☐ Postoperative	<b>Epidural</b>	Hematoma	(EDH)
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#### **□** Definition

A postoperative epidural hematoma is a collection of blood between the inner surface of the skull and the dura mater that develops after a craniotomy. It may occur adjacent to or remote from the surgical site and can be life-threatening due to mass effect.

## **△ Etiology and Mechanisms**

- Intraoperative injury to dural vessels (e.g., middle meningeal artery)
- Inadequate hemostasis or dural detachment
- Loss of tamponade effect due to craniectomy or drain over-suction
- Coagulopathy or use of anticoagulants/NSAIDs
- Sudden postoperative hypertension
- Remote EDH: occurs distant from surgical site due to pressure shifts

#### **□** Incidence

- Rare but serious: ~0.5% to 2.5% after supratentorial craniotomy
- Often occurs within the first 6-24 hours postoperatively

## **☐ Clinical Presentation**

- Decreased level of consciousness (somnolence → coma)
- New-onset anisocoria or pupillary changes
- Headache, nausea, vomiting
- Seizures
- Delayed awakening from anesthesia
- · Neurological deterioration after initial recovery

## ☐ Imaging Findings

- CT scan: biconvex (lens-shaped), hyperdense extraaxial collection
- · Mass effect, midline shift
- May appear ipsilateral or contralateral to craniotomy site

# □ Differential Diagnosis

- Subdural hematoma
- Intracerebral hemorrhage
- Tension pneumocephalus
- Stroke or infarction

## **☐ Management**

- Emergency re-craniotomy and evacuation if symptomatic or with mass effect
- ICU monitoring and neurosurgical follow-up
- Correction of coagulopathy (platelets, FFP, reversal agents)
- BP control to avoid further bleeding

# □ Prognosis

- Favorable if detected and treated early
- Delayed diagnosis may lead to irreversible brain damage or death

## □ Prevention

- Careful intraoperative hemostasis
- Judicious use of suction drains
- Postoperative blood pressure control
- Early CT scan (especially if neurological change)
- Cautious NSAID use in high-risk patients

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Last update: 2025/06/02 23:02

