

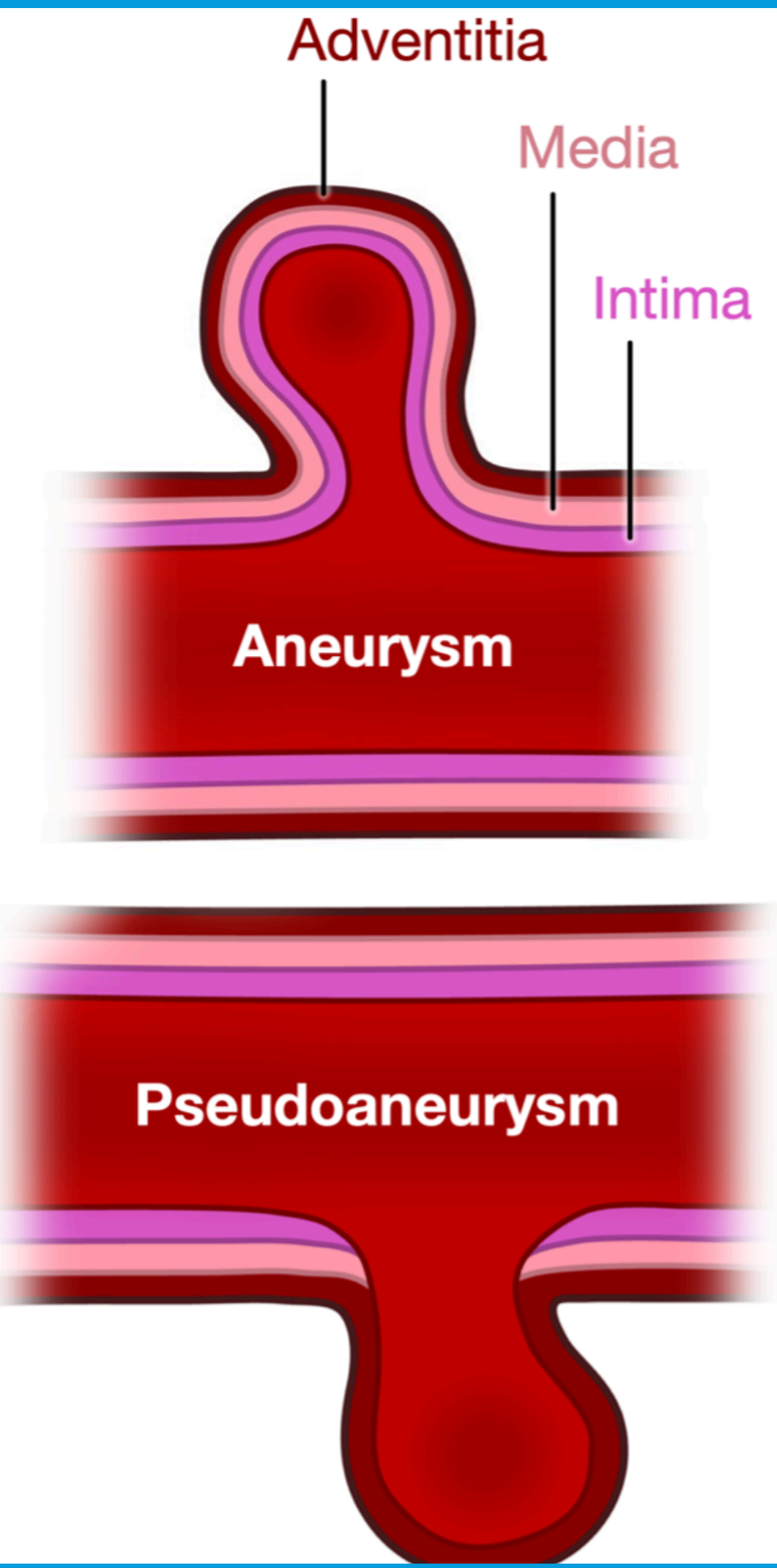
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Facial artery pseudoaneurysm is rare, but prompt recognition leads to effective diagnosis and treatment.

