



The NOTIFY project - a general overview

Update October 2024



Centro Nazionale Trapianti
Italian National Transplant Centre



WHO Collaborating Centre
on Vigilance and Surveillance for
Human Cells, Tissues and Organs

WORLD HEALTH ASSEMBLY RESOLUTION WHO 63.22

Resolution 63.22 of the World Health Assembly was adopted in 2010 and gave WHO a mandate to **facilitate Member State access to appropriate informations** on donation, processing and transplantation of tissues, cells and organs, including data about serious adverse events and reactions.

NOTIFY PROJECT



**Sharing vigilance experience and
knowledge globally
- the NOTIFY Project (WHO)**

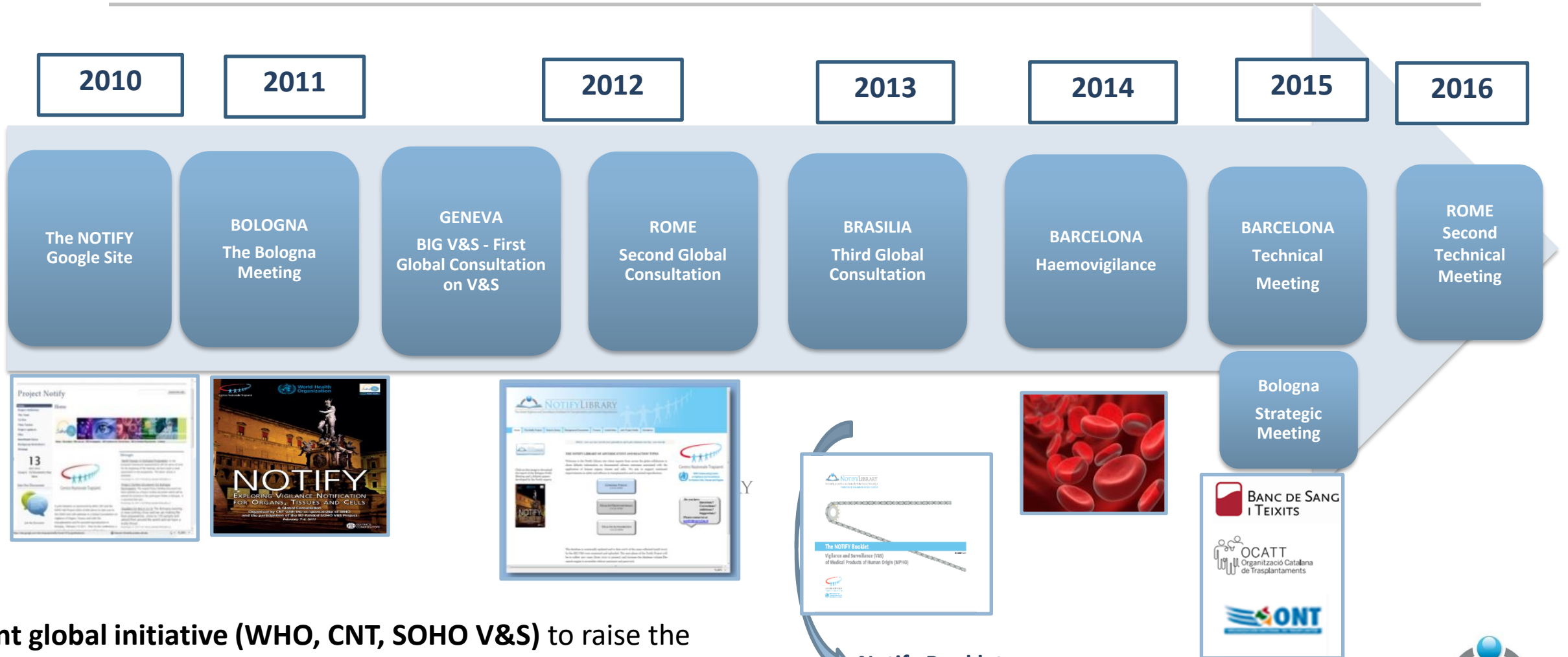
NOTIFY PROJECT: AIMS

To provide professionals with relevant information helpful for determining the suitability of a potential donor.

To draft common guidelines supporting the implementation of effective vigilance and surveillance

To provide practical support to countries that are developing vigilance systems for Medical Products of Human Origin (MPHO)

NOTIFY – Timeline

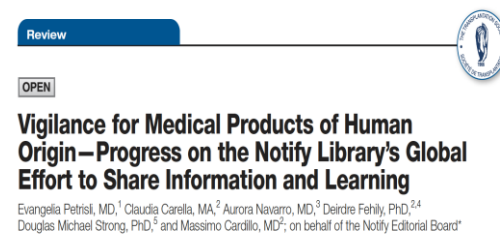
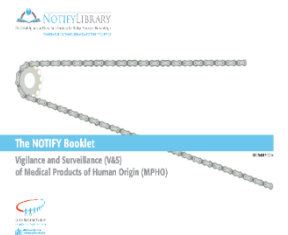


Joint global initiative (WHO, CNT, SOHO V&S) to raise the profile of V&S of SOHO. Adoption of Resolution 63.22 by the World Health Assembly

