

## 8.1 Assessing Global Success Rate of Plasma Therapy

Wuhan, China demonstrated successful results of Plasma Therapy where in 10 adult individuals with severe COVID Infection were subjected for plasma transfusion. Within the duration of 7 days antibodies were produced and the patients' viral load could be reduced successfully.

In case of US on March 28th 2020 a first clinical trial was conducted from the Houston Methodist Hospital where in the plasma from the blood of the COVID infected and recovered individuals was collected and transfused to the patients to be treated.

In one of the research study published in an American Journal of Pathology, the clinical outcome of the plasma transfusion for the treatment of COVID was explained. 25 patients were considered for the study among which 19 individuals exhibited a good improvement in the clinical condition with the treatment and 11 individuals could successfully be discharged from the hospital. However a concrete conclusion regarding the treatment protocol can be made only after randomized clinical trials with the large study population [4].

Recent study related to the Plasma Therapy also revealed its significance in treating previously encountered infections like SARS Pandemic in 2003, H1N1 Influenza pandemic in 2009 and most recently in 2015 the outbreak of Ebola in Africa. All these cases exhibited a good percentage of Plasma Transfusion success rate.

## 8.2 Plasma Therapy Guidelines and Significance in India

As a preliminary step towards the current treatment for COVID 19, India is striving to implement this system of treatment. The trials related to Plasma therapy have started in Maharashtra, Uttar Pradesh and Madhya Pradesh [5]. In particular to the Plasma therapy for COVID 19, FDA states that the donors selected for the Plasma collection should be infected 28 days prior to the plasma collection. In order to donate the plasma for the treatment the individual should be recently recovered from the COVID. There are certain parameters laid by ICMR for an individual to donate the plasma. The plasma donor should have possessed both cough and fever as symptoms during COVID infection and cannot be asymptomatic.

A recent report released by Hindustan times, Thiruvananthapuram- 17th June 2020 [6], reported a success case of Plasma Therapy in treating the COVID19 victim. Dr. MA Andrews, principal, Thrissur Medical College reports that one of the patient who returned from Delhi and facing worsened health condition was kept on ventilator support for 6 days. His worsened condition was than treated by Convalescent plasma therapy by administering the plasma obtained from the recently recovered patient of COVID. The results were successful and the patient was successfully transferred to ICU from ventilator. This was a first successful case treated with Plasma therapy in