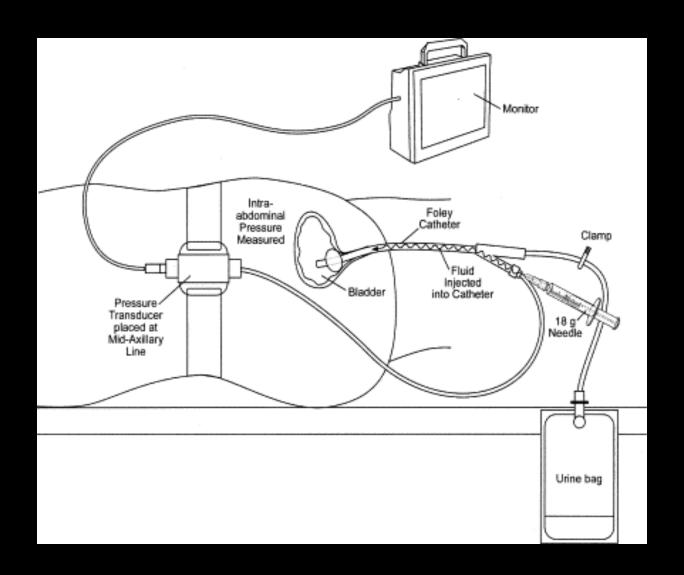
MEAN ARTERIAL PRESSURE – INTRA ABDOMIAL PRESSURE

WHATIS ABDOMINAL PERFUSION PRESSURE??

WHY IS IT SO IMPORTANT??

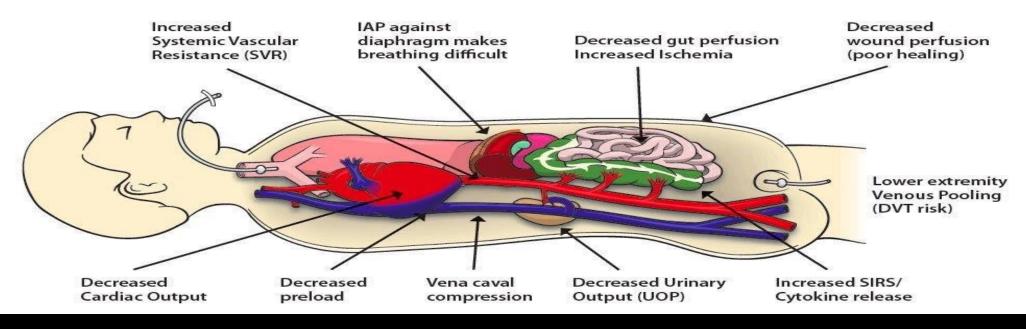
A TARGET APP OF AT LEAST 60mmHg IS CORROLATD WITH IMPROVED SURVIVAL FROM IAH AND ACS WAS FOUND TO BE BETTER THAN OTHER RESSUSCIATION END POINTS eg: HOURLY URINE OUT PUT FOR PREDICTING OUTCOMES.

