

Venous air embolism (VAE)

- Anesthesiology Considerations and Management of Venous Air Embolism in Patients in the Semisitting Position: A Single-Center Review
- A Bibliometric Analysis of Sitting Position and Air Embolism in Neurosurgery: Top 100 Most Cited Articles
- Semi-sitting position and retrosigmoid approach for a large petroclival meningioma resection: 3-dimensional operative video
- Microsurgical Resection of a Midbrain Cavernous Malformation via the Paramedian Supracerebellar Infratentorial Translateral Mesencephalic Sulcus Approach Using the Dynamic Lateral Semisitting Position: Two-Dimensional Operative Video with 3-Dimensional Anatomical Models
- Unexpected pulmonary edema following sitting position craniotomy: A venous air embolism complication
- Outcomes and Complications of Posterior Fossa Surgery in Sitting Versus Park-Bench Positions
- Exploring anesthesia-related complications in pediatric neurosurgery: a comparative analysis of the sitting and park-bench positions
- Right-to-left-shunts in patients scheduled for neurosurgical intervention in semi-sitting position - a literature review based on two case scenarios

Venous [air embolism](#) (VAE) refers to the presence of air or gas within the [venous system](#), which can be potentially life-threatening.

Etiology

Venous air embolism is a predominantly iatrogenic complication that occurs when atmospheric gas is introduced into the systemic venous system.

Risk factors

[Venous air embolism risk factors](#).

Complications

Air is entrained in the [vein](#) and can become trapped in the right atrium of the heart, which may impair venous return, causing [hypotension](#). May also produce cardiac [arrhythmias](#). Paradoxical [air embolism](#) can occur in the presence of a patent [foramen ovale](#)¹⁾ or pulmonary AV fistula, and may produce ischemic [cerebral infarction](#).

Prevention

[Venous air embolism prevention.](#)

Monitoring

[Venous air embolism monitoring.](#)

Case reports

[Venous air embolism case reports.](#)

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Black S, Cucchiara RF, Nishimura RA, et al. Parameters Affecting Occurrence of Paradoxical Air Embolism. *Anesthesiology*. 1989; 71:235-241

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