NOTIFY – HISTORY

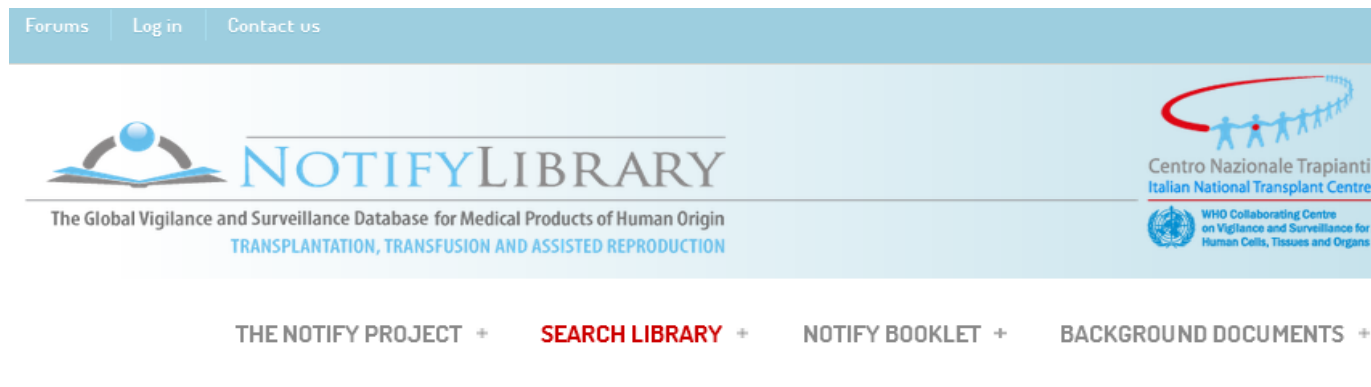


**Update Booklet II
edition**



<http://www.notifylibrary.org>

Communication hub for institutions and organisations worldwide collaborating in the facilitation of access to V&S information



The screenshot shows the top navigation bar with links for "Forums", "Log in", and "Contact us". Below this is the main header area containing the NOTIFYLIBRARY logo, which includes a stylized book icon and the text "NOTIFYLIBRARY". Underneath the logo is the tagline "The Global Vigilance and Surveillance Database for Medical Products of Human Origin" and the subtitle "TRANSPLANTATION, TRANSFUSION AND ASSISTED REPRODUCTION". To the right of the logo is the logo for the "Centro Nazionale Trapianti Italian National Transplant Centre" and the "WHO Collaborating Centre on Vigilance and Surveillance for Human Cells, Tissues and Organs". Below the header is a navigation menu with the following items: "THE NOTIFY PROJECT +", "SEARCH LIBRARY +", "NOTIFY BOOKLET +", and "BACKGROUND DOCUMENTS +".

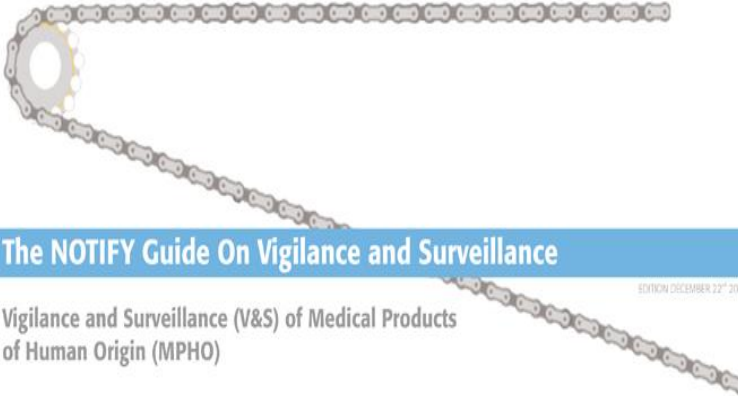
Welcome to the [NOTIFY Library](#) site where experts from across the globe collaborate to share didactic information on documented adverse outcomes associated with the clinical use of human organs, blood, tissues and cells. The data presented on the Notify Library site should be seen in the context of impressive success stories in transplantation, transfusion and assisted reproduction across the world.



NOTIFY BOOKLET

Download Booklet.pdf **NEW**

Booklet 2018



The NOTIFY Guide On Vigilance and Surveillance

Vigilance and Surveillance (V&S) of Medical Products of Human Origin (MPHO)

EDITION DECEMBER 22nd 2018

- 1 INTRODUCTION
- 2 THE V&S CHAIN FOR MPHOs
- 3 VIGILANCE AND SURVEILLANCE - HISTORY AND BASIC ELEMENTS
- 4 MEDICAL PRODUCTS OF HUMAN ORIGIN (MPHO) - DONATION AND ETHICS
- 5 TOWARDS A GLOBAL GOVERNANCE OF MPHO
- 6 THE V&S SYSTEM IS PRIMARILY A RESPONSIBILITY FOR HEALTH AUTHORITIES
- 7 ORGANIZATION FOR A COMPREHENSIVE - VIGILANCE & SURVEILLANCE SYSTEM
- 8 VIGILANCE & SURVEILLANCE - RECOGNITION RELIES ON HEALTH CARE STAFF
- 9 INVESTIGATING OCCURRENCES THAT COULD CAUSE HARM - LEARNING FROM ERRORS
- 10 PROJECT NOTIFY

Forums | Log in | Contact us | Policy



The Global Vigilance and Surveillance Database for Medical Products of Human Origin
TRANSPLANTATION, TRANSFUSION AND ASSISTED REPRODUCTION