HOW TO MONITOR IAP BY STANDARD TRANSVESICULAR TECHNIQUE

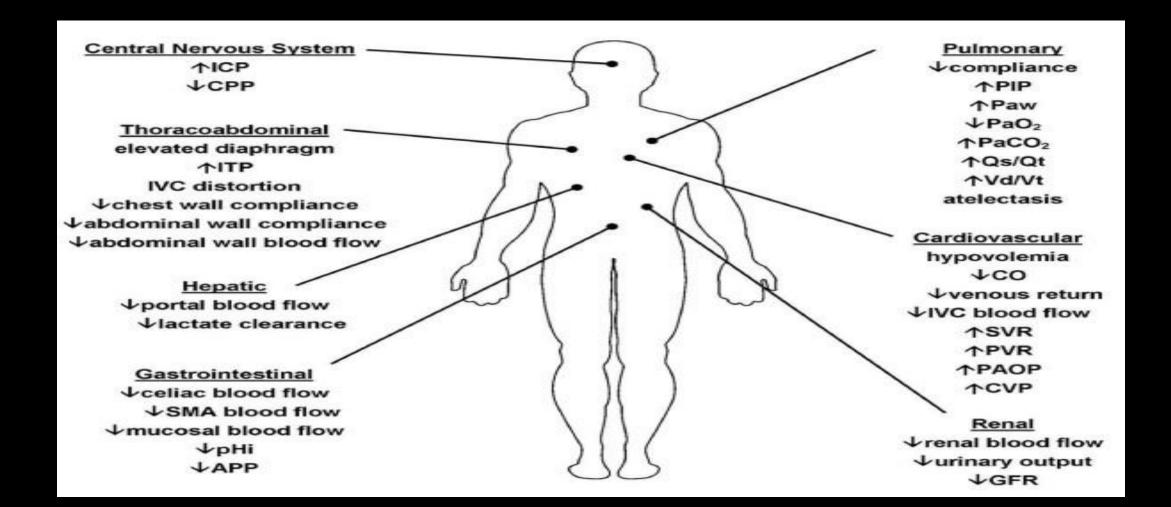


# PHYSIOLOGICAL CHANGES WITH INCREASED IAP

### Increasing Physiologic Compromise IAP 12 – 15 mmHg

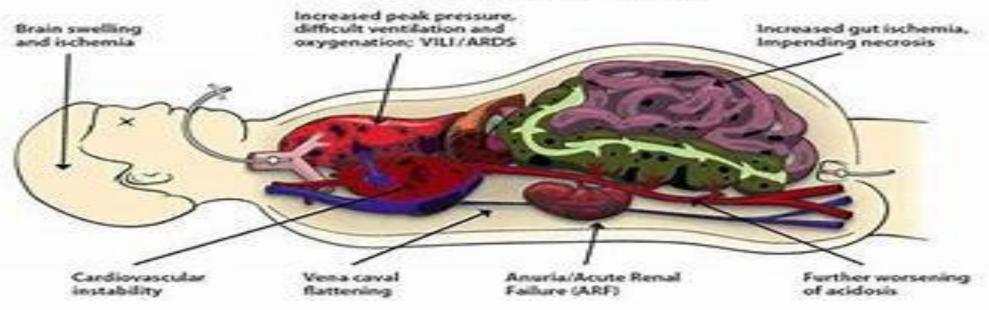


#### PATHOPHYSIOLOGY IN ACS



#### IN ACS

### Onset of Multiple Organ Dysfunction Syndrome (MOD IAP > 20 mmHg



HOW TO INCREASE
THE ABDOMINAL
CAVITY SPACE TO
ACCOMIDATE THE
CONTENTS

PRE OPERATIVE PROGRESSIVE PNEUMOPERITONEUM

DISADVANTAGE: PROLANGED PREOP HOSPITAL STAY 7 TO 10 DAYS , / ENTRAPEMENT OF GAS IN THE HERNIAL SAC/STRANGULATION DUE TO NARROW NECK OF THE DEFECT ECT.

USING A CATHETER PLACED INTRAABDOMINALLY – INSUFFLATE THE ABDOMEN DAILY UPTO 500 TO 2000CC USING CO2 /OXYGEN/NITROUS OXIDE.

# REDUCTION OF THE CONTENTS

COMMONLY
BY COLON
AND OMENTAL
RESECTION

RECONSTRUCTION OF THE ABDOMINAL WALL

#### FEW TECHNIQUES KNOWN FROM THE LITERATURE ----

ROTATION OF THE VIABLE TISSUE TO INCREASE THE ABDOMINAL WALL SURFACE BY COVERING THE MIDLINE DEFECT ON TOP OF WHICH PROSTHETIC MESH IS PLACED.

