

National and EU-Level Tissue and Cell Activity Data Collection and Reporting

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PROCEEDINGS OF THE TECHNICAL MEETING

22-23 March 2018
Strasbourg, France

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INTRODUCTION

Founded in 1949, the Council of Europe is the oldest and largest of all European institutions and now numbers 47 member States. One of its founding principles is that of increasing co-operation between member States to improve the quality of life for all Europeans. Transplantation activities at the Council of Europe are co-ordinated by the European Directorate for the Quality of Medicines & HealthCare (EDQM) through its European Committee on Organ Transplantation (CD-P-TO). The EDQM is a key European organisation involved in the harmonisation, co-ordination, standardisation, regulation and quality control of medicines, blood transfusion, organ transplantation, pharmaceuticals, pharmaceutical care, consumer health, cosmetics and food packaging.

Since 1987, the EDQM has, through a number of initiatives, programmes and legal instruments, actively contributed to the development and implementation of quality, safety and ethical standards in the field of organs, tissues and cells, facilitating the exchange of knowledge between countries and institutions, securing fundamental rights and ensuring respect for the human body.

Within this context of intergovernmental co-operation in the field of health, the EDQM regularly selects technical problems for study. Monitoring of practices in the member States has become an evident need for the sake of transparency and international benchmarking. Keeping this goal in mind, the EDQM elaborates since 1996 and on a yearly basis the Newsletter Transplant. This work, performed in close cooperation with the Spanish National Transplant Organisation (ONT) and under the aegis of the CD-P-TO, has evolved into a unique official source of information that continues to inspire policies and strategic plans globally. This publication summarises comprehensive data provided by national focal points designated by governments on donation and transplantation activities, management of waiting lists, organ donation refusals and authorised centres for transplantation activities. As of today, the Newsletter Transplant provides information from almost 70 countries worldwide, including Council of Europe member States, observer countries and observer networks. The Newsletter Transplant database is connected with other international data collection projects, e.g. the WHO Global Observatory on Organ Donation and Transplantation (GODT) and the EURO CET database, to avoid duplication of efforts.

In parallel, many other organisations and professional societies are also performing relevant data collection exercises. In the current context where countries, as well as organisations, have to optimise and improve the efficiency of their efforts, it is essential that all relevant parties sit around the same table to benefit from each other's expertise, competences and strengths, make better use of existing resources, and search for added value while avoiding duplication of work.

The EDQM also has a standing and fruitful cooperation with the European Union (EU) on a number of health related issues. Since 2007, when the Lisbon Treaty further developed the scope for the EU in the area of health and allowed the establishment of the EU Health Programme funding instrument used to implement the EU Health Strategy, the EDQM has

been awarded with 4 grant agreements related to the field of substances of human origin due to its long-standing experience on the subject matter. In addition, the EDQM has also been awarded two separate contracts (SANTE/2016/B4/050 and SANTE/2017/B4/047) to take over from the European Commission (EC) the tasks pertaining to the analysis of the serious adverse events and reactions (SARE) in Europe in the fields of blood, tissues and cells in the EU for the years 2015 and 2016 and the elaboration of the corresponding SARE summaries – one for each field and for each year. The activities resulting from all these cooperation agreements and contracts are widely recognised as important elements and tools for the implementation of high quality and safety standards in the field of health across Europe (in EU member States and non-EU member States) and even beyond Europe in a harmonised manner while also supporting the implementation/enforcement of the EU legislation. Furthermore, these activities and their results also provide an important source of information to support evidence-based policy-making in the field.

In the framework of a direct grant agreement between the EC and the EDQM signed in 2015 (Agreement 2014 54 01), a technical meeting on the topic “National and EU-level tissue and cell activity data collection and reporting” took place in Strasbourg (France) on 22-23 March 2018. The Grant Agreement did not specify the topic of the workshop, leaving this to the EC DG SANTE to decide in discussion with EDQM, on the basis of the issues that had emerged through the evaluation of the blood, tissues and cells legislation. The topic chosen was agreed as one that could not be adequately addressed only in the context of the evaluation and for a number of other specific reasons:

1. A commonly reported lack of clarity regarding the requirements for activity data reporting for different purposes in the existing legislation and the need to understand what was considered optimal and lacking.
2. An awareness that there were many different activity data collecting exercises ongoing, some by national Health Authorities and the EC, some by scientific and professional societies and some by standalone bodies such the EUROCET platform which was established through an EU-funded project (E-ten programme) and currently maintained by the Italian authority CNT.
3. A common perception that there was both duplication and inconsistency in the various reporting schemes.
4. Despite the many activities in place, there were uncertainties and a general lack of confidence in the data reported and published, either for transparency purposes or as denominators for vigilance.

The meeting was attended by representatives of the main professional societies or organisations actively involved in collecting data on donation and transplantation in Europe, i.e. the European Society for Human Reproduction and Embryology (ESHRE; that collected data

through the European IVF Monitoring programme), the European Society for Blood and Marrow Transplantation (EBMT), the European Eye Banking Association (EEBA), European Blood Alliance (EBA), the World Marrow Donor Association (WMDA), Newsletter Transplant (ONT) and EUROCET (CNT). For completeness, the European Association of Tissue Banks (EATB) was also invited to attend, even if they had no on-going data collection exercises, as well as the EU Vigilance Expert Subgroup (VES). Finally, EU member States that had an interest in the topic were also invited to send a representative.

The agenda was organised in separate discussion blocks in an attempt to assess:

- if there were overlaps, duplications or inconsistencies between the different data collection exercises in the processes/objectives/parameters/units/definitions;
- if the existing activity data collection processes could be streamlined/harmonised so that the burden on tissue establishments and Health Authorities was minimised and the data remained meaningful and useful;
- the role of Health Authorities/EDQM and professional societies in this kind of data reporting and publication and if there was room for collaborative work;
- if the legal requirements in the EU regarding data collection were clear and adequate; and
- if there was enough data available to evaluate self-sufficiency in Europe and dependence on third countries or supply from certain member States (concern about overreliance on few member States).

These proceedings summarise the discussions held during this meeting and the resulting conclusions and recommendations.

PROGRAMME OF THE TECHNICAL MEETING

Thursday 22 March 2018
9:00 – 18:00

9:00 – 9:30	WELCOME AND OPENING REMARKS	
9:00 – 9:10	Welcome by the Director of the EDQM	Susanne KEITEL
9:10 – 9:20	Opening remarks	Deirdre FEHILY Marta LÓPEZ FRAGA
9:20 – 9:30	Tour de table	
9:30 – 12:40	<p>STATE-OF-THE-ART IN INTERNATIONAL DATA COLLECTION EXERCISES</p> <p><i>Please provide information on: governance, frequency, geographical coverage, source of the data (unique national focal point vs. centres), type of information collected, publication of raw vs. curated data, glossary of definitions available? dissemination/availability of data, other relevant information.</i></p>	
9:30 – 9:50	European Commission	Deirdre FEHILY
9:50 – 10:10	European Society for Blood and Marrow Transplantation (EBMT)	Eoin MCGRATH
10:10 – 10:30	European Society of Human Reproduction and Embryology (ESHRE)	Christian De GEYTER
10:30 – 10:50	European Blood Alliance (EBA)	George GALEA
10:50– 11:10	Coffee break	
11:10 – 11:40	World Marrow Donor Association (WMDA)	Lydia FOEKEN
11:40 – 12:00	European Eye Bank Association (EEBA)	John ARMITAGE
12:00 – 12:20	EUROCET	Valentina CARAMIA
12:20 – 12:40	Newsletter Transplant / WHO Global Observatory	Mar CARMONA
12:40 – 13:30	Lunch	
13:30 – 14:50	<p>NATIONAL DATA COLLECTION EXERCISES BY AUTHORITIES</p> <p><i>Please provide information on: data collection exercises to which your country provides information, who submits data to each, on-going additional national exercises, timing (case by case, monthly, annually...), interaction with professional societies for data reporting exercises, dissemination of data (public vs. restricted), is information on international distribution of tissues and cells and imports/exports collected, other relevant information.</i></p>	
13:30 – 13:40	Croatia	Milena IVANKOVIC
13:40 – 13:50	Cyprus	Carolina STYLIANOU
13:50 – 14:00	Estonia	Siim SUUTRE
14:00 – 14:10	Italy	Eliana PORTA
14:10 – 14:20	The Netherlands	Robin VAN EECHOUD
14:20 – 14:30	Poland	Artur KAMINSKI
14:30 – 14:40	Spain	Mar CARMONA
14:40 – 14:50	Sweden	Mona HANSSON

14:50 – 18:00	ROUND TABLE DISCUSSION	
14:50 – 16:00	Topics to be addressed: <ul style="list-style-type: none"> ➤ Is there overlap, duplication or inconsistency in processes/objectives/parameters/units/ definitions? ➤ Could the existing activity data collection processes be streamlined/harmonised so that the burden on tissue establishments and Competent Authorities was minimised and the data remained meaningful and useful? 	<i>Facilitators:</i> Deirdre FEHILY Marta LÓPEZ FRAGA
16:00 – 16:20	Coffee break	
16:20 – 18:00	Topics to be addressed: <ul style="list-style-type: none"> ➤ What are/should be the roles of Competent Authorities/EDQM/professional associations in this kind of data reporting and publication and is there scope for collaborative work? 	<i>Facilitators:</i> Deirdre FEHILY Marta LÓPEZ FRAGA
19:30	Social dinner	

Friday 23 March 2018 9:00 – 13:30		
9:00 – 9:40	LEGAL FRAMEWORK FOR DATA COLLECTION ACTIVITIES	
9:00 – 9:20	Denominators for the EU SARE exercise: are they fit for purpose? - Recommendations from the EU Vigilance Expert Subgroup.	George GALEA
9:20 – 9:40	Status update on the evaluation of the EU legislation on Tissues & Cells.	Deirdre FEHILY
9:40 – 12:40	ROUND TABLE DISCUSSION	
9:40 – 11:20	Topics to be addressed: <ul style="list-style-type: none"> ➤ Are the legal requirements clear and adequate and, if not, what should be recommended or mandated at a national/EU level? 	<i>Facilitators:</i> Deirdre FEHILY Marta LÓPEZ FRAGA
11:20 – 11:40	Coffee break	
11:40 – 12:40	Topics to be addressed: <ul style="list-style-type: none"> ➤ Do we have enough data to evaluate self-sufficiency in Europe and dependence on third 	<i>Facilitators:</i> Deirdre FEHILY Marta LÓPEZ FRAGA

	countries? ➤ Should the collection of data on international distribution and imports/exports be mandatory?	
12:40 – 13:20	RECOMMENDATIONS AND NEXT STEPS	
13:20 – 13:30	FINAL REMARKS AND CONCLUSIONS	

SUMMARY OF DISCUSSIONS

All major international activity data reporting schemes were invited to present their programmes with a common format during the session “State-of-the-art in international and national data collection exercises”. They were asked to describe the governance of their exercises/platforms, frequency of the data collection and period covered, geographical coverage, source of the data (unique national focal point vs. individual centres or professionals), type of information collected, if data was public or access-restricted to certain groups, if they published raw data as submitted or if there was a revision and curation process, if they had a glossary of definitions available, and any other relevant information. **Table 1** summarises all the reported information.

During the session on “National Data Collection Exercises by Authorities”, member State representatives were requested to report to which international data collection exercises they submitted data and if they performed other national exercises, who submitted data to each of the above mentioned exercises (national authorities vs. professionals/centres), the timing of submission of information (case by case, monthly, annually), if there was interaction with professional societies for data reporting exercises, dissemination of data (public vs. restricted), if they collected information on international distribution of tissues and cells and imports/exports, and any other relevant information. **Table 2** summarises all the reported information.

These exercises were evaluated based on their overall effectiveness, relevance, efficiency, coherence and value. As a means to assess the **effectiveness** of the ongoing exercises, their degree of completeness, accuracy and comparability was discussed. In general, the data collected by professional societies was the most complete. They had managed to collect some minimum data sets very consistently. However, fine data was still missing. They also reported they had not managed to capture the 100% of the data as their coverage was not complete (in some cases, only members or affiliated centres reported data to them). Reportedly, the problem was the voluntary nature of the reporting. Clear and binding rules for reporting, preferably at EU level, would greatly contribute to closing these gaps. The registries from professional societies were, in general, very accurate, as they invested a lot of resources and dedicated personnel to integrate internal triggers to control accuracy and internal consistency within the databases, to manually curate and verify the data and to establish sound governance systems. Their main interest in collecting this information was for research purposes. On the other hand, Health Authorities did not, in general, have so many resources to collect activity data, with this task sometimes circumscribed to regions or centres. Reportedly, the accuracy of data collected by them was heterogeneous and it relayed, on many instances, on the reporting bodies verifying their own data. Nonetheless, Authorities expressed that they had an interest in this information as a means to assess quality of their donation and transplantation systems and as a basis for future policy decisions.

When comparing the data gathered by professional societies and national authorities, it became evident that the source of the data was not always the same, which created

discrepancies. In addition, definitions and units being collected were interpreted in different manners for the various exercises. All this had an impact in the **coherence** of the data gathered.

When discussing the **relevance** of the different exercises, it was agreed that the type of information needed for citizens, regulators, end users, professionals, Health Technology Assessment (HTA) bodies and supranational/international organisations was not the same. Thus, the relevance of the on-going exercises for each one of them was variable.

In terms of **efficiency**, the group identified overlaps between the data collected by the different exercises, creating excessive burden for the reporting member States, tissue establishments and end users. To make things more complicated, the definitions and units used by the different exercises differed, creating misunderstanding and additional work for the reporting bodies to accommodate the needs of each exercise. It was felt that haematopoietic progenitor cell (HPC) collection centres were probably the ones suffering the greatest burden.

Finally, when analysing the **value** of these exercises, there was general agreement that there was room for improvement as many of them could be streamlined and harmonised to relieve the burden on member States, tissue establishments and end users while still collecting meaningful and useful data.

During the session on the “Legal Framework for Data Collection Activities”, a representative from the EU VES provided their views on the extent to which the denominators currently collected by the EU during the annual SARE exercise were fit for purpose, i.e., if they were clear, sufficient, etc. It was made evident from this presentation and the subsequent discussions that it was no longer possible to approach biovigilance on its own and that this exercise should be better integrated with the collection of activity data done for other purposes (transparency towards citizens, quality assessment, policy guiding, research, etc.)

The representative from the EC also provided a comprehensive overview of the on-going evaluation of the legislation, which had put in evidence that some legal provision in the EU Directives were missing or no longer adequate, some of them including reporting obligations, donor safety, clinical outcomes, biovigilance and European self-sufficiency.

During the general discussions it was also highlighted that there was a remarkable lack of information on tissues and cells imports and exports within of the EU. Thus, it was very difficult to assess the dependency on third countries to ensure our supply of certain tissues and cells and reliable information was urgently needed. Furthermore, clinicians were in many cases ordering tissues from third countries without any involvement of tissue establishments within the EU. The panel agreed that mechanisms should be put in place to get information from end users (clinicians) about the tissues and cells they were using. If this was not possible through the direct inspection of end users, a partial solution to be explored could be the collection of

such information via the mandatory inspections of tissue establishments. However, this would still not address direct imports by clinicians from third countries.

Similarly, the on-going exercises reported it was impossible to assess overreliance on some EU countries for the supply of certain tissues and cells. Overall, obtaining a clearer picture on these matters could only be accomplished through legislative changes that made the collection of this type of data mandatory. In particular, Article 10(1) of Directive 2004/23/EC should provide clearer requirements on data reporting.

Table 1. Summary of the information reported by the attending international activity data reporting schemes.

Association/ Body	Governance of your exercises/platf orms	Frequency of data collection	Period covered	Geographical coverage	Source of data	Type of information collected	Public/access restricted to certain groups	Raw data/ curated data	Glossary/ definitions available?	OTHER
EC	EU legislation – CA expert group	Annual publication	1 yr	28 EU MS (mandatory by EU Directive) + Iceland, Norway and Liechtenstein (voluntary)	CA of each country	Activity data (voluntary) and SARE (mandatory)	Summary report publically available at EC website	Curated data, verified with countries involved. In addition, VES revised reporting templates, Common Approach document and definitions, proposing changes as needed to improve accuracy of data	Common Approach document	EDQM performs data verification (contacting MS as needed) and analysis and drafts summary reports. It also provides feedback to the EC and VES in order to improve future exercises
European Society for Blood and Marrow Transplantati on (EBMT)	EBMT (Head of Registry and the EBMT Executive Committee – report to the EBMT Board that in turn reports to the General assembly). There is also a Registry Committee	Annual publication. Frequency can be increased and decreased as needed	<ul style="list-style-type: none"> Day 0 Day 100 Annual follow-up until death Data can be entered in real- time	Data from >500 centres/>50 countries Approx. 80% of European tx centres report their data to the registry (this covers 96% of EU tx)	Tx centres and National Registries. Each EBMT centre is represented in this database and given a Centre Identification Code. No fee for participation	HSCT, cell therapy, donor outcome	Access restricted to users (aggregated data) but data published annually in scientific journal	Database with internal quality controls. Over 4000 triggers control the accuracy and internal consistency of what is entered in the database. Statistical analyses allow to detect bias, data quality and unusual trends Data also curated manually	Statistical guidelines, glossary of definitions and manual	Data are pseudo- anonymised. To safeguard centre anonymity, all countries with less than 10 member centres appear under the label of “Other” In the process of reducing collected data set

Association/ Body	Governance of your exercises/platf orms	Frequency of data collection	Period covered	Geographical coverage	Source of data	Type of information collected	Public/access restricted to certain groups	Raw data/ curated data	Glossary/ definitions available?	OTHER
European Society of Human Reproduction and Embryology (ESHRE)	ESHRE Board: European IVF Monitoring Programme	Annual	1 yr	38 countries (out of 51 Europe) in 2013. 85% EU countries send data to ESHRE. Completeness 89% In some countries, reporting is mandated by law No data from HR, or SK	Directly reported by centres in countries with no national registry. From national registries where they exist	IVF, ICSI, frozen/thawed embryo transfer/oocyte treatment, oocyte donation, in vitro maturation, PGT, gonadal tissue freezing	Publication in journal	Curated data (no additional data on how)	Yes	Estimated 85% completeness
European Blood Alliance (EBA)	EBA Board	Annual	1 yr	29 countries	Blood establishments with T&C activity (28 facilities, from those 14-15 are national organisations)	Activity data, units imported from another TE in the country, or other TE from outside the country (EU/non EU), tissues issued for export (outside the country), discarded by the bank prior to issue, in stock at the end of the year, infectious diseases markers, tests used Including umbilical cord blood	Restricted to EBA members. Countries are coded so only country knows their results	Curated data, 2 times verified by 3 people analysing it	Yes	Generally poor completeness of data

Association/ Body	Governance of your exercises/platforms	Frequency of data collection	Period covered	Geographical coverage	Source of data	Type of information collected	Public/access restricted to certain groups	Raw data/ curated data	Glossary/ definitions available?	OTHER
World Marrow Donor Association (WMDA)	WMDA Board	Daily/Annual	1 yr	52 countries (all donors and cord blood units are available for global search in centralised database).	National registries. Some EU (Estonia and Malta) do not have national registries.	<p>Number of donors and number of cord blood units listed per organisation per country.</p> <p>Number of HPC products used for unrelated stem cell transplantation within a country specified (national, imported, exported).</p> <p>Serious adverse events and reactions occurring after unrelated stem cell donation.</p>	<p>Data are publicly available on: https://statistics.wmda.info/ and updated on a daily base.</p> <p>Import/export data collected once a year through an operational grant from the EU and shared with EU (not with CA) and WMDA members.</p>	Curated data (crosschecked with EBMT). Data no cross-checked with CA	Yes	They also collect technical information from public CBB: address details, licenses, details how cord blood units are collected, processed, stored and shipped. Updated bi-annually. Will become publicly available in 2019
European Eye Bank Association (EEBA)	EEBA Board	Annual	1 yr (but collected 2 years after)	22 countries	Data from individual banks only if at least 1 member staff from that bank is a registered Ordinary Member at the EEBA.	<p>Information per country (specific legislation, donation and cornea banking). Yearly activities and methods of eye banks in Europe.</p> <p>List of the contact details for all eye banks which have at least one EEBA</p>	Published in the Annual Business Meeting (online and paper) for members in their Annual Directory. Available on request to regulatory/ CA.	Curated data (no additional data on how)	Yes (in questionnaire)	EU –funded ECCTR project (European Cornea and Cell Transplantation Registry) (EEBA is one of 8 consortium partners)

Association/ Body	Governance of your exercises/platforms	Frequency of data collection	Period covered	Geographical coverage	Source of data	Type of information collected	Public/access restricted to certain groups	Raw data/ curated data	Glossary/ definitions available?	OTHER
						ordinary member. Keeping track of new developments in eye banking. Also collect data on virology test results				
EUROCET	CNT	Annual	1 yr	33 countries	National Competent Authorities: In 2017: 27 T&C, 25 HPC, 22 ART CA provided data	Type of tissue/cell (including HPC and ART), activities collected, import/export outside EU	Public in EUROCET webpage and published in Newsletter Transplant.	Curated data: checked with CA	Yes, currently being revised and updated with other associations in a CD-P-TO project	10 years of experience
Newsletter Transplant/ WHO Global observatory (Organs)	ONT	Annual	1 yr	Worldwide: Newsletter Transplant : COE MS, observers RCIDT: Latin-American countries EC: EU countries WHO: Other WHO regions (AFR, EMR, SEAR, WPR and NIS/CAR MS).	National Health Authorities Population: UNFPA.	Data related donated and transplanted organs, including paediatrics, (per ages, living vs deceased).	Public (papier copies and pdf) also includes EUROCET information regarding T&C (but not ART).	Curated data verified with countries involved.	WHO global glossary.	This exercise feeds information to: <ul style="list-style-type: none"> • WHO-GODT • COE Newsletter Transplant • RCIDT - collaboration with Latin-American countries • EC indicators exercise- UE Action Plan

Table 2. Summary of the information reported by the attending Health Authorities.

