

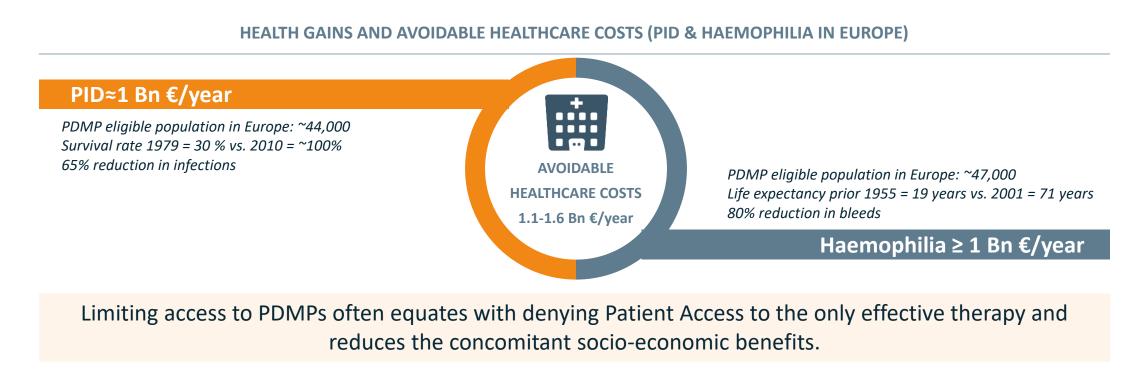
#### www.euneedsmoreplasma.com

# PLASMA SUPPLY AND PLASMA-DERIVED MEDICINAL PRODUCTS MANUFACTURING

Maarten Van Baelen, Executive Director PPTA 29 April 2022 Rome, Italy



#### Socio-Economic Value: Optimal PDMP treatments alleviate patients' disease burden and translate into health value of recovered life-years



#### HEALTH GAINS AND AVOIDABLE HEALTHCARE COSTS CALCULATION

#### **CALCULATIONS INPUTS**

- Health Gain = Recovered DALY \* VOLY
- DALY is the sum of the Years of Life Lost (YLL) due to premature death and the Years Lost due to Disability (YLD)
- Key DALY component for PID is # of severe infections per year and for Haemophilia: key DALY component is 3 of bleeds per year
- VOLY (Value of a Statistical Life Year) is estimated at €40,000
- Avoidable indirect healthcare costs for PID based on reduction of hospitalization days due to severe infection

#### © VINTURA



# EU countries have an increasing need for plasma-derived medicines



- While current demand for blood components for transfusion is decreasing.
- Demand for plasma derived medicines has increased by 8% yearly over the past decade.

(Source: European Commission survey, 2014; Marketing Research Bureau)

