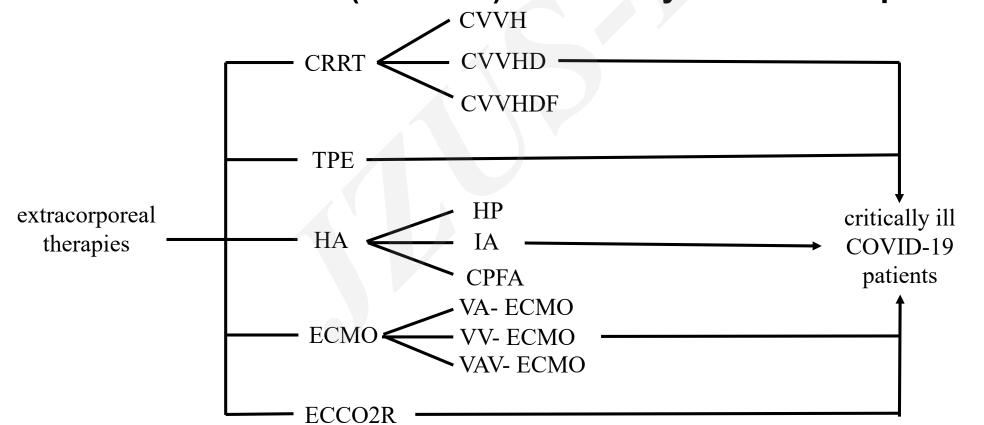
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## Application of extracorporeal therapies in critically ill COVID-19 patients

**Key words:** COVID-19; Critical illness; Cytokine release syndrome (CRS); Acute kidney injury (AKI); Extracorporeal therapies

## Research Summary

 This review mainly focused on the application of extracorporeal therapies such as continuous renal replacement therapy (CRRT), therapeutic plasma exchange (TPE), hemoadsorption (HA), extracorporeal membrane oxygenation (ECMO) and extracorporeal carbon dioxide removal (ECCO2R) in critically ill COVID-19 patients



## Innovation points

- Introduction of the application of five main extracorporeal therapies in critically ill COVID-19 patients.
- Summary of the modality options of extracorporeal therapies for critically ill COVID-19 patients and the advantages and limitations of these extracorporeal therapies.
- LiSt of some representative clinical studies to better explain the role of extracorporeal therapies in treating these critically ill patients

## Innovation points

Figure 1 | Modality options of extracorporeal purification therapies for critically ill COVID-19 patients

Table 1 Outcomes of the application of extracorporeal therapies in critically ill COVID-19 patients.

Table 2 Advantages and limitations of some extracorporeal therapies in treating critically ill COVID-19 patients.