Association	Who submits data	National exercises on-going	Timing	Interaction with professional societies	Disemination data (public/restricted)	Information imports/exports collected	Glossary/ definitions available?	OTHER
Croatia	TE (2) and ART centres (16) submit data to CA. Then, CA sends data to EURO CET and also publishes national data.	Also SARE reporting and EURO CET (extended)	Real time and annually. Data collection on number of cornea donors is monthly.	They provide data to ESHRE (ART)	Public (MoH webpage and EURO CET).	Yes – import/export data as requested by EURO CET. Number of donors, donation, received tissue, processed and discarded tissue, units distributed, stored tissues, imports/exports, transplants and recipients. Non- reproductive T&C, HPC, reproductive tissue and cells.	Yes	<ul style="list-style-type: none"> • TESE/ TESA, storage for delayed cycles • Cycles according to the age of women • Storage of reproductive cells and tissues for the purpose of later usage (oncological patients) • ART registry at the end of this year • Data is double checked
Cyprus	TE. Using EURO CET templates and also collection of information for SARE exercise.		Annually. Real time for SARE	HPC -> EBMT IVF-> ESHRE	Not publicly available	No real data of tissues used or distributed directly to centres in EU countries Bone distributed directly to dentists from other MS – CA gets no data on this	Yes	<ul style="list-style-type: none"> • No feedback provided to tx centres • No outcome data for ART
Estonia	TE	Also SARE reporting and EURO CET.	Annually (1 April).	No	Consolidated report is published by State Agency of Medicines on their website (aggregated data at the end of year) Also an annual roundtable meeting with ART community to discuss	Import/export activity data is reported case by case (if tissue moves from or to EEA or outside EEA). This information is included in the national report Licences are issued for 3rd country exchanges	Yes, using EURO CET glossary	

Association	Who submits data	National exercises on-going	Timing	Interaction with professional societies	Disemination data (public/restricted)	Information imports/exports collected	Glossary/ definitions available?	OTHER
Italy	From 30 TE (tissue for transplant) and 2 pancreatic islets processing units. Hospitals, TE and end users provide data to regional CA. 87 HSC centres and 18 CB banks report data to GITMO and + 300 ART centres report to a national ART activity registry	3 exercises annually: 1. ART national registry. 2. GITMO, (registro italiano donator di midollo osseo) for HPCs 3. Tissue activity to CNT . Also SARE reporting and EURO CET	Data collection on quarterly basis for tissues for transplant to CNT	ESHRE -> ART	Public – on the CNT website	Tissue within the region, Italy, inside EU and import/export is annually collected.	Yes, using EURO CET glossary	
The Netherlands	1 multi tissue bank, 1 eye bank. Procurement centres also report their data	National data collection: TRIP, Dutch Transplant Foundation, Tissue banks, Associatio of ophthalmologists, clinical centres and patient associations. EURO CET and SARE collected by TRIP.	Monthly collection (depending tissue).	No	Public data: SARE, consent to donation, tissue donation, tissue transplantation and distribution and waiting lists (cornea and heart valves).	Import/export and distribution is collected by TRIP (corneas, heart valves, bones).	Yes	<ul style="list-style-type: none"> This information only covers tissue donation from deceased donors)
Poland	TE, donor recruitment centres, HLA typing laboratories, qualification centres procurement and transplant centres. Use EURO CET form (extended)		Annually except waiting list cornea (collect daily and published monthly)	No	Public (webpage)	Import/export (international) is collected and disseminated – including cross-border within the EU. Close co-operation with Customs authorities.	Yes	<ul style="list-style-type: none"> National waiting list (ocular, pancreatic, HSC)

Association	Who submits data	National exercises on-going	Timing	Interaction with professional societies	Disemination data (public/restricted)	Information imports/exports collected	Glossary/ definitions available?	OTHER
Spain	Individual TE, centres, HSC registry. Data is collected from centres to regional CA and then to ONT.	Also SARE reporting and EURO CET	Yearly basis	No (they only have a consultant role)	Public (webpage): tissues and HSCT, once they are approved by the regional CA	Collection of number of tissues imported/exported outside EU	Yes	<ul style="list-style-type: none"> Centres also report to EBMT
Sweden	TE	Also SARE reporting and EURO CET	Annually (February). Real time for SARE	ART centres report to quality registry -> ESHRE. Eye bank -> Swedish registry eye bank HPC tx centres directly to EBMT	Public (webpage)	TE inside Sweden/EU/outside EU. How many for clinical use outside EU. Dentist no information but they believe that all comes in through TEs	Yes.	<ul style="list-style-type: none"> Also collect non-serious SARE for national overview

CONCLUSIONS AND RECOMMENDATIONS

Activity data collection in the EU was being performed by a number of stakeholders. Having access to this data was considered necessary, with different objectives and purposes by the different bodies undertaking it. However, after this two day technical meeting, it became clear that there was clear room for improvement and, most of all, harmonisation and streamlining in order to decrease the burden on the reporting bodies and to have better, more coherent and accurate data in the level of detail necessary for each stakeholder. Focus should be on the quality, completeness and accuracy of the data collected, avoiding duplications. The common theme should be: **“Collect once and use often”**.

In this sense, the group defined different levels of information that should be collected and made available for different groups of people. The amount of information and detail would increase according to the purpose of the data collection (see [Figure 1](#)).

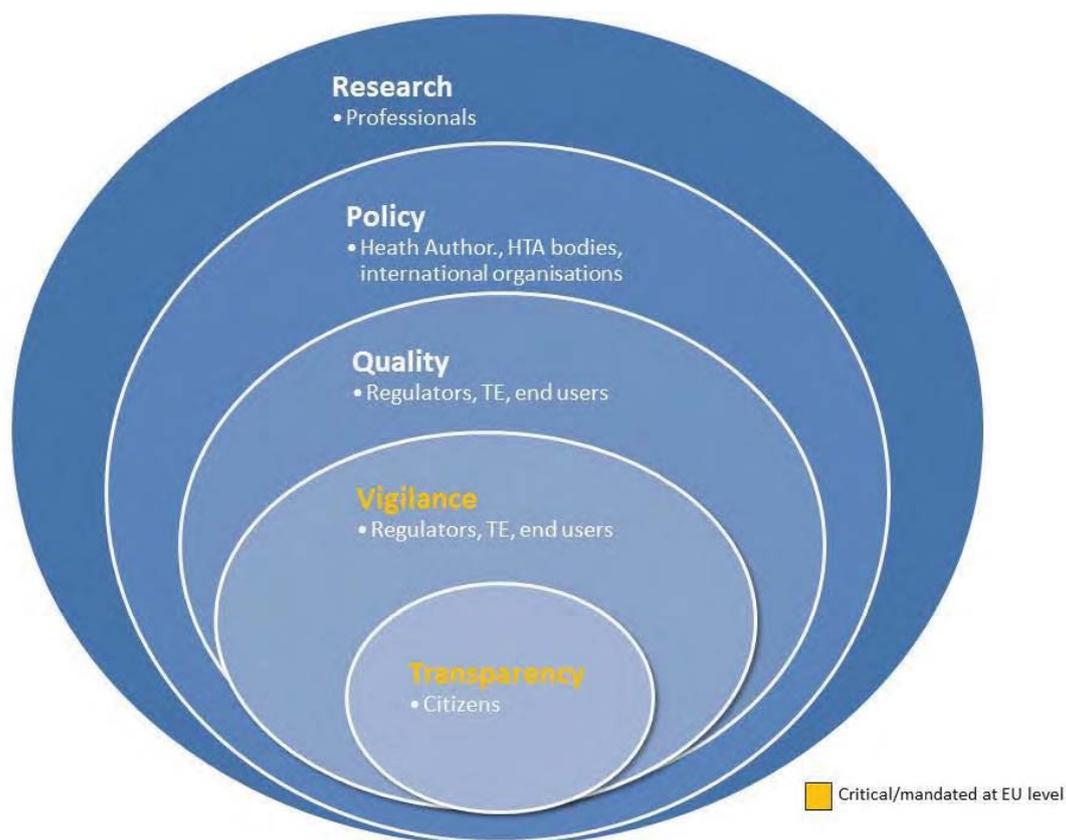


Figure 1. Levels of data that should be necessary for the different stakeholders in the EU. HTA: Health Technology Assessment; TE: Tissue Establishments.

The first level of data, the most basic but also essential, would be needed for transparency purposes and should be made available to all citizens. It would provide information about national/EU self-sufficiency and the availability of care for patients and it would include data such as number of donations per tissue/cell type; the number of recipients for each tissue/cell type; figures on distribution within the EU, imports and exports; risks for living donors; safety of recipients; efficacy data related to the use of different tissues/cells (in cooperation with HTA bodies); etc.

The second level of data would be essential for regulators, tissue establishments and end users for biovigilance purposes. It would provide detailed information about the safety of tissues and cells of human origin and include data such as serious adverse events and serious adverse reactions in donors and recipients, as well as the children born as a result of medically assisted reproduction. It should also include appropriate denominators to put all the above figures into context, and these denominators should be disaggregated into national figures, tissues/cells distributed from other EU member States or imported from third countries.

Due to their special value and relevance, these two first levels of data should be of mandatory collection in the EU. However, in order to enforce this collection, legislative changes would be necessary.

Going one level of detail up, we would find data to be collected in order to assess the quality of donation and transplantation programmes. This information would be necessary for regulators, tissue establishments and end users. Above this, we would have information necessary to guide policy making decisions (i.e. to understand trends and needs), and thus relevant for national Health Authorities, HTA bodies and supranational/international organisations. Finally, professionals and professional societies would also need to collect more detailed and specific data to support their research efforts.

In summary, the collection of a basic data set, harmonised and common to all parties and including information that would serve the purpose of transparency for citizens and as denominators for vigilance exercises, should be mandatory. Additional data should also be collected, although not enforced at EU level, in order to support the different stakeholders meet their needs and objectives (see [Figure 2](#)).

It remained to be defined who should coordinate or perform these data collections exercises, at least the basis data set. Several options were discussed, including one body collecting all the information and distributing it to the rest of interested parties, or multiple bodies collecting the same harmonised and validated data. The general feeling was that the collection of the basic data set should be the responsibility of Health Authorities, whereas professional societies would be better fitted to collect the expanded data set. However, this debate should be the subject of future discussions.

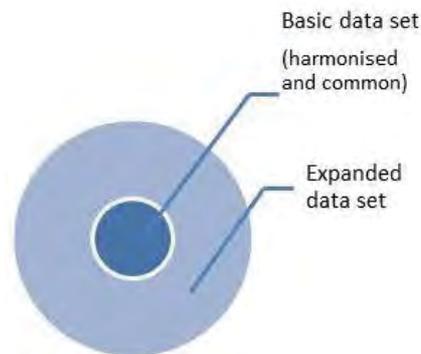


Figure 2. Scheme of the levels of data intended for collection in the EU, defining a mandatory data set and an expanded set of variables.

All these discussions were summarised in the following recommendations elaborated by the group:

1. The collection of a basic data set should be mandated at EU level (this would require legislative changes). This data set would serve the purpose of transparency for citizens and as denominators for vigilance exercises.
2. The basic data set should be common for Health Authorities and professional societies.
3. The Health Authorities should be responsible for the collection of the basic data set and for reporting it to the EC.
4. There should be interaction between the EU (Health Authorities) and data-collecting professional societies and registries (e.g. ESHRE, EBMT, WMDA, EURO CET) for the definition of the common data set. This interaction could be facilitated by the EDQM based on existing experience (e.g. elaboration of technical guides, EU serious adverse events and reactions exercise analysis).
5. There should be interaction between the Health Authorities and the data-collecting professional societies and registries for the validation of the collected data (health insurance companies could also contribute to the validation of data).
6. The EC should annually publish separate activity and vigilance reports (this would require legislative changes). This could be delegated to other bodies (e.g. EDQM, EURO CET).

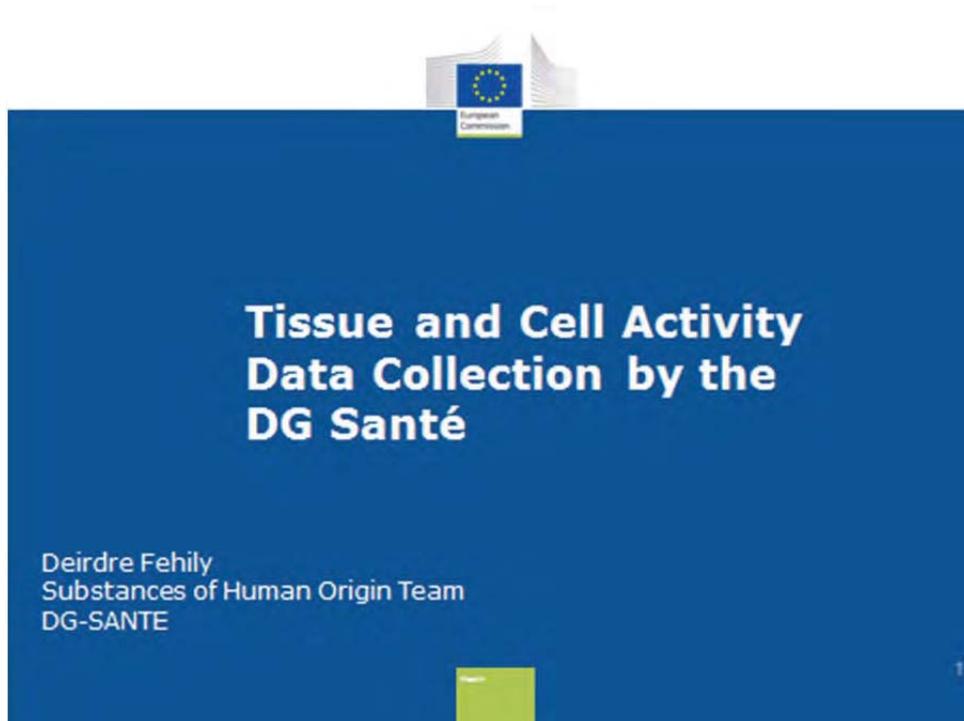
The participants at the meeting agreed that further meetings involving professional societies and a larger number of member States should be organised to continue with the discussions and ensure the appropriate implementation of these recommendations. These meetings could be organised by the EDQM in the same manner as the current technical meeting in the framework of future cooperation agreements between the EU and the EDQM. Ultimately, what would be important would be to ensure appropriate communication and involvement of Health Authorities, professional societies and supranational/international organisations in order to guarantee common understanding and agreement on the objectives, methods and

resources that would be necessary to ensure effective, relevant, efficient, coherent and valuable results.

Finally, the representative from the European Commission informed the participants that the conclusions and recommendations from the technical meeting would be used during the evaluation of the EU tissues and cells legislation and in any potential future revisions.

PRESENTATIONS

- Tissue and cell activity data collection by the DG-SANTE - Deirdre Fehily (European Commission)



Register of tissue establishments and reporting obligations

1. Tissue establishments shall keep a record of their activities, including the types and quantities of tissues and/or cells procured, tested, preserved, processed, stored and distributed, or otherwise disposed of, and on the origin and destination of the tissues and cells intended for human applications, in accordance with the requirements referred to in Article 28(f). **They shall submit to the competent authority or authorities an annual report on these activities.** This report shall be publicly accessible.

2. The competent authority or authorities shall establish and maintain a publicly accessible register of tissue establishments and their activities for which they have been accredited, designed, or approved.

3. Member States and the Commission shall establish and maintain national tissue establishment registers.

Coding Platform
TE Compendium



Legal Basis



Directive 2006/86/EC
Article 7

Annual reports

1. Member States shall submit to the Commission an annual report, by 30 June of the following year, on the notification of serious adverse reactions and events received by the competent authority. The Commission shall submit to the competent authorities of Member States a summary of the reports received. The competent authority shall make this report available to tissue establishments.

2. Data transmission shall comply with the data exchange format specifications as set out in Annex V, part A and B, and shall provide all the information necessary to identify the sender and maintain its reference data.

No mention of
denominator data
reporting



Legal Basis



Directive 2006/86/EC
Annex V Part A

ANNUAL NOTIFICATION FORMAT - SAR

Reporting country		
Reporting date (January-31 December (year))		
Number of serious adverse reaction(s) per type of tissue and cell (or product in contact with the tissues and cells)		
	Type of tissue/cell (or product in contact with the tissues and cells)	Number of serious adverse reaction(s)
		Total number of tissues/cells of this type distributed (if available)
1		
2		
3		
4		
...		
Total		
Total number of tissues and cells distributed (including type of tissue and cell for which no serious adverse reactions were reported):		
Number of recipients affected (total number of recipients):		

Legal Basis



Directive 2006/86/EC
Annex V – Part B

ANNUAL NOTIFICATION FORMAT - SAE

Reporting country				
Reporting date 1 January-31 December (year)				
Total number of tissues and cells processed				
Total number of serious adverse events, which may have affected quality and safety of tissues and cells due to a deviation in:	Specification			
	Tissues and cells defect (specify)	Equipment failure (specify)	Human error (specify)	Other (specify)
Procurement				
Testing				
Transport				



Common Approach - Non-reproductive



SAR denominators

3.3. Number of tissues and cells of this type distributed (if available)

Article 3 (k) of Directive 2004/23/EC defines "distribution" (see Glossary).

In the annual report, the number of tissues and cells of this type distributed should be understood as 'the total number transported or delivered to a clinical unit, even if the clinical unit is in the same building or the same floor'.

If tissues and cells are returned to the Tissue Establishment (TE) without use and for subsequent redistribution, they should be counted only when subsequently redistributed. Where tissues or cells pass from one TE to another TE before distribution, they should not be included in this total until finally distributed for clinical application.

The quantity of tissues and cells distributed by a TE could be extracted from the annual activity report that TEs submit to the CA in accordance with Article 10 of Directive 2004/23/EC. This is the national distribution activity that provides a denominator for the frequency of reactions for this type of tissue or cells.



Common Approach - non-reproductive SAR denominators

T&C	One (1) unit equals to:
Skeletal Tissues	One individually packaged graft (e.g. one femoral head, one unit of demineralised bone, one container of bone chips, one femoral strut, oneochondral allograft, one individually packaged tendon or part of a tendon)
Haematopoietic Stem Cells	One single bag or container of cells
Ocular Tissues	One individually packaged or contained graft (e.g. one cornea, one piece of sclera)
Cardiovascular Tissues	One individually packaged or contained graft (e.g. one valve, one package containing one or more lengths of vessel)
Skin	One container of skin, regardless of the area of skin it contains ² .
Amniotic Membrane	One container of tissue, regardless of the area of tissue it contains.

² If the data is reported by cm² in your RA, you should divide the total by the average number of cm² included in a single package. Although this will be an estimate, it will be adequate for the purpose of providing a denominator for SAR monitoring. If you don't have data on the average number of cm² included in a single package, please provide the total area of distributed skin in the comments column.

3.4. Total numbers of recipients for this type tissues and cells (number of recipients affected)

In the annual report, this should be understood to mean the total number of patients who had at least one unit of tissues or cells applied during the year concerned in a given country, regardless of whether they had a reaction or not. This is the national activity that provides a denominator for the frequency of reactions for this type of tissue or cells.

It is acknowledged that not all Member States currently collect data on the total number of patients treated with each type of tissue or cells. If this information is not available, it should be noted in the comments space provided.



Common Approach - Reproductive SAR denominators

4.3. Number of tissues and cells of this type distributed (if available)

Article 3 (k) of Directive 2004/23/EC defines "distribution" (see Glossary).

In the annual report, the number of tissues and cells of this type distributed should be understood as 'the total number transported or delivered to a clinical unit, even if the clinical unit is in the same building or on the same floor'. In the ART context, it should be understood to mean the number of sperm units that have been delivered to a clinic for insemination or to a laboratory for IVF; the number of oocytes delivered to a laboratory for IVF or the number of embryos delivered to a clinic for transfer to patients.

If gametes or embryos are returned to the Tissue Establishment (TE) without use and for subsequent redistribution, they should be counted only when subsequently redistributed.

Where tissues or cells pass from one TE to another TE before distribution for clinical use, they should not be included in this total until finally distributed for clinical application.



Common Approach - Reproductive contd.



SAR denominators

The quantity of gametes or embryos distributed by a TE could be extracted from the annual activity report that TEs submit to the CA in accordance with Article 10 of Directive 2004/23/EC. The following is a proposed common approach to counting units distributed:

- one unit of **sperm** is one individual straw, the contents of which will be applied at once or
- one individual **embryo** or
- one individual **oocyte**.

If you don't have the number of units distributed for oocytes/sperm, please provide the number of cycles only in the comments box, otherwise your data will distort the total.

This is the national distribution activity that provides a denominator for the frequency of reactions for this type of tissue or cells.

health

Common Approach – reproductive contd.



SAR denominators

4.4. Total number of recipients for this type tissues and cells (number of recipients affected)

In the annual report, this should be understood to mean the total number of patients who had at least one unit of tissues or cells applied during the year concerned in a given country, regardless of whether they had a reaction or not. In the context of ART, this means the number of patients who have been inseminated with sperm or have had an embryo transfer. This is the national activity that provides a denominator for the frequency of reactions for this type of tissue or cells.

It is acknowledged that not all Member States currently collect data on the total number of patients treated with each type of tissue or cells. If this information is not available, it should be noted in the comments space provided.

health

Common Approach



SAE denominators

5.1. Total number of tissues and cells processed

Article 3(g) of Directive 2004/23/EC defines processing as 'all operations involved in the preparation, manipulation, preservation and packaging of tissues or cells intended for human applications'. In the annual report, this term refers to tissues and cells processed in TEs but not necessarily distributed. These data will allow the calculation of SAE rates in relation to numbers of tissues or cells processed in the European Union.

The total number of tissues and cells processed should be reported for non-reproductive and reproductive tissues and cells.



Extract from most recent SARE report



As in previous years, many countries acknowledged that accurate activity data for certain types of tissues and cells were difficult to collect and some of them provided incomplete numbers for SAR denominators. A few countries could not provide data as the measurement units collected at national level are not harmonised among countries and do not always correspond to those requested during the EU exercise (e.g. assisted reproduction cycles vs. number of oocytes distributed, as requested in the current version of the reporting template).

For non-reproductive tissues and cells, 24 countries reported data on units distributed (AT, BE, BG, CZ, DE, DK, EE, EL, ES, FI, FR, HR, HU, IE, IT, LT, LV, MT, NL, NO, PT, SI, SE and UK) and 20 (AT, BG, CZ, DK, EE, ES, FI, FR, EL, HR, HU, IE, IT, LT, MT, NL, NO, PT, RO and SE) on recipients. For reproductive tissues and cells, 14 (AT, BE, DE, DK, EE, ES, HR, HU, IE, LV, MT, NL, SI and SE) and 10 countries (AT, BG, DK, ES, HR, IE, MT, NL, PT and SE) reported data on units distributed and number of recipients, respectively.



Extract from most recent SARE report

The overall number of *distributed* tissues and cells in 2015, as submitted by the reporting countries, amounted to 2,102,332 units (322,389 non-reproductive and 1,086,888 oocytes delivered for IVF, 455,248 sperm delivered for insemination or IVF and 235,781 embryos delivered for transfer. Additionally, 85 ovarian tissues and 1941 testicular tissue were distributed). This number had increased considerably compared to previous years – one of the reasons being that two countries reported reproductive numbers for the first time in the 2016 exercise.

The main types of non-reproductive tissues and cells distributed were skeletal tissues (192,037 units), followed by haematopoietic progenitor cells (HPC; 57,841 units) and ocular tissues (35,515 units).



From EDQM presentation to CAs – February 2017

Countries reporting



Total number of countries reporting = 30

		Non- reproductive	Reproductive
Denominators for SAR	Number of T&C distributed	24	14
	Number of recipients	20	10
	SAR	12	12
Denominator for SAE	Number of T&C processed	20	15
	SAE	18	18
	SAR in donors	8	15

CY, LI, LU and SK reported "0" tissues distributed and "0" recipients.
LI and LU also reported "0" tissues processed.