# The EU's growing patient population for plasma for medicines



#### PER PATIENT PER YEAR:

MORE THAN





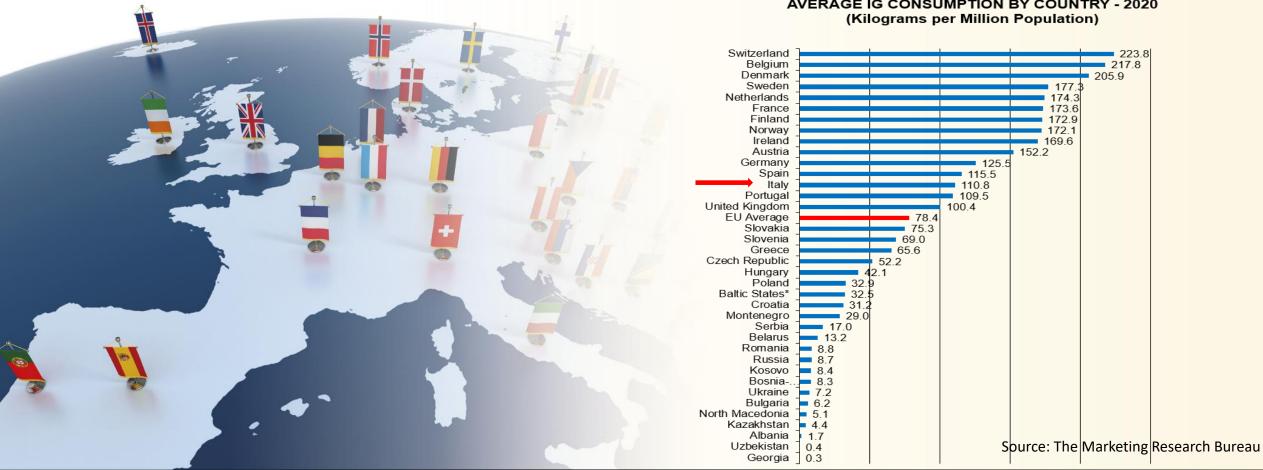


Plasma donations to treat ONE PATIENT with a PRIMARY IMMUNE DEFICIENCY.

- More precise medical diagnostics open plasma-derived medicines to more people.
- More clinical evidence of the benefits of plasma-derived therapies.
- Patients are living longer.



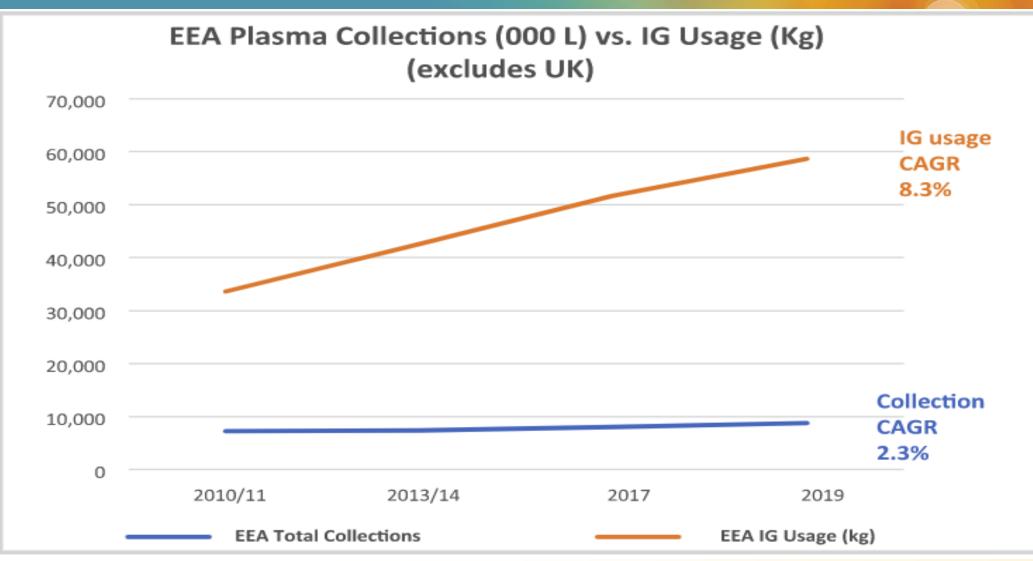
#### Health inequalities between countries