Centro Nazionale Trapianti
Italian National Transplant Centre

WHO Collaborating Centre
on Vigilance and Surveillance for
Human Cells, Tissues and Organs

THE NOTIFY PROJECT + **SEARCH LIBRARY** + **NOTIFY BOOKLET** + BACKGROUND DOCUMENTS

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 Ask our experts for advice on vigilance and surveillance

 Inform us of a case/reference for the Library

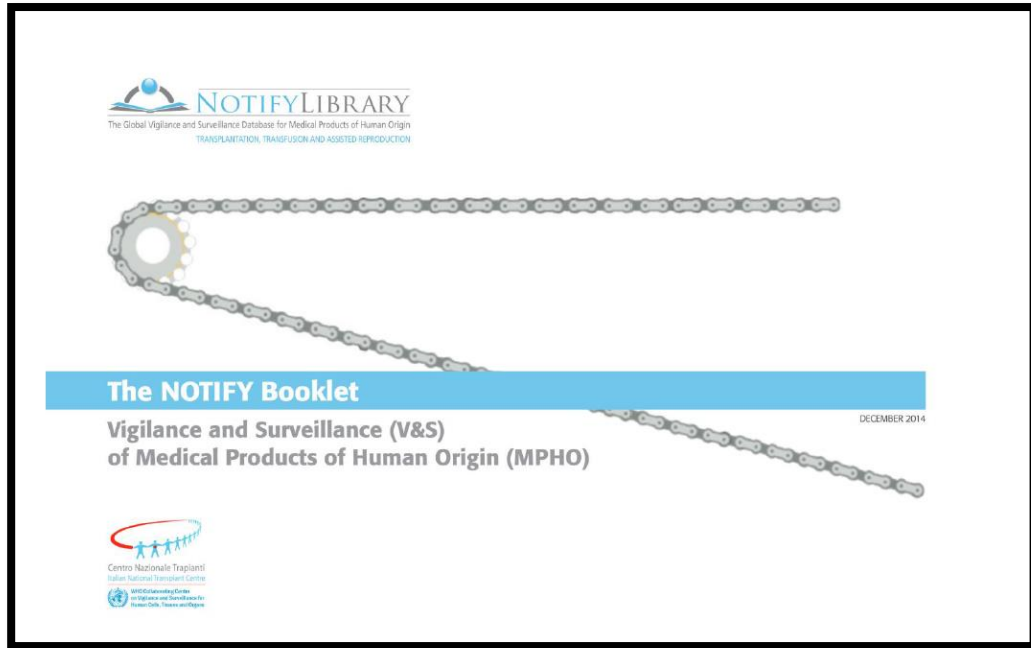


Second Nationwide Tuberculosis Outbreak Caused by Bone allografts containing live cells – US, 2023

Tuberculosis (TB) outbreaks associated with tissue transplantation are rare; one outbreak involving 113 patients occurred after surgical implantation of contaminated bone allografts in 2021. This second outbreak of bone allograft-related TB underscores the need to adopt additional preventive measures to protect patients from tissue-transmitted diseases.

NOTIFY Booklet

I edition



II edition - 2018



BACKGROUND DOCUMENTS

VIGILANCE GUIDANCE DOCUMENTS

- Council of Europe - European directorate for the quality of Medicine and HealthCare (EDQM), European Centre for Disease Prevention and Control (ECDC), International Haemovigilance Network (IHN), International Society of Blood Transfusion (ISBT), ecc

VIGILANCE AND SURVEILLANCE REPORTS

- European Union Annual Vigilance Reports, American Association of Blood Banks (AABB), Food and Drug Administration (FDA), Human Fertilisation and Embryology Authority (HFEA), Transfusion and Transplantation Reactions in Patients (TRIP), World Marrow Donors Association (WMDA), ecc

WORLD HEALTH ORGANISATION (WHO) AND WORLD HEALTH ASSEMBLY (WHA)

- WHO Guiding Principles on Transplantation, WHO Aide Memoire for National Health Authorities on Safety and Quality of T&C, WHO Consultation Report - Tissues and Cells., WHA Resolution 63.22.2010

RECOMMENDATION FOR EPIDEMIC DISEASE OCCURRENCE

- Zika Virus (archived)
- SARS-CoV-2
- Monkeypox Virus (MPXV)

Forums | Log in | Contact us | Policy

 **NOTIFY LIBRARY**
The Global Vigilance and Surveillance Database for Medical Products of Human Origin
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 **Second Nationwide Tuberculosis Outbreak Caused by Bone allografts containing live cells - US, 2023**

Tuberculosis (TB) outbreaks associated with tissue transplantation are rare; one outbreak involving 113 patients occurred after surgical implantation of contaminated bone allografts in 2021. This second outbreak of bone allograft-related TB underscores the need to adopt additional preventive measures to protect patients from tissue-transmitted diseases.