✚ **The EBMT Registry - Eoin McGrath (European Society for Blood and Marrow Transplantation; EBMT)**



The EBMT Registry

**Mr. Eoin McGrath
on behalf of the EBMT**

**EU COMMISSION/EDQM TECHNICAL MEETING
NATIONAL AND EU-LEVEL TISSUE AND CELL ACTIVITY DATA
COLLECTION AND REPORTING**

**22 -23 MARCH 2018
STRASBOURG**



Interests

- EBMT Employee
- EBMT funded through membership fees and corporate sponsorship





EBMT - non-profit organisation

Top ten countries in terms of number of centres participating in the EBMT



Our 558 centre members are located in 57 different countries



Structure based on Working Parties



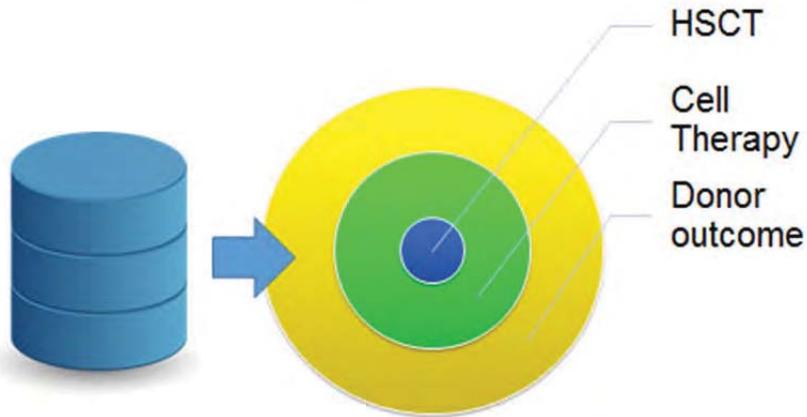
The EBMT Registry

- Started early 1970's
- The single biggest data source of its kind in Europe.
- Data from >500 centres / >50 countries.
- Currently contains data on more than > 530.000 HSCT.
- Accrues >30,000 new HSCT registrations last year.

- Algeria
- Australia
- Austria
- Bahrain
- Belgium
- Bulgaria
- Canada
- Colombia
- Croatia
- Czech Republic
- Denmark
- Denmark
- France
- France
- Germany
- Greece
- Hungary
- Iran
- Ireland
- Israel
- Italy
- Jordan
- Latvia
- Latvia
- Lithuania
- Malaysia
- Netherlands, The
- New Zealand
- Nigeria
- Norway
- Poland
- Portugal
- Romania
- Russia
- Saudi Arabia
- Serbia and Montenegro
- Slovakia
- Spain
- South Africa
- Spain
- Sweden
- Switzerland
- Turkey
- Turkey
- United Kingdom



Registry content



What are the interests of registry users?

Quality Control of Clinical Care	Science & Education	Market Surveillance
<ul style="list-style-type: none"> • Contributing centres • Donor registries • National registries • Accreditation • Benchmarking 	<ul style="list-style-type: none"> • EBMT (Working parties, Clinical Trials) • International and national study groups 	<ul style="list-style-type: none"> • Health authorities • Corporate sponsors



Governance

- The purpose of the Registry is to provide a pool of data to EBMT members to perform studies, assess epidemiological trends, and ultimately improve patients' lives.
- Registry is governed by the Head of Registry and the EBMT Executive Committee (accountable to EBMT Board and General Assembly)
- There is also a Registry Committee dedicated to Registry matters.



Governance

- Each EBMT centre is represented in this database and given a Centre Identification Code (CIC)
- Users from a centre can enter, view, modify, obtain reports and download their own data once the necessary permissions have been granted by the Principal Investigator of the centre.
- All EBMT member centres can obtain



Frequency of collection and period covered

- Day 0
- Day 100
- Annual follow-up until death

- Data can be entered in real-time

- Data collection is labour intensive and requires knowledge of transplantation



Frequency

- In **technical** terms, the frequency of data collection is entirely open to discussion.
 - Frequency can be increased or decreased as need.
- In **practical** terms, frequency must take into account the real capacity of centres to report – high frequency may be very challenging to centres unless they had very strong support.
 - Increased frequency of reporting should be clearly justified and resourced as necessary



Data sources

- Transplant centres
- National Registries
- Data provided for **FREE** to EBMT
 - Centre can continue to access data and use for own purposes
 - Strong collaborative spirit
 - Common need to achieve critical mass of data to be meaningful



Approximately 80% of
European transplant
centres report their data
to the registry



Geographical coverage

- Based on 2016 activity survey, 4% (20) of EU centres not reporting to the EBMT registry = approximately 1% (460) of the total transplants reported to that survey.
- Of these centres, the average total autologous transplants reported to the survey were 18 (min 0-max 43) compared to 34 (min 0-max 178) in centres reporting to the Registry.



Quality control

- Database with internal quality controls
- Over 4000 triggers control the accuracy and internal consistency of what is entered in the database at the point of entry
- Data quality **reports** can be run by users at any point to check for missing or unusual data
- Regular follow-up requests issued by the Registry and Study Offices
- Periodic queries on missing / incorrect data and follow-up requests
- Missing data is queried in the context of studies from the Registry and Study Offices to the centres
- Statistical analyses allow to detect bias, data quality and unusual trends
- Statistical guidelines



Privacy, confidentiality, data protection

- Secure central server based in The Netherlands (Leiden Univ.)
- Subjects consent to their data being sent to the EBMT
- Data are pseudo-anonymised (full anonymity would preclude Registry)
- Centres can control the data at all times, restricting access should they wish
 - By subject
 - By specific characteristics
 - For a specific length of time
- Specific items can be hidden for specific users



Consent

- Patients own their data
- With regard to the CONTROL of the data, EBMT has full freedom to operate with regard to the data in the registry, only restricted by applicable legislative and ethical rules.
 - Based on legal advice
- Regarding access policies, EBMT refers to its 'Registry Function' policy, v. 5.1, especially chapter 4.2.
 - www.ebmt.org/Contents/Data-Management/Documents/EBMTRegistryFunction.pdf



Consent

- It is the responsibility of the individual centres or donor registries submitting data to the EBMT to make certain that the respective national laws are followed before submitting the data.
- It is the responsibility of the EBMT to ensure that centres and donor registries are aware of this.
- The EBMT requests that all centres outside the EU sign an EU Regulations Statement declaring they will follow EU regulations regarding data safety.
 - If a centre fails to provide the EBMT with this declaration, the data can be kept, but that centre cannot be allowed access to the Registry through ProMISe, not even for its own data.
- It is the EBMT's legal responsibility to ensure that no access is given to centres which have failed to provide this declaration.
- EBMT is actively adapting to the GDPR requirements



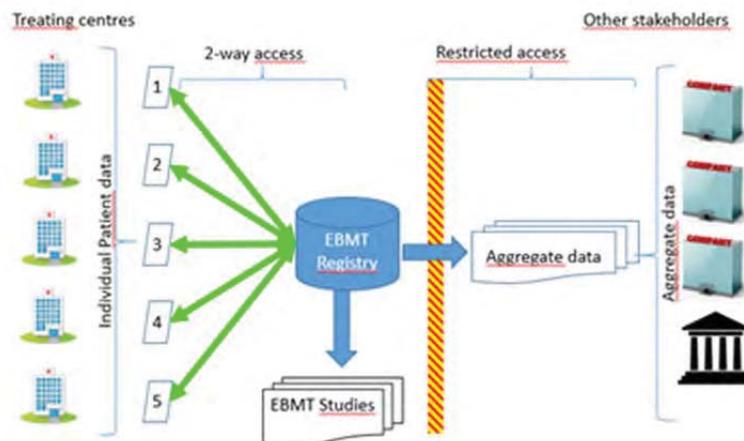
Consent

- EBMT members commit to reporting their data to the EBMT as part of their membership obligations.
- EBMT monitors centres' reporting annually.
 - If a member is found to have not reported for more than two years, they are demoted from full to associate members with the consequent loss of voting rights in the society and blocked from participation in studies.
- If a centre is reporting data as part of a funded study, they will not receive payment(s) per patient reported.
 - Note – sponsors do not report data, centres do.



Consent

- All centres inside and outside the EU must obtain informed consent from their patients and/or donors before the data can be submitted to the EBMT.
- This informed consent must explicitly state that the data is to be kept in an “international” database and can be exported to a non-EU/EEA country.
 - This is to avoid misunderstandings pertaining to the data being kept in a national database or even in an EU database.
- It is the legal responsibility of the member institution to ensure this is the case for all data submitted to the EBMT.





Data sharing

- EBMT members including corporates can obtain aggregate anonymised data where neither the patient nor the centre are identifiable as part of their contract.
- Corporates cannot obtain outcome data.
- To safeguard centre anonymity, all countries with less than ten member centres appear under the label of “Other”.
- Regulators can be given access on request by the centre(s) providing the data
- National registries could supply regulators with data extracted from the Registry

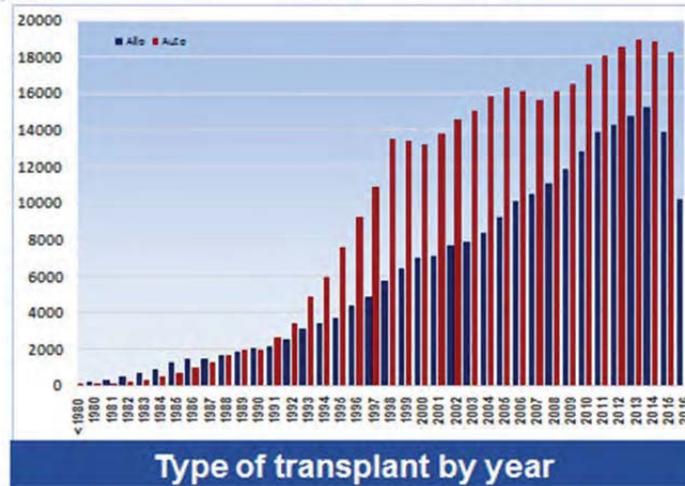


Requesting new elements/fields

- Technically speaking, there is no limit on the number of elements that can be included.
- Constraints are the complexity of the element itself and its impact on the rest of the form(s) which can affect the time required in order to implement additional elements.
- Consideration should also be given to the capacity of centres to provide the additional data.



Number of HSCT: Allografts and autografts by year



Diseases

Disease	Patients	Transplants
Acute leukaemias: AML	79,683	87,517
Acute leukaemias: ALL	45,504	49,071
Acute leukaemias: other/unknown	2,859	3,177
Chronic leukaemias: CML	21,488	23,138
Chronic leukaemias: CLL	6,655	7,324
Chronic leukaemias: other/unknown	903	999
Lymphomas: NHL	97,347	108,174
Lymphomas: Hodgkins	33,003	38,226
Lymphomas: other/unknown	1,673	1,786
Multiple myeloma/Plasma cell disorders	113,345	163,070
Solid tumours	41,504	56,221
Myelodysplastic/Myeloproliferative	29,626	33,194
Bone marrow failure	12,238	13,500
Primary immune deficiency	5,338	6,031
Inborn errors: other / unspecified	2,298	2,593
Histiocytic	1,354	1,485
Autoimmune diseases	2,261	2,316
Haemoglobinopathies	5,990	6,303
Other/unknown	240	276
Total:	503,309	594,401

Disease synonyms and sub classifications

Diagnosis	Main Class Code	Main Classification	Sub-Class Code	Sub-Classification	Other code	Other classification	EBMT synthesis and/or treatment / organ/tissue	EBMT synthesis and/or organ/tissue / component
Absence of T & B cells SCID	8	Inherited Disorders	1	Primary immune deficiencies				
Absence of T, normal B cells SCID	8	Inherited Disorders	1	Primary immune deficiencies				
Acquired cytopenic syndrome	7	Bone Marrow failure including Aplastic Anaemia	77	Other				1, Acquired
Acquired immune deficiency syndrome (AIDS) (HIV infection)	10	Autoimmune Disorders	77	Other				
Acquired Pure Red Cell Aplasia (PRCA)	7	Bone Marrow failure including Aplastic Anaemia	7	Pure red cell aplasia (non congenital PRCA)				1, Acquired
Acute Leukemia	1	Acute Leukemia	1	Acute Leukemia, mixed phenotype NOS				
Acute Leukemia, mixed phenotype NOS	1	Acute Leukemia	1	Acute Leukemia, mixed phenotype NOS				
Acute Leukemia, mixed phenotype B-lymphoid	1	Acute Leukemia	1	Acute Leukemia, mixed phenotype B-lymphoid				
Acute Leukemia, mixed phenotype T-lymphoid	1	Acute Leukemia	1	Acute Leukemia, mixed phenotype T-lymphoid				
Acute Leukemia, secondary to previous MDS diagnosis	6	Morphologic / Myelodysplastic Neoplasm	6	Morphologic and Myelodysplastic Neoplasm				
Acute Leukemia, secondary to	6	Morphologic / Myelodysplastic Neoplasm	6	Morphologic and Myelodysplastic Neoplasm				

21 pages

Chemotherapy, Drugs, Agents

CHEMOTHERAPY, DRUGS, AGENTS-
 This document contains three lists:
 1) Individual drugs/agents
 2) Known protocols
 3) Old protocol descriptions

Each table has the name of the drug, the code by which it is represented in the database, and the name by which this drug appears in the database if the drug can be known by more than one name.

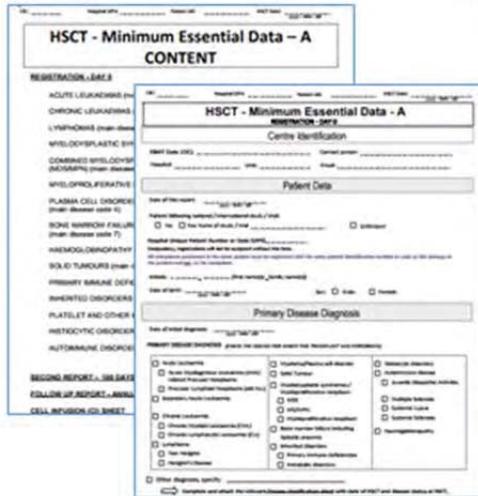
1. Individual drugs/agents

Drug Name (synonym)	Code	Name in database
2-CdA	63	2-CdA
4-demethoxydaunorubicin	18	Idarubicine
5-Fluorouracil	20	Fluorouracil
5FU	20	Fluorouracil
6-mercaptopurine	22	Mercaptopur6
6-MP	22	Mercaptopur6
Acridinyl anisidide	2	Amsacrine
Actinomycin D	65	Dactinomycin
Acyclovir	311	Acyclovir

19 pages



Data Collection



HSCT - Minimum Essential Data - A CONTENT

REGISTRATION LABEL

HSCT - Minimum Essential Data - A

Centre Identification

Patient Data

Primary Disease Diagnosis

REGISTRY DISEASE DIAGNOSIS



Mod-A Day 0 by Diagnosis and by Graft type

Autograft	Allograft
ACUTE LEUKAEMIAS	
Acute myeloid leukaemia (AML)	
Proceller lymphoid neoplasms (PLN)	
Other acute leukaemias	
AUTODHUNE DISEASES	
BONE MARROW FAILURE AND APLASTIC ANAEMIA & HAEMOGLOBINOPATHY	
CHRONIC LEUKAEMIAS	
Chronic myeloid leukaemia (CML)	
Chronic lymphocytic leukaemia (CLL)	
Polycythaemic leukaemia (PL) / Other Leukaemias	
INHERITED DISORDERS	
LYMPHOMAS	
Hodgkin's	
Small Non-Hodgkin's Lymphoma (SNL)	
T-cell Non-Hodgkin's Lymphoma (TNL)	
HYELOIDYPLASTIC SYNDROMES & MYELOPROLIFERATIVE NEOPLASIS	
Myelodysplastic syndromes (MDS)	
Chromosomal myelodysplasia / myeloproliferation (CM/MP)	
Myeloproliferative neoplasms (MPN)	
PLASMA CELL DISORDERS (PCD) AND MULTIPLE MYELOMA	
SOLID TUMOURS	

Mod-A Day 100 and Follow up by Graft type

Autograft	Allograft
Back to Top	
ANNUAL FOLLOW UP	



Minimum Essential Data Day 0

- 10 pages of common information
- Dedicated forms for diseases



HSCT - Minimum Essential Data - A

REGISTRATION LABEL

Centre Identification

Patient Data

Primary Disease Diagnosis

REGISTRY DISEASE DIAGNOSIS



Minimum Essential Data Day 0



Minimum Essential Data Day 100

- 5 pages of common information

HSCT - Minimum Essential Data - A
SECOND REPORT - 100 DAYS AFTER HSCT

Disease

Centre identification

Patient Data

Recovery



Minimum Essential Data Annual Follow-up

Disease	Centre identification	Patient data	Date last contact
Best response after transplant	Complications	Secondary malignancy	Additional Disease Treatment including Cell Therapy
Relapse/Progression	Last disease status	Pregnancy after transplant	Survival status



Minimum Essential Data - Annual Follow-up – Cell Infusion Sheet

- 1 page of common information
– Revised Jan 2018

HSCT - Minimum Essential Data - A FOLLOW UP REPORT - ANNUAL

Disease

Centre identification

Patient Data

Date of Last Contact

Best response after HSCT (ALL & Stemless only)

MED-B forms –Allo / Auto

- More detailed reporting
- Research-grade
- Submitted spontaneously by minority of centres - used for studies

The form is titled "FOR ALL DISEASES MED-B ALLOGRAFT REGISTRATION - DAY 0 PATIENT". It includes sections for:

- Demographics:** Name, sex, date of birth, date of registration, etc.
- Diagnosis:** Disease type (e.g., ALL, CLL, MDS) and status (e.g., relapsed, primary).
- Transplant History:** Previous transplants (autologous, allogeneic) and reasons for failure.
- Performance Score:** A table with categories like "Normal activity, minor signs and symptoms of disease" and "Requires occasional assistance".

Cellular Therapy & Immunobiology Working Party and Cell Therapy Registry

- The Cell Therapy Registry (CTR) aims to collect data on stem cells, progenitors or mature cells, such as T-lymphocytes, unmanipulated, such as DLI, or sorted and/or cultured and/or genetically manipulated, such as CAR-T cells, used for treatment in combination with hematopoietic stem cell transplantation or alone, and including advanced therapeutic medicinal products (ATMP), as well as data on the clinical characteristics and outcome of the patients.
- The new form also collects details of laboratory manipulation for all types of cells before they are infused into the patient. They include: selection, modification, genetic engineering and others.



Cell Therapy data collection form

Cell Therapy - MED - A
Registration to month 6
CENTRE IDENTIFICATION

PATIENT DATA

INDICATION FOR CELL THERAPY TREATMENT

39 pages



Cell Therapy Minimum Essential Data – to month 6

Centre identification	Patient data	Indication for Cell Therapy	Therapy
Donor	Cell Therapy Infusion Unit Description & collection Manipulation	Therapy and infusion(s)	Response
Last contact date	Toxicity in first 6 m	Secondary malignancy	Graft assessment
First replate/progression	Last disease status	Survival status	Persistence of cells

Donor outcome

Donor outcome	
Report on donation procedure and up to 30 days after	
TRANSPLANT CENTRE AND RECIPIENT IDENTIFICATION EBMT CIC (if known) _____ EBMT database number _____ Center of HSCT: _____ Hospital/Unit: _____ Unique Patient Number or Code _____ Initials: (first name(s), surname(s)) _____ Date of birth: _____ Date of HSCT: _____	DONATION PROCEDURE First day of this collection: _____ COLLECTION DATA EBMT Code (CIC): _____ if heavy Collection center: _____ Donor registry: _____ Contact person: _____ Date of this report: _____ Start date of donation procedure: _____ Chronological Number of this donation procedure (if >1: Same recipient) <input type="checkbox"/> no <input type="checkbox"/> yes Date of previous donation: _____ Was the product collection completed? <input type="checkbox"/> no <input type="checkbox"/> yes Were haematopoietic growth factors used? <input type="checkbox"/> no <input type="checkbox"/> yes (ICBP) if yes, specify _____ Were cell binding inhibitors used, eg. Pertuzumab? if yes, specify _____ Was erythropoietin used? _____ Were other drugs used for mobilization? _____
PRODUCT <input type="checkbox"/> BM (including collection of MSC) <input type="checkbox"/> PBSC <input type="checkbox"/> Both (BM and PBSC) <input type="checkbox"/> Unstimulated leukapheresis (e.g. donor lymphocytes (DL), etc.) <input type="checkbox"/> other, specify _____	COMPLICATIONS Report every serious adverse event occurring within the interval between start of the donation procedure and day 30 after the end of _____
DONOR DATA Donor number(s): _____ Donor signed informed consent for data transmission to the EBMT Registry <input type="checkbox"/> Compulsory: registrations will not be accepted without this consent	TRANSPLANT CENTRE AND RECIPIENT IDENTIFICATION EBMT CIC (if known) _____ EBMT database number _____ Center of HSCT: _____ Hospital/Unit: _____ Unique Patient Number or Code _____ Initials: (first name(s), surname(s)) _____ Date of birth: _____ Date of HSCT: _____
COLLECTION CENTRE IDENTIFICATION EBMT Code (CIC): _____ Collection center: _____ Registry: _____ Contact person: _____ <input type="checkbox"/> BM (including collection of MSC)	FOLLOW UP OR DEATH REPORT Date of last follow up or death: _____ FU Report: _____ month _____ year Date of this report: _____
	SAE/SAR SINCE LAST REPORT HAEMATOLOGICAL Hematological malignancy? <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> unknown if yes: ICD 10 Code _____ (see manual, list in Appendix 5) Confirmed by medical data <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> unknown Date of the SAE/SAR: _____ NON-HAEMATOLOGICAL Non-hematological malignancy? <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> unknown if yes: ICD 10 Code _____ (see manual, list in Appendix 5) Confirmed by medical data <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> unknown Date of the SAE/SAR: _____ NON-HAEMATOLOGICAL Autoimmune disease? <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> unknown if yes: ICD 10 Code _____ (see manual, list in Appendix 5) Confirmed by medical data <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> unknown Date of the SAE/SAR: _____ REMARKS please report SAE/SAR to your national authority according to your regulations, if donor is unrelated, report also to relevant SRAH registry

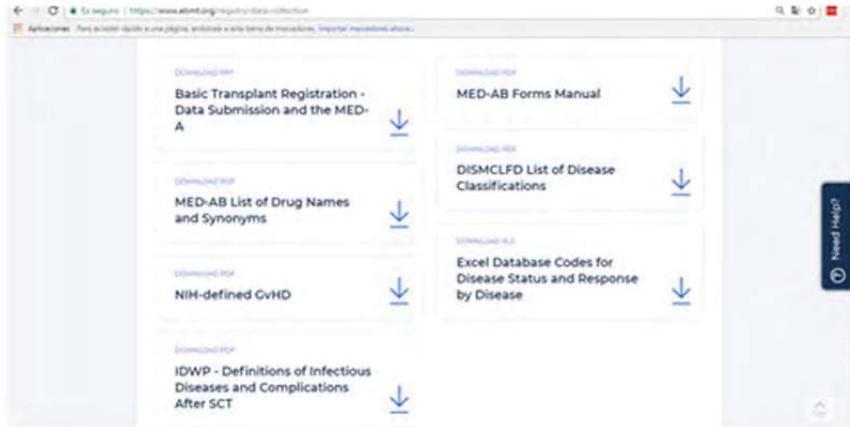
Donor outcome form content

Examples:

- SAE at donation
- Length of follow up
- Status on date last seen
- SAE during follow up
 - haematological malignancy
 - non-haematological malignancy
 - autoimmune disease
- Intention to donate again



Glossary of definitions



Data quality is maintained by

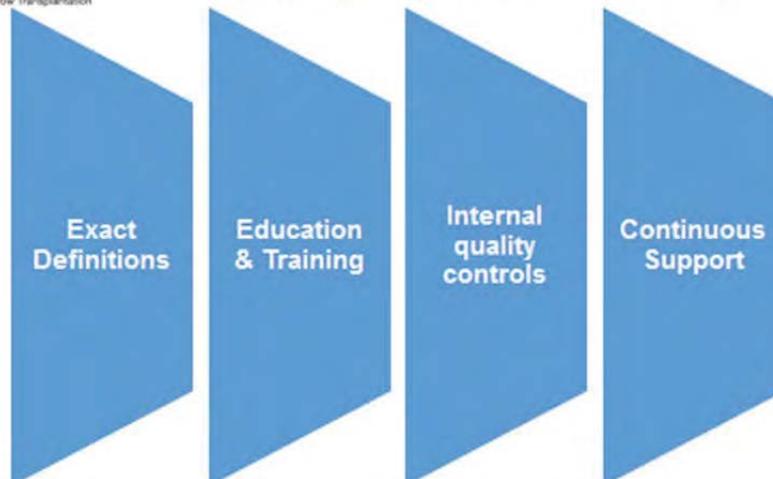


Table 1 Examples of system triggers

Date entry user action	Message	Action
On attempting to enter a diagnosis that already exists in the patient.	A similar diagnosis has already been registered for this patient with another date.	Block date only
On changing the type of transplant from allogeneic to autologous in the presence of donor information.	There is a donor record in the Donor table. Please, remove it if the transplant is autologous.	Block date only
On attempting to say that the patient is in complete remission or relapse from complete remission when a previous entry indicates that the patient had never achieved complete remission.	Complete remission achieved in the past has been answered as No, therefore patient cannot be either in CR or in relapse.	Block date only
On attempting to say that the patient is in complete remission at transplant when the responses to previous treatments have not been answered or are not CR.	You have not indicated a CR as a previous status after treatment.	Warning only, as it is possible that a last assessment with its response has not been entered.
On attempting to enter an episode of cDND before 100 days have elapsed since the allograft.	This date is within 100 days from last allograft.	Warning only, since it is possible to have cDND within a 100 days even if it would be very rare.
On attempting to enter a syngeneic donor with a different sex to the patient.	Identical twin and yet patient and donor sexes different.	Block date only
On attempting to enter a date of chimerism testing that precedes the transplant.	Chimerism test cannot be before the HSCT.	Block date only 43

Patient consent & EU regulations

EBMT MEMBERSHIP APPLICATION FORM Full Membership

COMMITMENT:

I confirm that I will comply with the Data Directive 95/46/EC in all aspects relating to the transfer of data to the EBMT. In particular, I confirm that all patients whose registrations are being forwarded to the EBMT have given consent for the data to be sent to the EBMT by signing a Patient Consent Form for Data Registration.

