PLASMA AND IMMUNOGLOBULIN (IgG) PERSPECTIVE IN LATIN AMERICA

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## METHODOLOGY

The data used to develop the charts and tables shown in this presentation have been compiled from surveys conducted by the Marketing Research Bureau in some fifty countries and published in its syndicated reports.

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- Re-defining Self-Sufficiency



## **Plasmapheresis Station**





### PLASMA FRACTIONATION



# **Fractionation Process**

Pooling







### **Plasma Fractionation**



**Courtesy CSL Behring** 

### **REGIONAL DISTRIBUTION OF FRACTIONATION PLANTS 2017**



NUMBER OF COMPANIES OPERATING FRACTIONATION PLANTS: ca. 45

### **REGIONAL DISTRIBUTION OF FRACTIONATION THROUGHPUT 2017**



GLOBAL FRACTIONATION THROUGHPUT 2017: 54.5 MILLION LITERS



## From Recovered and Source Plasma to Plasma-Derived Medicinal Products (PDMP)

80 plasma fractionation plants are in operation worldwide. They belong to some 45 companies or non-profit organizations.

Asia has the highest number of fractionation plants (38) followed by Europe (26) and North America (8). The largest plants in terms of processing capacity are located in the United States.

Europe has the world's highest fractionation throughput (47%). The multinational companies move intermediate paste and plasma from one manufacturing site to another across continents to maximize their production efficiency.

## **The Human Factor**

- The plasma industry differs from the traditional pharmaceutical sector in the following ways:
- <u>Technical aspect</u>: the fractionation of plasma is a complex process, due to the biological nature of its raw material: human plasma,
- Socio-economic & ethical aspect: the use of plasma and blood as raw material to make IgG creates social, economic and ethical issues, that do not exist in other industries
- Patient/Industry Relationships: The patients' organizations exercise a strong influence on the industry policies and processes with regard to product safety, supply and access.

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#### THE WORLDWIDE PLASWA PROTEINS MARKET BY COMPANY - 2016

#### WITHOUT RECOVERNANT FACTORS

Total Market 21,174 Million





### Breakdown by Company

#### THE WORLDWIDE PLASMA PROTEINS MARKET BY PRODUCT - 2016

#### WITHOUT RECOVEINANT FACTORS

Total Market \$21,174 Million





### Breakdown by Products: IgG is almost half of the total market

#### WORLDWIDE IVIG/SCIG UNIT SALES BY REGION



#### THE GLOBAL IVIG & SOIG CONSUMPTION BY REGION 2008 - 2017

(Kilograms)





#### IVIG & SUBCUTANEOUS CONSUMPTION PER CAPITA IN SELECTED REGIONS AND COUNTRIES - 2008 & 2017 (Grams per thousand population)



Between 2008 and 2017, the consumption per capita almost doubled in the US, Canada, and France. It also increased strongly in the Middle East, Asia & Pacific and Latin America, but from low starting points.



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The United States generate 65% to the world's plasma for fractionation (source and recovered) with only 5% of the world population.

Plasma for Fractionation by Region 2017 (Recovered & Source)



Latin America has almost 9% of the world's population but produces only 1% of the plasma for fractionation



Asia & Pacific 60.1%

World Population by Region - 2016

8.6%

Source: PopulationReference Bureau



The United States generates 71% to the world's <u>source</u> plasma for fractionation, and Latin America, less than 1%.



## Conclusion

- The IgG demand in Latin America has grown faster than in several other regions.
- IgG is an expensive therapy, which limits its penetration but funding is becoming available for chronic diseases treatment in Latin America.
- The dependency on the United States for the global supply of source plasma is now challenged. A diversification of supply appears desirable for political, socio-economic and health policy reasons.
- To ensure an adequate supply of IgG in future years, more source and recovered plasma should come from Latin America.

# THANK YOU FOR YOUR ATTENTION

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