NOTIFY LIBRARY

The NOTIFY Library

- publically accessible online database of didactic cases of severe adverse reactions and events
- from procurement and processing to clinical application of blood, organs, tissues and cells used in transfusion, transplantation and assisted reproduction
- collected and analyzed by **5 dedicated editorial groups** of international experts, regulators and clinicians and linked to their source reference:
 - literature review (published articles in scientific journals and/or books)
 - case reports from regulatory or professional vigilance programs (grey literature)



The screenshot shows the NOTIFY Library website homepage. At the top, there are navigation links for 'Forums', 'Log in', 'Contact us', and 'Policy'. The main header features the NOTIFY LIBRARY logo, which includes a stylized book icon, and the text 'NOTIFY LIBRARY' in large blue letters. Below the logo, it states 'The Global Vigilance and Surveillance Database for Medical Products of Human Origin' and 'TRANSPLANTATION, TRANSFUSION AND ASSISTED REPRODUCTION'. To the right of the logo is the logo for the 'Centro Nazionale Trapianti Italian National Transplant Centre' and the 'WHO Collaborating Centre on Vigilance and Surveillance for Human Cells, Tissues and Organs'. A navigation bar below the header contains links for 'THE NOTIFY PROJECT', 'SEARCH LIBRARY' (which is circled in red), 'NOTIFY BOOKLET', and 'BACKGROUND DOCUMENTS'. The main content area features a welcome message: 'Welcome to the NOTIFY Library site where experts from across the globe collaborate to share didactic information on documented adverse outcomes associated with the clinical use of human organs, blood, tissues and cells. The data presented on the Notify Library site should be seen in the context of impressive success stories in transplantation, transfusion and assisted reproduction across the world.' Below this message are two buttons: 'Ask our experts for advice on vigilance and surveillance' (with a question mark icon) and 'Inform us of a case/reference for the Library' (with a lightbulb icon). At the bottom, there is a featured article titled 'Second Nationwide Tuberculosis Outbreak Caused by Bone allografts containing live cells – US, 2023' with a red and white image of bacteria. The article text reads: 'Tuberculosis (TB) outbreaks associated with tissue transplantation are rare; one outbreak involving 113 patients occurred after surgical implantation of contaminated bone allografts in 2021. This second outbreak of bone allograft-related TB underscores the need to adopt additional preventive measures to protect patients from tissue-transmitted diseases.'

REFERENCE SOURCES

Literature review
Query based automated
bibliographic search
(Ovid, Google Scholar)

Individual notifications
(Editorial group members,
other health professionals)

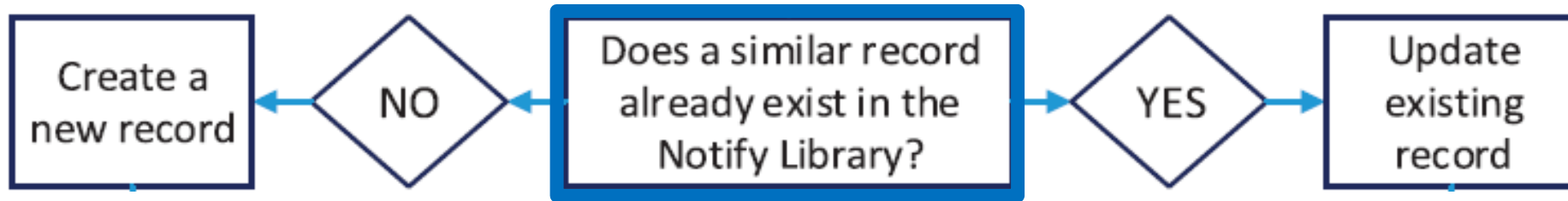
Grey literature
Reports from partner
organizations (Competent
Authorities, professional
associations)



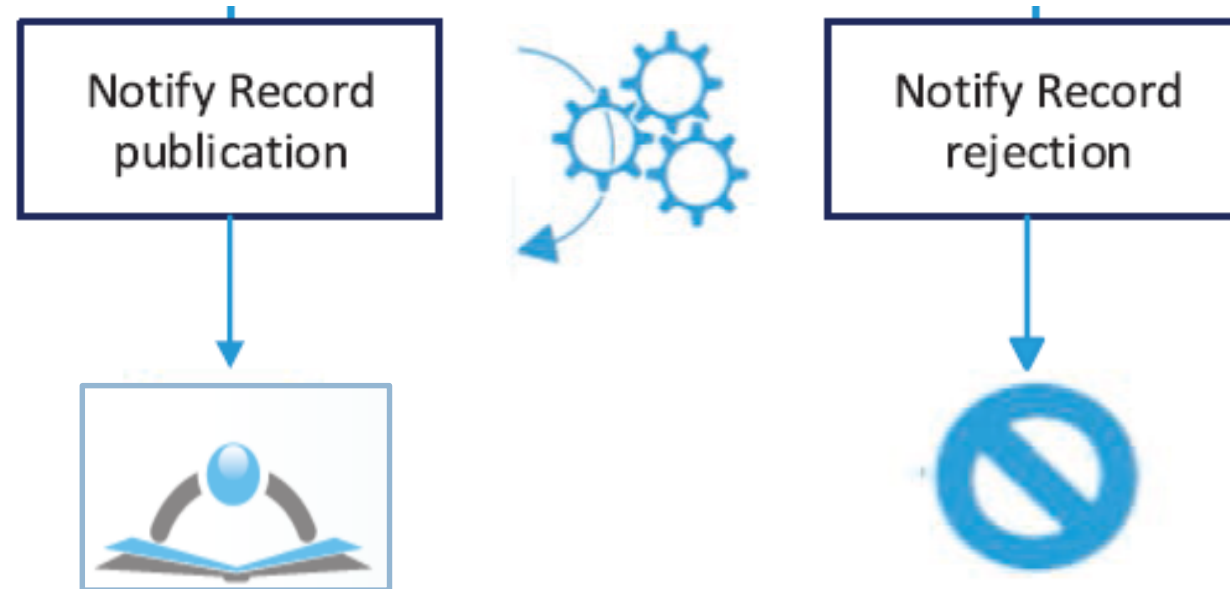
Inclusion criteria

1. It describes an adverse occurrence that has caused **harm** to a donor or a recipient of an MPHO or to a fetus or embryo created through gamete or embryo donation or an adverse occurrence that has presented a **risk of harm**;
2. It is **reliably documented** in the scientific, clinical, or legal literature or in a formal professional or regulatory vigilance program;
3. It has **instructive value**.