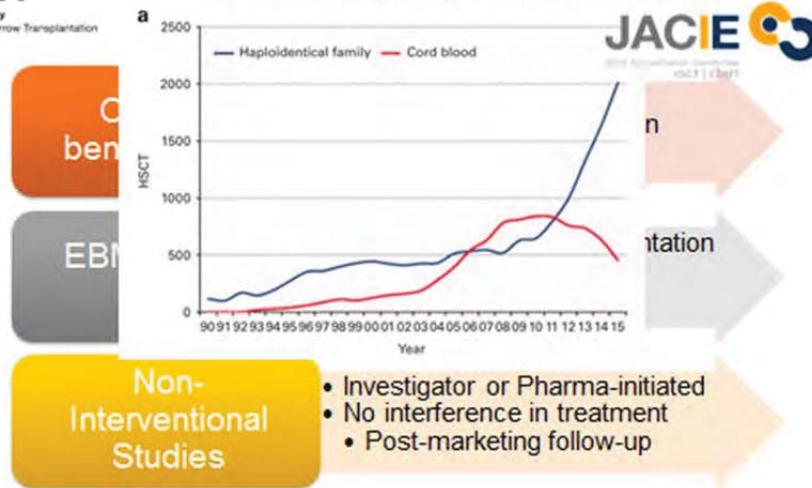
In case the patient does not consent for his/her data to be transmitted to the EBMT, please provide –for auditing and accreditation purposes–:

- Diagnosis
- Date of HSCT
- Type of HSCT
- Chronological number of HSCT

Consent to transfer data outside the European Economic Area must be explicitly obtained if the centre requests the EBMT to transfer data to institutions not located in this area.



Other Registry-related aspects



Donor outcome form content

Examples:

- SAE at donation
- Length of follow up
- Status on date last seen
- SAE during follow up
 - haematological malignancy
 - non-haematological malignancy
 - autoimmune disease
- Intention to donate again



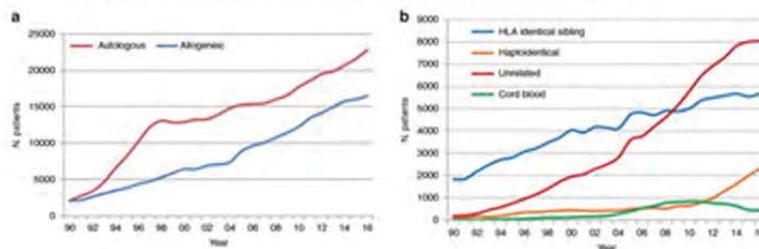
Activity survey

Bone Marrow Transplantation
<https://doi.org/10.1038/nbt1409-018-0153-3>

ARTICLE

Is the use of unrelated donor transplantation leveling off in Europe? The 2016 European Society for Blood and Marrow Transplant activity survey report

Jakob R Passweg¹ · Helen Baldomero¹ · Peter Bader² · Grzegorz W. Basak³ · Chiara Bonini⁴ · Rafael Duarte⁵ · Carlo Dufour⁶ · Nicolaus Kröger⁷ · Jürgen Kuball⁸ · Arjan Lankester⁹ · Silvia Montoto¹⁰ · Arnon Nagler¹¹ · John A. Snowden¹² · Jan Styczynski¹³ · Mohamad Mohty¹⁴ for the European Society for Blood and Marrow



Bone Marrow Transplantation (2017) 88, 191–196
© 2017 Macmillan Publishers Limited, part of Springer Nature. All rights reserved. 0950-2688/17
www.nature.com/bmt



SPECIAL REPORT

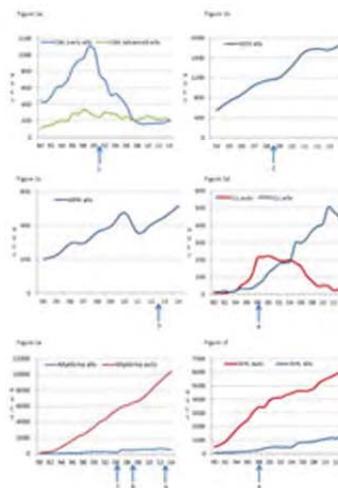
Impact of drug development on the use of stem cell transplantation: a report by the European Society for Blood and Marrow Transplantation (EBMT)

JR Passweg¹, H Baldomero¹, P Bader², C Bonini³, S Coenen⁴, P Duarte⁵, M Dufour⁶, J Kuball⁷, D Lankester⁸, N Kröger⁹, J Lankester¹⁰, A Nagler¹¹, A Sureda¹² and M Mohty¹³ for the European Society for Blood and Marrow Transplantation (EBMT)

Data base offers a neutral ecosystem for monitoring the impact of novel drugs on treatment choices

Drugs:

- 1 imatinib, 2 azacitidine, 3 ruxolitinib,
- 4 rituximab, 5 ibrutinib, 6 idelalisib,
- 7 bortezomib, 8 lenalidomide,
- 9 pomalidomide





PROJECT 2020: CONTINUOUS STRUCTURAL IMPROVEMENT of the Registry

1. DATA QUALITY
2. EFFICIENCY
3. BENCHMARKING SURVIVAL OUTCOMES
4. ENHANCE COLLABORATION
5. LAWS AND REGULATION
6. DATA ENRICHMENT

€1.5 million Budget approx.
(¡CHALLENGING!)



MACRO

Advanced data collection for clinical research



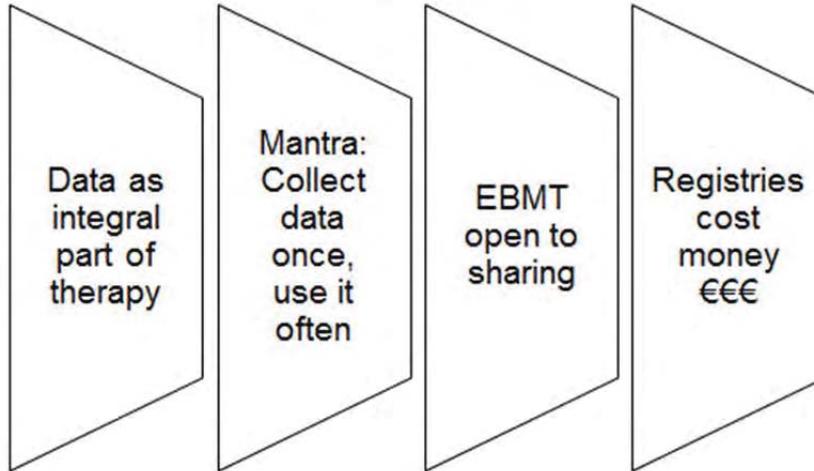
More information
www.ebmt.org



eoin.mcgrath@ebmt.org



Closing remarks



- European IVF-Monitoring (EIM) of the European Society of Human Reproduction and Embryology - Christian De Geyter (European Society of Human Reproduction and Embryology; ESHRE)



European IVF-Monitoring (EIM) of the European Society of Human Reproduction and Embryology (ESHRE)

Ch. De Geyter

Current chair of the EIM-Steering Committee



- ESHRE is a multidisciplinary society dealing with reproductive medicine and embryology.
- It was initiated in 1985 by Robert Edwards (UK) and Jean Cohen (F).
- Since 1985 ESHRE organizes annually an international scientific meeting, but also dedicated seminars and workshops.
- Topics: reproductive endocrinology, medical ethics, andrology, psychology, endometriosis, early pregnancy, reproductive surgery, quality management in assisted reproductive medicine, reproductive genetics and stem cells.



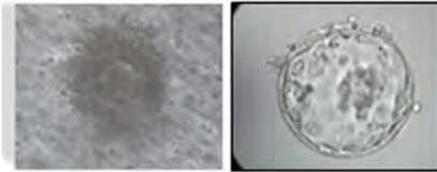


- The European IVF Monitoring Programme was established in 1999 to collect, process and publish European data on clinical results and side-effects of assisted reproductive technology (ART), follow-up of children's well-being but also the availability and structure of services in the various European countries.
- The EIM is a „bottom up“-type of data collection assembling the representatives of the national registries of almost all European countries.
- The data collection is not exhaustive, as the standards of data reporting are very different in the different participating countries: in some countries data reporting on assisted reproduction is mandatory, in others voluntary.
- Notwithstanding these hurdles, the number of participating countries has risen from 18 in 1997 to 38 in 2013 (out of 51 European countries).



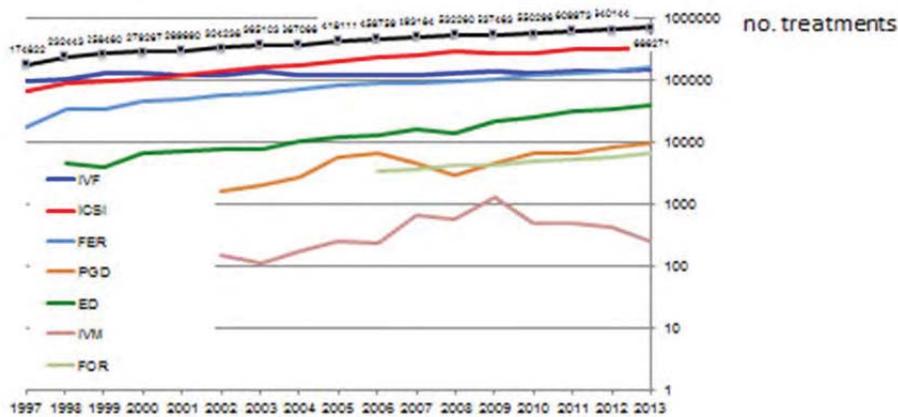
EIM ESHRE 2013

Which are the treatments in ART being recorded?



- ◆ In vitro fertilisation (IVF)
- ◆ Intracytoplasmic sperm injection (ICSI)
- ◆ Frozen/Thawed embryo transfer (FER)
- ◆ Frozen/Thawed oocyte treatment (FOR)
- ◆ Oocyte donation (ED)
- ◆ In vitro maturation (IVM)
- ◆ Preimplantation genetic testing (PGT)
- ◇ Gonadal tissue freezing, postpubertal
- ◇ Gonadal tissue freezing, prepubertal

Surveillance



IVF: in vitro Fertilisation
ICSI: intracytoplasmic sperm injection
FER: frozen thawed embryo replacement
PGD: preimplantation genetic diagnosis

ED: oocyte donation
IVM: in vitro maturation
FOR: social freezing

Human Reproduction, Vol.29, No.10 pp. 2099-2113, 2014
Advanced Access publication on July 27, 2014 doi:10.1093/humrep/det375

since 1999: 17 reports

human reproduction

ESHRE PAGES

Assisted reproductive technology in Europe, 2010: results generated from European registers by ESHRE[†]

Human Reproduction, Vol.31, No.3 pp. 333-348, 2016
Advanced Access publication on January 5, 2016 doi:10.1093/humrep/dav319

human reproduction

ESHRE PAGES

Assisted reproductive technology in Europe, 2011: results generated from European registers by ESHRE[†]

Human Reproduction, Vol.31, No.8 pp. 1630-1652, 2016
Advanced Access publication on June 19, 2016 doi:10.1093/humrep/dew151

human reproduction

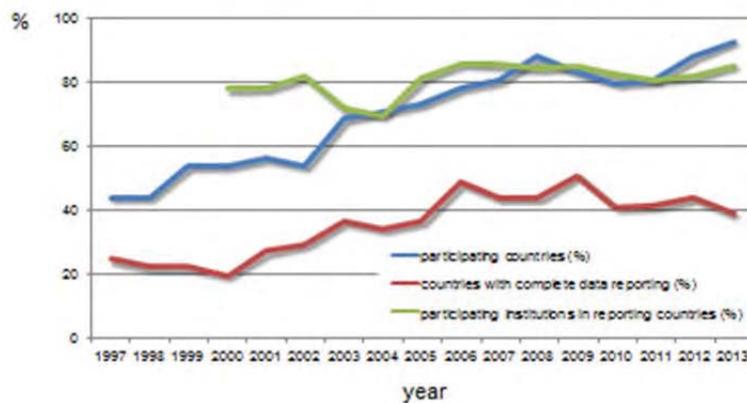
ESHRE PAGES

Assisted reproductive technology in Europe, 2012: results generated from European registers by ESHRE[†]

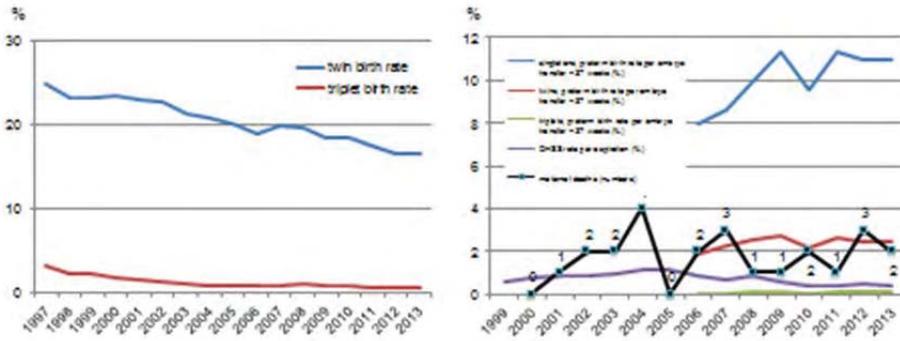
The European IVF-Monitoring Consortium (EIM)[†] for the European Society of Human Reproduction and Embryology (ESHRE)

C. Calhaz-Jorge^a, C. de Geyter, M.S. Kupka, J. de Mouzon, K. Erb, E. Mocanu, T. Motrenko, G. Scaravelli, C. Wyns, and V. Goossens

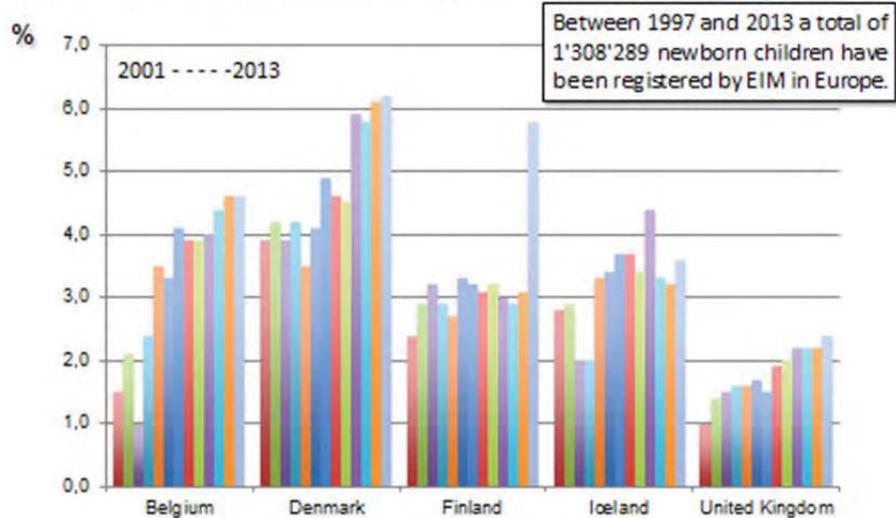
The rising degree of completeness of collected data sets



Vigilance



Number of newborns born after ART with respect to overall number of newborns born in five European countries



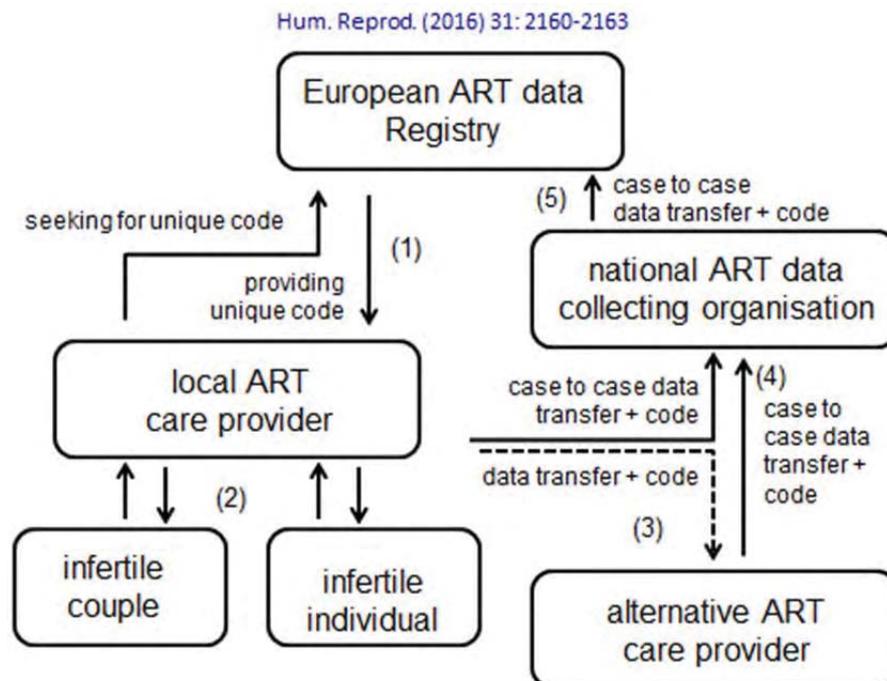
Data extracted from the EIM reports 2001 to 2013

Data collection systems in ART must follow the pace of change in clinical practice

Ch. De Geyter^{1,*}, C. Wyns², E. Mocanu³, J. de Mouzon⁴,
and C. Calhaz-Jorge⁵

¹Center of Gynecological Endocrinology and Reproductive Medicine, University Hospital, University of Basel, Basel, Switzerland; ²Oncofertiliteitscentrum Ziekte Ziek, UZG, Brussels, Belgium; ³ICP Unit, Patanjali Hospital, Oudenaarde, Belgium; ⁴INSERM, Paris, France; ⁵Departamento de Obstetrícia, Ginecologia e Medicina de Reprodução, Faculdade de Medicina da Universidade de Lisboa, Lisbon, Portugal

- The role of cryostorage of gametes, embryos and gonadal tissues is rising.
- The duration of storage of that material is increasing.
- Due to population mobility there is an rising trend for transport of this material.
- Cross-sectional data collection and analysis (once every year) does not reflect medical reality any more.
- We should start to collect data on collected, used and stored material prospectively, aiming at analyzing the data sets in a cumulative fashion.





ANNEX VII

THE STRUCTURE OF THE SINGLE EUROPEAN CODE SEC

DONATION IDENTIFICATION SEQUENCE			PRODUCT IDENTIFICATION SEQUENCE			
EU TISSUE ESTABLISHMENT CODE		UNIQUE DONATION NUMBER	PRODUCT CODE		SPLIT NUMBER	EXPIRY DATE (YYYYMMDD)
ISO country code	Tissue establishment number		Product Coding System identifier	Product number		
2 alphabetic characters	6 alpha-numeric characters	13 alpha-numeric characters	1 alphabetic character	7 alpha-numeric characters	3 alpha-numeric characters	8 numeric characters

The SEC Code may provide a mean to install a „top down“ data collection including a prospective data collection continued over time and with well defined outcome parameters.



Our vision

- The EU and ESHRE should collaborate to set the stage for a prospective cycle by cycle prospective data collection in reproductive medicine for Europe.
- This system should be developed towards true surveillance and vigilance in assisted reproductive medicine.
- We should also think about how to include paediatric medicine for the follow-up of the children.



✚ **Benchmarking and Audit by EBA - George Galea (European Blood Alliance; EBA)**



Benchmarking and Audit by EBA

A journey

Dr George Galea
Chair EBA Tissue and cells Working group *Strasbourg 2018*

Safe blood for Europe



Safe blood for Europe



Mission of EBA

“To contribute to the safety, security and cost effectiveness of the blood and tissue and cell supply for the citizens of Europe by developing and maintaining an efficient and strong collaboration amongst European blood and tissue and cell services”.



