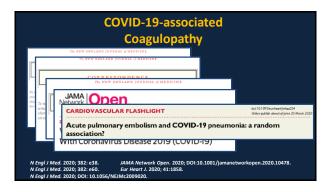
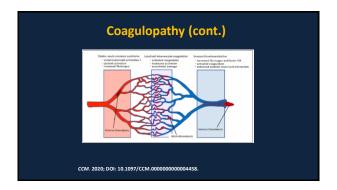


Disclosure

I do not have (nor does any immediate family member have) a vested interest in or affiliation with any corporate organization offering financial support or grant monies for this continuing education activity, or any affiliation with an organization whose philosophy could potentially bias my presentation.

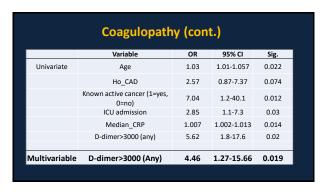
Objectives Describe COVID-19 associated hyperviscosity Recognize factors that influence drug removal during plasma exchange Identify drugs which are likely to be removed by plasma exchange

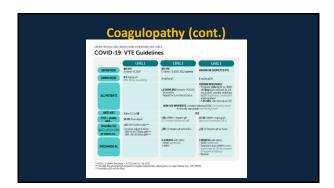


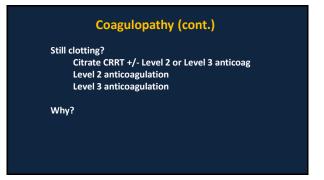




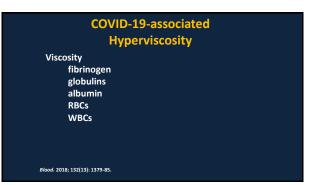


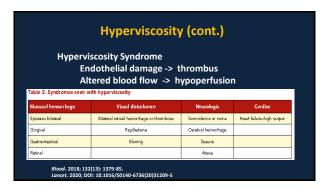




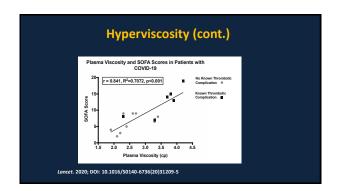




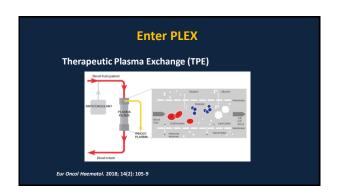


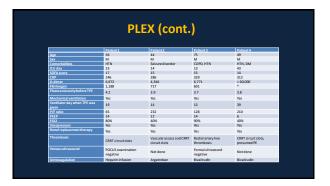


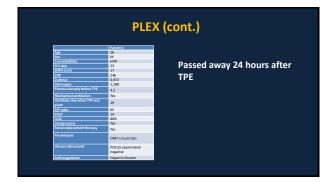


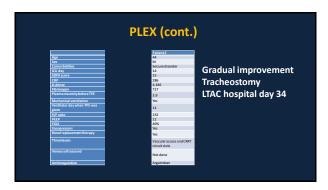


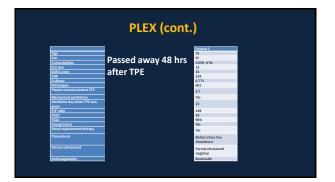




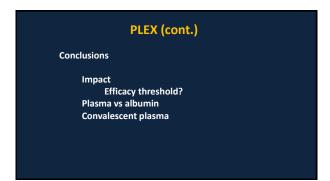












PLEX (cont.)

Next steps

RCT

Lower viscosities

TPE vs standard care

Albumin/Plasma/Convalescent Plasma

Trouble with the Pharm

What about drug removal with PLEX?

What attributes increase drug removal by PLEX?

What strategies should be employed to mitigate the effects/extent of drug removal by PLEX?

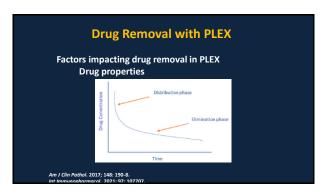
Pactors impacting drug removal in PLEX Drug properties PLEX properties PLEX properties

Drug Removal with PLEX

Factors impacting drug removal in PLEX Drug properties

Vd < 0.2 L/kg protein binding > 80% half life > 2 hours distribution phase

Am J Clin Pathol. 2017; 148: 190-8.



Drug Removal with PLEX

Factors impacting drug removal in PLEX PLEX properties

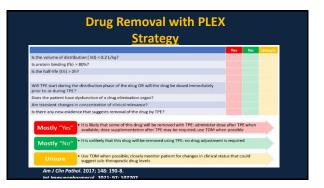
Timing (distribution phase)

Duration

Frequency

Protein replacement

Am J Clin Pathol. 2017; 148: 190-8.



Drug Removal with PLEX Important drugs known/likely to be removed by PLEX Anticoagulants apixaban, rivaroxaban enoxaparin, dalteparin heparin Antiepileptics phenytoin, valproic acid, phenobarbital COVID tocilizumab Am J Clin Pethol. 2017; 148: 190-8. Int Immunosharmaci. 2001-197, 1407-107.

