

Portuguese Blood System Organization

Maria Antónia Escoval
Portuguese Blood and Transplantation Institute

Blood Competent Authorities

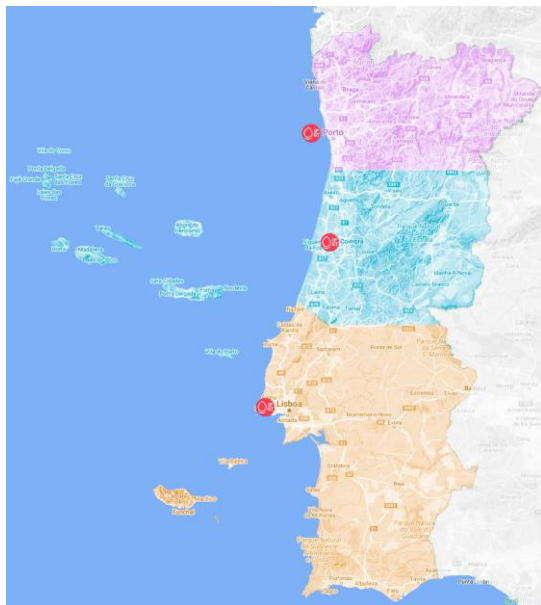
Directorate General of Health

attributions in the field of quality and safety, authorization, definition and implementation of periodic control measures

Authorization



Blood Competent Authorities



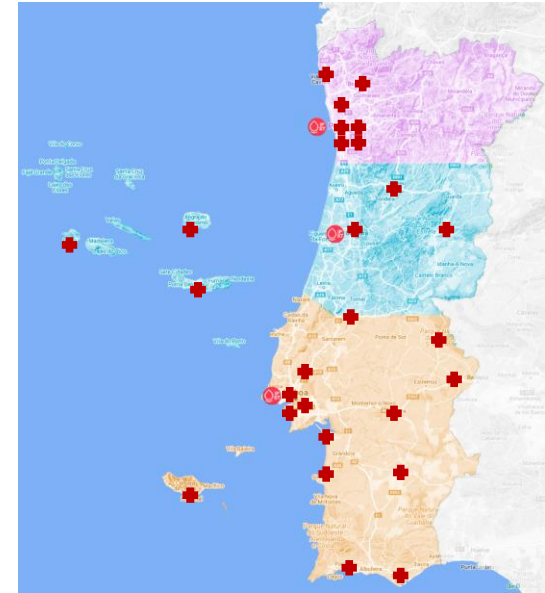
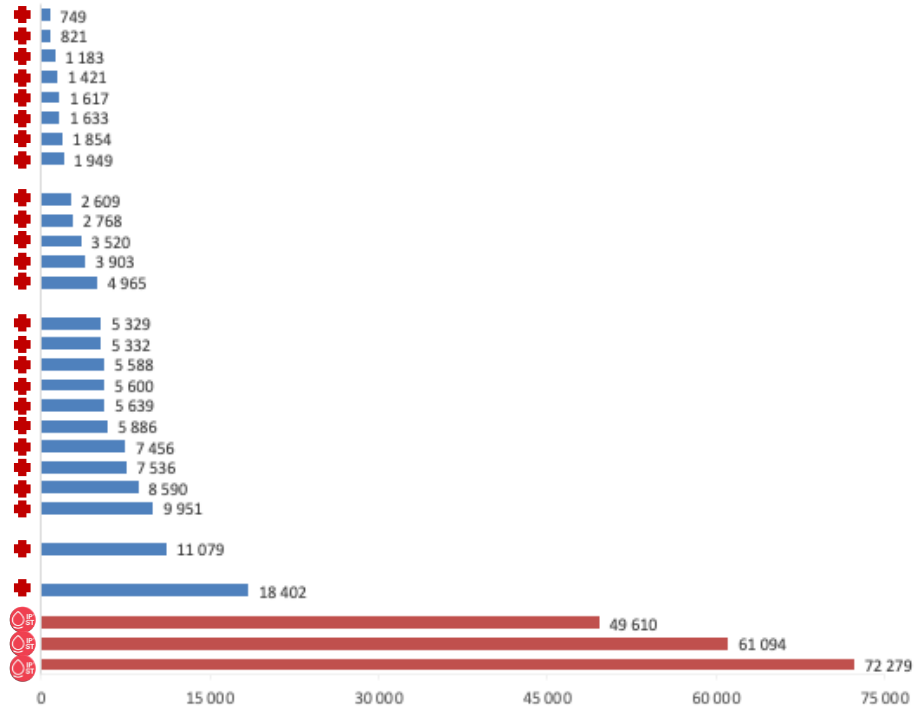
IPST

Insurance and regulation of the transfusion medicine and transplantation activities.

