Laparoscopic repair of Ventral Hernia

R.K. Mishra
Access through palmer's point
One 2mm stab incision is given with 11 number knife through palmers point
Subcutaneous fat is cleared up to rectus sheath
• Veress Needle is introduced carefully.
• Stomach should must be deflated.
• Nasogastric tube is necessary.
• Splenomegaly is absolute contraindication.
Suction test, irrigation test and hanging drop test is performed to confirm correct entry.
Insufflation should continue till quadromanometric indicators are satisfactory.
Trocar is introduced perpendicular to abdominal wall carefully to avoid injury of stomach and splenic flexor of colon.
Telescope is introduced and any intra-abdominal adhesion is looked for.
Working ports are placed according to Base-ball diamond concept
Three ports are generally required to perform laparoscopic ventral hernia repair.
Ports are strictly according to baseball diamond concept.
Proper size of either Prolene, vipro or any other newly available dual mesh is introduced. A central marking on the mesh is good practice to align it properly.
Operative Procedure

Video demonstrating laparoscopic repair of ventral hernia
Operative Procedure

Video of Laparoscopic repair of ventral hernia using prolene mesh
Two Port Repair of Hernia

Four stab wound at all the four corners of defect
Two Port Repair of Hernia

Two ports with 45 degree Azimuth angle
Two Port Repair of Hernia

Any intra abdominal adhesion can be removed using bipolar or harmonic scalpel
Two Port Repair of Hernia

Suture are tied at all the three corner of the mesh keeping enough free end.
Fourth corner of mesh is tied with suture introduced percutaneously.
Fourth corner of mesh is tied with suture introduced percutaneously.
The Mesh is spreaded nicely by giving proper traction at all the corners.
Two Port Repair of Hernia

The end of Mesh is tied outside and knot is slipped subcutaneously
Two Port Repair of Ventral Hernia

The end of Mesh is tied outside and knot is slipped subcutaneously
Stapler may be used if required through 10 mm port
Two Port Repair of Ventral Hernia

Video demonstrating two port ventral hernia
Complication

- Bowel Adhesion
- Fistulization
- Nerve Injury
- Vascular Injury
Thank You!

Prof. Mishra with Prof. Cuschieri at ninewells Hospital, U.K.