

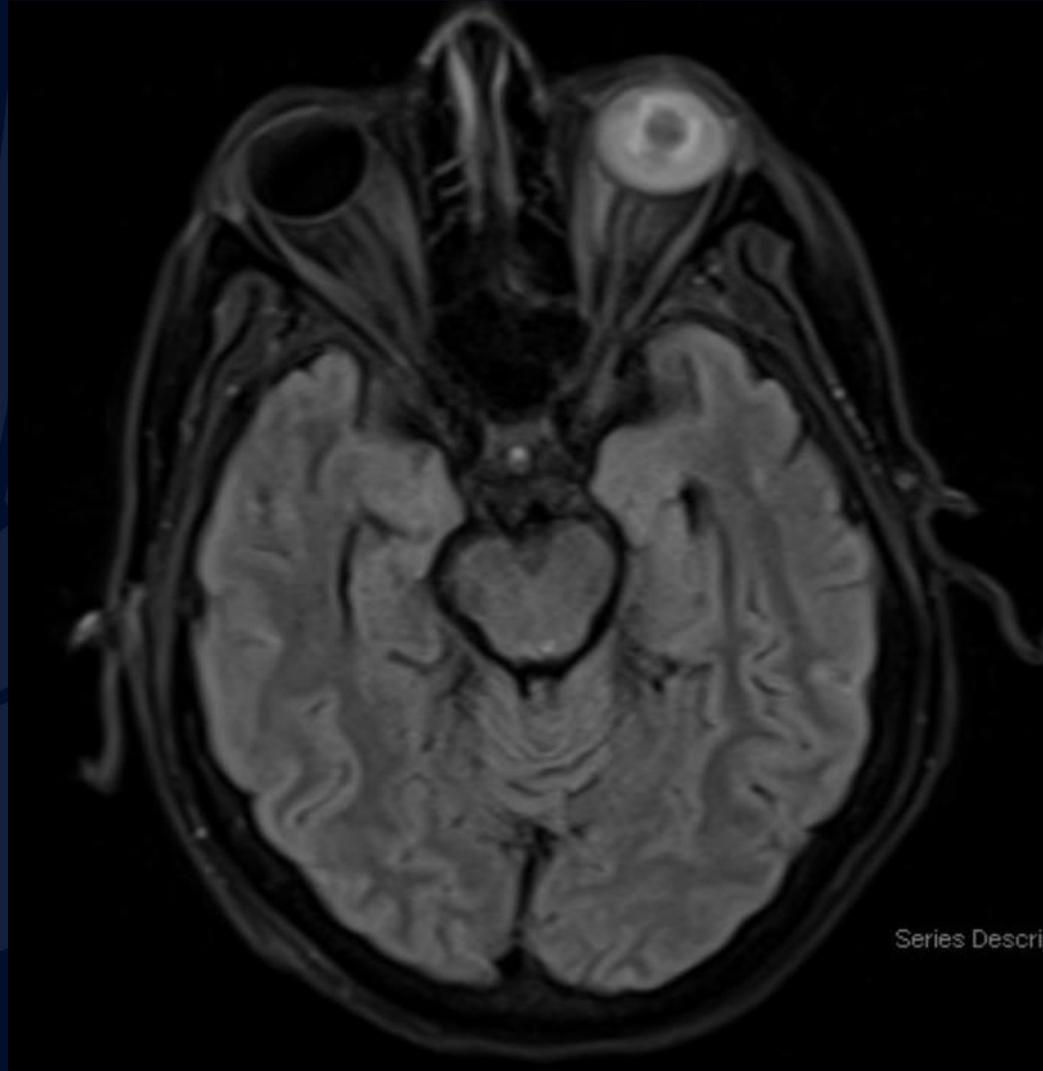
57-year-old female with a history of hepatitis C and IVDU presenting with fever, shortness of breath and both upper and lower extremity paresthesias