WORKING METHODOLOGY



EG case evaluation process



NOTIFY LIBRARY: SEARCH PAGE

Adverse occurrence search

Adverse occurrence type

(Expand all) (Clear)

Harm to a Recipient

Harm to a Donor

Harm to a Fetus or Offspring

Risk of harm

Medical Products of Human Origin type - MPH0

(Expand all) (Clear)

Organs

Blood

Cells

Tissues

Reproductive

Derived medicinal products

Other

**FREE
SEARCH**

Keywords

(Searches keywords identified by the Notify editors)

Free text

(Searches the text in the database cases and includes alerting signals, imputability and keywords)

Notify Library Record ID

(Searches by Notify Library Record ID, for multiple records separated by commas)

Limit results 100 per page

SEARCH

Reset

Print/Save selected items

New search

NOTIFY LIBRARY SEARCH RESULTS (1)

Search criteria:

Adverse occurrence:

Risk of harm >> Other

Medical Product of Human Origin type - MPH0:

Organs >> Kidney

Notify Library Record ID:

1685

[4596] Fritsch, L.; Budde, K.; Rogalla, P.; Turk, I.; Neumayer, H.H.; Loening, S.A.
[Successful living related kidney transplantation despite renal angiomyolipoma in situ 1999; 162 \(2\)](#)

<input type="checkbox"/> Record ID	Adverse occurrence	
<input type="checkbox"/> 1685	<p>Adverse occurrence description: Single case report: Renal Angiomyolipoma</p> <p>Adverse occurrence type: Risk of harm => Other</p> <p>MPHO type: Organs => Kidney</p> <p>Time to detection: Known at transplant. 1 cm mass found in living donor kidney (mother) during evaluation but not resectable due to central location. After a nine months observation period to decrease risk of an underlying malignancy, decision to proceed with transplant was made. Inspection after cold perfusion still revealed no good possibility for ex vivo excision, kidney was implanted without further manipulation. Immediate functioning, recovery without complications. Followup imaging showed no growth with 18 month followup.</p> <p>Alerting signals, symptoms, evidence of occurrence: Detected pre-transplant in donor by ultrasound. No complications in recipient.</p> <p>Estimated frequency: Not discussed in European Council Guidelines. Frequency estimated at 1-3% of population (Wallace M.J, Wallace S. Renal angiomyolipoma. In: Adam A, Dondelinger RF, Mueller PR, eds. Interventional Radiology in Cancer. New York: Springer-Verlag; 2004:204).</p> <p>Demonstration of Imputability or Root cause: Identification in donor kidney prior to transplant.</p> <p>Imputability grade: 3 Definite/Certain/Proven</p> <p>Expert comments for publication: Angiomyolipoma is considered to be a benign tumor curative by resection. Reports of metastatic spread are rare and controversial; the question of metastases versus multicentricity is not conclusively resolved. However, rare highly atypical angiomyolipomas (highly pleomorphic, necrosis, mitotic activity on histologic examination) raise concern for atypical behavior. The authors note in the current report that a large study (Steiner MS et al., J Urol 150:1782, 1993) showed asymptomatic course for angiomyolipomas <4 cm. In followup discussion of this report (in J Urol 163; 924, 2000) the authors state that they were aware of "at least two other cases of rejection of a kidney allograft with angiomyolipoma" but considered that to be coincidental and noted a more likely risk of bleeding from the tumor which should be considered during decision making. It is estimated that 80% of angiomyolipomas are sporadic and 20% are associated with tuberous sclerosis (Steiner MS, et al. The natural history of renal angiomyolipoma. J Urol. 1993;150:1782-1786). Although considered a benign tumor, uncommon variants exist that are capable of aggressive or malignant behavior (reviewed in https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5644357/)</p> <p>Keywords:</p> <p>angiomyolipoma kidney kidney transplant known in donor malignancy case report living donor</p>	1 reference

NOTIFY LIBRARY SEARCH RESULTS (2)

SEARCH

Reset

Print/Save selected items

Save XLS selected items

Save XLS all items

New search

2061

Adverse occurrence description: Ureaplasma

Adverse occurrence type: Harm to a Recipient => Infection => Bacterial => Ureaplasma

MPHO type: Organs => Lung

Time to detection: Detection of symptoms occurs within 1-3 days of transplantation

Alerting signals, symptoms, evidence of occurrence: Lung infiltrates, systemic inflammatory response syndrome, altered mental status, hyperammonemia, death within 1-3 days of transplantation. Trend towards greater incidence of grade 3 primary graft dysfunction, acute renal failure, acute rejection and 60 day mortality. Two cases reported of bronchial dehiscence. 100% mortality unless treated with antibiotics (macrolide plus doxycycline or quinolone) although antimicrobial therapy may not be 100% protective. Requires two antibiotics due to risk of resistance.

