

Lectin Affinity Plasmapheresis for MERS-CoV and Marburg Virus Glycoprotein Elimination

Koch B et al. Blood Purification. DOI: 10.1159/000487224



Stay Safe
Stay Strong
Stay HOME



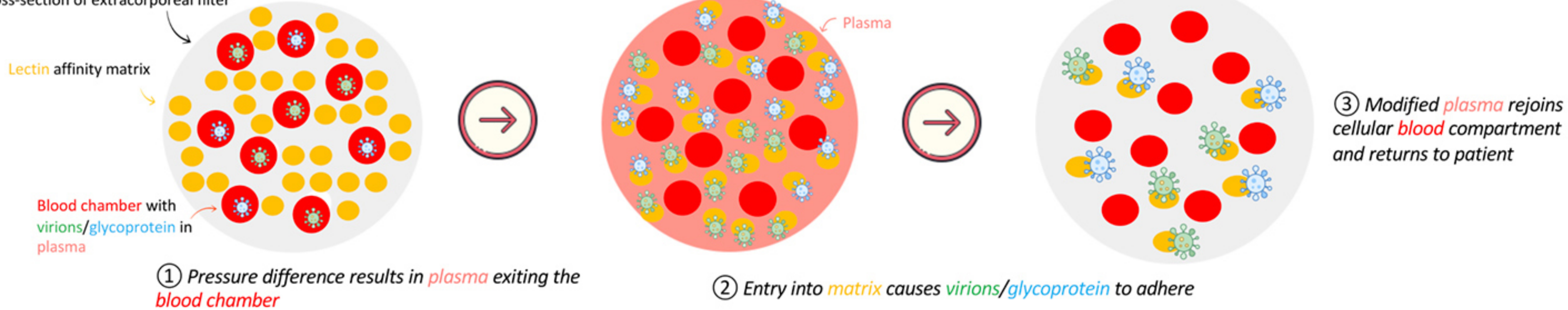
- Middle East Respiratory Syndrome Coronavirus (MERS-CoV)**
- Betacoronavirus similar to SARS-CoV2
 - Causes severe ARDS and AKI (RRT in 50%-70% ICU patients)



- Marburg Virus**
- Filovirus similar to Ebola
 - AKI strongest predictor of mortality after viral load

Can hemo-adsorption of viral particles or glycoprotein to lectin reduce infectious burden?

Cross-section of extracorporeal filter



Time	30 minutes	90 minutes	120 minutes	180 minutes
Infectivity	24-55%	15-51%	11-45%	7-41%
Concentration	38-55%	34-47%	29-46%	18-43%



MERS-CoV shows time-dependent decrease in infectivity with LAP

Can these results be extrapolated to other coronaviruses, including SARS-CoV2 (COVID-19)?