Timothy D Mason, MS3

T2



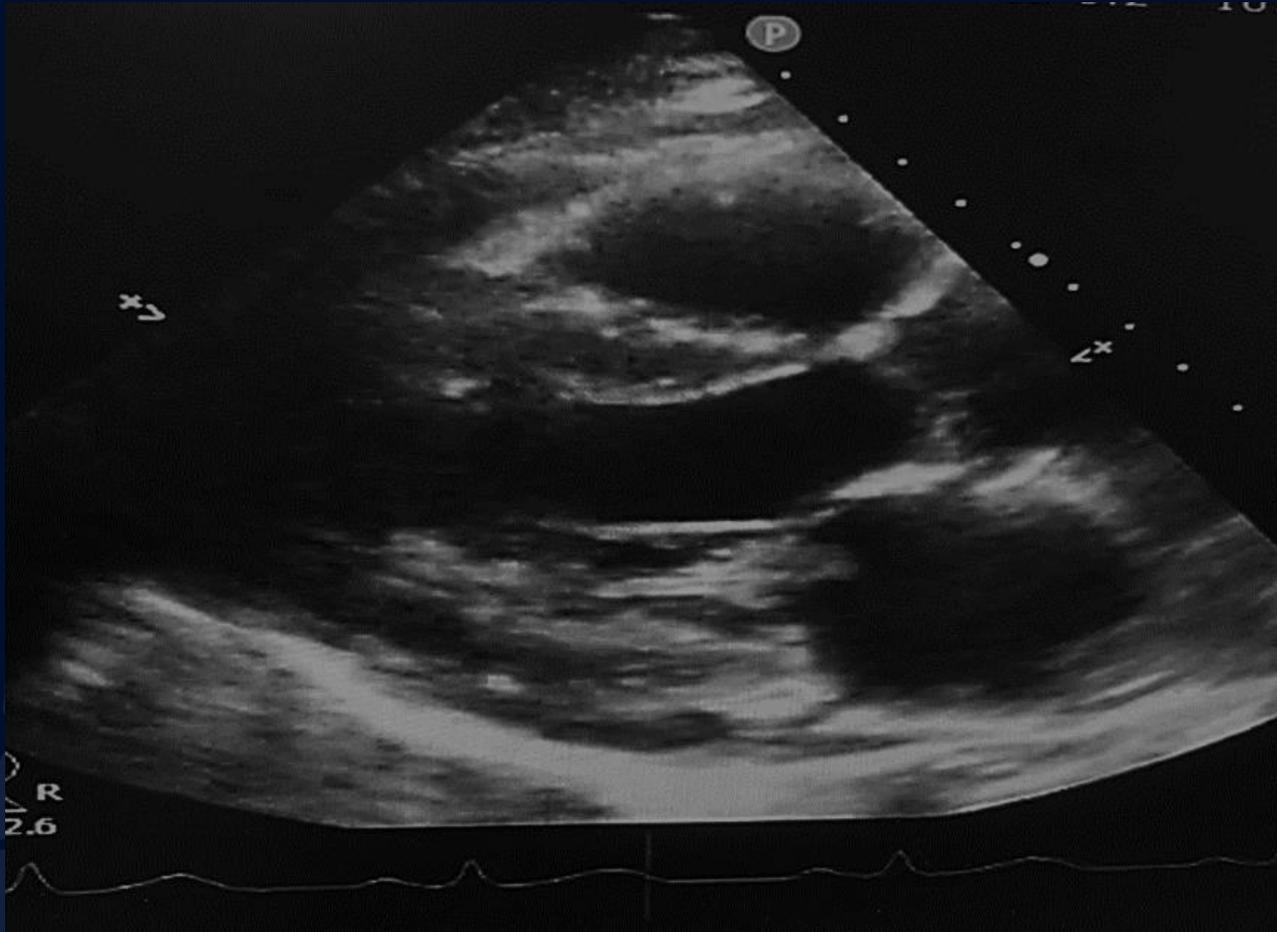
T1



CT



# Parasternal Long Axis Echocardiogram





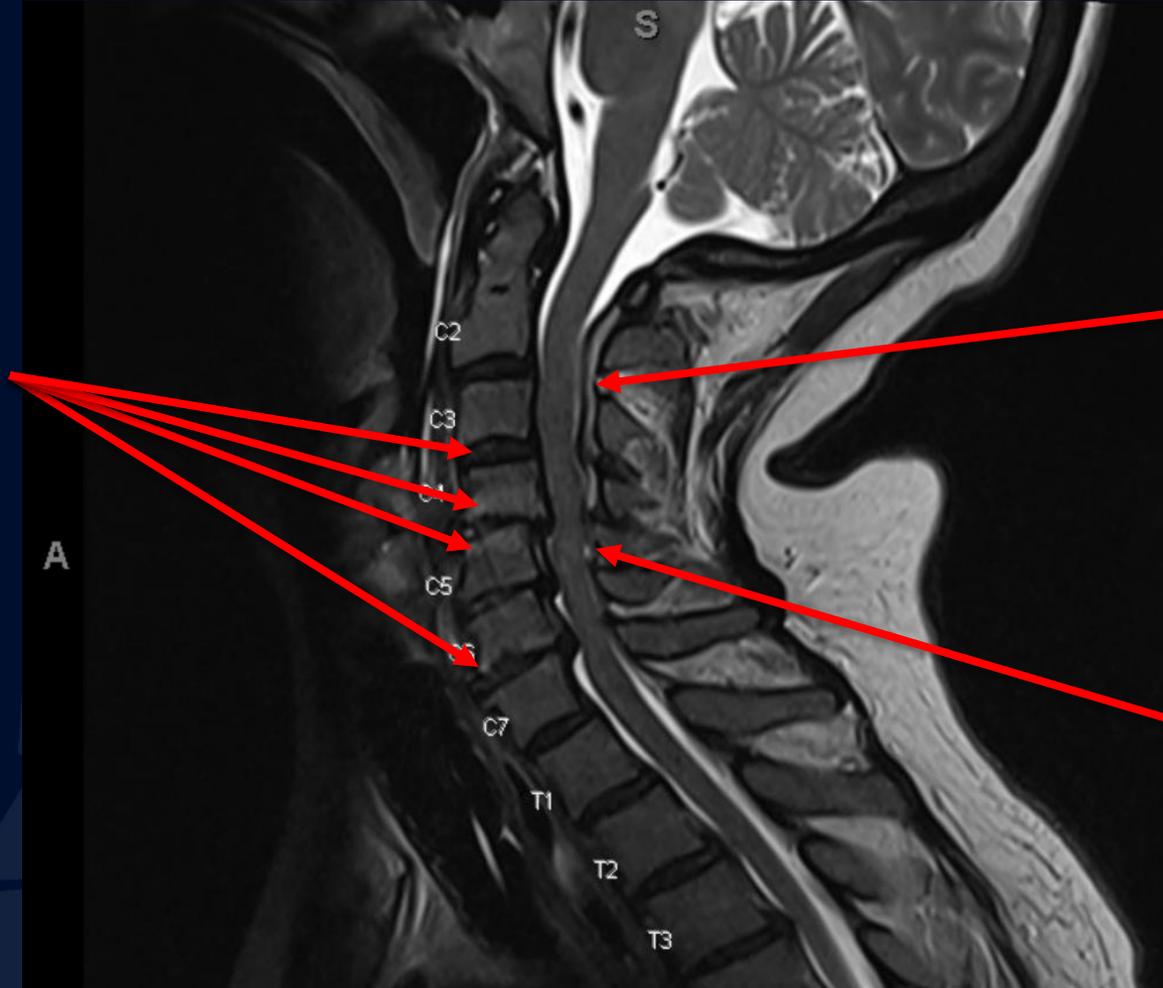
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A large, stylized oak leaf graphic in a dark blue color, positioned on the left side of the slide, partially overlapping the title text.