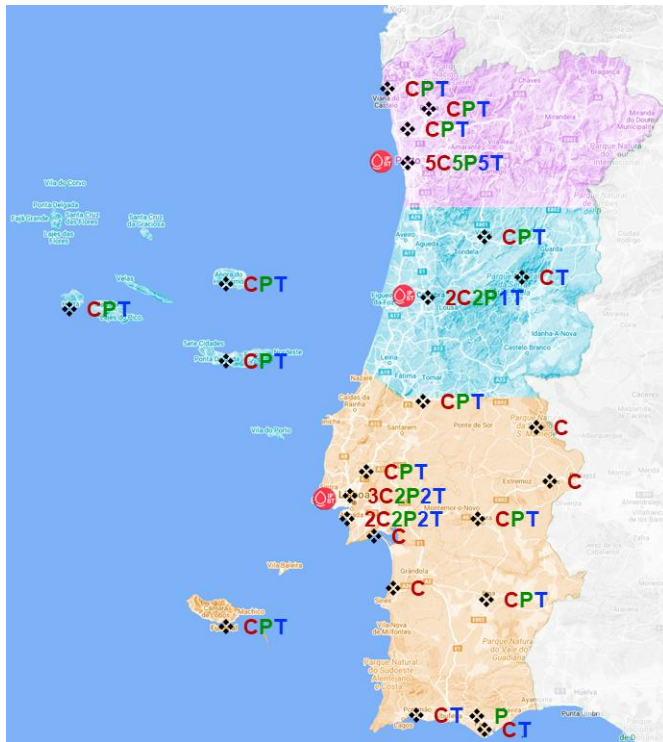
Ensure the donation, collection, testing, processing, preservation, storage and distribution of human blood, blood components, organs, tissues and cells of human origin.

Regulatory body
Global strategic definition
Import/ Export
Traceability
Vigilance
Rapid Alerts

Blood Donations (2021)



60% collected by IPST



Entities registration according to the activity

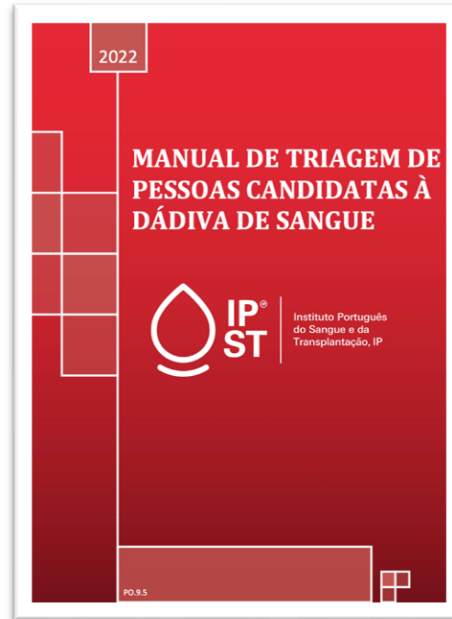
Collection	Processing	Testing
31	24	25
Distribution	Issue	Transfusion
81	102	259

Blood Donor recruitment



Media,
Social media,
Blood Donor Associations.
Schools and Universities,
Training courses on virtual
platforms for large
audiences - donor
eligibility criteria

Blood Donor eligibility assessment



*Individual Risk Assessment
19th March 2021*

E-learning Training Course on Blood donor eligibility criteria for medical doctors and nurses responsible for donor selection – 4 editions