Estimated frequency: Recognition of Ureaplasma urealyticum as a cause of fatal hyperammonemia in lung recipients within days of transplantation has been reported since 2015. Two subsequent papers reporting donor testing of infected recipients compared to noninfected recipients indicated that all cases of fatal hyperammonemia and Ureaplasma infection occurred in donors and recipients who screened BAL (bronchoalveolar lavage) positive for Ureaplasma, while no cases were found from donors and recipients who screened negative. There is no available estimated frequency, but a paper by Fernandez et al of 29 lung recipients of 28 donors screened all donors for Ureaplasma. 4 donors were positive for Ureaplasma (14%), and their lung recipients all developed hyperammonemia, lung infiltrates and systemic inflammatory response syndrome requiring vasopressors (Fernandez R, Chi M, Ison et al. Am J of Resp and Critical Care Medicine 2017, 195(5)). The literature in this area is limited, but based on this study, indicates a significant transmission frequency (14%).

Demonstration of Imputability or Root cause: Data is based on two reports - one report (Fernandez et al. listed above) of 4 lung donors who tested positive for Ureaplasma (culture/PCR) with pretransplant Ureaplasma negative recipients all resulting in recipients who became Ureaplasma culture/PCR positive and symptomatic. A second paper (also Fernandez et al. J of thoracic surgery 2017) reported on another case of probable donor-derived Ureaplasma parvum (pre-implantation BAL culture and PCR positive; tested retrospectively); the recipient had a negative pretransplant BAL followed by post transplant BAL culture and PCR positivity for Ureaplasma parvum, with clinical and radiological response to dual azithromycin and doxycycline.

Imputability grade: 3 Definite/Certain/Proven

Expert comments for publication: This is an important and relatively newly recognized donor derived infection, particularly in lung recipients; consideration might be given to screening of donor lung BAL and post-transplant recipient testing. Sexually active donors with aspiration pneumonia may represent a risk for Ureaplasma presence in the lower respiratory tract but this is based on the observations from these few reported cases. Ureaplasma infection of the genito-urinary tract is common but it is not part of the normal respiratory tract flora; risk factors for its presence in donor lungs and associated mortality warrant the need for future studies to investigate the optimal strategies for Ureaplasma detection, prophylaxis and treatment. The papers included in this record discuss these issues.

Keywords:

Ureaplasma urealyticum

Ureaplasma parvum

ureaplasma

hyperammonemia

systemic inflammatory response

lung infiltrates

SOT (solid organ transplantation)

lung

lung transplant

3 references

[4862] Fernandez, R.; Chi, M.; Ison, M.G.; Waites, K.B.; Crabb, D.M.; Ratliff, A.E.; Cajigas, H.; DeCamp, M.M.; Odell, D.; Budinger, G.R.; Bharat, A.

[Sequelae of Donor-derived Mollicutes Transmission in Lung Recipients 2017; 195 \(5\) :7](#)

[4861] Fernandez, R.; Ratliff, A.; Crabb, D.; Waites, K.B.; Bharat, A. [Ureaplasma Transmitted From Donor Lungs Is Pathogenic After Lung Transplantation 2017; 103 \(2\)](#)

[4863] Bharat, A.; Budinger, G.R.; Scott, Ison, M.G. [Donor-derived ureaplasma is a potentially lethal infection in lung allograft recipients 2017; 36 \(8\) :7](#)

ADVERSE OCCURRENCE TYPE TAXONOMY (extract)

