The Pelvis

**Key Boney Landmarks**

Pubic crest
Pectineal and arcuate lines
Sacral promontory
The Pelvis

Key Boney Landmarks

- Inferior pubic ramus
- Ischial ramus
- Ischial tuberosity
The Pelvis

**Key Boney Landmarks**

- Ischial spine
- Greater sciatic notch
- Lesser sciatic notch
Ligaments
Sacrospinous ligament
The Pelvis

**Ligaments**

Sacrotuberous ligament
The Pelvis

**Boundary Lines**

Pelvic inlet versus pelvic outlet
The Pelvis

**Boundary Lines**

Pelvic inlet versus pelvic outlet
The Pelvis

Regions
False pelvis versus true pelvis
Sexual Differences

Male Versus Female
Sexual Differences

Male Versus Female
The Perineum

Body Wall Muscle Pattern

Similarities to thorax and abdomen
Variations or differences
The Perineum

Perineal Triangles

Urogenital versus anal triangle
Pelvic and Perineal Muscles

**Body Wall Muscle Pattern**

Remember the basic pattern!!
Pelvic and Perineal Muscles

**Ventral Musculature**

Rectus abdominis muscle
Terminates - not present
Pelvic and Perineal Muscles

**Subvertebral Musculature**

- Psoas minor muscle
- Terminates - not present
Pelvic and Perineal Muscles

**Subvertebral Musculature**

Psoas major muscle
Annexed by the limb - not present
Pelvic and Perineal Muscles

**Lateral Musculature - Internal Layer**

- Levator ani muscle
- Pubococcygeus part
- Iliococcygeus part
Pelvic and Perineal Muscles

**Lateral Musculature - Internal Layer**

Ischiococcygeus muscle
Pelvic and Perineal Muscles

Lateral Musculature - Internal Layer

Evolutionary considerations
Pelvic and Perineal Muscles

Lateral Musculature - Middle Layer

Obturator internus muscle
Annexed by the lower limb
Pelvic and Perineal Muscles

Lateral Musculature - Middle Layer

Deep external anal sphincter
Male
Pelvic and Perineal Muscles

Lateral Musculature - Middle Layer

Deep external anal sphincter
Female
Pelvic and Perineal Muscles

**Lateral Musculature - Middle Layer**

Deep transverse perinei muscle

Male
Lateral Musculature - Middle Layer

External urethral sphincter muscle
Male
Pelvic and Perineal Muscles

Lateral Musculature - Middle Layer
Sphincter urethrovaginalis muscle
Female
Pelvic and Perineal Muscles

Lateral Musculature - Middle Layer

Compressor urethrae muscle
Female
Pelvic and Perineal Muscles

Lateral Musculature - Middle Layer

External urethral sphincter muscle
Female
Pelvic and Perineal Muscles

Lateral Musculature - Middle Layer

Summary of male muscles
Pelvic and Perineal Muscles

Lateral Musculature - Middle Layer

Summary of female muscles
Pelvic and Perineal Muscles

**Lateral Musculature - External Layer**

Obturator externus muscle
Annexed by the lower limb
Pelvic and Perineal Muscles

Lateral Musculature - External Layer

Superficial external anal sphincter

Male
Pelvic and Perineal Muscles

Lateral Musculature - External Layer

Superficial external anal sphincter
Female
Pelvic and Perineal Muscles

**Lateral Musculature - External Layer**

- Superficial transverse perinei muscle
- Ischiocavernosus muscle
- Bulbospongiosus muscle

Male
Pelvic and Perineal Muscles

**Lateral Musculature - External Layer**

- Superficial transverse perinei muscle
- Ischiocavernosus muscle
- Bulbospongiosus muscle

Female
Pelvic and Perineal Muscles

Lateral Musculature - External Layer

Summary of male muscles
Lateral Musculature - External Layer

Summary of female muscles
Pelvic and Perineal Muscles

Summary of Lateral Muscles

Perineal body

Male
Pelvic and Perineal Muscles

Summary of Lateral Muscles

Perineal body
Female
Pelvic Frontal Sections

Reviewing the Anatomy
Pelvic Cavity

Perineum
Perineum

Boundaries and Contents
Regions of the Perineum

Ischioanal fossa
Regions of the Perineum

Deep perineal pouch
Regions of the Perineum

Deep perineal pouch
Regions of the Perineum

Superficial perineal pouch
Pelvis and Perineum

Reviewing the Anatomy
Pelvis/Perineal Blood Vessels

Internal Iliac Somatic Arteries
Pelvis/Perineal Blood Vessels

Review of Major Pathways

Aorta
Common iliac artery
Internal Iliac Somatic Arteries

Internal iliac artery
Internal Iliac Somatic Arteries

Iliolumbar artery
Internal Iliac Somatic Arteries

Lateral sacral artery
Pelvis/Perineal Blood Vessels

Internal Iliac Somatic Arteries

Superior gluteal artery
Internal Iliac Somatic Arteries
Inferior gluteal artery
Pelvis/Perineal Blood Vessels

Internal Iliac Somatic Arteries

Obturator artery
Pelvis/Perineal Blood Vessels

Internal Iliac Somatic Arteries

Internal pudendal artery
Pelvis/Perineal Blood Vessels

Internal Iliac Visceral Arteries
Pelvis/Perineal Blood Vessels

Internal Iliac Visceral Arteries

Middle rectal artery
Internal Iliac Visceral Arteries

Superior vesical artery
Internal Iliac Visceral Arteries

Inferior vesical artery
Pelvis/Perineal Blood Vessels

Internal Iliac Visceral Arteries

Uterine artery
Pelvis/Perineal Blood Vessels

Internal Iliac Visceral Arteries

Obliterated umbilical artery
Pelvis/Perineal Blood Vessels

Veins of the Pelvis/Perineum
Body Wall Nerves
Pudendal nerve
Pelvis/Perineal Innervation

**Visceral Nerves**

Sympathetic nerves
Pelvis/Perineal Innervation

**Visceral Nerves**

Parasympathetic nerves