Audits started 10 years ago

Establish tissue and cell activity within EBA Blood services

Initial Top level Questionnaire

Annual questionnaire for the past 7 years

Safe blood for Europe



T&C benchmarking Activity

- In average 3.5% of FTEs in BEs in T&C field (range 1-10%)
- Activity varies across the field but is significant
 - 14 in haematopoietic stem cells (HSC)
 - 13 in umbilical cord blood (UCB)
 - 12 in bone and tendon banking
 - 10 in cardiovascular
 - 8 in skin
 - 6 in cornea
 - 4 in ATMPs



Questions asked:

FTE

Infectious disease markers and Tests used

Activity:

Number of donors (deceased/live)

Number of units received for processing and storage

Number of units imported from another TE in your country

Number of units imported from another TE from outside your country
EU/non EU

Safe blood for Europe



Number of tissues stored

Number of tissues issued or grafting from your bank in your own country

Number of tissues issued for export (outside your country)

Number of tissues discarded by the bank prior to issue

Number of tissues in stock at the end of the year

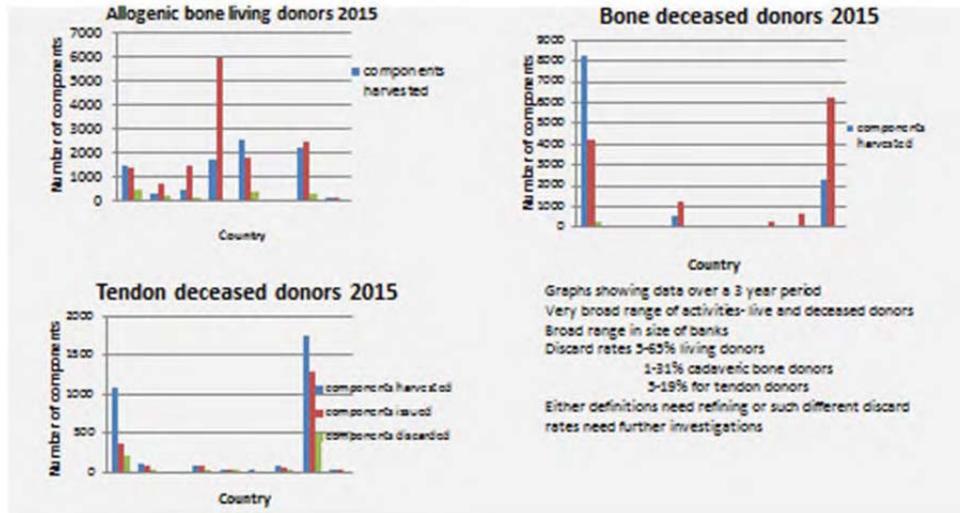
Safe blood for Europe

Analysis of data received

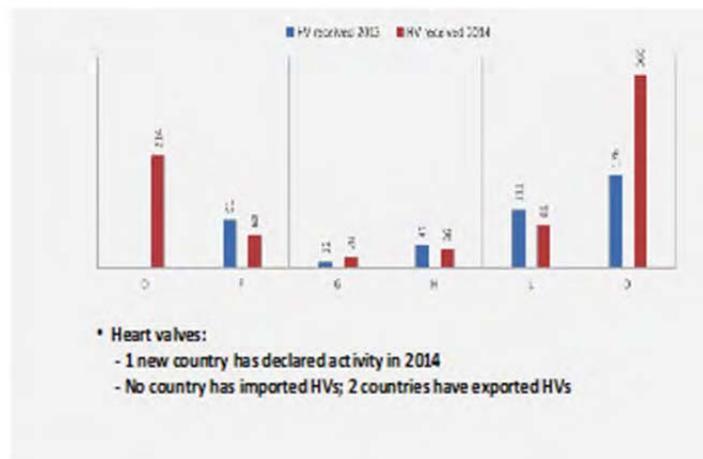
	Inf disease	ATMPs	Bones and tendons	CVS	HSC	UCB	Corneas	Skin	Others	FTEs
COUNTRY	NR	NR	NR	NR	x	NR	NR	NR	NR	x
	NR	NR	NR	NR	NR	x	NR	NR	NR	x
	x	NA	X (incomplete)	x	NA	NA	X (incomplete)	NA	x	X
	NR	NR	X(queries)	x	X(incomplete)	X(incomplete)	X(incomplete)	x	X(?incomplete)	x
	x	X(CPH)	x	NR	x	NR	NR	NR	x	x
	NR	NR	X	x	X(incomplete)	x	x	NR	NR	NR
	X	x	X	x	x	x	X(incomplete)	X(inc)	x	x
	X	NR	X(incomplete)	X(inc)	x	NA	X(incomplete)	x	NR	X(queries)
	X	NR	NA	NR	x	NA	NR	NR	NR	x
	NR	x	x	NR	x	x	NR	NR	NR	x
	x	NA(queries)	x	x	x	NA	NR(queries)	x	x	x
	X	NA(queries)	X(queries)	x	x	x	X(queries)	x	x	X(queries)
	NR	NR	x	x	x	x	x	x	x	x
	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR



Musculoskeletal activity

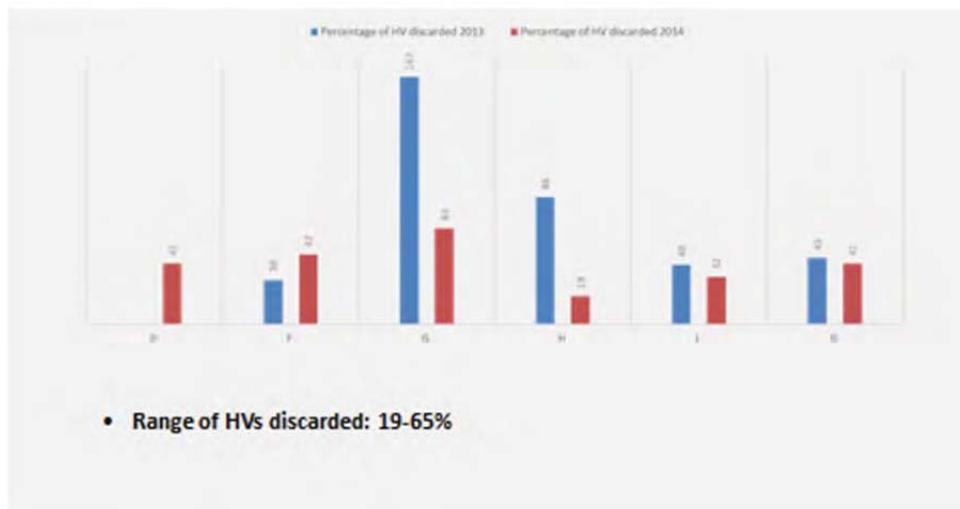
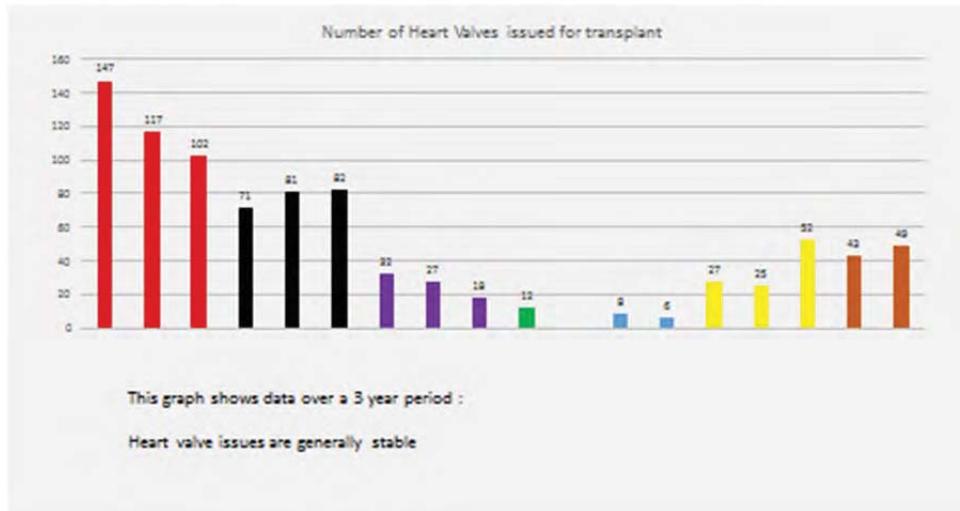


T&C benchmarking
Heart valves



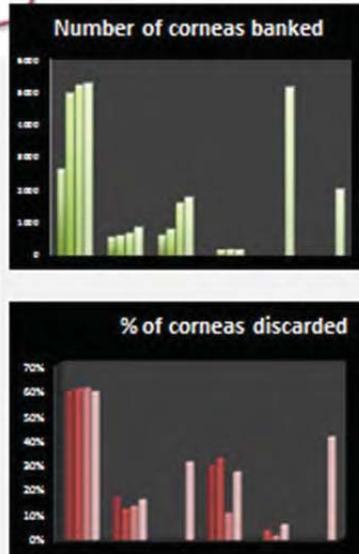


T&C benchmarking Heart valves





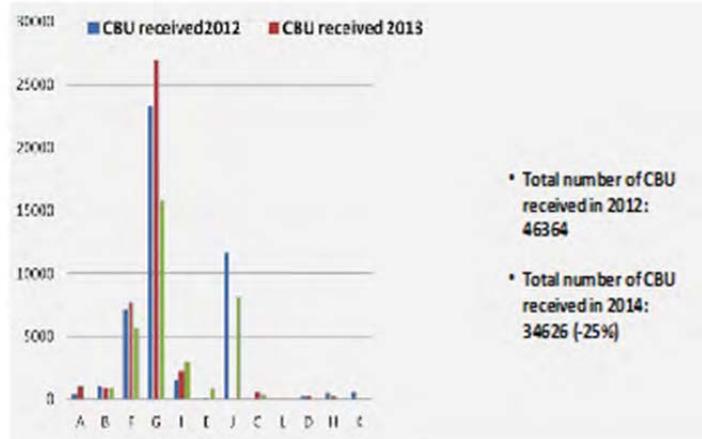
T and C Benchmarking
Corneas



These graphs show data over a 4 year period:
Broad range of sizes of banks
Significant differences in discard rates 11-65%

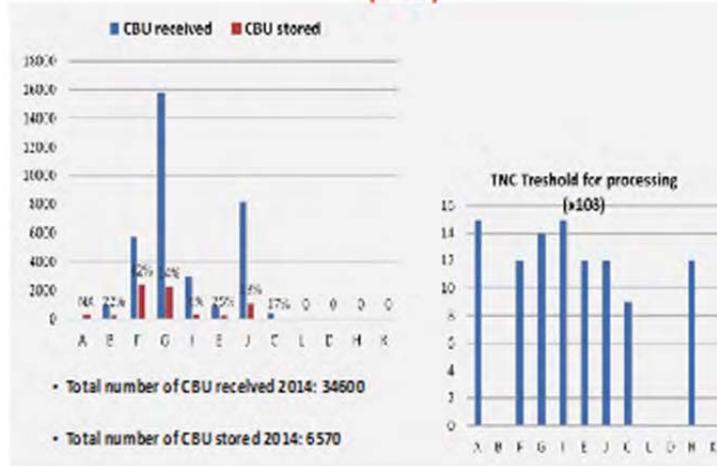


T&C benchmarking
Umbilical cord blood (UCB)





T&C benchmarking Umbilical cord blood (UCB)



Main Findings

Significant differences in sizes of banks

Significant differences in discard rates

Are we comparing apples to apples?

Some qualitative differences

Safe blood for Europe



In depth Analysis Heart Valves

- Decision to carry out a detailed benchmarking exercise on heart valve banking
- Heart valves:
 - Precious resource
 - May be life-saving
 - Unmet clinical demand



HV Workshop Questionnaire

- Collaboration between European Blood Alliance and the Foundation of European Tissue Banks.
- 2016: questionnaire sent out to 15 countries in Europe and 11 countries world-wide.

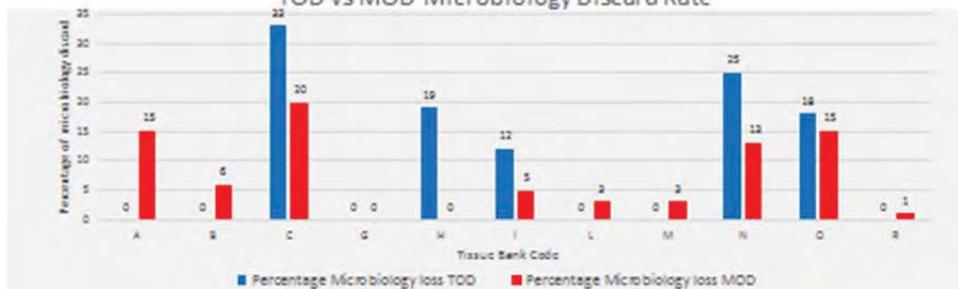


Donor Suitability Assessment

Tissue Bank Code	Donor Assessment pre donation	Post-donation Medical Notes	Post-donation Family Doctor	Post-donation PM	Overall Discard rate TOD+MOD+LD
A	Yes	Yes	Yes	Yes	38%
B	Yes	n/a	n/a	n/a	16%
C	Yes	Yes	Yes	Yes	33%
D	No	No	No	Yes	25%
E	Yes	Yes	Yes	Yes	34%
F	n/a	n/a	n/a	n/a	0
G	Yes	Yes	Yes	Yes	16%
H	Yes	Yes	No	n/a	48%
I	Yes	Yes	Yes	Yes	45%
J	Yes	Yes	No	Yes	50%
K	n/a	n/a	n/a	n/a	56%
L	Yes	No	No	No	56%
M	Yes	No	Yes	Yes	33%
N	Yes	Yes	Yes	Yes	52%
O	n/a	n/a	n/a	n/a	63%
P	n/a	n/a	n/a	n/a	78%
S	Yes	No	No	Yes	47%



TOD vs MOD Microbiology Discard Rate



- Of TBs retrieving both TOD & MOD – 10/12 report microbiology losses from MOD but only 5/12 report microbiology losses from TOD
- "A" has dedicated mortuary for tissue retrieval: no microbiology losses from TOD but 15% microbiology loss from MOD.
- Does the donor type (ITU) or the order of retrieval affect microbiology losses particularly for MOD?



Heart Valve Processing

Tissue Bank Code	Critical timings for Heart Processing	Percentage HV Microbiology loss TOD+MOD+LD
D	Immediate	0
G	Immediate	0
R	Immediate	1%
M	Immediate	3%
H	Immediate	11%
C	Immediate	25%
F	24 hours	0
L	24 hours	3%
B	24 hours	5%
I	24 hours	8%
A	24 hours	9%
O	24 hours	13%
J	24 hours	20%
E	32 hours	3%
P	36 hours	5%
K	46 hours	11%
N	48 hours	23%
S	72 hours	2%



- Is questionnaire too complex?
- Are we following the responses effectively enough?
- Is the questionnaire achieving its aim?



Conclusions

KISS

Not too many questionnaires sent to same people

Try and ensure uniformity from year to year

Provide feedback to respondents

Useful information but needs some rationalisation

Safe blood for Europe



Thank you

Safe blood for Europe

✚ **Registry of the WMDA - Lydia Foeken (World Marrow Donor Association; WMDA)**



**Technical Meeting on National and
EU-level Tissue and Cell
Activity Data Collection and Reporting**

World Marrow Donor Association

WMDA

Our Vision

Patients worldwide have equal access to high quality cells for transplants from donors whose rights and safety are protected.

Our Mission

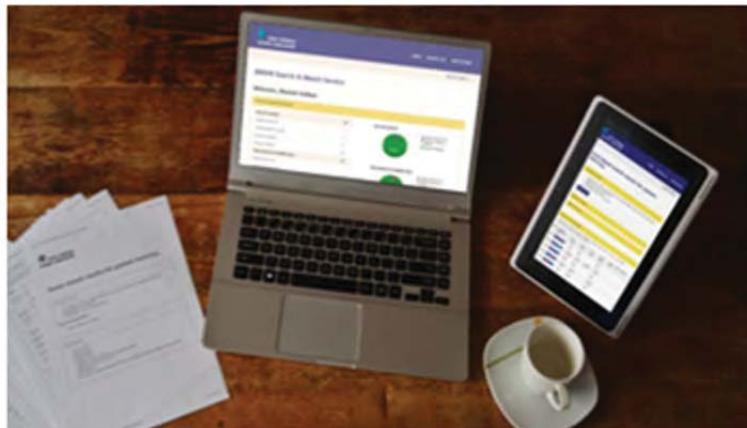
WMDA promotes global collaboration and the sharing of best practices between its members for the benefit of stem cell donors and patients.

www.wmda.info

A changing world



A changing world



Information is shared through social media



And would it be possible to share between Professional Societies and Competent Authorities?

Pillar 1: Optimising 'Search, Match & Connect'

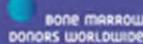


WMDA hosts the global database: Search & Match

- All donors and cord blood units are available for global search in a centralized database
- At the moment:
 - 52 countries
 - > 32 million donors worldwide

7





HOME PATIENT LIST ADD PATIENT

Jorine Koenderman

Patient list for Jorine Koenderman

Active patients (1) Inactive patients (19)

View: Just my patients All patients from BMDW office

Click on a column heading to sort

Urgent	Patient ID	Date of birth	Ethnicity	Patient last updated	Results	Last viewed
	JJK test001	2000-03-13	UK	2017-03-21 11:19:49	A, B, DR Donors: <input type="checkbox"/> Match run in progress... Cores: <input type="checkbox"/> Match run in progress.	2017-03-21 11:19:49
	JJK test003_2		UK	2017-01-06 11:58:37	A, B, DR Donors: 0 donors at 10/10 search (at HLA-A, B, C, DRB1, DQB1), using haplotype frequencies algorithm. Cores: 333 cords at 4/10 search (at HLA-A, B, C, DRB1, DQB1) allele matched, two mismatches on any locus, using haplotype frequencies algorithm.	2017-03-21 09:44:26
	test0001	1906-05-05	CAEU	2017-01-06 12:08:55	A, B, DR Donors: 623 donors at 10/10 search (at HLA-A, B, C, DRB1, DQB1), using haplotype frequencies algorithm. Cores: 4,317 cords at 4/10 search (at HLA-A, B, C, DRB1, DQB1) allele matched, two mismatches on any locus, using haplotype frequencies algorithm.	2017-02-09 12:24:35



Match results for test0001

Mismatches are shown in brackets, **(bold)** are antigen mismatches, **(u bold/italic)** are allele mismatches and **italics** indicate uncertainty

Probability of mismatches A, T, 2	A	B	C	DRB1	DQB1	DRB1	DRB3/4/5	Registry Reg. Addr	Age Sex	Blood Gr. CMV status	TNC, C, Y, CE04+, ...	Select
10/10 potential allele matches	02:XX 11:XX	15:AZECY 35:XX	03:XX 04:XX	04:01 04:07	03:02 03:01	04:01 04:01		7748 AU-REMER	2 Female	O +	283 8.2	★
Cord details	Cord ID: 391165432 Volume: 275ml	Status: 100%	Ethnicity: 100%	COBS: 100%	No. of affected segments							
0	02:01:010 70%, 20%, 2%	15:01:010 35:01:010	04:01:010 04:07:010	04:01 04:01		491 FVAU	3553 USAMEP	6 Male	O +	208 15		☆
0	02:XX 11:XX	15:XX 35:XX	03:XX 04:XX	04:01 04:07		8405 KBKONOS	7748 AU-REMER	8 Female	A +	548 4.5		☆
0	02:01:010 70%, 20%, 2%	15:01:010 35:01:010	04:01:010 04:07:010	04:01 04:01		3553 USAMEP	7 Male	A +	106 8.8		☆	
0	02:XX 11:XX	15:XX 35:XX	03:XX 04:XX	04:01 04:07		8405 KBKONOS				126.6		☆



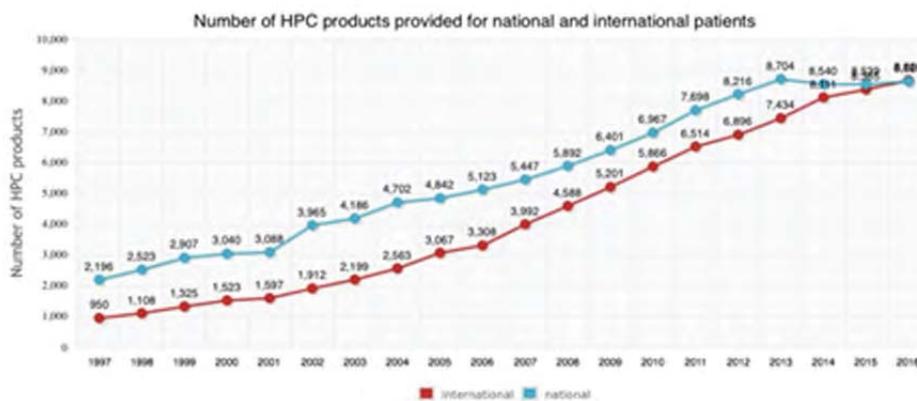
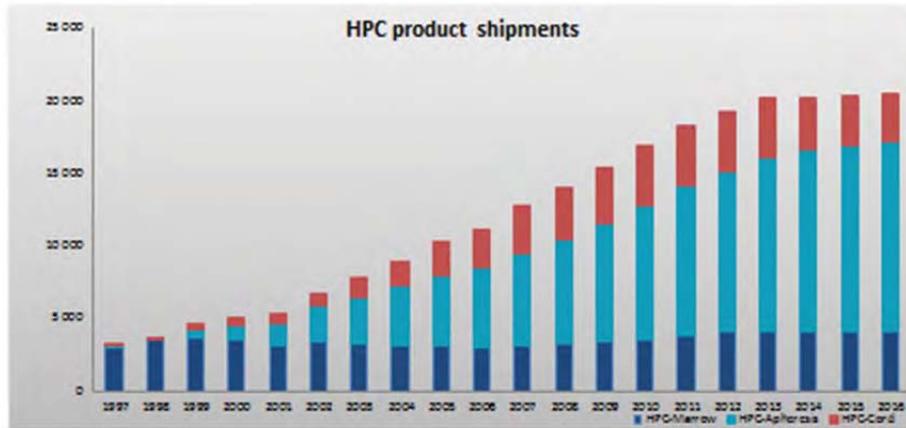
What might be valuable information for regulators?

