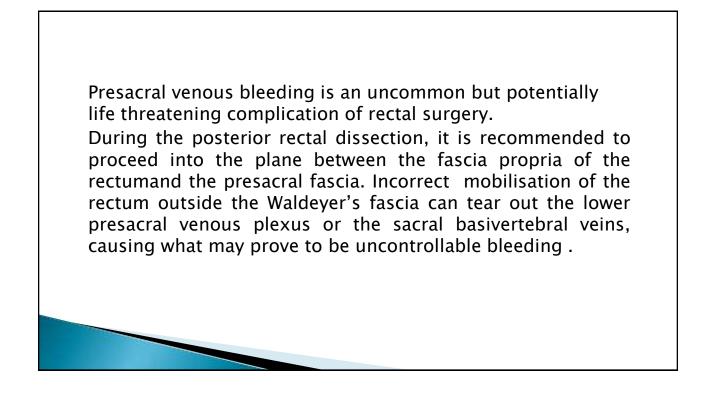
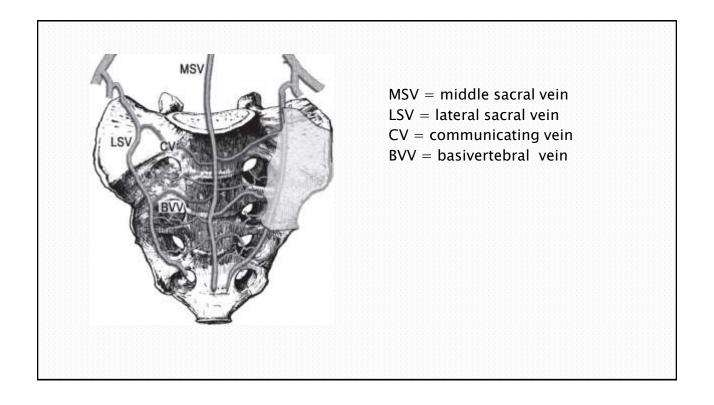
## PRESACRAL BLEEDING

Prof. Mohamed Saad Ellbishi





- Whenever PSB occurs, the first temporary manoeuvre is direct pressure at the point of bleeding together with aspiration of the accumulated blood.
  - Ligation of the internal iliac vein obstructs the drainage of the tributary veins, increasing the pressure in the PSVP and exacerbating the bleeding.

## The possible strategies for dealing with this challenging life threatening complication

## Packing techniques

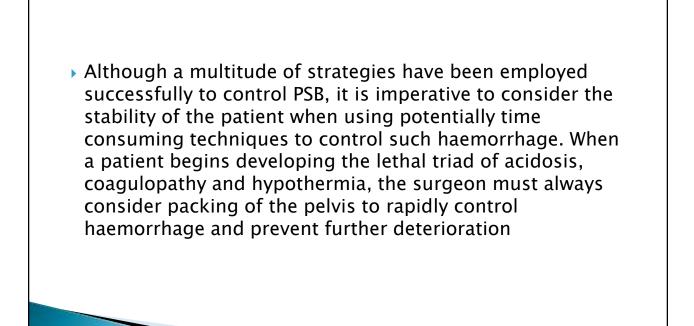
Traditional pelvic packing Silastic tissue expander Perineal Sengstaken-Blakemore tube Inflatable sterile saline bag Breast implant sizer Muscle tamponade

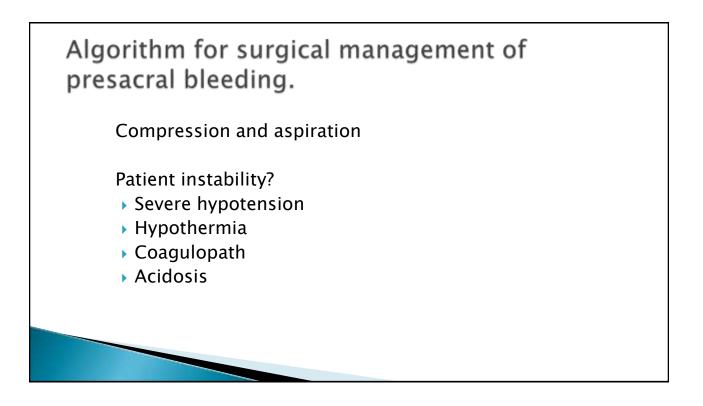
Tacking techniques Metallic thumbtacks



## Topical haemostatic agents

Haemostatic matrix + adsorbable haemostat Oxidised cellulose + cyanoacrylate glue Bone cement Bone wax <u>Direct/indirect electrocoagulation and suture</u> Muscle fragment welding Spray electrocautery Argon beam coagulation Bipolar coagulation Circular suture ligation <u>Other techniques</u> • Minimally invasive approaches have been increasingly applied to colorectal sugery and D'Ambra et al described a method to control PSB laparoscopically. The initial use of bipolar cautery or suturing is followed by cautery through an absorbable fabric mesh and if bleeding does not StOP, indirect cautery through an epiploic appendix or a piece of omentum is performed. If the second step fails, a small scrap of bovine pericardium graft is finally tacked to thebleeding site.





Algorithm for surgical management of presacral bleeding

NO Is the bleeding site clearly identified?

- Muscle fragment welding .
- Topical haemostatic agents .
- Tacking .

YES Packing with laparotomy pads