Collection

2020

2021

Donations / 1 000 inhabitants



28,80

+7,6%



31,07

Donors / 1 000 inhabitants



18,86

+7,3%

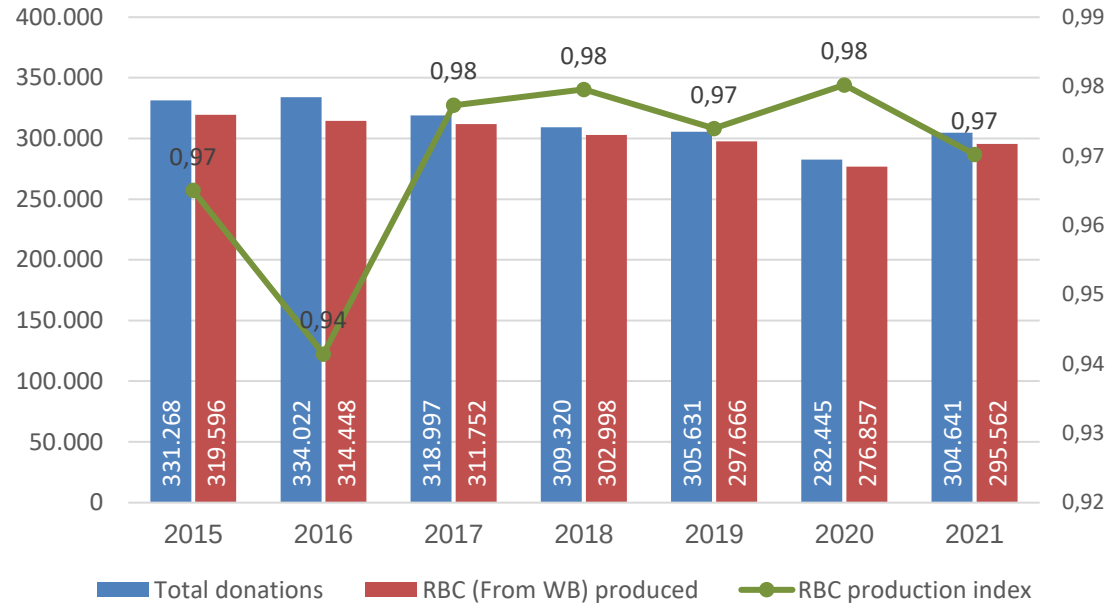


20,41

310 727 blood components collected

851 blood components collected per day

Processing – Red cells



Processing - Platelets

	2016	2017	2018	2019	2020	2021
Platelets, Apheresis	4 488	5 576	5 283	5 041	5 813	6 350
Δ %		24,24	-5,25	-4,58	15,31	9,24
Platelets, Pooled	21 138	26 801	35 369	29 064	15 005	11 713
Δ %		26,79	31,97	-17,83	-48,37	-21,94
Platelets, Pooled, Pathogen Reduced	9 503	9 225	3 134	9 987	21 640	29 201
Δ %		-2,93	-66,03	218,67	116,68	34,94
Platelets, Single Unit	48 068	26 937	24 003	19 833	15 214	17 664
Δ %		-43,96	-10,89	-17,37	-23,29	16,10

Processing – Plasma 2021

	Units		Total
	WB Plasma	Apheresis Plasma	
Plasma, Fresh Frozen, Future Processing	148 886	430	
Plasma, Fresh Frozen, Quarantined	3 838	529	158 865
Plasma, Fresh Frozen, Pathogen Reduced	1 434	3 748	
Cryoprecipitate	204		
Cryoprecipitate, Quarantined	75		279

Testing

Serological Testing

- *Anti-HIV-1/2*
- *Anti-HCV*
- *HBsAg*
- *Anti-HBc (Total and IgM)*
- *HBeAg / Anti-Hbe*
- *Syphilis*

