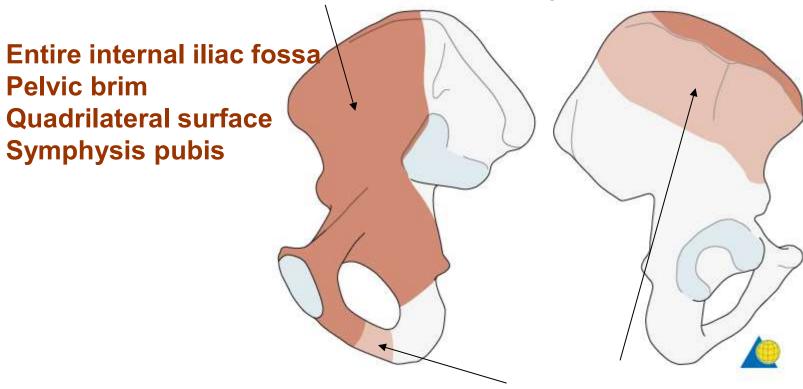
Ilioinguinal approach

葉祖德

三軍總醫院 骨科部

Ilioinguinal approach

Area which can be reached directly



Areas which can be reached by touch

Indication

- Anterior column
- Anterior wall
- Transverse
- Anterior column + posterior hemitransverse
- Both column
- Superior pubic ramus and symphysis pubis (in pelvic fracture)

Advantage

- Excellent access to ant./ internal pelvis
- Minimal heterotopic ossification
- Disadvantage / Danger
 - Extraarticular approach (unvisualized reduction)
 - Femoral nerve and vessel
 - Lateral femoral cutaneous nerve
 - Postoperative hernia

Patient positioning

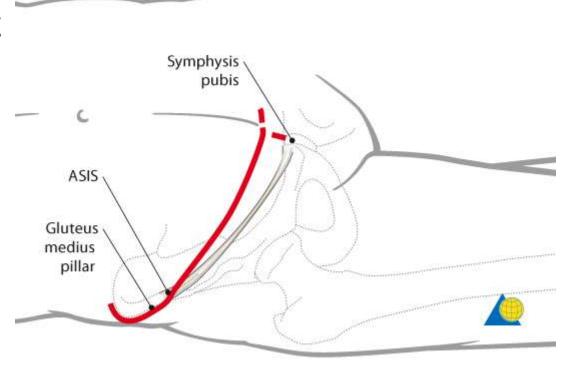
supine



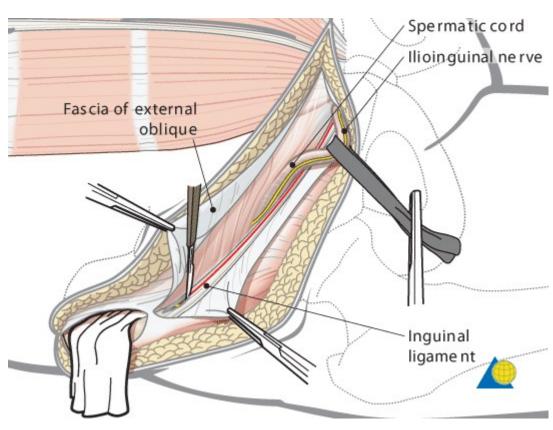
Release the Iliopsoas M. tension by Hip flexion

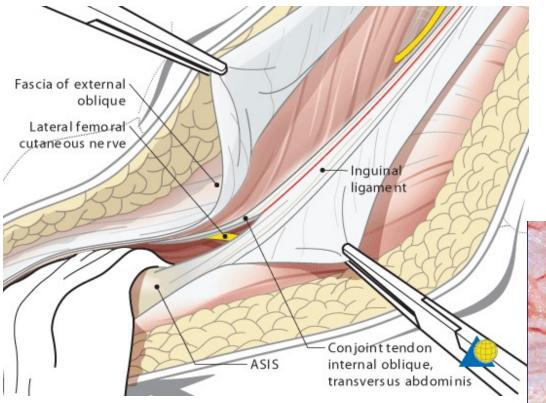
Skin incision

- 3-4 cm cranial to symphysis pubis
- Curve to ASIS
- Parallel iliac creast
- Past most convex portion of ilium



