The effect of mesenchymal stem cells on the host response in severe community-acquired pneumonia

Reijnders TDY, et al. *Thorax* 2024. DOI: 10.1136/thorax-2024-222026

Population

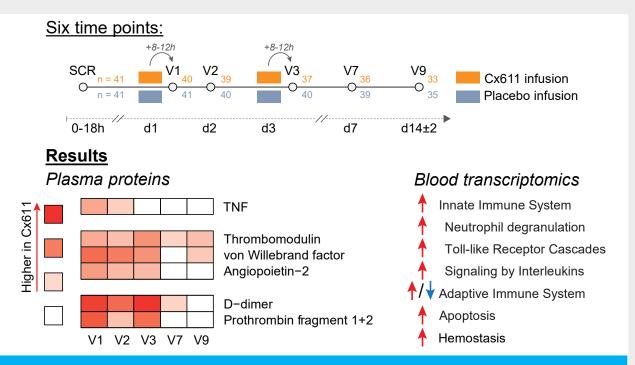
 82 critically ill patients with sepsis due to communityacquired bacterial pneumonia

Interventions

- Cx611: Adipose-derived mesenchymal stem cells
- Placebo

Measurements

- 29 plasma protein biomarkers
- Blood transcriptomics



<u>Conclusion:</u> Mesenchymal stem cell infusion in patients with sepsis due to community-acquired bacterial pneumonia leads to increased endothelial and procoagulant plasma biomarkers, and increased gene expression in pathways related to innate immunity, haemostasis, and apoptosis.







