Pituitary

The sella shows normal size, position, and configuration. The borders of its floor and walls are smooth and sharply defined. The pituitary shows normal position, shape, and size. The pituitary tissue shows normal, homogeneous density both before and after contrast administration. It contains no circumscribed hypodense or hyperdense areas. The infundibulum is centered and of normal size. The optic chiasm and suprasellar CSF spaces appear normal. The cavernous sinus and imaged portions of the internal carotid artery and carotid siphon are unremarkable. Evaluable portions of the neurocranium show no abnormalities. The sphenoid sinus is clear and pneumatized.

Interpretation

The pituitary appears normal.

Important Data

1 Pituitary:
   a Height (in the midcoronal plane): 2–7 mm
   Caution: allow for normal size variations during:
   • Pregnancy: up to 12 mm
   • Puberty: up to 10 mm in girls, up to 8 mm in boys
   b Width (transverse extent in coronal plane, women of childbearing age): 12.9 mm ± 1.6 mm
   Area of the pituitary in the coronal plane (height x width, women of childbearing age): 93 mm² ± 1.6 mm²

2 Optic chiasm:
   • Coronal: a, width 9–18 mm; b, height 3–6 mm
   • Axial: c, width 12–27 mm; d, depth 4–9 mm

3 Pituitary stalk:
   • < 4 mm
**Checklist**

**Sella**
- Position
- Configuration (U shape)
- Walls steep, not splayed, of normal size
- Normal width of floor and walls
- Borders smooth and sharp

**Pituitary**
- Position:
  - At the center of the sella
- Configuration:
  - Bean-shaped
  - Superior border straight or slightly concave (convex only during puberty or pregnancy)
- Size (see below)
- Density:
  - Pituitary tissue homogeneous on noncontrast scans
  - Homogeneous contrast enhancement
  - No circumscribed hypodense or hyperdense areas within the pituitary

**Infundibulum**
- Position (centered)
- Size (see below)

**Optic chiasm**
- Position
- Size (see below)
- Symmetry
- Course of optic nerve

**Suprasellar CSF spaces (chiasmatic cistern)**
- Shape (symmetrical)
- Width (no circumscribed narrowing)

**Cavernous sinus**
- Shape (symmetrical)
- Size (see below)
- No infiltration

**Internal carotid artery (siphon area)**
- Size
- Course
- Density

**Neurocranium**
- Temporal lobe
- Hypothalamus
- Floor of third ventricle

**Sphenoid sinus**
- Borders: smooth, normal width (especially of roof), contours
- Pneumatization