TISSUE USED FOR IT ARE---

SCROTAL MUSCULOCUTANEOUS FLAP

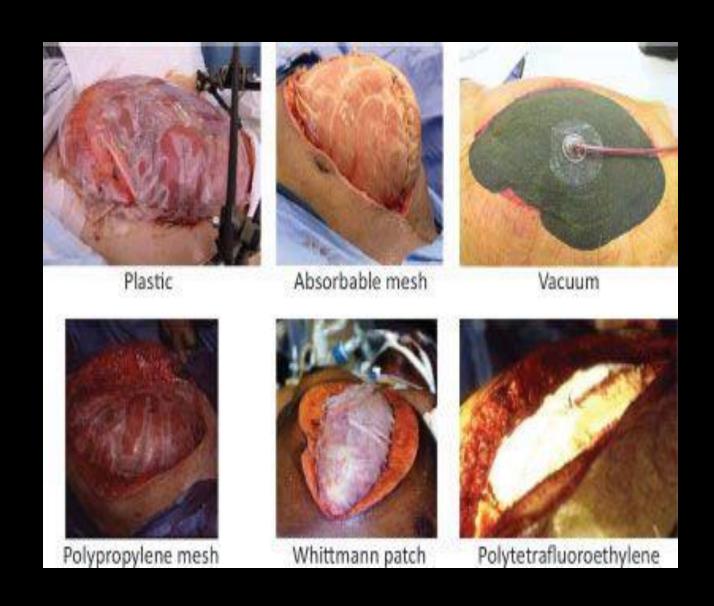
HERNIAL SAC USED AS PERITONEUM AND ABOVE WHICH MESH IS PLACED

TENSOR FASCIA LATAE IS USED ALTERNATIVELY

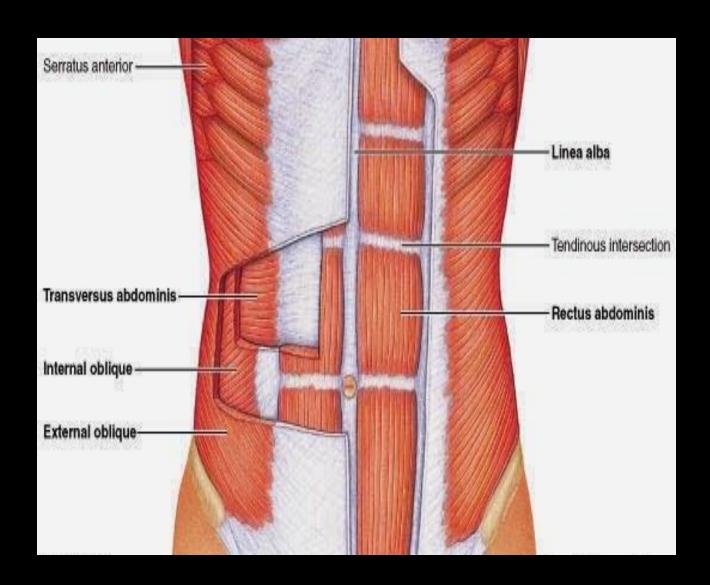
DUALMESH /BIOMESH

COMPONENT SEPARATION TECHNIQUE

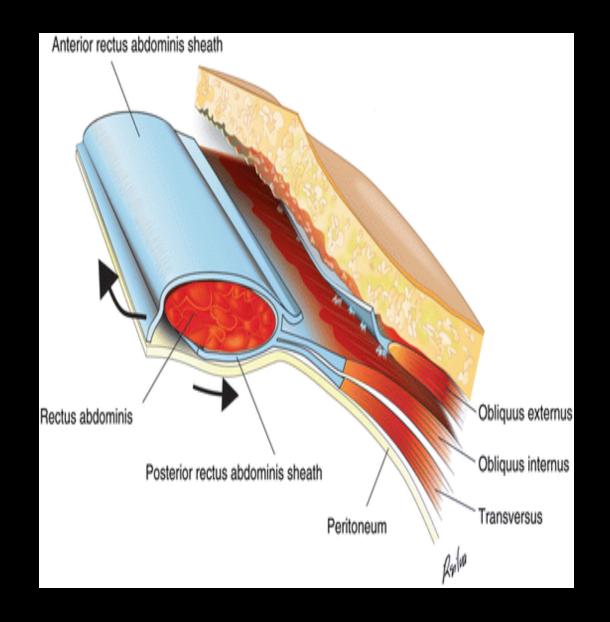
DIFFERENT TYPES OF MATERIALS USED TO APPROXIMATE THE ABDOMEN IN STAGED OR SINGLE PROCEDURE