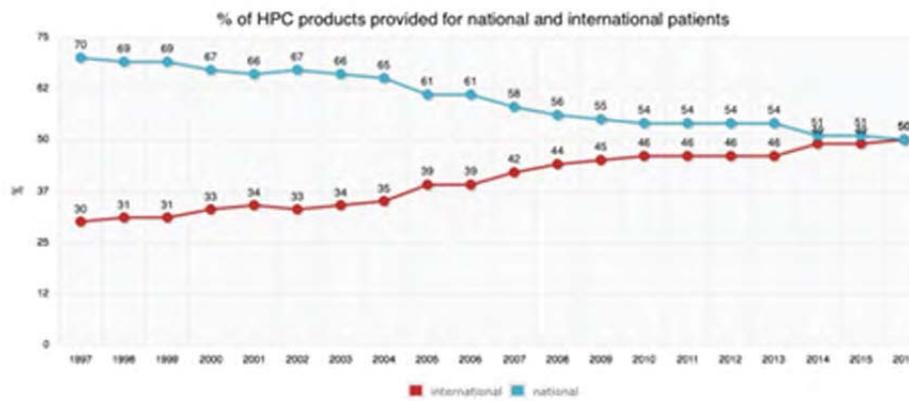
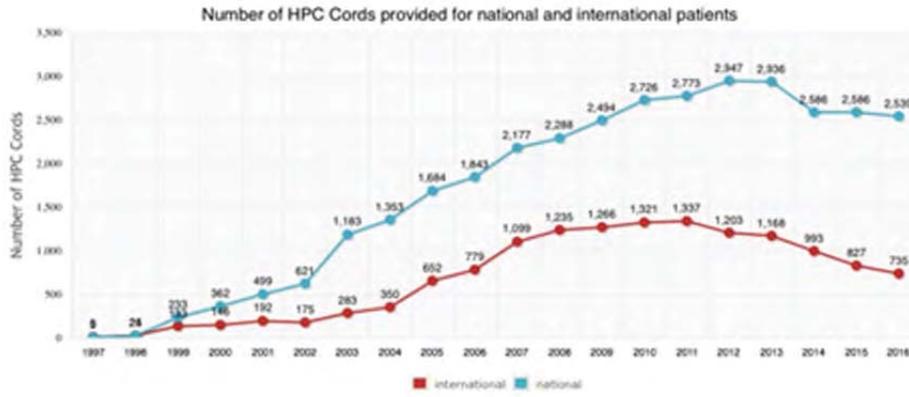
- Number of donors, specified per EU Member State
- Number of cord blood units, specified per EU Member State
- Growth of the donor file over the past year
- Growth of the cord blood file over the past year
- Quality of the HLA typing
- Number of patients registered for search

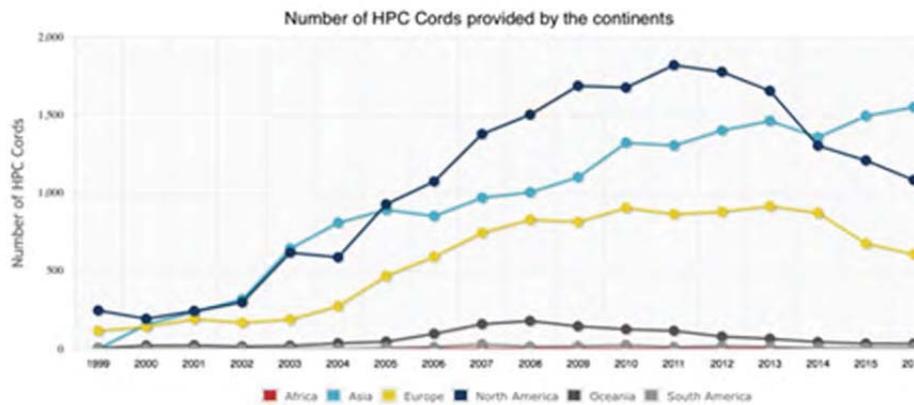
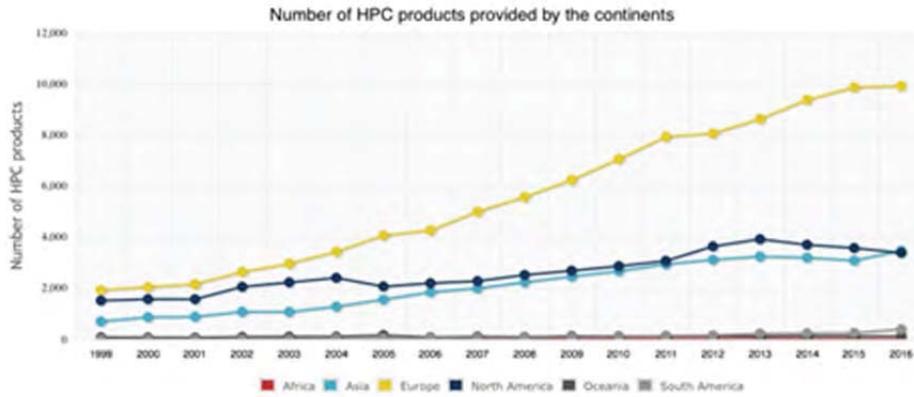
Pillar 2: Supporting Global Development



Number of unrelated transplants worldwide







How WMDA data are collected

Two way validation

Each country reports how much they have provided

Bone Marrow	Austria
Austria	10*
USA	10*
TOTAL NUMBER OF PRODUCTS	20*

Each country reports how many patient have received a product

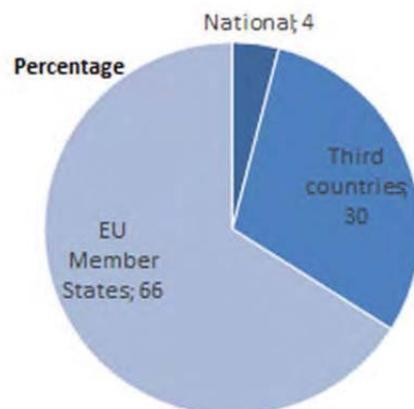
Austrina patients receiving marrow from	
National donor	10*
International donor	10*
TOTAL NUMBER OF PATIENTS	20*

* Example data

19



What might be valuable information for regulators?



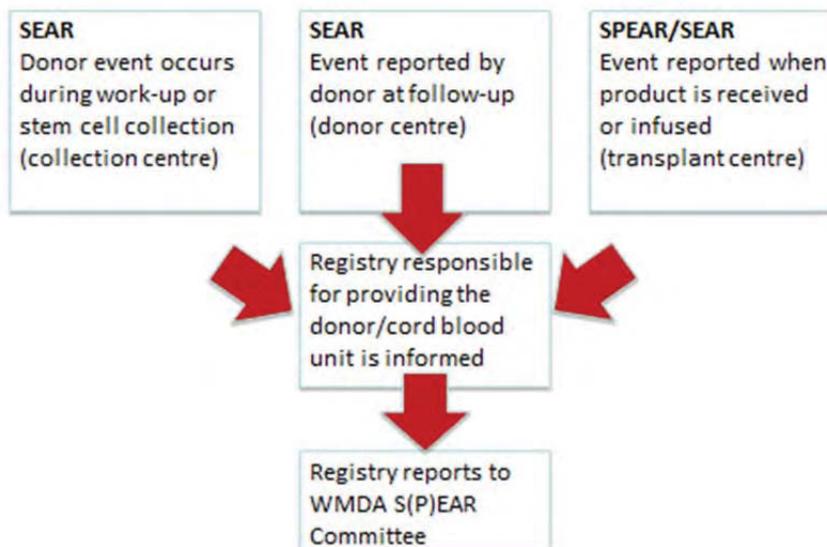
Country	Bone Marrow	PBSC	Cord
USA	2	10	3
Vietnam	0	0	1



Pillar 3: Promoting Donor Care



Serious Adverse Events and Reactions Reporting

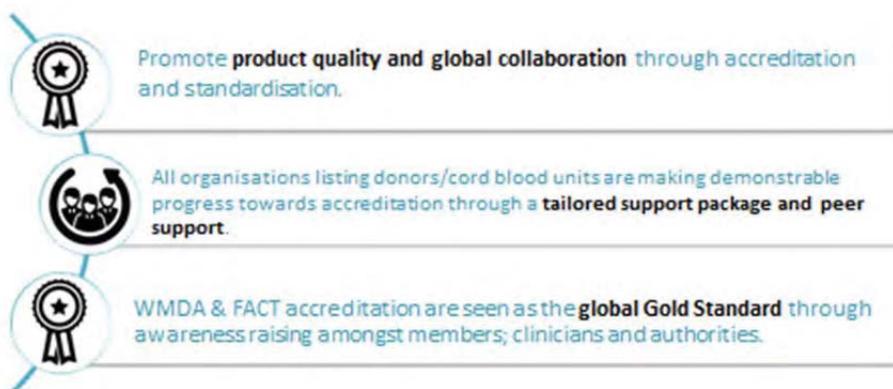




What might be valuable for regulators?

- One central point for reporting where professional expertise and regulatory experience are combined
- Rapid alert system

Pillar 4: Ensuring Quality



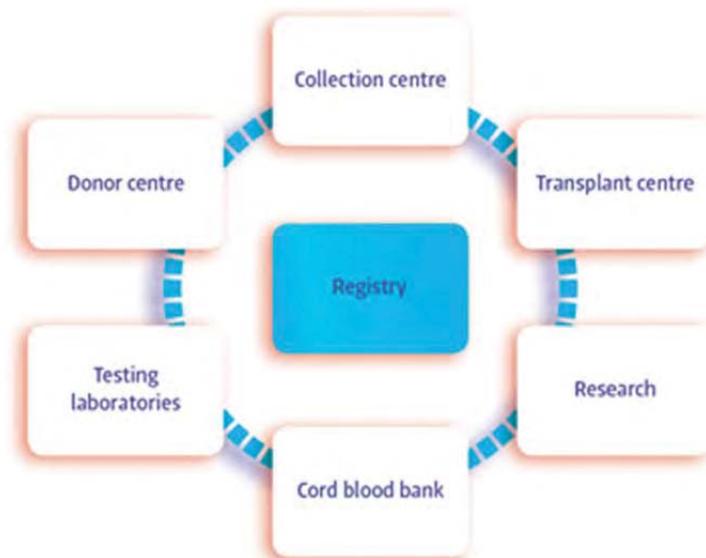
WMDA Accreditation



EUROPEAN DIRECTIVE 2004/23/EC; article 9

Import/export of human tissues and cells

Member States and tissue establishments that receive such imports from third countries shall ensure that they meet standards of quality and safety.



What might be valuable for regulators?



- Shared resources on import/export knowledge
- List of accredited organisations

- ✚ **State-of-the-art in international data collection exercises for eye banks - Philip Maier (European Eye Bank Association; EEBA)**



European Eye Bank Association (EEBA)

Prof. Dr. Philip Maier (Lions Cornea BW)

STATE-OF-THE-ART IN INTERNATIONAL DATA COLLECTION EXERCISES FOR EYE BANKS

**Technical Meeting on National and EU-level Tissue and Cell
Activity Data Collection and Reporting**

Thursday 22 March 2018 / Friday 23 March 2018

Venue: EDQM premises, 7 Allée Kastner, Strasbourg



EEBA Directory - Governance

- The EEBA Directory is
 - produced on an annual basis
 - published in time for the Annual Business Meeting.
- Data collection
 - Data from individual banks published only if at least one member of staff from that bank is a registered Ordinary Member at the EEBA
 - One Member of the Association from each Eye Bank is identified as the "Corresponding Member" for that Eye Bank.
 - Corresponding Members are responsible to annually return data on request using the forms provided in order to compile a Directory of the Association.
- Directory Supervisor
 - oversees the collection and processing of data for the Directory
 - Coordinates the publication of the Directory.
 - Additional support and editing staff may be appointed by the Directory Supervisor with approval of the President.



EEBA Directory Aims

- Chronicling the yearly activities and methods of eye banks in Europe
=> Valued resource for eye bankers and ophthalmologists
- Key information on transplant legislation concerning donation and eye banking
- List of the contact details for all eye banks which have at least one EEBA Ordinary Member
- Keeping track of new developments in eye banking
 - e.g. increasing propensity for posterior lamellar grafts to be prepared in the eye bank laboratory versus the operating theatre
- Directory is only made available to EEBA Members (+ on request to regulatory/competent authorities)



EEBA Annual Directory – Data for 2016 (but published in 2018!)



EEBA Annual Directory – Summary Statistics for the past 5 years



Table 1 - Numbers

	2012	2013	2014	2015	2016
Number of banks providing data	63	66	65	68	66
Number of countries	31	31	32	32	32
Number of corneas processed	33,802	34,111	37,541	39,463	40,944
% of corneas tested for grafting	63	63	64	66	67

Table 2 - Number of differently sized banks

Corneas used per year	2012	2013	2014	2015	2016
< 50	4	3	3	3	5
50 - 100	6	7	10	9	8
100 - 500	31	27	24	29	26
500 - 1000	11	14	17	15	15
> 1000	11	10	11	12	12

Table 3 - Donor information

	2012	2013	2014	2015	2016	
Age (yr)	Organ culture	62.9	67.2	63.1	63.9	64.6
	Hypothermic storage	54.3	55.2	62.6	54.6	63.2
Death to enucleation (hrs)	Organ culture	17.30	16.36	16.14	16.19	17.58
	Hypothermic storage	8.00	8.59	06.22	08.04	08.66
Death to excision in the lab (hrs)	Organ culture	21.32	22.55	22.24	22.35	22.14
	Hypothermic storage	12.21	10.59	08.09	11.12	12.00
Death to in situ excision (hrs)	Organ culture	14.62	13.06	13.54	14.12	15.03
	Hypothermic storage	8.00	7.58	08.36	09.35	07.57

Table 4 - Storage methods in the EEBA

	2012		2013		2014		2015		2016		
	nr	%	nr	%	nr	%	nr	%	nr	%	
Received (after pre-selection)	79492	38443	143822	40756	40497						
Not further processed for grafting (incl. pre-evaluation / pre-selection)	13299	34	12823	33	14553	33	18176	39	16284	35	
Processed in bank (Organ culture)	26163	64	24999	67	30699	70	22441	71	24270	74	
	Hypothermic storage	8290	26	7942	21	6232	14	4509	14	8167	13
	Mean chamber	224	0.6	270	0.7	460	1.0	471	1.0	451	1.0

EEBA Annual Directory – Summary Statistics for the past 5 years

Table 5 - Corneas not transplanted in 2016

not transplanted because of:	percentage of received corneas
medical history	1.2%
donor tests	1.6%
microbiology	1.7%
bacteria	0.9%
early-onset bacteria	0.5%
fungi	0.5%
early-onset fungi	0.6%
contaminated bacteria and fungi	0.3%
not specified	0.6%
unspecified	0.1%
local microbiology	1.2%
microbiology	17.3%
other or unknown reasons (e.g. organizational reasons)	6.4%

Table 6 - Selection and transplantation in 2016

	selected	transplanted	not transplanted	percentage not transplanted
cornea/eye	1767	1164	603	34%
retina/iris/lens	212	207	5	2%
drug sensitive lamellar	671	605	67	10%
proliferative lamellar	4524	4470	54	1%
CMV	438	430	8	2%
PKP	13046	11717	1329	10%
cellular	367	302	65	18%
total	24497	17219	7278	29%

Table 7 - Serology testing of all received corneas 2016

	percentage tested	percentage tested	
HIV 1/2 antigen	99.2%	HIV 1/2	46.0%
HIV 1/2 antibody	98.8%	syphilis	97.0%
Hepatitis B antigen	99.0%	streptococcus	0.3%
Hepatitis B antibody	97.8%	streptococcus	0.3%
Hepatitis C antigen	26.9%	EBV	0.0%
Hepatitis C antibody	90.0%	CMV	0.0%
		Hepatitis A	0.3%

Table 8 - Mean frequency of positive serology (%)

	2012	2013	2014	2015	2016
HIV 1/2	0.4	0.4	0.3	0.3	0.3
Hepatitis B	1.8	1.8	1.8	1.8	1.7
Hepatitis C	1.1	0.8	0.8	0.9	1.1
syphilis	0.7	0.5	0.6	0.6	0.6
Additional serology (not specified)	0.3	1.0	0.3	0.3	0.5
Total positive serology (incl. Hep. A and others)	6.3	7.5	5.6	5.2	5.5
Serology tests incomplete or impossible	3.0	1.4	2.1	1.7	1.3

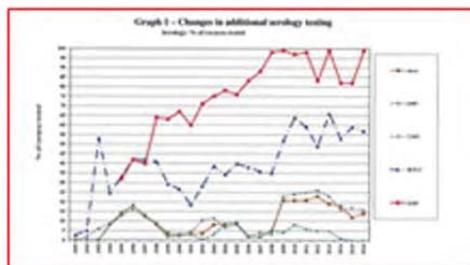


Table 9 - Other tissues used for ocular surgery

		2012	2013	2014	2015	2016
Sclera	banks	28	32	33	35	34
	tissues	1379	1410	1557	1641	2009
Lambal grafts	banks	2	2	2	1	2
	tissues	4	3	3	1	4
Stem cells	banks	5	5	4	1	4
	tissues	196	271	87	10	32
Amniotic membrane	banks	41	41	37	41	41
	tissues	4999	3533	5310	5947	5927

Table 10 - Quality Management

EU Directive related items	2012	2013	2014	2015	2016
Standard Operating Procedures present	55	59	60	63	64
Standard Operating Procedures in preparation	0	0	0	0	0
Quality Manual present	51	57	60	61	60
Quality Manual in preparation	1	1	1	0	1
ISO 9001-2000 certification	18	19	15	19	15
other certification	14	17	17	14	51
certification in preparation	4	4	2	4	4
Quality and technical summary present	48	52	52	54	53
Quality and technical summary in preparation	1	1	0	0	1

Table 11 - Working circumstances in the laboratory

		nr of banks
Tissue received as	whole eyes	48
	corneoscleral buttons	34
	both	20
Decontamination before eyes come into the laboratory		17
Laminar flow bench used		58
Room environment	animal room with free access	0
	animal room with limited access	9
	room with limited access via changing room	11
	clean room grade B	18
	clean room grade C	17

Section 2: EEBA banks information – Activity and methods

- 15 Numbers
- 17 Collection and selection
- 22 Decontamination
- 24 Organ culture, preservation medium
- 32 Organ culture, preservation method
- 34 Hypothermic storage
- 36 Endothelium evaluation
- 40 Cell counting
- 45 Microbiology testing
- 47 Sclera
- 49 Amnion
- 51 Stem cells
- 53 Quality assurance



EEBA Banks – Information per Country

Specific legislation
for each country

- Donation
- Cornea Banking

AUSTRIA

Legislation Austria

Donation:

- No distinction is made between the eye and the cornea, both are considered as tissues.
- Removal of the eye is allowed.
- Organ donation in an opting out system (presumed consent) objections are registered in the "Widerspruchregister" or made known personally.

Cornea banking:

- In 2008 the Austrian Tissue Safety Act (Gewerblichkeitsgesetz) based on the EC-directives on tissues and cells was implemented.
- An accreditation by a competent authority according to the Gewerblichkeitsgesetz is conducted biannually, including inspection of eye banks.

Gewerblichkeitsgesetz

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Medical University Innsbruck
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Fax: +43 512 504 237 66
E-mail: augen@klinik.uni-innsbruck.at system.Wahlleiter@med.klinik.uni-innsbruck.at

Correspondent: Werner Wahlleiter

Staff: Werner Wahlleiter, Mag. Christa Seifarth
Date established: 19-10-1995

Red Cross Blood Transfusion Service of Upper Austria

Multi-Tissue and Blood Bank
Krankenhausstrasse 7
A-4020 Linz
AUSTRIA
Telephone: +43 732 777 000 204
Fax: +43 732 777 000 290
E-mail: simone.lammerts@rtr.oberoesterreich.at

Correspondent / Responsible Person: Mag. Dr. Simone Heuerichler-Lagacheider

Staff: Claudia Leitmayr, Eva Schachermayer, Daniela Muehlberger, Daniela Hager, Doris Preiner,
Ulrich Preiner
Date established: 2007



EEBA Banks – Summary Information per Country

General

For extended information see data per country.

country	transposing banks	Donation legislation					Cornea banking legislation						
		national follow up system	legislation concerning organ donation	eye considered as tissue (Y), or organ (O)	cornea considered as tissue (Y), or organ (O)	removal of eye allowed (Y) or only heart beating donors (N)	opting out system (Y) or opt-in (N)	accreditation required	inspection by competent authority required	National Eye Bank Organisation	National Tissue Bank Organisation	legal requirements for storage solutions	EU-directives implemented
Austria	0	no	yes	no	no	yes	no	no	no	no	no	no	no
Belgium	0	no	yes	no	no	yes	no	no	no	no	no	no	no
Bulgaria	1	yes	yes	no	no	yes	no	no	no	no	no	no	no
Croatia	1	no	yes	no	no	yes	no	no	no	no	no	no	no
Czech Republic	1	yes	yes	no	no	yes	no	no	no	no	no	no	no
Denmark	1	no	yes	no	no	yes	no	no	no	no	no	no	no
France	1	no	yes	no	no	yes	no	no	no	no	no	no	no
Germany	4	no	yes	no	no	yes	no	no	no	no	no	no	no
Greece	18	yes	yes	no	no	yes	no	no	no	no	no	no	no
Hungary	2	yes	yes	no	no	yes	no	no	no	no	no	no	no
Italy	5	no	yes	no	no	yes	no	no	no	no	no	no	no
Ireland	1	no	yes	no	no	yes	no	no	no	no	no	no	no
The Netherlands	2	yes	yes	no	no	yes	no	no	no	no	no	no	no
Norway	2	no	yes	no	no	yes	no	no	no	no	no	no	no
Poland	2	yes	yes	no	no	yes	no	no	no	no	no	no	no
Portugal	1	yes	yes	no	no	yes	no	no	no	no	no	no	no
Russia **)	1	no	yes	no	no	yes	no	no	no	no	no	no	no
Slovenia	1	no	yes	no	no	yes	no	no	no	no	no	no	no
Spain	3	yes	yes	no	no	yes	no	no	no	no	no	no	no
Sweden	0	yes	yes	no	no	yes	no	no	no	no	no	no	no
Switzerland **)	4	no	yes	no	no	yes	no	no	no	no	no	no	no
United Kingdom	1	yes	yes	no	no	yes	no	no	no	no	no	no	no



Other data collection activities



- European Cornea and Cell Transplantation Registry (ECCTR)
 - EEBA is one of 8 consortium partners in the (<http://www.ecctr.org/>)
- Aims
 - Build a common outcome assessment methodology for corneal transplantation
 - Clinical outcome measures
 - Patient reported outcome measures
 - Establish an EU web-based registry and network for academics, health professionals and authorities
 - Assess and verify activity data and the safety, quality and efficacy of corneal transplants



EEBA Secretariat

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www.europeaneyebanks.org

- ✚ **Past and present of the European collection of tissue, cells and ART data of activity -
Eliana Porta, Valentina Caramia (Italian National Transplant Centre; CNT)**

EUROCET

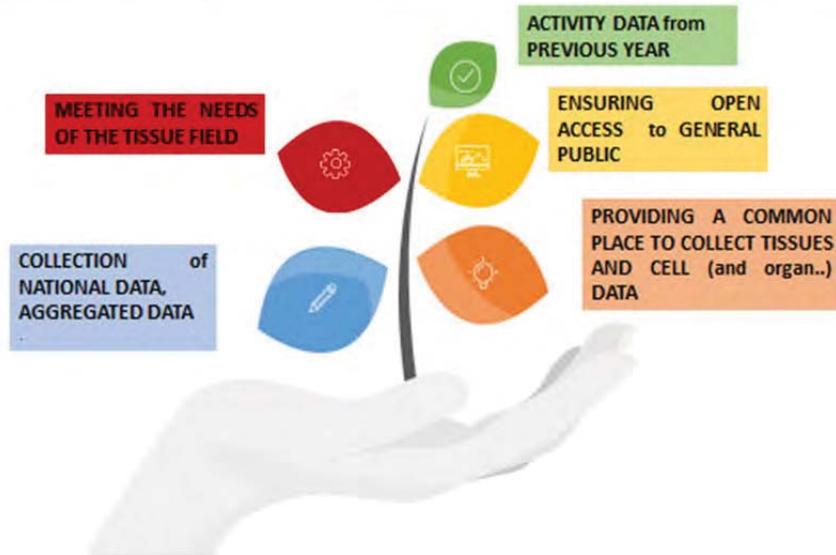
European Registry Of Competent Authorities For Tissues And Cells

Past and present of the European collection of Tissue, Cells and ART data of activity.

**Eliana Porta, Valentina Caramia, Maura Mareri, Francesca Vespasiano, Paola Di Ciaccio and Alessandro Nanni Costa
Istituto Superiore di Sanità, Italian National Transplant Centre, Rome, ITALY**



THE PHYLOSOPHY OF EURO CET DATA COLLECTION



TISSUES DATA - activity 2018

Country	Year	Activity	Quantity	Value		
DONATION PER TYPE OF TISSUE	2018	of all tissues				
		of all ocular tissues				
		of all skin				
		of all heart valves				
		of all blood vessels				
		of all musculoskeletal				
		of all placenta				
		of all other tissues				
		PROCUREMENT	2018	of all tissues		
				of all ocular tissues		
				of all skin		
				of all heart valves		
of all blood vessels						
of all musculoskeletal						
of all placenta						
of all other tissues						
IMPORT & EXPORT OF PRODUCTS	2018			of all products		
				of all ocular products		
				of all skin products		
				of all heart valve products		
		of all blood vessel products				
		of all musculoskeletal products				
		of all placenta products				
		of all other products				
		TRANSPLANTATION FOR HUMAN APPLICATION	2018	of all tissues		
				of all ocular tissues		
				of all skin		
				of all heart valves		
of all blood vessels						
of all musculoskeletal						
of all placenta						
of all other tissues						

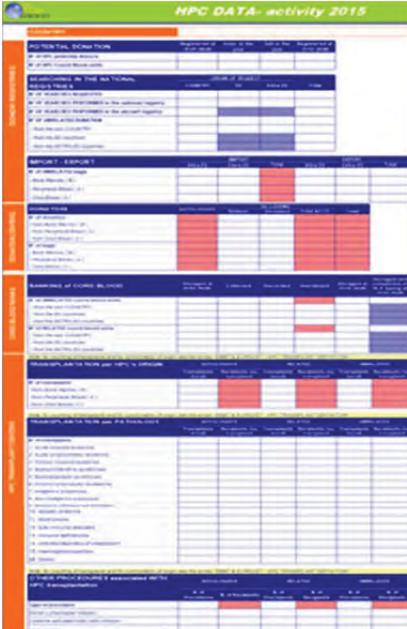
TISSUE DATA COLLECTION FORM

Type of tissue:

- ocular tissue,
- skin,
- heart valves,
- blood vessels,
- musculoskeletal,
- Placenta
- other tissue.