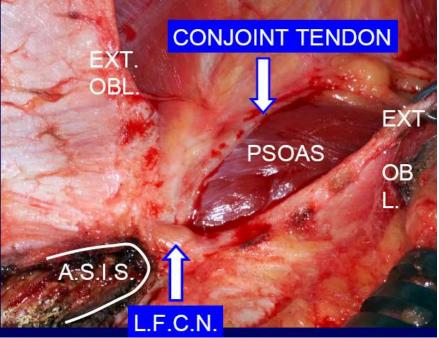
Release the external oblique muscular attachment from the inguinal ligament





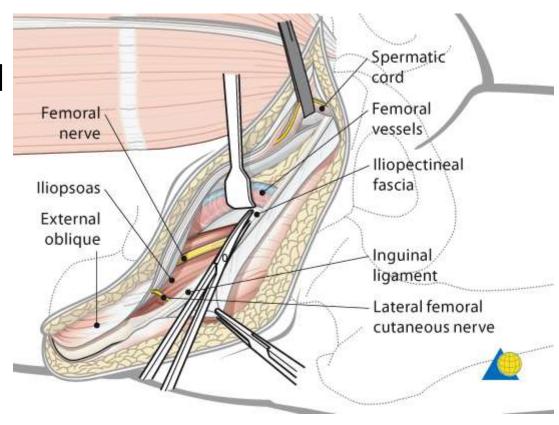
Caution!

Lateral femoral cutaneous N.

