Cesarean Delivery for a Patient with Von Hippel-Lindau Syndrome

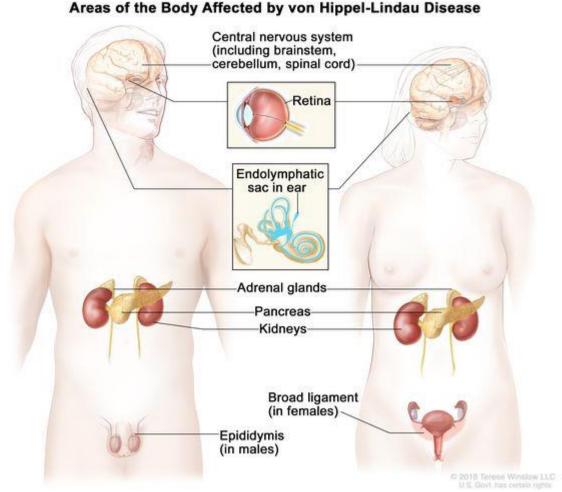
Margaret Lund MD, Blake Caracci DO, James Damron MD, Neva Lemoine MD





Background:

- Von Hippel-Lindau syndrome is an autosomal dominant disease caused by mutation of the VHL tumor suppressor gene, thereby leading to growth of numerous tumors and cysts.
- Characteristic lesions include retinal hemangioblastomas, renal cell carcinomas, pheochromocytomas, CNS hemangioblastomas, pancreatic tumors, and endolymphatic sac tumors¹.
- Management of a pregnant patient with Von Hippel-Lindau syndrome requires careful monitoring (due to risk of hemangioblastoma development and progression with increased estrogen and total blood volume) and delivery planning².



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24-year-old G2P0010 with known type 1 von-Hippel Lindau. Lesions included posterior fossa and brainstem hemangioblastomas s/p prior resection, bilateral ocular vascular lesions (right eye blindness), pancreatic cysts, and spinal cysts.



Worsening headaches and new dysphagia prompted repeat scan → significant increase in size of known lesion.

Referred to neurosurgery, who recommended delivery at 37 weeks to permit prompt surgical intervention.



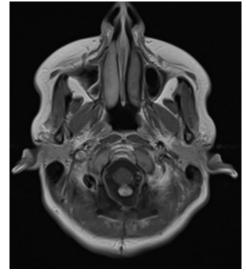
Anesthesia Plan:

- General anesthesia in favor of neuraxial anesthesia
- Preinduction arterial line
- Videoscope intubation
- Multimodal pain control including pre-emergence TAP blocks

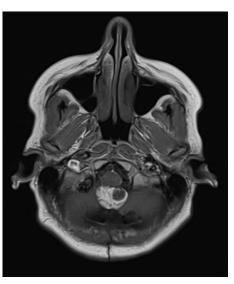


Underwent lesion resection postpartum.

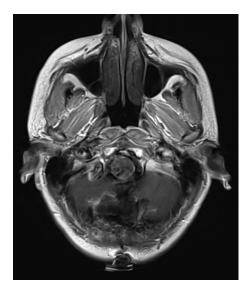
Case Report:



MRI from ~1 year prior to delivery



MRI near time of delivery



MRI post-resection

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Conclusions:

Anesthetic management Broad range of clinical presentations Monitor existing CNS tumors Evaluate for elevated ICP Frequent MRI imaging may be warranted due to growth during pregnancy²

TABLE 1. Contraindications to spinal anesthesia.

Absolute Contraindications	Relative Contraindications
Patient refusal	Coagulopathy
Infection at the site of injection	Sepsis
Uncorrected hypovolemia	Fixed cardiac output states
Allergy	Indeterminate neurological disease
Increased intracranial pressure	Spinal Anesthesia - NYSORA

