

PLASMA TRANSFUSION PROTOCOL

INCLUSION CRITERIA for the Recipient:

- Confirmed covid 19 case (RT-PCR Confirmed)
- Recommendation from patient's consultant via written application directed to VC UHS
- Moderate severe or Severe Covid 19 symptoms which are:
 1. Shortness of breath (1)
(if on exertion..moderate severe)
(if on rest and unable to do basic things than its severe)
 2. Respiratory rate more than or equal to 30 min per breath)
 3. Arterial blood O2 saturation less than or equal to 90% without any O2 therapy

All these criteria should be met in order to be considered as a recipient.

EXCLUSION CRITERIA for Recipient:

Critically covid 19 patients are not considered suitable for being recipient as the inflammatory pathways are already set in so antibodies would not make that much of a difference. (2,3)

CRITICAL COVID 19 PATIENTS:

1. Respiratory failure (ARDS) requiring ventilatory support (raised inflammatory markers)
2. Shock
3. Multiple organ dysfunction
4. Patients who have developed ventilator complications like pneumothorax, ventilator associated pneumonia, kidney failure etc.
5. Serum sickness or any previous history of transfusion hypersensitivity reaction

CRITERIA for DONORS:

1. No fever for 3 days
2. Resolved respiratory tract symptoms
3. Two consecutive(24 hours gap) or atleast one negative RT-PCR
4. Screening profile complete

PLASMA COMPATIBILITY (4)

PATIENT GROUP	COMPATIBLE PLASMA DONOR
A	A, AB
B	B, AB
AB	AB
O	O, A, B, AB

Positive can donate to Negative and vice versa cause antigen D (Rh +) is on Rbcs and there is no antibody in plasma EXCLUDING they have no previous history of opposite group transfusion.

REFERENCES

1. <https://patient.info/news-and-features/coronavirus-what-are-moderate-severe-and-critical-covid-19>
2. <https://www.bloomberg.com/news/articles/2020-04-22/almost-9-in-10-covid-19-patients-on-ventilators-died-in-study>

3. <https://tribune.com.pk/story/2224912/1-high-mortality-rate-recorded-covid-19-patients-put-ventilators/>
4. [Blood Component ABO Compatibility Chart - UTMB Health](#)