Activities collected:

- donation,
- donation per type of tissue,
- procurement,
- banking,
- import and export of products,
- transplantation for human application.



The image shows a screenshot of the 'HPC DATA - activity 2015' form. It is a complex spreadsheet with multiple sections, including 'HPC DATA - activity 2015', 'HPC DATA - activity 2014', 'HPC DATA - activity 2013', and 'HPC DATA - activity 2012'. Each section contains various data points related to HPC activities, such as 'Potential donation', 'Searching in the national registries', 'Import-export', 'donation', 'Banking of cord blood', 'Transplantation per HPC's origin', 'Transplantation per pathology', and 'Other procedures associated with HPC transplantation'.

HPC DATA COLLECTION FORM

Activities collected:

- Potential donation,
- Searching in the national registries,
- Import-export,
- donation,
- Banking of cord blood,
- Transplantation per HPC's origin,
- Transplantation per pathology,
- Other procedures associated with HPC transplantation.



The image shows a screenshot of the 'ART DATA - activity year 2014' form. It is a complex spreadsheet with multiple sections, including 'ART DATA - activity year 2014', 'ART DATA - activity year 2013', 'ART DATA - activity year 2012', and 'ART DATA - activity year 2011'. Each section contains various data points related to ART activities, such as 'IUI, IVF, ICSI, FET, Other', 'ART - with partner donation', 'Non partner donation activities', 'ART with non partner sperm donation, donation', 'ART with non partner oocyte donation', 'ART with non partner oocytes and sperm donation', and 'ART with embryo donation'.

ART DATA COLLECTION FORM

Types of treatment:

- IUI, IVF, ICSI, FET, Other

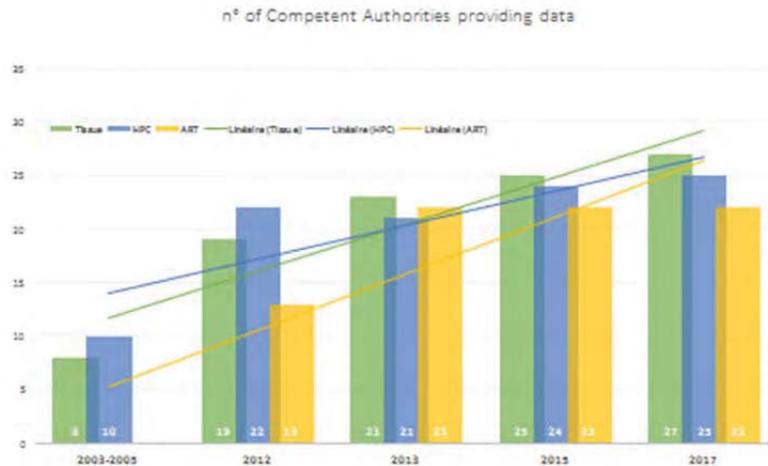
Activities collected:

- ART - with partner donation,
- Non partner donation activities,
- ART with non partner sperm donation, donation,
- ART with non partner oocyte donation,
- ART with non partner oocytes and sperm donation,
- ART with embryo donation.

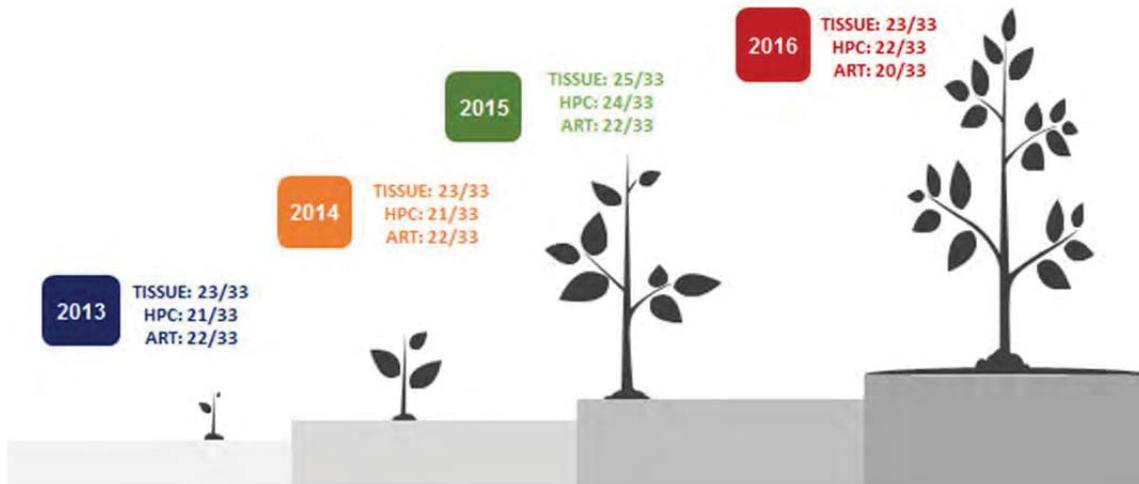
DATA PROVIDED BY NATIONAL COMPETENT AUTHORITIES

Austria AGES - Österreichische Agentur für Gesundheit und Ernährungssicherheit - Austrian Agency for Health and Food Safety	France ABM – Agence de la biomédecine	Macedonia	Slovenia Institute for transplantation of Organs and Tissues of the Republic of Slovenia
Belgium	Greece	Malta Ministry of Health of the Republic of Malta	Slovakia Ministry of Health
Bulgaria BEAT – Bulgarian Executive Agency	Croatia Ministry of Health of the Republic of Croatia	Netherlands Ministry of Health, Welfare and Sport	Turkey
Cyprus Ministry of Health of the Republic of Cyprus	Hungary Ministry of Human Capacities	Norway Helsedirektoratet	United Kingdom HTA – Human Tissue Authority HFEA – Human Fertilisation and Embryology Authority
Czech Republic Ministry of Health of the Czech Republic	Ireland	Poland NCTCB - National Centre of Tissue and Cell Banking	
Germany Paul Ehrlich Institut	Italy CNT – Italian National Transplant Centre	Portugal IPST - Institute for Blood and Transplantation Services	
Denmark	Lithuania NTB - National Transplant Bureau	Romania ANT – National Transplant Agency	
Estonia Ravimiamet	Luxembourg Ministry of Health	Sweden IVO - Health and Social Care Inspectorate	
Spain ONT - Organización Nacional de Trasplantes Ministry of Health, Social Services and Equity	Latvia State Agency of Medicines of the Republic of Latvia	Switzerland Federal Office for Public Health – Sub-Division Transplantation and Reproductive Medicine	
Finland FIMEA – Finnish Medicines Agency	The Republic of Moldova Transplant Agency		

Eurocet's growth from 2003 to 2017



FOCUS: Number of countries which contributed from 2013 to 2016



FOCUS: Countries which contributed to the 2017 Collection

Countries	TISSUES	HPC	ART
Austria			
Belgium			
Bulgaria			
Croatia			
Cyprus			
Czech Republic			
Germany			
Denmark			
Estonia			
Spain			
Finland			
France			
Greece			
Hungary			
Ireland			
Italy			
Lithuania			
Luxembourg			
Latvia			
Moldova			
Macedonia			
Malta			
Netherlands			
Norway			
Poland			
Portugal			
Romania			
Sweden			
Slovenia			
Slovakia			
Switzerland			
Turkey			
United Kingdom			
Total	27	25	22

HPC: 25 out of 33 countries (23 EU Member States and 2 Extra EU countries) joined this year's collection.

TISSUES: 27 out of 33 countries (24 EU Member States and 3 Extra EU countries) joined this year's collection.

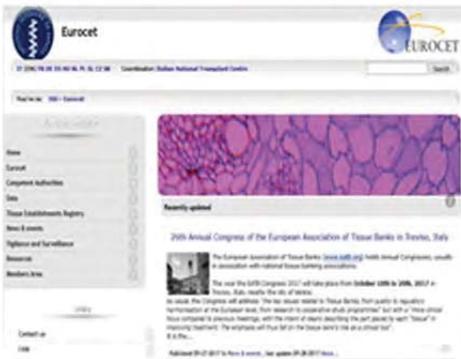
Four more than 2016:
Austria
Germany
Poland
Switzerland

ART: 22 out of 33 countries (20 EU Member States and 2 Extra EU countries) joined this year's collection.



Where can people find the data?

Eurocet data are publicly available through the eurocet website (eurocet.org)



Since 2008, the data are annually published in the Newsletter Transplant.



THE PRESENT DISCUSSION ON EUROPEAN DATA COLLECTION

Since last year the issue of harmonizing data in the tissue and cell field was put on the table of the EDQM-CDTPO expert group. Italy's Competent Authority volunteered to lead the group that is discussing a way of streamlining and updating the common data collection forms and revising definitions.



Group members:

Eliana Porta - Italian National Transplant Centre, Italy (lead)
Jacinto Sanchez Ibanez, Simone Hennerbichler - European Association of Tissue Banks
Carlos Calhaz Jorge, Kersti Lundin - European Society of Human Reproduction and Embryology
Artur Kaminski - iKCBTK/NCTCB, Poland
Ana Franca - IPST, Portugal
Aurora Dragomiristeanu - RNDVCSH, Romania
Mar Carmona - ONT, Spain



Eurocet intends to adopt the results of these agreed work for the collection of 2017 data.

THE PHILOSOPHY BEHIND THE CHANGES

CONCENTRATING
ON COLLECTABLE
AND RELIABLE
VARIABLES

MINIMIZING
OVERLAPPING
WITH OTHER DATA
COLLECTIONS

DEFINING
A COMMON
LANGUAGE

MAKING DATA
COLLECTION
MORE RELIABLE



EUROCET

European Registry Of Competent Authorities For Tissues And Cells

Thank you for your attention!

- 
Newsletter Transplant of the Council of Europe/Global Observatory on Donation and Transplantation (GODT) - Mar Carmona (Spanish National Transplant Organisation; ONT)

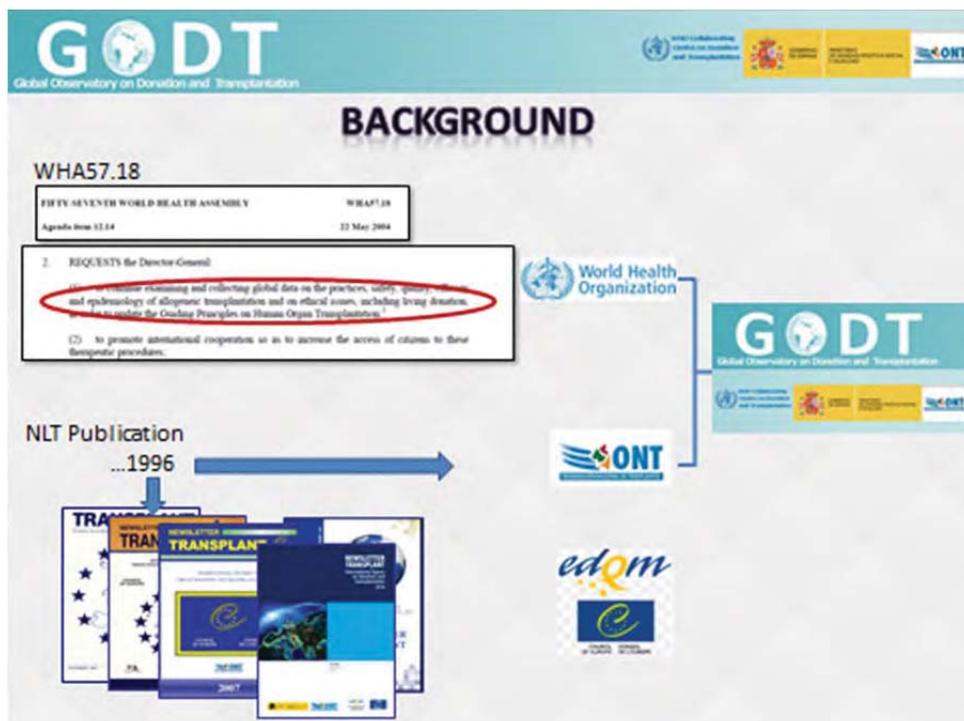


GODT
 Global Observatory on Donation and Transplantation

**Newsletter Transplant of the Council of Europe /
 Global Observatory on Donation and
 Transplantation (GODT)**
<http://www.transplant-observatory.org/>

Mar Carmona
 On behalf of the GODT Working Group
 Organización Nacional de Trasplantes (ONT)
 Spain

*Technical Meeting on National and EU-level Tissue and Cell Activity Data Collection and Reporting.
 22-23 March 2018, Strasbourg*



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 Global Observatory on Donation and Transplantation

BACKGROUND

WHA57.18
 FIFTY SEVENTH WORLD HEALTH ASSEMBLY
 Agenda Item 83.04
 23 May 2014

2. REQUESTS the Director-General:

(1) to continue examining and collecting global data on the practice, safety, quality and epidemiology of allogeneic transplantation and on ethical issues, including living donation, in order to update the Guiding Principles on Human Organ Transplantation;

(2) to promote international cooperation so as to increase the access of patients to their therapeutic procedures.

World Health Organization

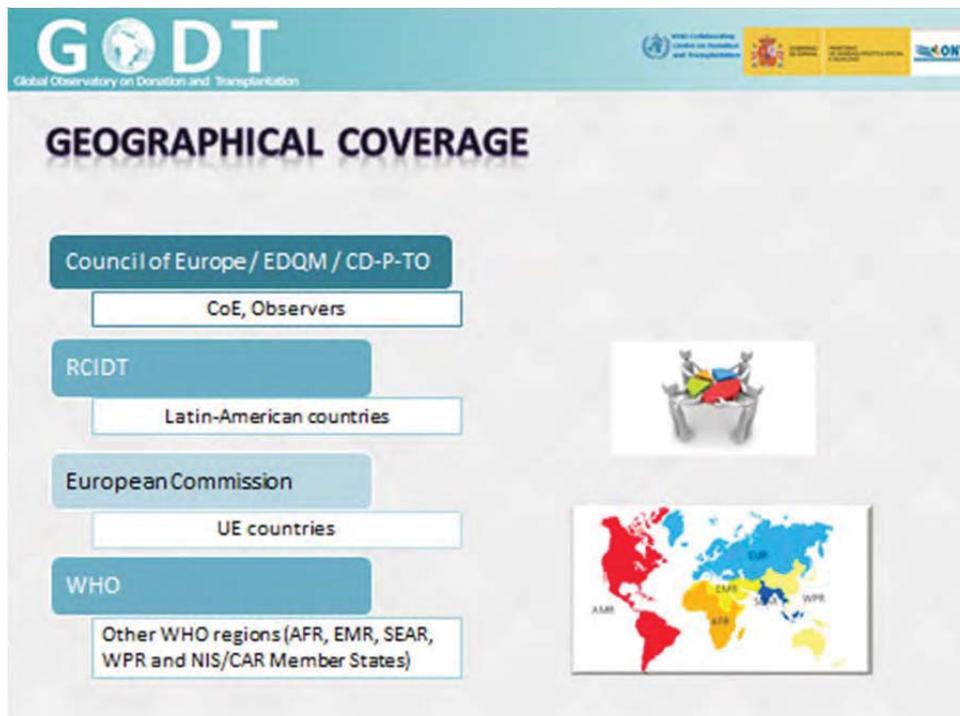
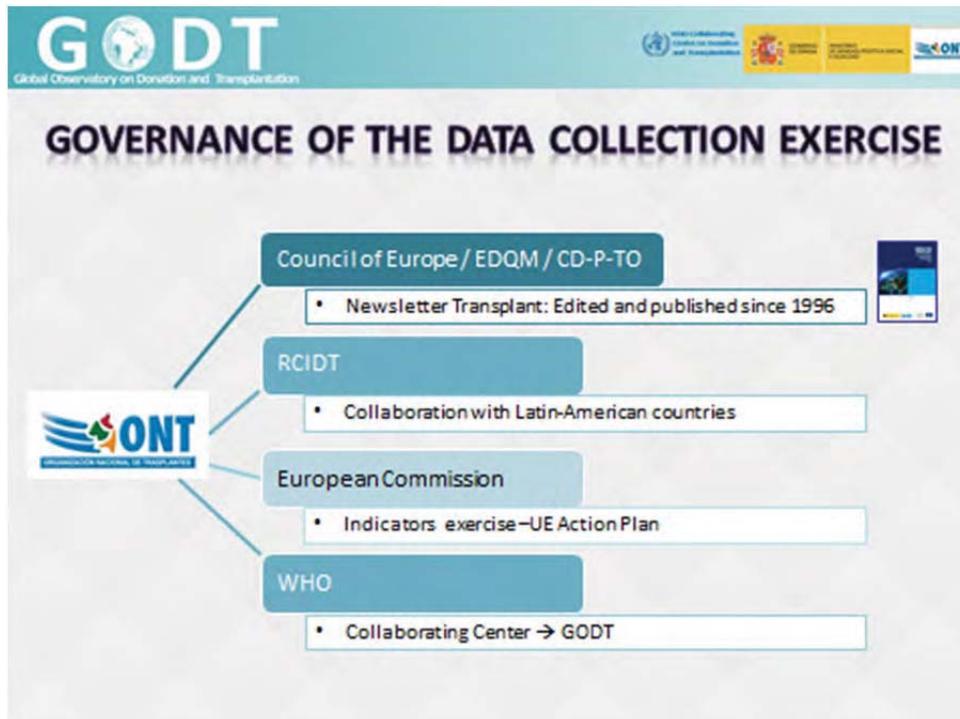
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ONT

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Questionnaire II: Organs

Questionnaire II:II

II.3 ANNUAL ORGAN TRANSPLANTATION ACTIVITY

Where available, please specify total available (TA) or total available (TA)

Annual activity data corresponding to year _____

II.3.1 How many transplant centres are officially registered?

Number of	
II.3.1 Kidney centres	_____
II.3.2 Liver centres	_____
II.3.3 Heart centres	_____
II.3.4 Lung centres	_____
II.3.5 Pancreas centres	_____
II.3.6 Small Bowel centres	_____

II.4 Actual deceased organ donors¹

Green columns: whenever possible, please indicate the number of donors according to the following age categories (numeric donors under 15 years old, 15-19 years old & 20 years old)

	Total	< 15 years	15-19 years	≥ 20 years
II.4.1 Number of actual donors after brain death (DBD)				
II.4.2 Number of actual donors after circulatory death (DCD)				
II.4.3 Number of actual donors after circulatory death (DCD) - i.e. actual deceased organ donors at whom death has been determined by circulatory criteria				

¹ Actual deceased organ donor: As defined in the Council Directive (EU) 2012/30/EU, a deceased organ donor is a person who has been determined to be deceased by circulatory criteria. It is defined as a person whose death has been determined by circulatory criteria. It is defined as a person whose death has been determined by circulatory criteria. It is defined as a person whose death has been determined by circulatory criteria. It is defined as a person whose death has been determined by circulatory criteria.

Questionnaire II:II

II.5 Official deceased organ donors¹

Green columns: whenever possible, please indicate the number of donors according to the following age categories (numeric donors under 15 years old, 15-19 years old & 20 years old)

	Total	< 15 years	15-19 years	≥ 20 years
II.5.1 Number of official donors after brain death (DBD)				
II.5.2 Number of official donors after circulatory death (DCD)				
II.5.3 Number of official donors after circulatory death (DCD) - i.e. official deceased organ donors at whom death has been determined by circulatory criteria				

¹ Official deceased organ donor: As defined in the Council Directive (EU) 2012/30/EU, a deceased organ donor is a person who has been determined to be deceased by circulatory criteria. It is defined as a person whose death has been determined by circulatory criteria. It is defined as a person whose death has been determined by circulatory criteria. It is defined as a person whose death has been determined by circulatory criteria.

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Questionnaire III: Organs

Questionnaire III:III

III.1 TRANSPLANTATION ACTIVITY (in this section please specify the number of transplants¹ performed (DBD and DCD) activity for each item)

Green columns: whenever possible, please indicate the number of paediatric transplants (<15 years old)

III.1.1 KIDNEY

	Number of transplants (including paediatric)	Number of paediatric transplants (< 15 years old)
From deceased persons		
Total: all combinations from deceased persons (including kidney in any other organ, transplants from DCD and DCD, single and double kidney transplants)		
From DBD		
From DCD		
Double?		
From living donors		
Total		
Double?		
Unilateral donors		
Unilateral donors		
TOTAL (Total Deceased + Total Living)		

¹ Definition of Paediatric Transplant: the number of transplants of human organs from a donor to a recipient with the age of recipient Number 12 or less.

² One double kidney transplant ("two for") is considered as one transplant.

Questionnaire III:III

III.2 LIVER

	Number of transplants (including paediatric)	Number of paediatric transplants (< 15 years old)
From deceased persons		
Total: all combinations (including liver + any other organ) transplants from DCD and DCD, split		
From DBD		
From DCD		
Split*		
Double?		
From living donors		
Of relative segment(s) from 1 donor		
Of relative segment(s) from 2 donors		
Total		
TOTAL (Total Deceased + Total Living + Double)		

III.3 HEART

	Number of transplants (including paediatric)	Number of paediatric transplants (< 15 years old)
Total: all combinations (including heart + any other organ)		
Heart Aortic ²		

*A split liver transplant is defined when a donor liver is divided into parts and transplanted into more than one recipient (Unilateral Donor (UD)).

² Double Transplant: A procedure in which an organ is implanted from one transplant recipient and subsequently transplanted into a second patient, with the first patient receiving a split organ from a deceased donor (DBD/DCD).

³ One liver being transplanted is considered as one being transplanted, not being transplanted and one being transplanted.