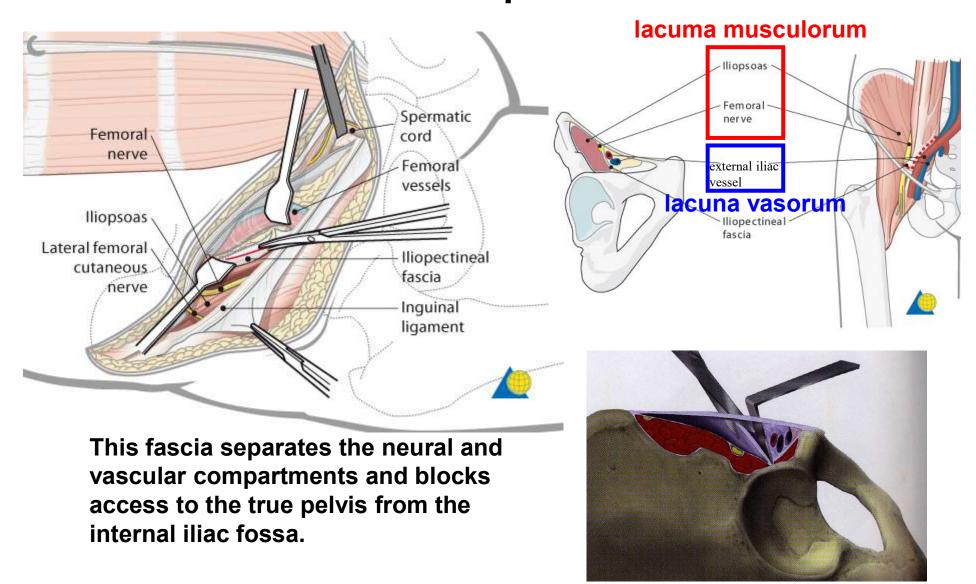


iliopectineal fascia

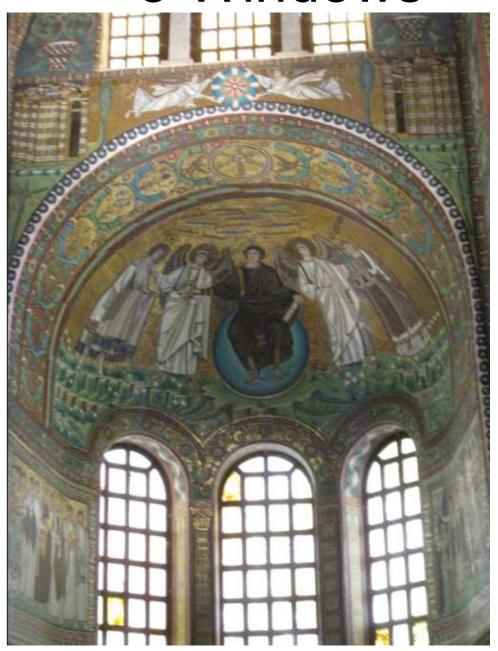
 The iliopectineal fascia is delineated by careful retraction of the femoral vessels medially and the femoral nerve and iliopsoas laterally. It is then divided distally, under direct visualization, down to the pubic root.



Release the iliopectineal fascia



3 Windows



ASIS/Lateral Femoral Cutaneous Nerve

Lateral window

iliopsoas M./Femur N.

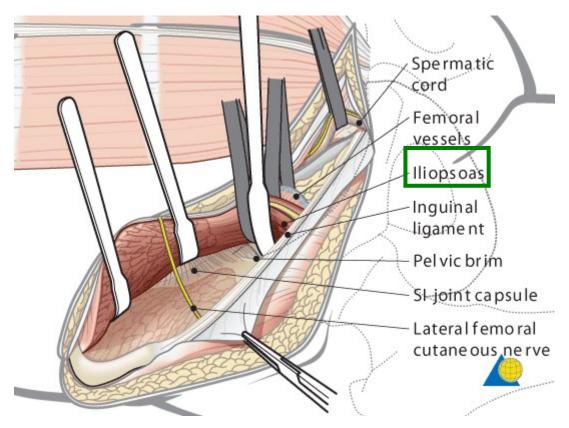
Middle window

External iliac Vessels

Medial window

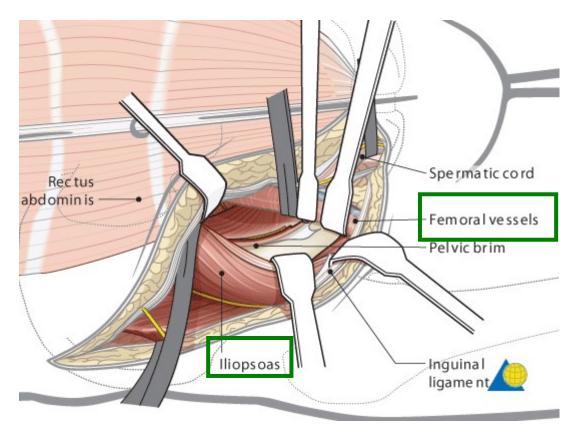
Spermatic cord/Round Lig./Ilioinguinal N./ Rectus abdominus M.

First (lateral) window



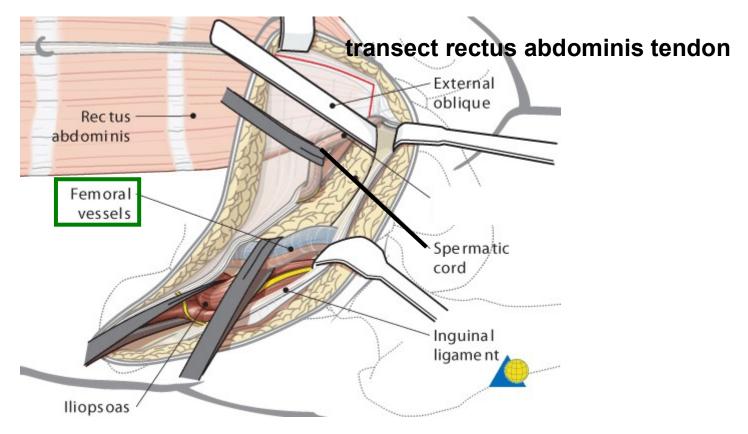
Access to: internal iliac fossa and anterior SI joint