#### **AVERAGE IG CONSUMPTION BY COUNTRY - 2020**

# European plasma & donation trends: public vs private collection



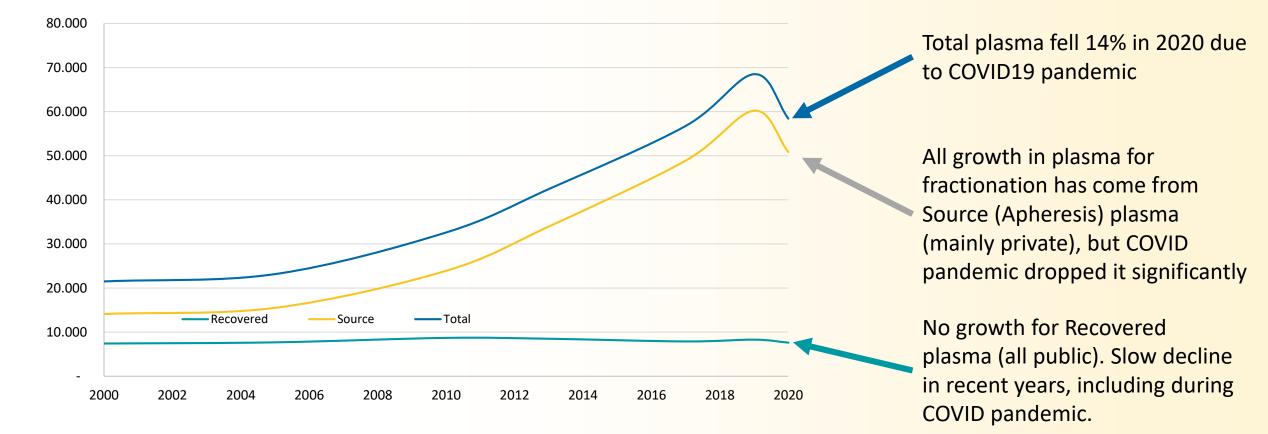


Source: The Marketing Research Bureau

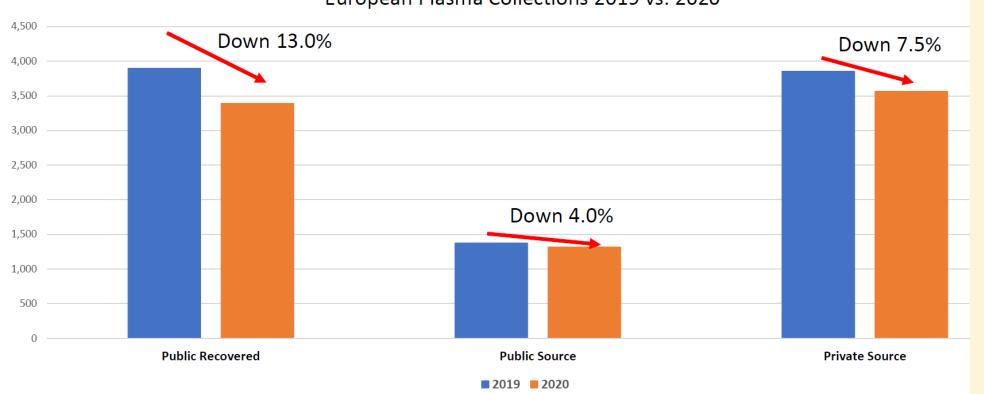
#### **Global plasma for fractionation**



