

The Evolution of the Strategic Plasma Industry

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Abstract : Plasma-derived medicinal products are vital categories of biological therapies. These products are used to treat rare, chronic, severe, and life-threatening conditions, such as bleeding disorders (Hemophilia A and B), hemolytic disease of the fetus and newborn, severe infections, burns and liver diseases, and other diseases caused by the absence or malfunction of certain proteins. In addition, they improve the patient's quality of life. The process of producing plasma-derived medicinal products begins with the collection of human plasma from healthy donors. This initial stage is complex and is monitored with high precision and sensitivity by global authorities to maintain the quality and safety of the final products as well as the health of the donors. The amount of manufactured plasma-derived medicinal products depends on the availability of its raw material, human plasma, so collecting enough plasma for fractionation is essential. Therefore, adopting a suitable national policy regarding plasma donation, establishing collection centers, and increasing public awareness of the importance of plasma donation will improve any country's conditions regarding the timely and sufficient supply of these medicines. In this study, we tried to briefly examine the importance of sustainability of the plasma industry and its situation in our beloved country of Iran.

Keywords : plasma, source plasma, plasma-derived medicinal products, fractionation

Conference Title : ICPM 2023 : International Conference on Plasma Medicine

Conference Location : Rome, Italy

Conference Dates : January 16-17, 2023