NAT Testing

- *HIV-1*
- *HIV-2*
- *HCV*
- *HBV*

First time donors

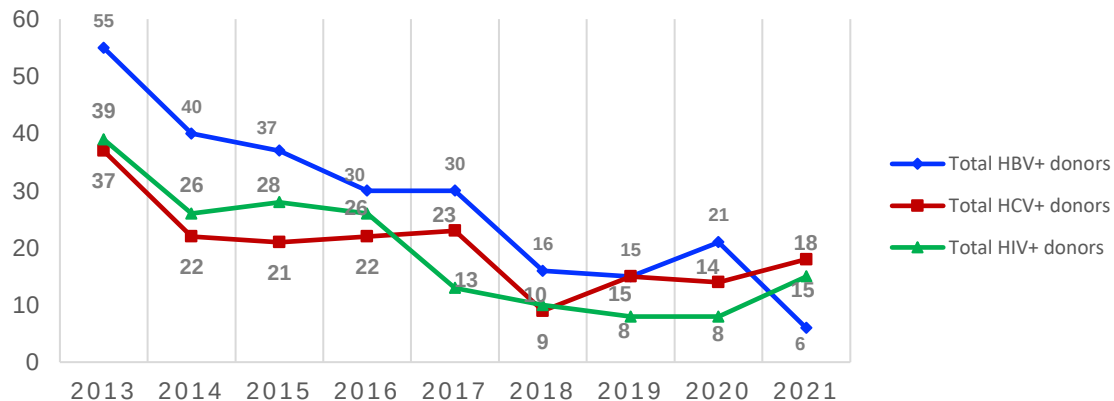
- *Anti-HTLV-I-II*

Endemic/epidemic area

- *Plasmodium*
- *West Nile Virus*
- *Tripanosoma cruzi*

Donors Epidemiological Data

		2016	2017	2018	2019	2020	2021
HBV +	Prevalence / 100 000 donors	13,8	14,22	7,87	7,48	11,13	2,94
	Incidence / 100 000 donors	2,68	1,08	1,12	1,14	0,62	0
HCV+	Prevalence / 100 000 donors	10,12	10,42	4,43	7,48	7,42	8,82
	Incidence / 100 000 donors	2,14	0,54	1,68	1,14	1,24	1,18
HIV+	Prevalence / 100 000 donors	11,96	6,16	4,92	3,99	4,24	7,35
	Incidence / 100 000 donors	11,24	5,4	3,92	3,42	2,48	5,9



Transfusion 2021

Implementation of the Patient Blood Management National Programme in the National Health Service.

	Units	Patients
Whole Blood	11	10
Red Cells	289 787	91 467
Platelets, Apheresis	5 807	1 815
Platelets, Apheresis, Pathogen Reduced	1 131	397
Platelets, Pooled	13 344	2 925
Platelets, Pooled, Pathogen Reduced	24 391	7 562
Platelets, Single Unit	6 188	718
Plasma, Fresh Frozen, Quarantined	3 994	1 149
Plasma, Fresh Frozen, Pathogen Reduced	7 434	1 324
Plasma, Solvent Detergent Treated	34 718	6 872
Cryoprecipitate, Quarantined	274	34

387 079 blood components transfused

1060 blood components transfused per day

Haemovigilance Rapid Alert

The screenshot shows the Hemovigilância website. At the top, there is a header with the Portuguese Government logo, the text 'GOVERNO DE PORTUGAL' and 'MINISTÉRIO DA SAÚDE', and a navigation bar with links: 'SPHV', 'NORMAS E DEFINIÇÕES', 'NOVIDADES', 'CONTACTOS', 'LINK'S', 'ALERTAS', and 'ÁREA PRIVADA'. The main content area features a teal background with several informational blocks. On the left, a text block describes the Portuguese hemovigilance system, its history since 2008, and its objectives. To the right, there are four large, colorful icons: a question mark for 'NOVIDADES', a person in a lab coat for 'ALERTAS', a group of people for 'QUEM SOMOS', and puzzle pieces for 'OBJETIVO'. Below these, there are two more icons: a doctor with a clipboard for 'NORMAS E DEFINIÇÕES' and a red padlock for 'ÁREA PRIVADA'. At the bottom, there is a news item about West Nile Virus and a copyright notice for 2015.

GOVERNO DE PORTUGAL
MINISTÉRIO DA SAÚDE

Portal da Saúde | Portal do Utente

SPHV • NORMAS E DEFINIÇÕES NOVIDADES CONTACTOS LINK'S ALERTAS ÁREA PRIVADA

A hemovigilância portuguesa encontra-se activa desde 2008, depois da publicação do decreto-lei nº 267/2007, apoiando-se desde o início, para o seu desenvolvimento e divulgação em tecnologias de base web.

O Sistema Português de Hemovigilância abrange toda a cadeia transfusional, do dador ao receptor, e ainda a recolha de informação de dados relativos à actividade dos Serviços de Sangue, Serviços de Medicina Transfusional e Pontos Transfusionais.

A divulgação das informações nacionais e internacionais sobre hemovigilância, junto do público em geral, e a recolha e sistematização da informação necessária à hemovigilância, junto dos profissionais com responsabilidades na área da Medicina Transfusional, são os objectivos deste site. Assim estão disponíveis uma área pública, com uma maior abrangência de temas relacionados com a hemovigilância e uma área privada dispondo de documentos e bases de dados acessíveis por registo personalizado, dedicada unicamente a notificadores de hemovigilância.