#### Global Plasma for Fractionation (Liters X 000)



## European Plasma Collections by Type – COVID impact

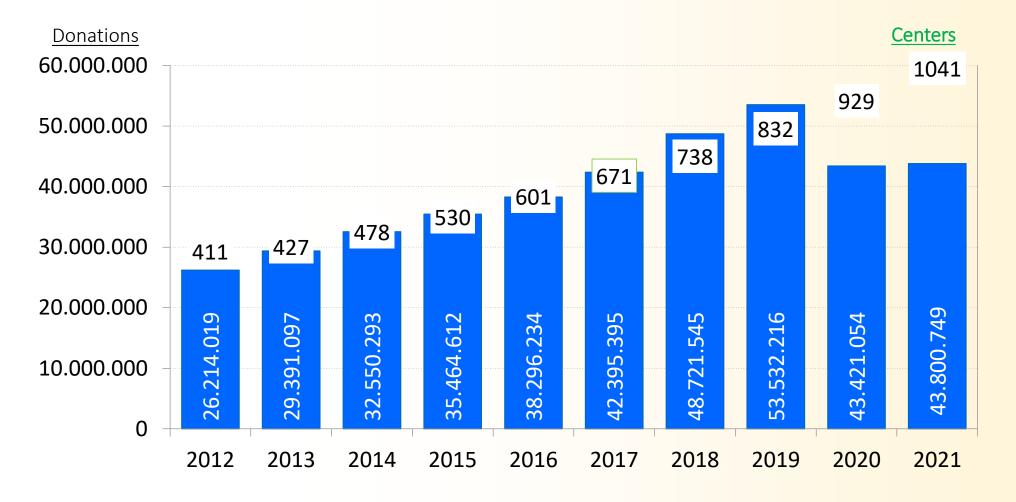


European Plasma Collections 2019 vs. 2020

Overall European collections declined by 9.4% in 2020 vs. 2019 due to the pandemic. In 2020, a total of 8.3 million liters of plasma were collected (source and recovered) in Europe.