Second (middle) window



Access to: pelvic brim and quadrilateral surface

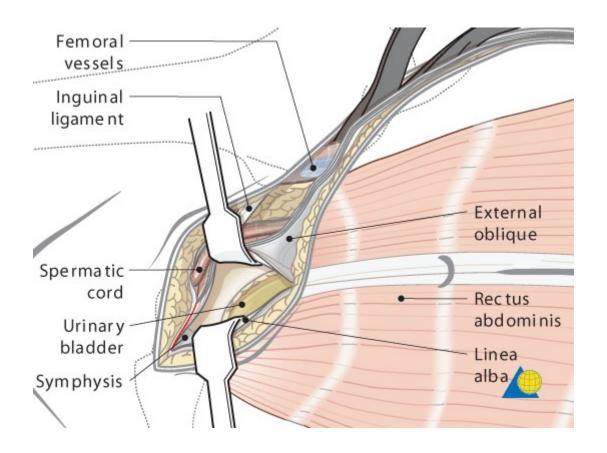
Third (medial) window



Access to: superior pubic ramus and retropubic space of Retzius

Third window

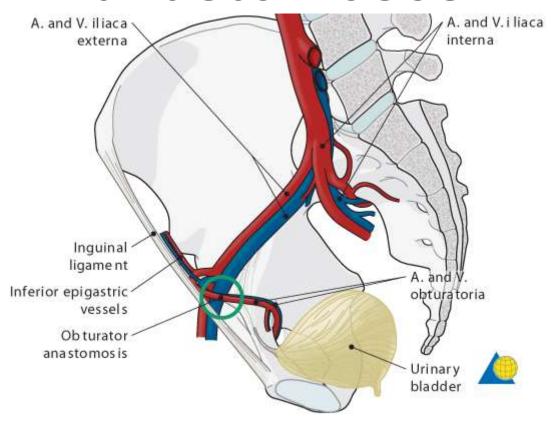
- The third window can be developed in a number of different ways. The most limited of these leaves the ipsilateral rectus insertion attached and visualization is provided between the rectus and the spermatic cord (or round ligament).
- Alternatively, if the fracture pattern requires, the entire medial portion of the superior ramus and symphysis can be visualized by release of the ipsilateral rectus insertion.
- The same visualization can be achieved by leaving the rectus attached and splitting the rectus heads in the midline. With the rectus still attached, retraction is carried out posterior to the rectus with a Hohmann retractor placed along the superior ramus.



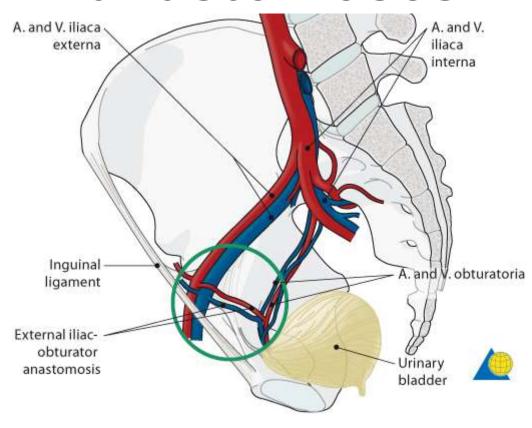
Retropubic vascular anastomoses

 From the opposite side of the patient, one can more easily see any retropubic vascular communications between the obturator vessels and either the inferior epigastric (corona mortis) or external iliac vessels. Such retropubic anastomoses, present in 40% or more of patients, are at risk of being torn.

Retropubic vascular anastomoses



Retropubic vascular anastomoses



Wound closure