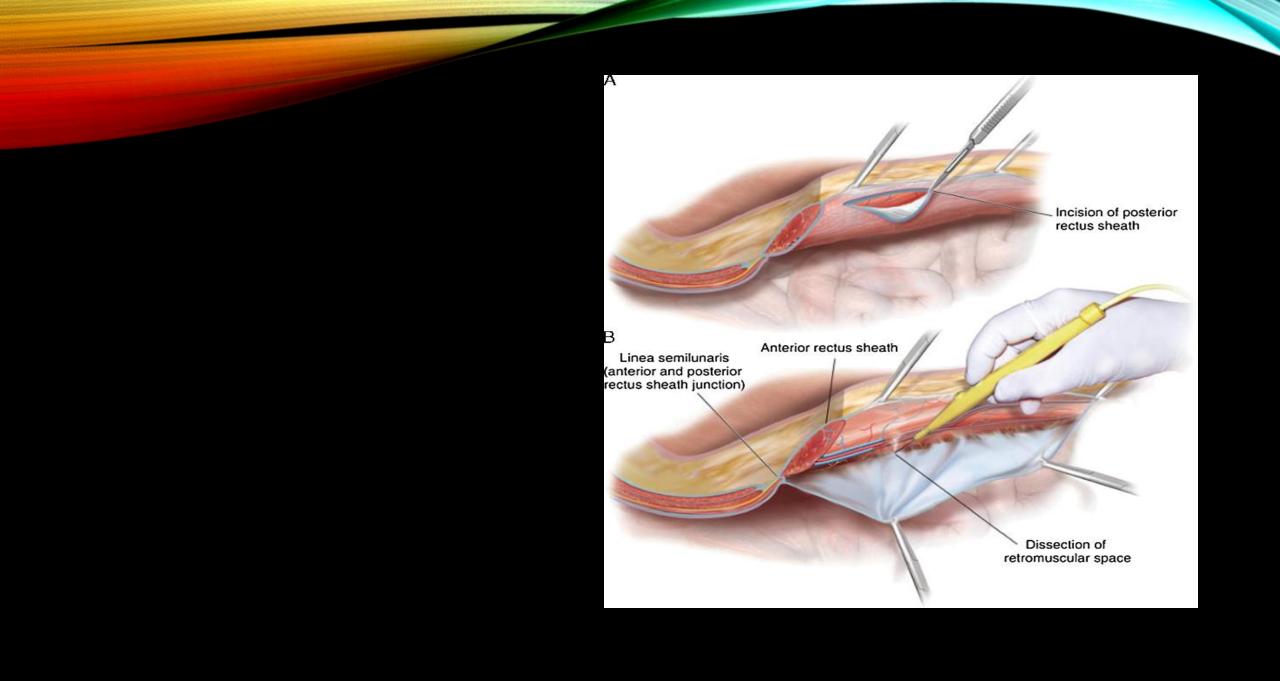


# ABDOMINAL WALL

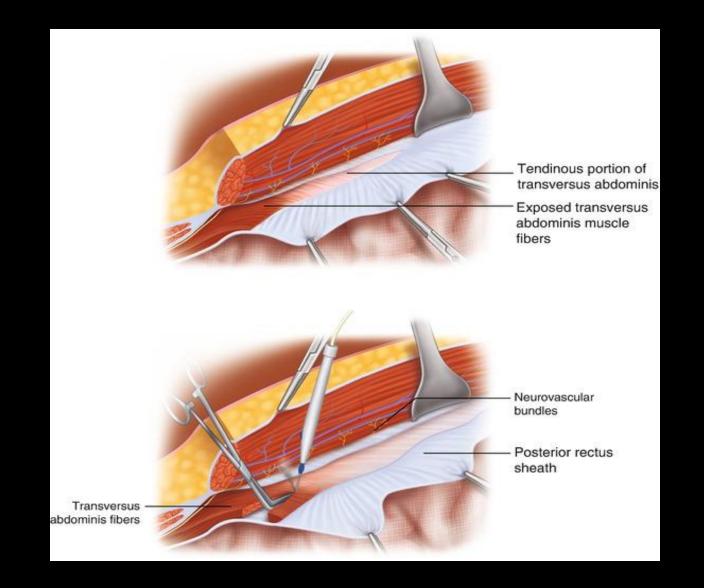


#### COMPONENT SEPARATION TECHNIQUE

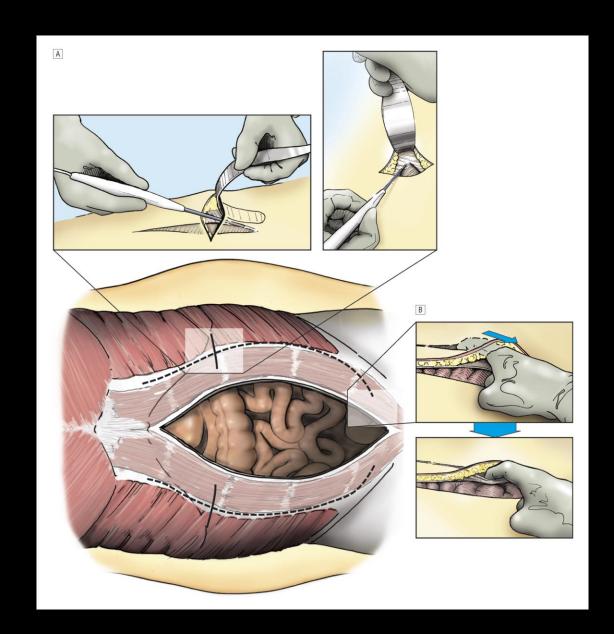




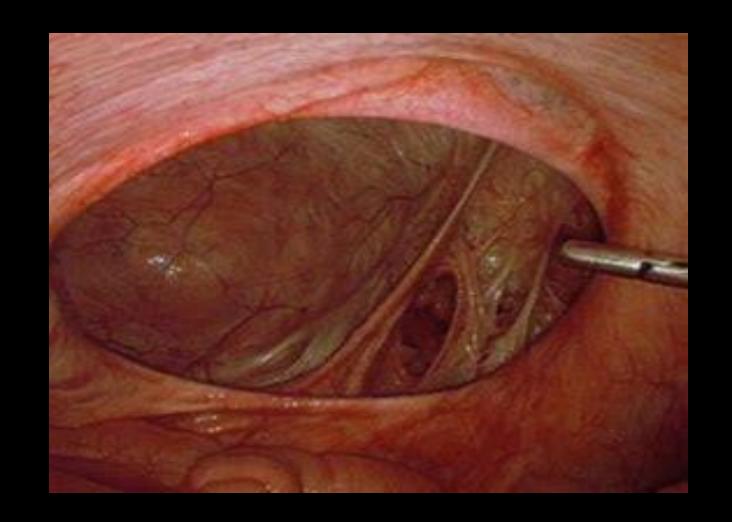




ANT RECTUS
SHEATH
SEPARATION WITH
MINIMAL INCISION

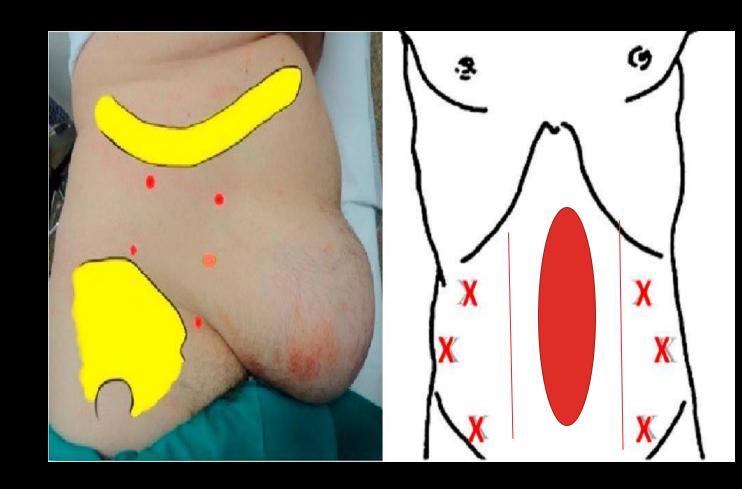


LAP VIEW OF A LARGE HERNIA

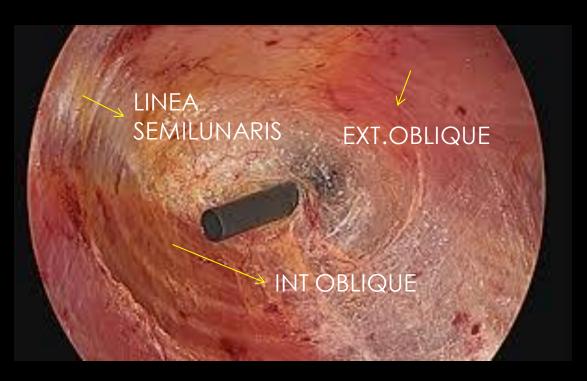


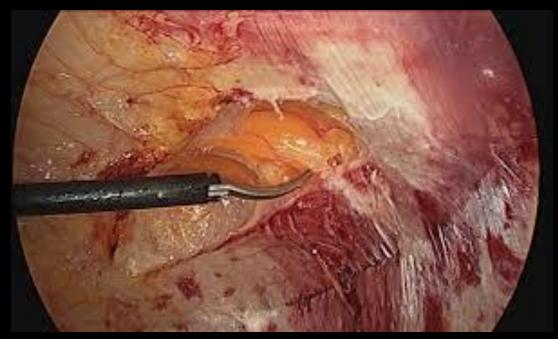
## LAPAROSCOPIC TECHNIQUE

PORT POSITIONS



# LAP VIEW OF COMPONENT SEPARATION TECHNIQUE





## COMPLICATIONS

FLAP NECROSIS

MESH INFECTION

ANASTAMOTIC LEAK

REEXPLORATION FOR ABDOMINAL COMPATMENT SYNDROME

RECCURENCE OF HERNIA

## CONCLUSION

A PROPER PRE OP EVALUTION

A PROPER PRE OP PREPARATION

COUNSELLING ... COUNSELLING ... COUNSELLING THE PT AND ATTENDERS

KEEP TWO /THREE OTIONS IN PLACE AS EVERYTHING MAY NOT GO AS WE PLAN ALL THE TIME

BETTER TO DO AT PROPER CENTRE WITH BETTER FACILITIES TO DEAL WITH POST OP COMLICATIONS

AN EXPERIENCED SURGEON

#### I DO FOLLOW THIS

NEVER CRITICISE OTHER SURGEONS/DOCTORS