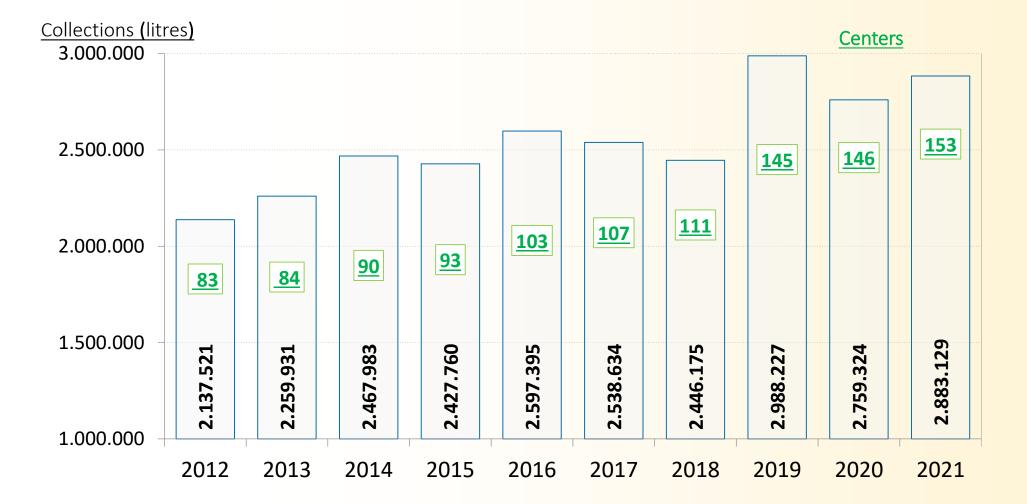


## North America plasma collections by PPTA members



## Europe plasma collections by EPA members



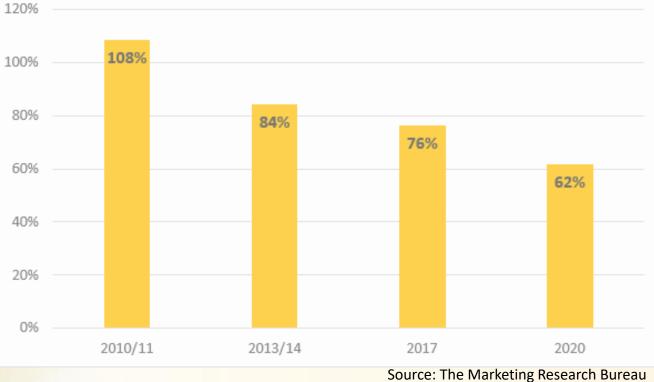




## Self-sufficiency? EU dependency on US: 38% (2020)



EU except UK Self-Sufficiency Percent for IG Needs

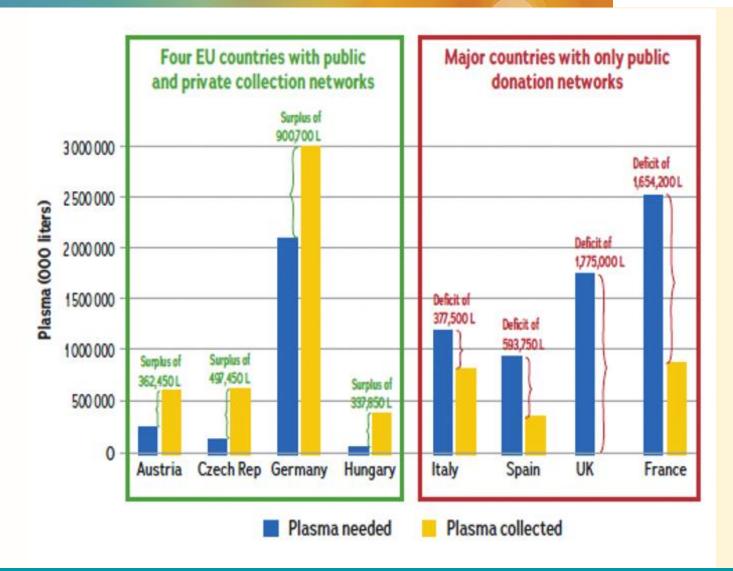


## The EU's plasma donation shortfall



Today, Europe has a shortfall of 38% (or 5,15 million liters) of source plasma needed to produce plasma-derived medicines.

(Source: Marketing Research Bureau, 2021)



## Europe's biggest plasma contributors



#### Fact

Austria, Czech Republic, Germany & Hungary contribute 25% of all plasma needed for EU patients.

38% comes from US



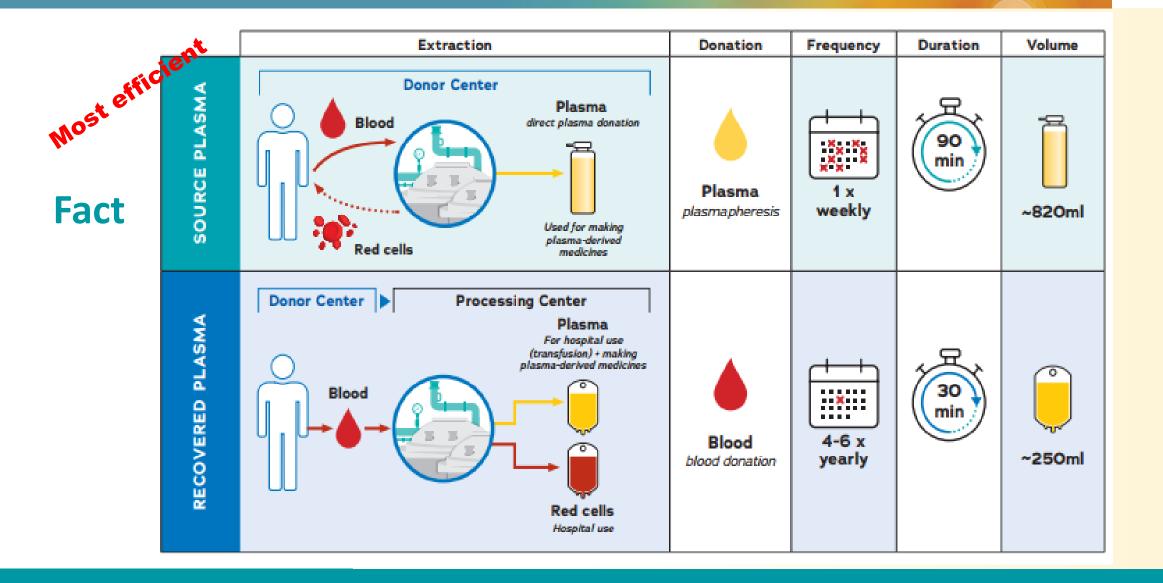
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#### How to collect more plasma in the EU?