# Streptococcus Endocarditis

# T2

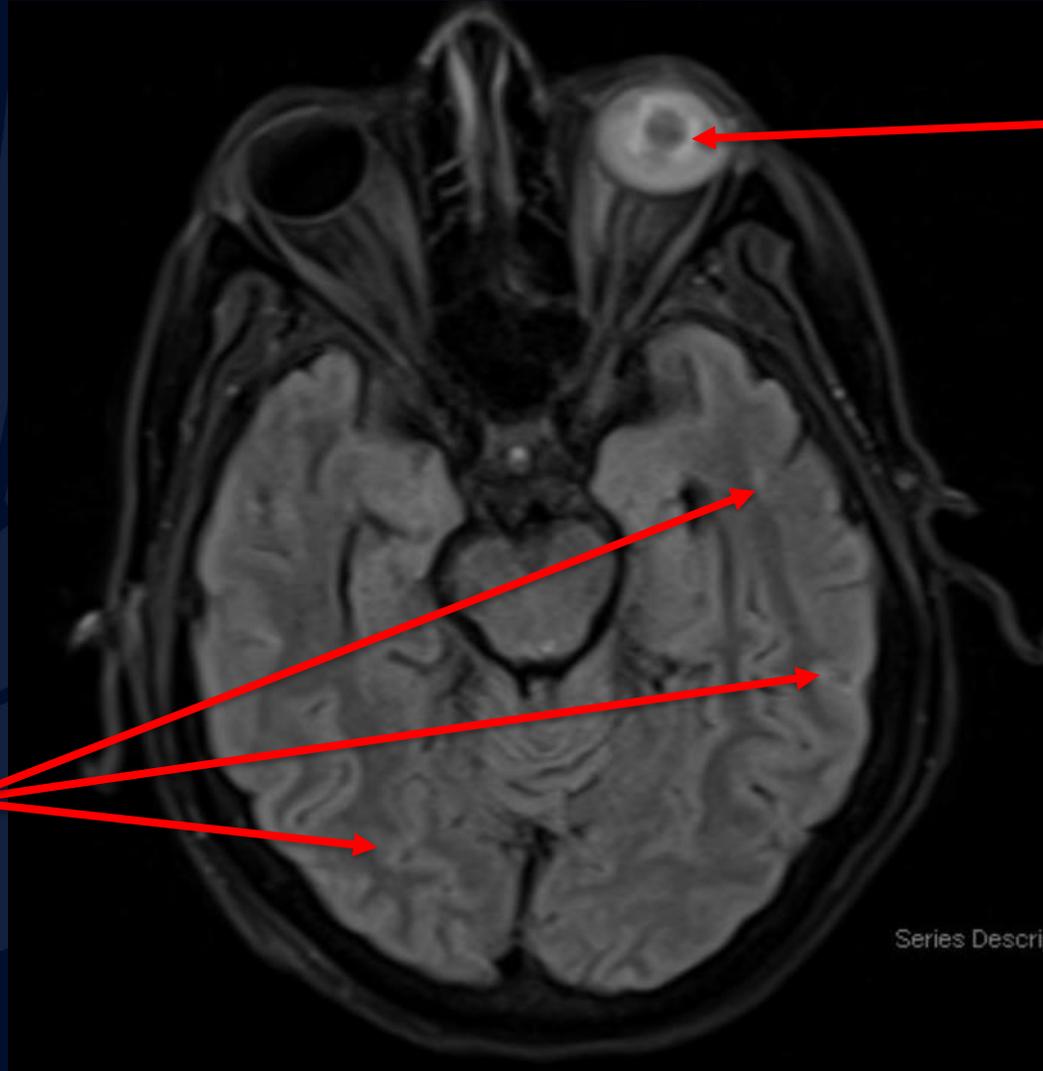
Marrow edema



Epidural abscess  
extending from  
C2-C5

Associated cord  
compression  
and edema

T1



Hyperintense globe with lens displacement

Multiple hyperintense foci represent embolic infarctions

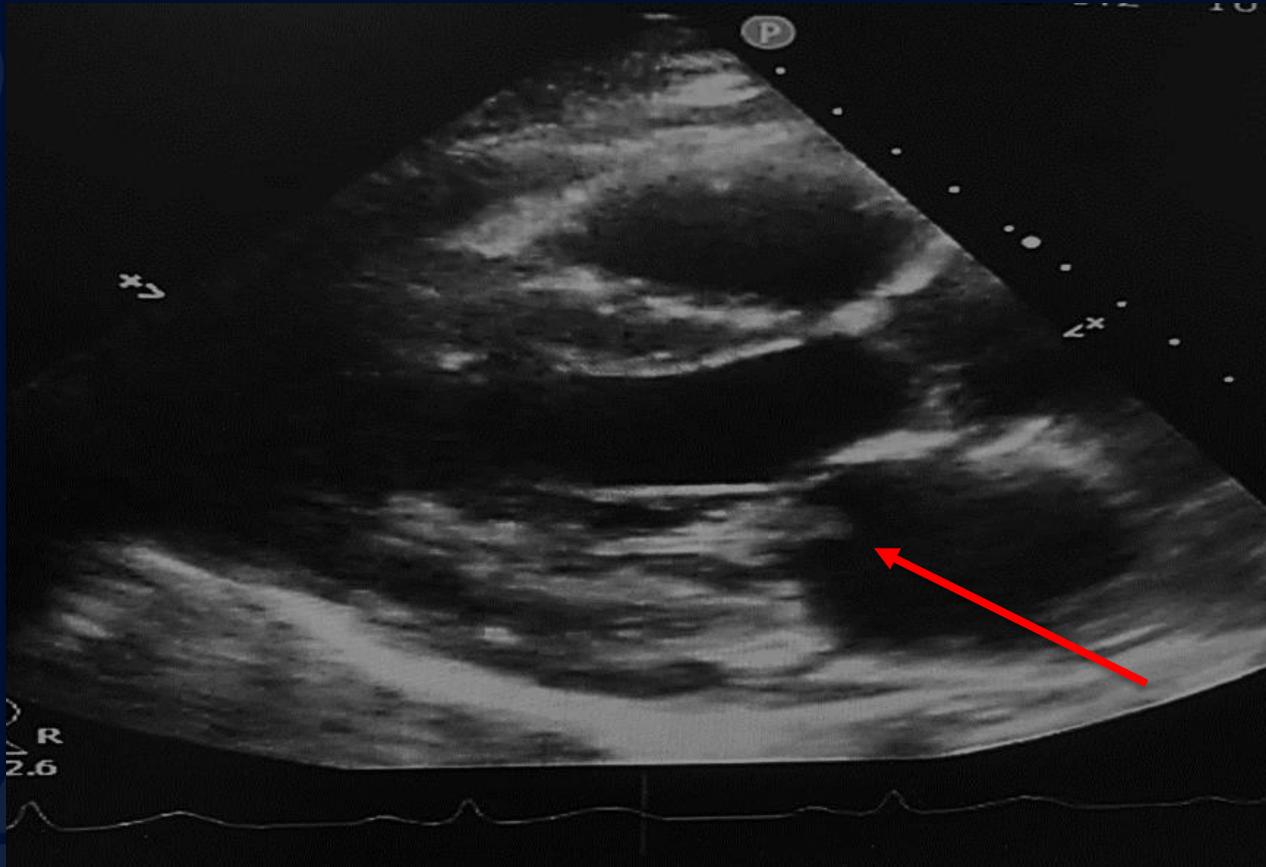
# CT

Hepatic infarction



Splenic hypodensity may represent hemorrhage or abscess contained by splenic capsule

# Parasternal Long Axis Echocardiogram



1 cm vegetation on the mitral valve;  
mild regurgitation seen on the doppler

# Streptococcus Endocarditis

- Pathophysiology
  - Bacteremia secondary to IVU can seed damaged valves creating a nidus of infection. Bacteria colonize and produce biofilms that adhere to the valve which may result in vegetation
- Risk Factors
  - Prosthesis, implantable cardioverter-defibrillator, pacemakers, IV drug use, immunodeficiency
- Clinical Presentation
  - Fever, dyspnea, abdominal pain, petechiae, janeway lesions, osler nodes, roth spots, new murmur
  - Neurologic symptoms (septic emboli and hematogenous seeding to remote sites are frequent)
- Complications
  - Heart failure, septic embolic infarction, widespread infection (endophthalmitis, septic arthritis, epidural abscess)

# References

- Pettersson, G. B., et.al (2017). 2016 The American Association for Thoracic Surgery (AATS) consensus guidelines: Surgical treatment of infective endocarditis: Executive summary. *The Journal of thoracic and cardiovascular surgery*, 153(6), 1241–1258.e29. <https://doi.org/10.1016/j.jtcvs.2016.09.093>
- Tuchman, A., Pham, M., & Hsieh, P. C. (2014). The indications and timing for operative management of spinal epidural abscess: literature review and treatment algorithm. *Neurosurgical focus*, 37(2), E8. <https://doi.org/10.3171/2014.6.FOCUS14261>
- Wang, A., Gaca, J. G., & Chu, V. H. (2018). Management Considerations in Infective Endocarditis: A Review. *JAMA*, 320(1), 72–83. <https://doi.org/10.1001/jama.2018.7596>