

Plasmapheresis from a donor perspective

IPFA/EBA SYMPOSIUM ON PLASMA COLLECTION AND SUPPLY

15 – 16 MARCH 2022 AMSTERDAM

KARIN MAGNUSSEN

What Plasma Donors perceive as **positive**

- ▶ Welcoming, kind, respectful and attentive professional staff
- ▶ Acknowledgment from staff
- ▶ Less physically taxing compared to whole blood donation
- ▶ Less likelihood to be deferred
- ▶ There is a need for plasma to help patients
- ▶ For some the increased frequency helps to make it a routine
- ▶ Increased frequency eases social interaction with staff and fellow donors
- ▶ Easy accessibility to donor centre with possibility to park
- ▶ And accessibility to drinks and snacks



What Plasma Donors perceive as **negative**

- ▶ Time constraints – donation takes longer and you are expected to donate more often
- ▶ Side events
 - ▶ Citrate tingling
 - ▶ Needle injury
 - ▶ Fainting
- ▶ No available parking
- ▶ To feel exploited



Reducing risk of side effects

- ▶ Sufficient Blood volume (EDQM) is important
- ▶ Large difference in BV between men and women
- ▶ Extracorporeal volume must not exceed 20%
 - ▶ And is the limiting factor compared to the allowed donation volume of 15-16% of blood volume
- ▶ Maximum extracorporeal volume happens before the last return, when the machine reservoir and tubes are filled with blood.
 - ▶ For calculations are used the Aurora machine (ECV 200ml)
 - ▶ 20 ml blood sample
 - ▶ For calculations of the amount of citrate is used 45% as haematocrit

Examples from The SIPLA study ≥70kg donate 850ml incl. citrate

Min BV required 4930ml

Men	
Weight	70 kg
Height	179 cm
ICSH BV	4 931

Min BV required 4930ml

Women	
Weight	70 kg
Height	223,2 cm
Age	40
ICSH BV	4930

Examples from The SIPLA study

<70kg donate 750ml incl. citrate

Min BV required 4480ml

Men	
Weight	60 kg
Height	175,1 cm
ICSH BV	4 481

Min BV required 4480ml

Women	
Weight	60 kg
Height	214 cm
Age	40
ICSH BV	4 483

Examples from VNRBD

≥60kg donate 600ml incl. citrate

Min BV required 3805ml

Men	
Weight	60 kg
Height	146 cm
ICSH BV	3 826

Min BV required 3805ml

Women	
Weight	60 kg
Height	171 cm
Age	40
ICSH BV	3 816



Blodvolum for menn

Vekt (kg)	70
Høyde (cm)	175

ICSH	Volum(ml)	4 838
------	-----------	-------

Plasmatappevolum	Blodvolum
400 ml	3000 ml
450 ml	3200 ml
500 ml	3500 ml
600 ml	3900 ml
650 ml	4200 ml
720 ml plasmaprojekt	4500 ml
750 ml	5000 ml
800 ml	5500 ml



Blodvolum for kvinner

Vekt (kg)	55
Høyde (cm)	160
Alder (år)	30

ICSH	Volum(ml)	3 497
------	-----------	-------

Plasmatappevolum	Blodvolum
400 ml	3000 ml
450 ml	3200 ml
500 ml	3500 ml
600 ml	3900 ml
650 ml	4200 ml
720 ml plasmaprojekt	4500 ml
750 ml	5000 ml
800 ml	5500 ml

Conclusion

- ▶ Donors enjoy to help
- ▶ Personalized handling of donors is recommended
 - ▶ Product
 - ▶ Volume of product
- ▶ proper investment in public blood establishments facilitates ethical donations protecting the donors and helping patients

Thank You



K Magnussen 15-16/3-22 IPFA/EBA