## CHEST INFECTIONS

## **Does Neutrophil Elastase Degradation of Plasminogen Contribute to Intrapleural Fibrinolytic Failure?**

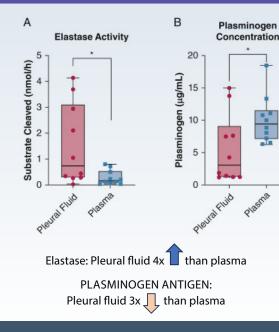


## STUDY DESIGN

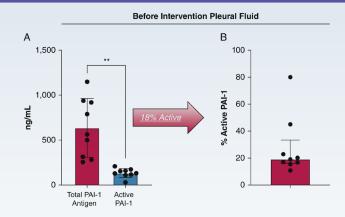
Evaluation of infected pleural fluid and circulating plasma from hospitalized adults (n = 10) before intervention (intrapleural fibrinolytics vs surgery) and on days 1, 2, and 3 after intervention

Testing included:

- Activity assays
- Enzyme-linked immunosorbent assays
- Western blot analysis
- Turbidimetric measurements of fibrinolysis



## RESULTS



Plasminogen activator inhibitor 1 (PAI-1), native tissue plasminogen activator inhibitor, had high levels before intervention, but 82% of that PAI-1 was not active • All activity was lost by day 2 after intervention

Our results indicate that inflammatory plasminogen deficiency, not high PAI-1 activity, is a significant contributor to intrapleural fibrinolytic failure.

Barrett CD, et al. CHEST January 2025 | @journal\_CHEST | https://doi.org/10.1016/j.chest.2024.04.005

Copyright © 2025 American College of Chest Physicians