Background



- Facial artery pseudoaneurysm is rare, but it can cause **rupture**, **major bleeding**, and **injury to nearby structures**
- Prompt **diagnosis** and **management** are essential.
- Pseudoaneurysm **disrupts** the **intima** vessel layer, causing blood to **dissect and collect** between the **media** and **adventitia**

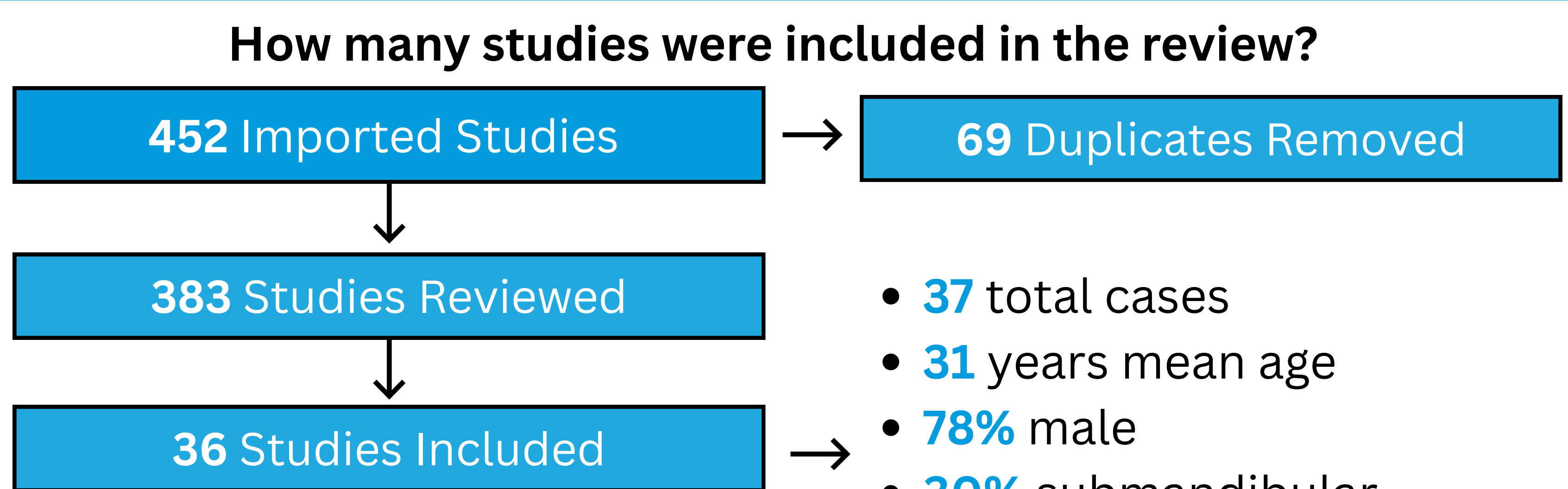


Methods

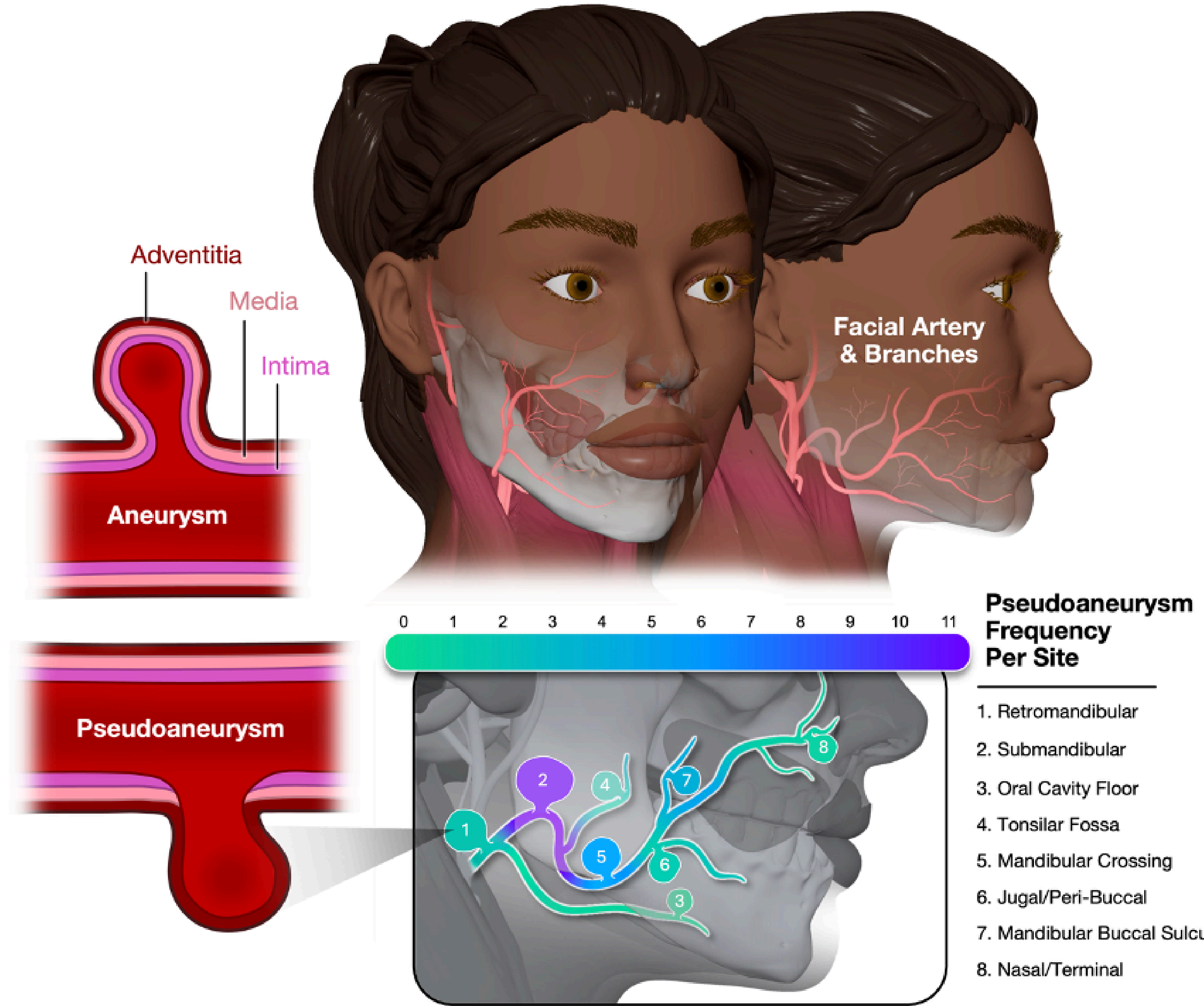


- PRISMA** guided systematic review
- Databases:** MEDLINE, Embase, Web of Science, Cochrane Central, Clinical Trials.gov
- Outcomes:** demographics, diagnostic approach, treatment, recurrence, outcomes

Results



Where do facial artery pseudoaneurysms occur?



Presentation and Diagnosis

- Mean time to presentation: **21** days
 - Most common symptoms:
 - swelling** (43%),
 - bleeding** (43%)
 - Pulsatile mass** is present in only **38%** of cases
 - CTA** is used in **56.8%** of cases
- What are the causes of facial artery pseudoaneurysms?
-
- | Cause | Percentage |
|------------------------|------------|
| 5% infection | 5% |
| 16% blunt trauma | 16% |
| 30% penetrating trauma | 30% |
| 49% iatrogenic | 49% |

Treatment and Outcomes

- Endovascular embolization:** **59%**
- Open surgical repair:** **35.1%**
- Conservative management:** **5.4%**
- Recurrence:** **8.1%**
- Reported functional/aesthetic outcomes:** **satisfactory** when documented

Key Takeaways

- Think **pseudoaneurysm** in **delayed facial swelling** or **bleeding** after trauma, tonsillectomy, orthognathic surgery, or dental extraction
- CTA** is the **most useful** first-line diagnostic imaging tool in the literature
- Endovascular embolization** is the most commonly reported treatment with **overall favorable outcomes**.

Acknowledgements and References

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