## Two ways to donate plasma





# Private collection centres in coexistence with public sector: examples from Austria, Czech Republic, Germany & Hungary



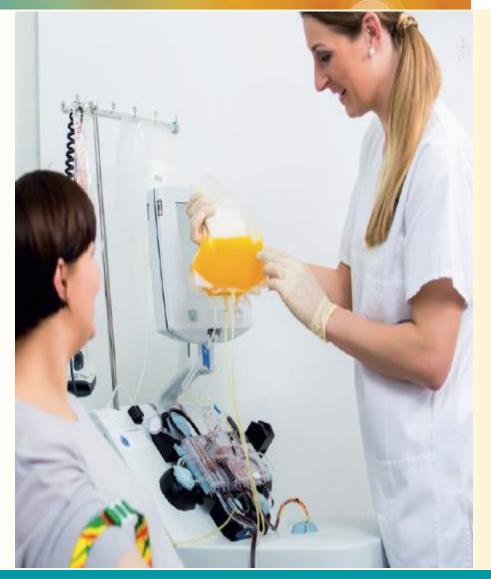
Private plasmapheresis donation centres coexist efficiently with public services collecting whole blood and plasma.

They collect four times more plasma
Fact per 1000 inhabitants compared to other countries.

Source Vintura White Paper: Key economic and value considerations for plasma-derived medicinal products (PDMPs) in Europe. https://bit.ly/VINTURA

 Whole blood donations have not decreased in countries with coexisting donation systems. No crowding out!

Source: KCE Reports 120A – Hoe zelfvoorziening in stabiele plasmaderivaten voor België verzekeren? 2.1.1: Key points



# Plasma donation: current compensation practices

Today 25 EU countries provide

some form of compensation to plasma donors.

Covering donors' expenses; recognizing inconveniences related to donating.

In Austria, Czech Republic, Germany and Hungary, private plasma donation centres give fixed-rate allowances in compliance with VUD principle.

Source: The concept of 'fixed-rate' compensation is defined in the DH BIO Interpretation Guide of the Principle of Prohibition of Financial Gain https://rm.coe.int/guide-for-the-implementation-of-the-principleof-prohibition-of-financ/16807af9a3

#### Fact

Fact





## PPTA's commitment to health & safety for donors



#### Plasma donor studies: Tracking & ensuring the safety of intensive plasmapheresis and analyzed risk factors.

## Tracking safety for plasma donors





Several EU plasma donor studies tracked the safety of intensive plasmapheresis and analyzed risk factors. Results:

- No significant adverse events registered
- Donors and non-donors have equivalent humoral immune response
- Risk for adverse events decreases with number of donations
- Cardiovascular risk for donors is unaffected

# Donor safety study data



2016 Data Collection Study Highlights	
Data collection period	3 months in 2016
Total plasma donations	7.6 million (79% of industry)
Dialysis-Associated Encephalopathy (DAE) recorded	15,300
Overall DAE rate	2.09 per 1000 donations
Top 2 DAE Categories 75% of all Adverse Events (AE)	Hypotensive/vasovagal prefaint with no loss of consciousness (57% of all AEs). Local injury (hematoma/bruise) related to phlebotomy (18% of all AEs).
Most rare DAE categories	Severe hypotensive events (0.06 per 1000 donations) Hypotensive events with prolonged loss of consciousness (0.01 per 1000 donations) Hypotensive injury (0.007 per 1000 donations)
2018 Data Collection Study highlights (publication in preparation)	
Data collection period	4 months in 2018
Total plasma donations	12.5 million donations
Overall DAE rate	1.58 per 1000 donations
Top DAE Categories	Vasovagal
Rare occurrences	Medical intervention Donors needing transportation to the hospital within 24 hours, including donors who has AEs after leaving the donation center (0.04 per 1000 donations).

Toward better access to plasma-derived medicines in Europe



**Better for patients** 

**Better for health** 

Better for society

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