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Questionnaire IV: Organs

51.4 SMALL BOWEL

	Number of transplants including pediatric	Number of pediatric transplants (< 15 years old)
Total* of combinations including small bowel + any other organ		
Small bowel alone		

51.7 TOTAL NUMBER OF RECIPIENTS TRANSPLANTED in your country within the year indicated
E.g. For more than one organ transplanted into the same recipient, Kidney/Liver/Heart Transplant = count as one recipient

	Number of recipients transplanted including pediatric	Number of pediatric recipients transplanted (< 15 years old)
From deceased persons	Total of combinations from DDC and DCD and more than one-organ transplants	
From living donors		
TOTAL (deceased + Deceased)		

51.5 WAITING LIST (ONLY)

51.5.1 KIDNEY

	Number of patients included on the WL for the first time in the course of 2022	Total number of patients ever* active** on the WL during 2022	Number of patients awaiting a transplant only active until 31st December	Number of patients dead while on the WL during the year

* Active in all centers during the year
** Active Candidate - A recipient candidate might be included for organ after a given year to have some recipient candidates are regularly classified as "active" in the national data base but are actually inactive for transplantation in our database due to specific requirements. (DB/RC/OTC)

51.5 PANCREAS

	Number of patients included on the WL for the first time in the course of 2022	Total number of patients ever active on the WL during 2022	Number of patients awaiting a transplant only active until 31st December	Number of patients dead while on the WL during the year indicated

51.6 SMALL BOWEL

	Number of patients included on the WL for the first time in the course of 2022	Total number of patients ever active on the WL during 2022	Number of patients awaiting a transplant only active until 31st December	Number of patients dead while on the WL during the year indicated

51. TRANSPLANTS ABROAD

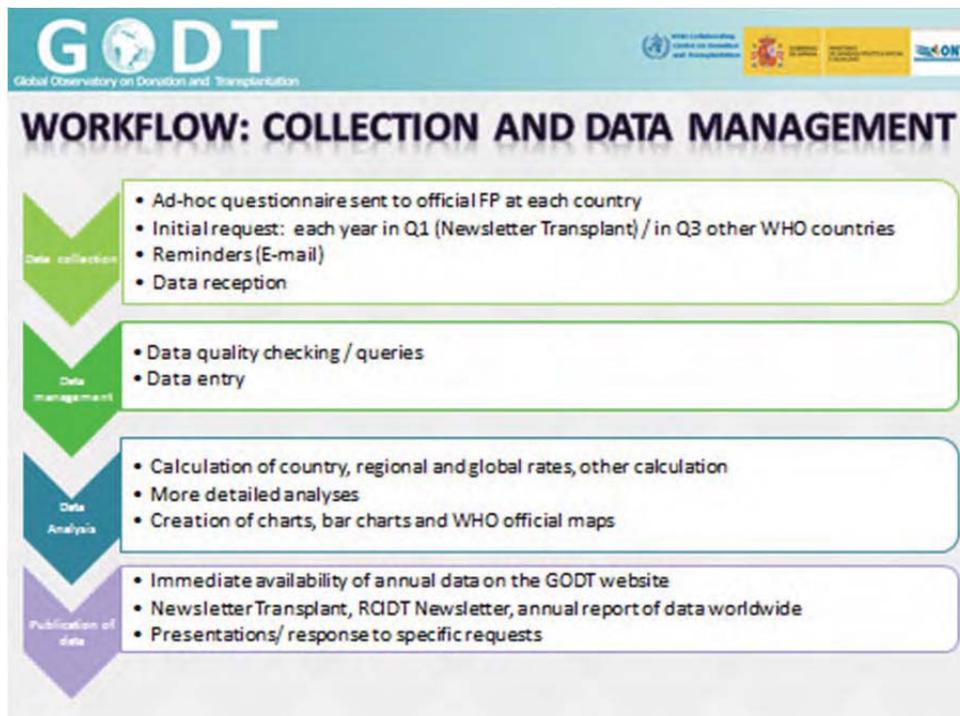
51.1 Number of resident patients in the reporting country, known to have been transplanted abroad from a living or deceased donor, within the year indicated: _____

51.1.1 If any cases reported for 51.1, please provide information on the destination country / countries: _____

51.2 Number of resident living donors in the reporting country, known to have travelled abroad to donate, within the year indicated: _____

51.2.1 If any cases reported for 51.2, please provide information on the destination country / countries: _____

51.3 Additional information: _____



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WHO Collaborating Centre for Donation and Transplantation

PUBLICATION OF GLOBAL DATA. GODT ANNUAL REPORT

The collage shows several pages from the GODT 2015 Report. The top left is the cover page. The top middle shows a world map and a 'Results' section. The top right features a bar chart and a table of data. The bottom left shows another world map, and the bottom right shows a detailed data table with columns for various countries and metrics.

GODT
Global Observatory on Donation and Transplantation

WHO Collaborating Centre for Donation and Transplantation

WHO GLOBAL GLOSSARY

The collage displays pages from the WHO Global Glossary. The left page is the cover, titled 'Global Glossary of Terms and Definitions on Donation and Transplantation'. The middle page is the 'INDEX' listing various terms. The right page is the 'Glossary of Terms and Definitions' with detailed explanations for terms like 'Medical Organ Donor', 'Allogeneic', 'Brain Death', 'Cadmium Death', 'Cell Multiplication', 'Certification of Death', and 'Compatibility Testing'. At the bottom, a text box states: 'Definitions and instructions on how to complete the fields are included along the questionnaire to facilitate its completion.'



FINAL REMARKS

- The GODT is the result of dedicated efforts to **maintain a close collaboration** with FP, and it is also the result of **their valuable contribution** to providing annual data
- **Cooperation of countries is crucial to obtain reliable and high quality data**
- The **Global Observatory and Database** set up a dynamic and creative project in **continuous development**.
- **ONT Remains available for**
 - **implementing improvements** in the data collection, the Newsletter and the GODT
 - **providing additional data** not displayed at the site, upon request



Thanks for your attention....

GODT TEAM:

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Marina Álvarez
Jaime Marco
Mar Carmona

 transplant.observatory@msssi.es

www.transplant-observatory.org

- ✚ **The vigilance expert sub-group – are the SARE denominators fit for purpose? - George Galea (on behalf of the EU Vigilance Expert Sub-Group; VES)**





Vigilance Expert Subgroup

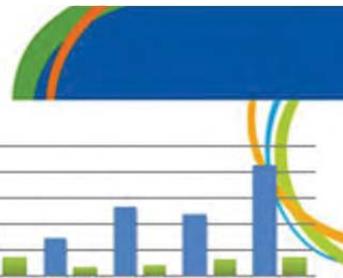
Formed by SANTE, February 2017

Vigilance experts for Blood, Tissues and Cells, nominated by the national competent authorities

Technical expertise to **support annual SARE reporting** for Blood, tissues and cells e.g. improvement of Common Approach/reporting template (B/TC) analysis, publication of annual SARE summaries

functioning of the Rapid Alert platforms for Blood (RAB) and Tissues and Cells (RATC)

other vigilance and surveillance activities.



Scale of the Denominator problem

- Twenty one countries provided data regarding the number of tissues and cells *processed* in 2015
- For non-reproductive tissues and cells, only 24 countries reported data on units distributed on recipients.
- For reproductive tissues and cells, only 14 countries reported data on units distributed and 10 countries only on number of recipients.
- 13 Member States reported no recipient SAR in 2015.
- These data, suggest that SAR reporting still needs to be improved at national level.





SAR Denominators-key issue to relate SAR into context

- Numbers processed ->SAE denominator
- Numbers distributed/issued
- Numbers grafted/recipients

Accuracy and options dependent on

- National reporting structures
- Type of tissue
- Processing methodology
- Agreement on units



SAR denominators commonality is critical:

- When there is significant lack of data-the 'incidence of SAR' are more of a reflection of the effectiveness and completeness of the national vigilance and reporting systems.
- only when commonly agreed data is used -the % of SARs calculated individually, will allow for bench-mark the data .





VES Rapporteurs: work plan

Review of proposals for harmonization/improvement of vigilance data quality

•Sources: minutes of VES meeting, VISTART recommendations

•Domain: Blood, Tissues and Cells

•Change required in: Common Approach, reporting template, Directive



44 proposals identified



14	V	B, TC	10	SAR reporting criteria	Blood DDT limited Events definition	x		1		
15	M	V	2	SAR denominators	Cryoprecipitate & granulocytes should be included	x	x	4	Proposal to include further breakdown of platelet concentrates and of TC according to ELTC composition not supported by EDQM/YES	Cryoprecipitate is already covered as "plasma" and Granulocytes buffy coats can be added as "Other", though no objectives to further define individual components. However, this does add additional burden to reporting establishments if they have to provide specific "error" data for an ever growing list of component types.
16	M	B, TC	1	SAR denominators	There should be a differentiation between components which have had a valid expiration date applied and those which have not. (Applies also to TC)	x		4	<i>Do not understand why. An SAR or SAE should be reported irrespective of the component linear count.</i>	See comment above
17	M	B, TC	1	SAR denominators	There should be a differentiation between components that have been leucodepleted and those that have not. (Applies also to TC)	x		4		See comment above
18	M	B, TC	1	SAR denominators	Include percent of more detailed product types (not SAR per type)	x		4	<i>I think denominators are difficult to agree on, avoid welcome a broader discussion. In the US we struggle with limited facility data which at best is very approximate!</i>	<i>Not sure what is meant here. A "product" as defined by the Directives is not covered. See comment above relating to additional burden on reporters to provide more detailed information.</i>



Key topics -Tissues and Cells

Consensus that SAR in donors should be reportable regardless of the impact on the quality and safety of the substance donated

As for blood, reporting of deaths in recipients should be mandatory for T&C

As for blood, SAR imputability should be defined for Tissues, cells and ART

SAR categories should be further specified per SoHO category

Many SAE are reported as "human error", for which reporting is to be further broken in sub-categories

The donor selection step should also be included in the SAE reporting scope

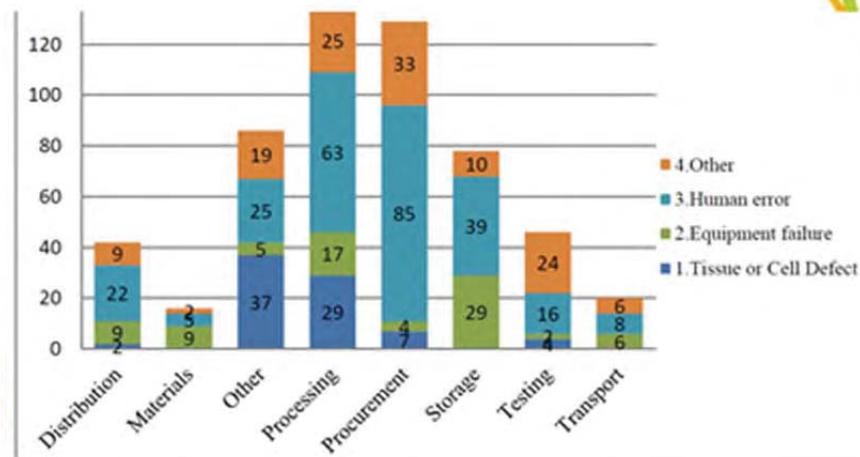


Current sequence of SAE data entry

Activity step	SAE specification (human error, etc.)	Free text description of SAE, type of TC etc.	Number of SAE				

Proposed sequence of SAE data entry

TC type	Specification of TC type	Number of TC processed	SAE yes/no	Activity step	SAE specification (human error, etc.)	Further specification of SAE	Number of SAE
as for SAR	as for SAR	relocated					



VES: future improvements

1. Clarify and agree on proposals for next round (Vigilance Expert Subgroup in consultation with SANTE)
2. Competent Authority approval
3. Members of Vigilance Expert Subgroup draft texts for Common Approach & Templates → circulated for approval before 2019 reporting exercise

Level 1	Level 2			Depending on complexity:
"Quick fix"			2018	Develop consensus & proposal
		2018	2019	Advance notice
2017	2018	2019	2020	SARE reporting (Establishments)
2018	2019	2020	2021	Commission data collection



VISTART group

Other important issues (for further implementation)

- Severity assessment tool is missing in Common Approach for Blood
- Definition of Distribution excludes 'issuing'. Issuing should be included in the definition of distribution in the Common Approach for Blood and T&C
- Breakdown of human errors as proposed by VISTART to be adopted in Common Approach for Blood and T&C
- Desired denominator for reproductive tissues and cells: reproductive cycles



VES: future possible SAR improvements discussed, no consensus (yet)

BLOOD, TISSUES/CELLS

Differentiate between products with/without pathogen reduction step
Differentiate between products with/without leukodepletion
Harmonize with EURO CET

TISSUES/CELLS

HPC- differentiate between allo- and auto
ART: move towards cycles as denominator

BLOOD

Include cryoprecipitate and granulocytes



Key issues

- Commonality of denominators

These are key actors for ensuring not only traceability of tissues and cells, but also effective vigilance systems.

It is important to avoid overburdening reports with too much detail especially if SARs cannot be collected consistently.

- Improved tissue vigilance

Health professionals involved in the clinical application of tissues and cells and tissue establishment personnel should be encouraged to submit reports.

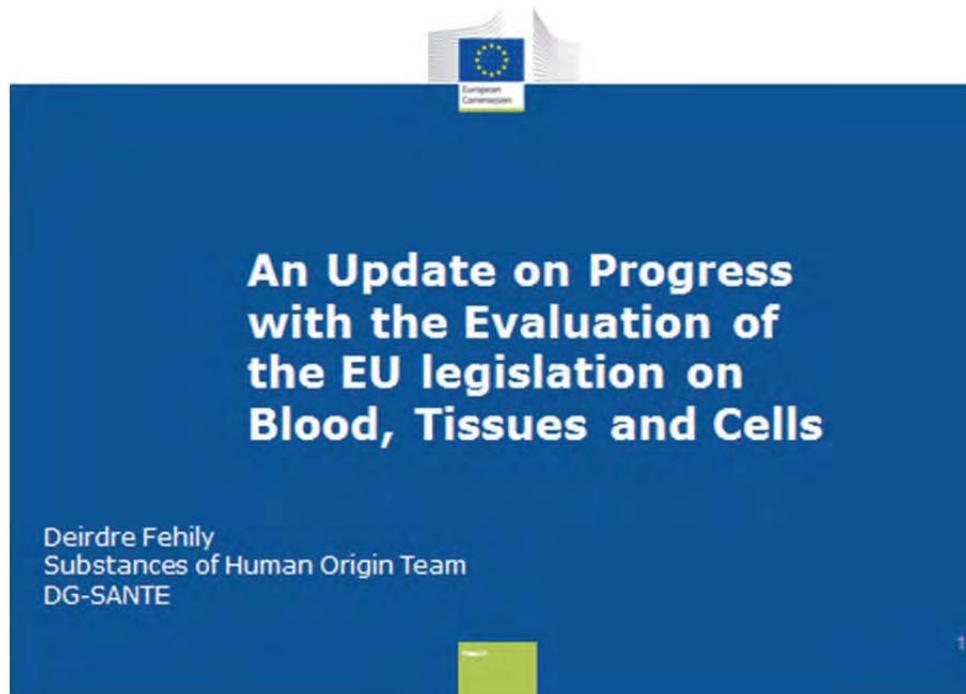
- These outcomes may contribute to the ongoing evaluation of the legal frameworks on blood, tissues and cells.

Improved legislation in any future revisions.



THANK YOU!

- **An Update on progress with the evaluation of the EU legislation on Blood, Tissues and Cells - Deirdre Fehily (European Commission)**



- The purpose of the evaluation is to provide a comprehensive assessment of the directives, examining their **functioning across the EU**.
- In particular the evaluation is assessing the extent to which the Main Directives have met their **original objectives** and whether they remain **fit for purpose** looking also at the contribution of the Implementing Directives.
- The evaluation is expected to provide a sound **evidence base** which will be used to consider the need for any changes to the legislation.



Assessment Criteria

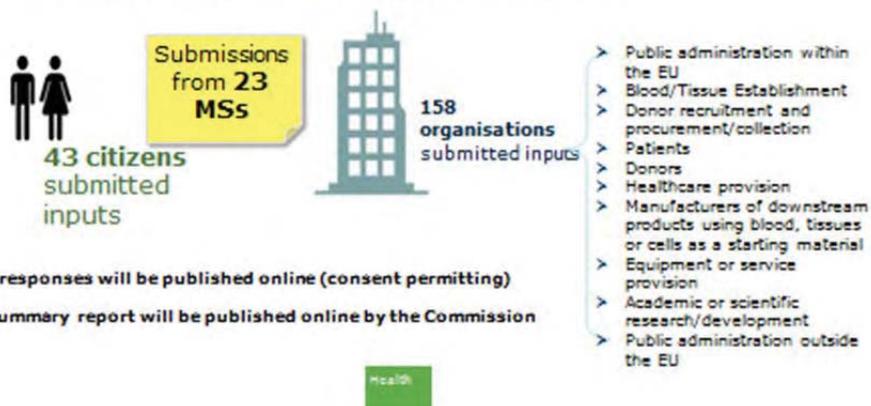
1. Effectiveness → Increased safety and quality?
Negative side-effects or barriers?
2. Relevance → Still up to date? (science, technology, epidemiology, commercialisation, new actors)?
3. Efficiency → Costs for establishments, clinicians, authorities justified by benefits?
4. Coherence → Consistent with other legislation, any gaps and overlaps?
5. EU Added Value → Could the results have been achieved better at national or global level?



OPEN PUBLIC CONSULTATION

The aim of the consultation was to gather:

- **views and opinions** on the implementation of the blood, tissues and cells legislation;
- **factual information** on what works well and where there is still room for improvement; and
- **data and knowledge** about the impact of the legislation.



Stakeholder Event 20.09.2017



- >200 participants
- Wide range of interests
- Strong statements from 20 panellists
- Lively open discussions



5 main themes

- Donors
- Regulatory oversight
- Availability and sufficiency
- Consistency and coherence
- A changing world

Stakeholder Event Summary Report



Stakeholder Consultation

Stakeholder consultation is one of the key instruments of evidence that will be used to support this evaluation. The aim is to collect views and opinions on the implementation of the Blood, Tissues and Cells legislation, to gather feedback information on what works well and what does not, as well as to learn from experience and to gather data and knowledge about the impact of the legislation. Stakeholders are being consulted in the following ways:

- An Online Public Consultation was launched in May 2016, 2017 and ran until September 2016. The consultation is now closed. Submissions were received from 108 organisations and 42 citizens. A summary of the national, together with the national submissions, content (anonymised), will be published later in April 2017.
- Meetings with key stakeholders are ongoing to gather feedback through direct interaction. Summary minutes are available on the EU State website.
- A Stakeholder Event was held on September 20th, 2017 in Brussels. The event attracted 200 participants from 20 countries. A summary of the event is set to be available in this report (see 2.1.2). The event was an important source of evidence that will be compared with the results of the Open Public Consultation, an independent study by a contractor and other evidence sources to form the final evaluation report for publication (see in 2018).

Summary of the Blood, Tissues and Cells Stakeholder Event	
20th September 2017	
Topic	Page
1.1 The Introduction of the Blood, Tissues and Cells legislation	1
1.2 The Regulatory Object	2
1.3 The Regulatory Goal of the legislation	3
1.4 Objectives of the legislation	3
1.5 Summary of the legislation	3
2.1 Donors and the legislation	4
2.2 Donors and the regulatory objectives of the legislation	4
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External Study



- **Contractor** – ICF Consulting
 - Supporting the Commission in evaluating the legislation
 - Supported by **3 thematic experts**
 - Focusing on answering the evaluation questions
 - Independently documenting an evidence base
 - An independent study to be published by mid-2018

- **Commission** to bring together the work of the contractor, EC services and results of the public consultation in Commission Staff Working Document for publication by end 2018



Effectiveness



Some preliminary Stakeholder consultation messages

The legislation has helped increase safety and quality (Blood – 90%; Tissues and Cells – 99%)

But several provisions are not adequate or missing:

- Donor safety (donor reactions and donor follow-up, including long term)
- Clinical outcomes (post-transplant/transfusion/ART) – control of access to stem cell therapies of unproven efficacy – stem cell tourism
- Impact on supply/sufficiency (plasma, corneas)
- Voluntary Unpaid Donation (VUD) – unclear and varying interpretation – challenge when SoHO used for commercial manufacture of medicines
- Unclear Vigilance definitions and requirements – **particularly for denominator reporting**
- Value of professional standards, certification and training not reflected
- SEC implementation challenging – exemptions implemented differently in MS
- Need for specialist training of inspectors



Relevance



Some preliminary Stakeholder consultation messages

The legislation is not adaptable enough to manage risks and changes, such as:

- technological/ scientific
- epidemiological (WNV, Malaria, Zika, etc.)
- societal e.g. ageing, travel, migration

In particular, it is lacking in:

- procedures to keep legislation up to date
- provisions for the authorisation of novel/experimental treatments (increasing complexity of manipulation requires more specific requirements)
- clarity of scope (new SoHO, stakeholders, activities)
- provisions addressing specificities of subsectors (plasma, ART, HSC etc.)
- involvement of experts (EDQM, ECDC, professional societies, etc.)

While in some cases it is considered too specific:

- equivalent safety/quality can be achieved in different ways – cross reference professional standards



Efficiency



Some preliminary Stakeholder consultation messages

The legislation led to higher costs but it also brought benefits that justified the costs (Blood - 80%, Tissues and Cells - 88%)

Specific cost issues raised in relation to:

- smaller blood and tissue establishments that face higher costs
- GMP and air quality requirements [Tissues and Cells]
- Burdensome oversight rules (e.g., inspection planning/frequency, import requirements)

Insufficient attention is given to:

- assessing cost effectiveness of safety measures [Blood]
- re-evaluating technical criteria to ensure balance between safety and costs (e.g. testing, donor selection)



Coherence



Some preliminary Stakeholder consultation messages

The legislation within its own provisions is generally coherent. Incoherencies with other relevant EU legislation highlighted:

Borderlines and definitions (Medical Devices, Medicinal Products)

- Some SoHO fall under different legislations across Member States
- Classification mechanisms not adequate
- Some non-homologous ATMP are identical to T&C, same Safety & Quality standards should apply. T&C legislation the most appropriate
- Incoherence with Organ Directive for donor protection and VUD
- Communication between the sectors not optimal (e.g. for vigilance)
- No harmonisation of inspection requirements under different legislations
- Link to legislation on communicable diseases and role of ECDC
- EU charter of human rights and commercialisation (VUD and non-profit)
- Global standards needed for global distribution of HSC



EU Added Value



Some preliminary Stakeholder consultation messages

The legislation has helped increase safety and quality, harmonisation and confidence

Blood - 74% and Tissues and Cells - 64% of organisations believe that:

- **this could not have been achieved at national level, or**
- **might have happened but EU legislation sped up the process**

80% of the individual citizens that responded believe that the same results could not have been achieved without EU action.

- However, some say that certain sectors were already well organised therefore limited value for those sectors (particularly HSC).
- EU Added Value limited by more stringent national requirements and by national limits placed on donor recruitment.



20/09/20
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Timeline

Key elements	Estimated timing
Roadmap consultation	Q1 2017
Public consultation	Q3 2017
Publication of submissions summary results	Q2 2018
External contract (Desk-based research focus groups, interviews, targeted survey)	Q2 2017 – Q3 2018
Commission evaluation report	Q4 2018

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https://ec.europa.eu/health/blood_tissues_organs/policy/evaluation_en

Follow the Evaluation process here!

LIST OF ATTENDING EXPERTS

List of the participants

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ACRONYMS

CD-P-TO	European Committee on Organ Transplantation (EDQM, Council of Europe)
CNT	Italian Centro Nazionale Trapianti (Italy)
EATB	European Association of Tissue Banks
EBA	European Blood Alliance
EBMT	European Society for Blood and Marrow Transplantation
EC	European Commission
EDQM	European Directorate for the Quality of Medicines & HealthCare
EEBA	European Eye Banking Association
ESHRE	European Society for Human Reproduction and Embryology
EU	European Union
GODT	Global Observatory on Organ Donation and Transplantation (WHO)
HTA	Health Technology Assessment
ONT	National Transplant Organisation (Spain)
SARE	Serious Adverse Events and Reactions
VES	EU Vigilance Expert Subgroup
WHO	World Health Organization
WMDA	World Marrow Donor Association