NOVIDADES

ALERTAS

QUEM SOMOS

NORMAS E DEFINIÇÕES

OBJETIVO

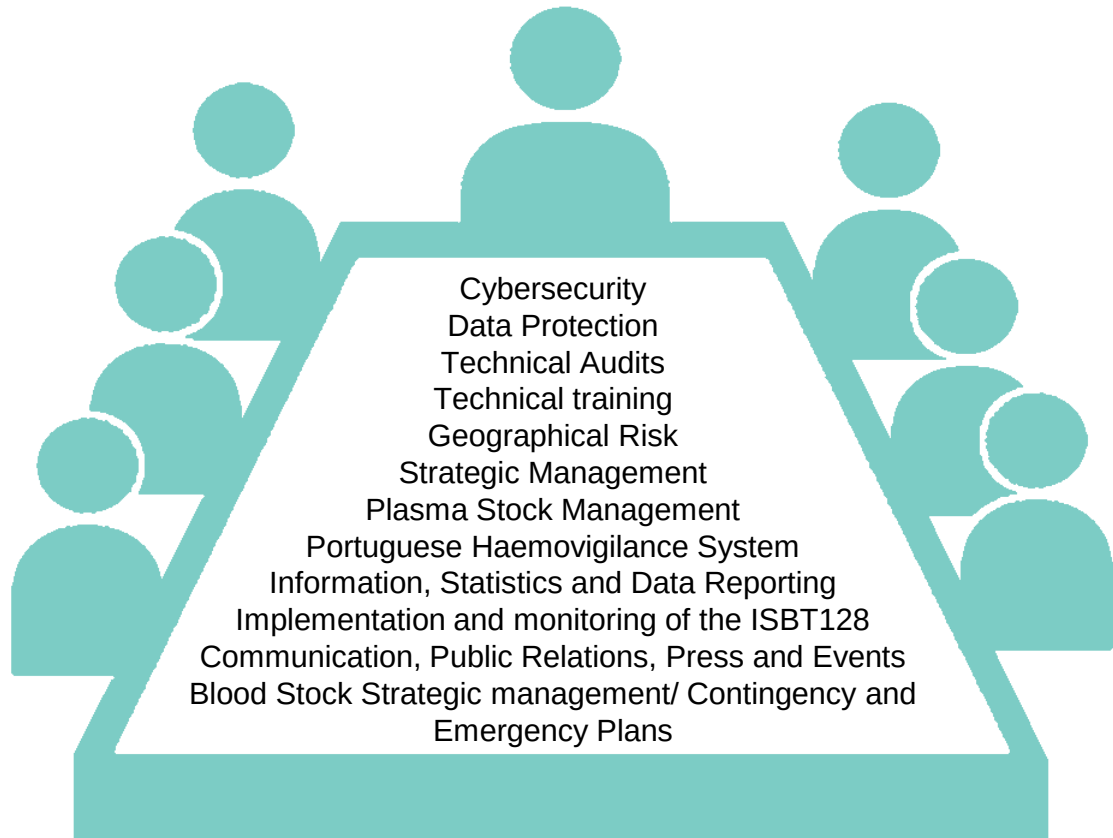
ÁREA PRIVADA

West Nile Virus (colocado em 02-09-2015)

Face a informação recebida da existência de um caso provável de infecção pelo Vírus do Nilo Ocidental (West Nile Virus) na região do Algarve, no âmbito das atribuições do Sistema Port...

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IPST Working Groups



Strengths

Consolidated
know-how

Qualified Staff

Good laboratory
practices

Training

Weaknesses

Lack of human
resources

Internal and external
communication

Infrastructure and
equipment
degradation

Poor interoperability
between Hospital
based blood and
transfusion services

Opportunities

Results of audits and
inspections

Energy efficiency,
circular economy and
environmental
sustainability programs

National and
international funded
projects

Conciliation of
professional, family and
personal life

Threats

Cyberattacks

Outdated
Price table

Access to technological
resources

Priority 1

Blood collection and supply
during seasonal and COVID-19
pandemic shortages

Priority 2

Plasma collection for fractionation

Priority 3

Patient Blood Management
National Programme

Priority 4

National SoHo Contingency
and Emergency Plans

Thanks!

maria.escoval@ipst.min-saude.pt

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