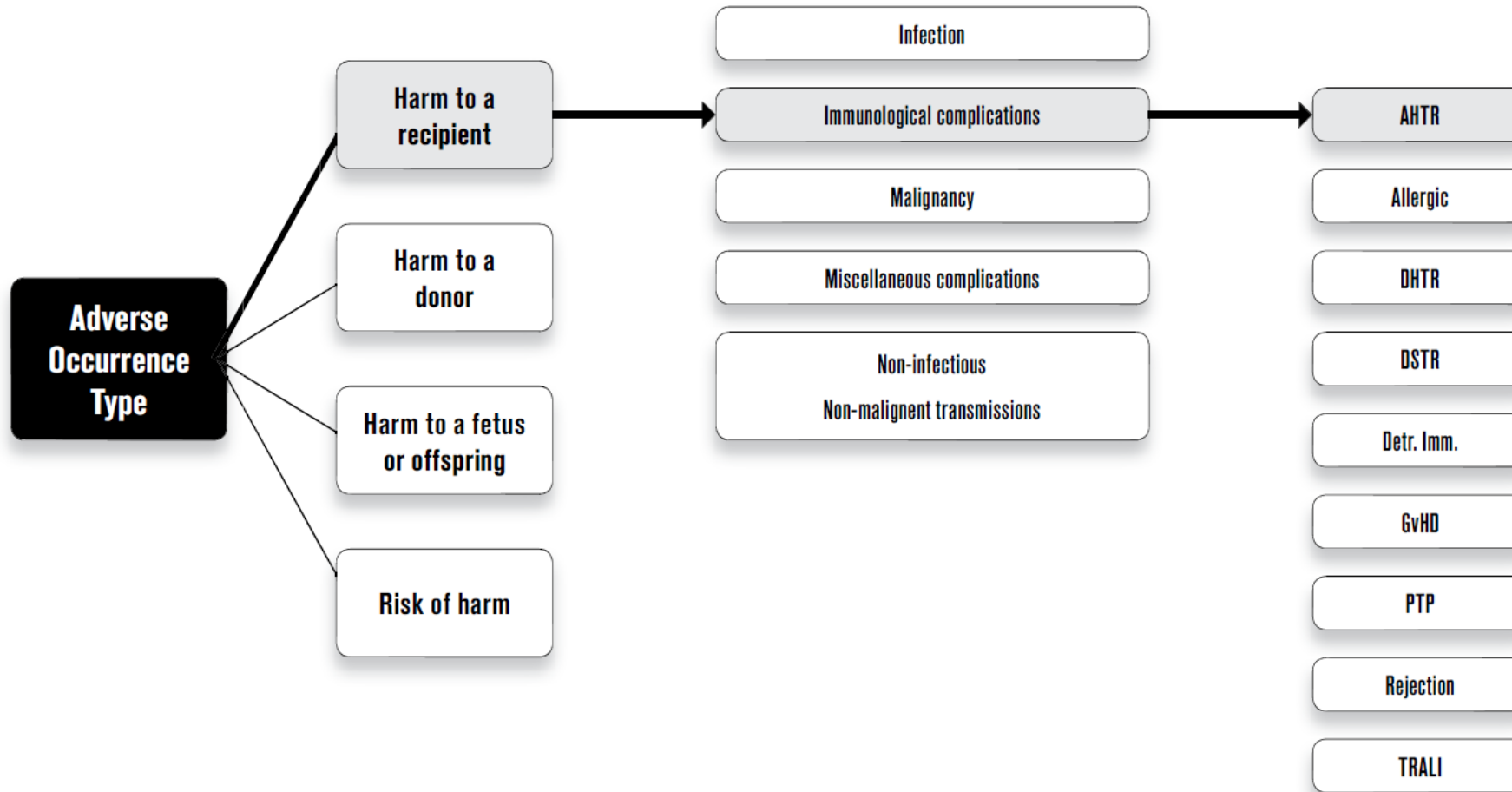
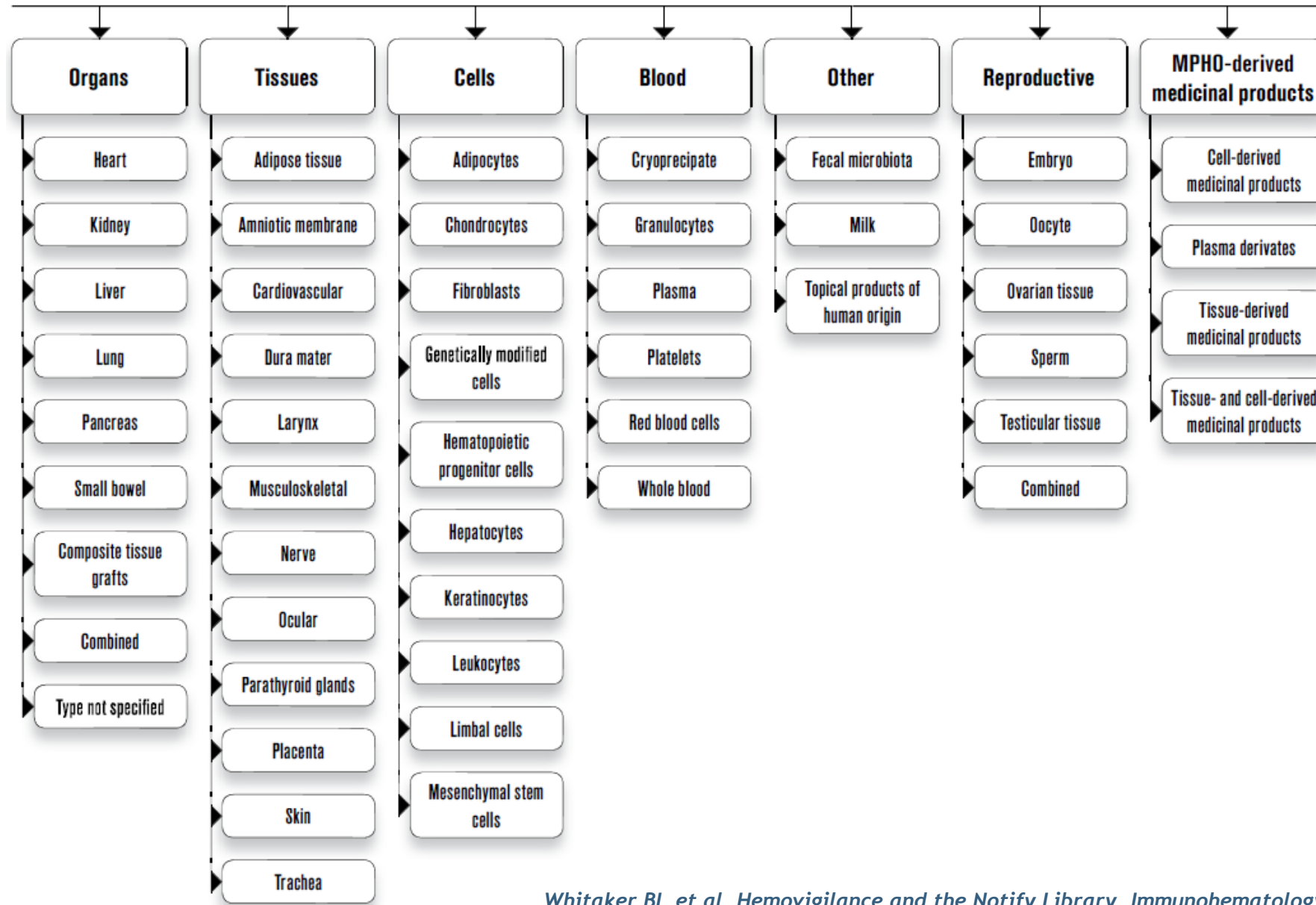
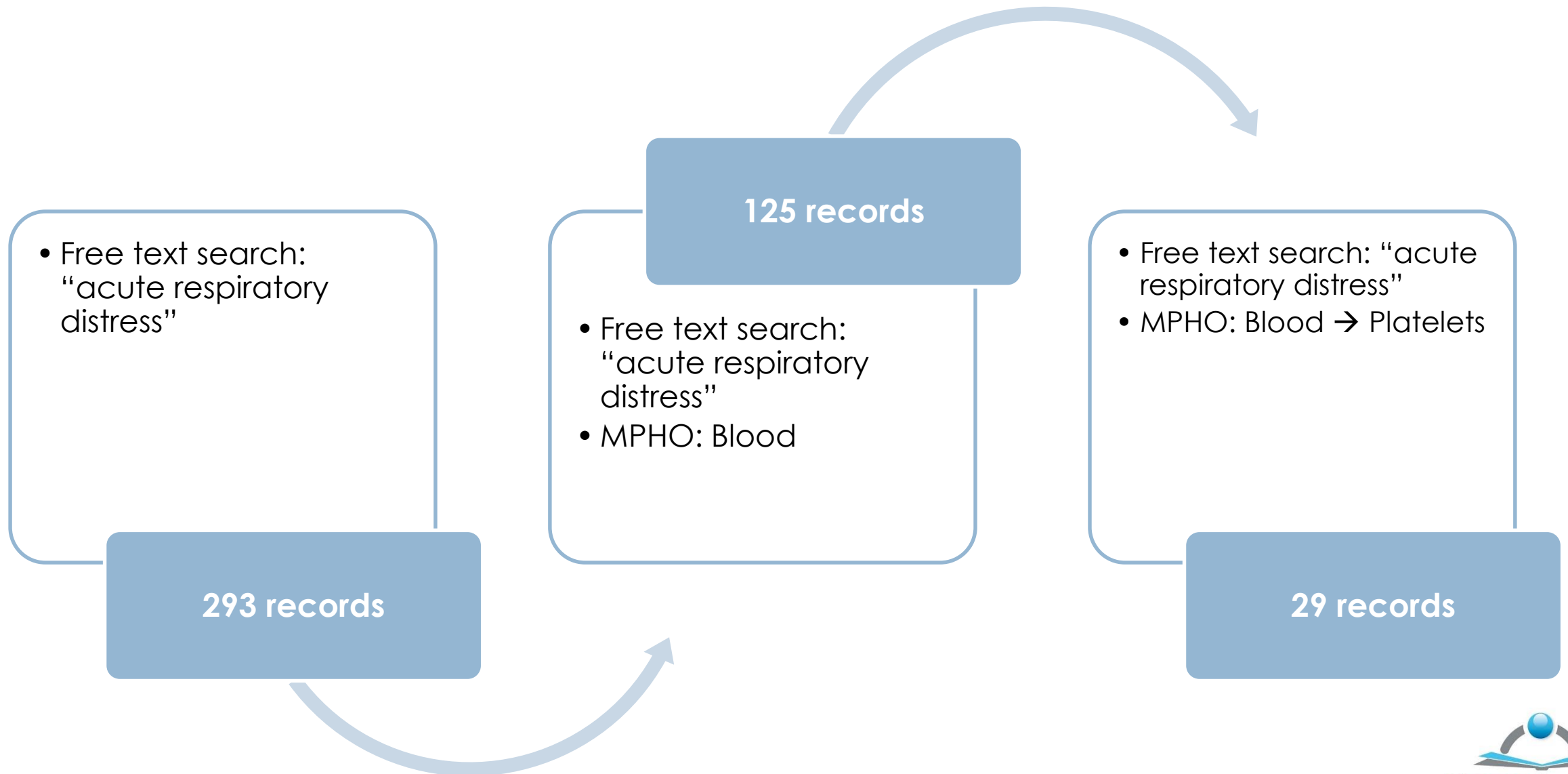


Fig. 1 Adverse occurrence type taxonomy (extract). AHTR = acute hemolytic transfusion reaction; DHTR = delayed hemolytic transfusion reaction; DSTR = delayed serologic transfusion reaction; Detr. Imm. = detrimental immunization; GvHD = graft-versus-host disease; PTP = post-transfusion purpura; TRALI = transfusion-related acute lung injury.

MPHO TAXONOMY



FREE TEXT VS STRUCTURED DATABASE SEARCH EXAMPLE



IMPUTABILITY TABLE

TABLE 1.

Imputability table used for the assessment of cause and effect for each Notify record

Imputability Grade	Criteria for infectious and malignant transmissions adapted from DTAC ^a	Adapted from EUSTITE—SOHO V&S ^b and proposed standard definitions for surveillance of noninfectious adverse transfusion reactions ¹⁰	Adapted from EUSTITE—SOHO V&S in assisted reproductive technologies ⁹
Not assessable	Insufficient data for imputability assessment	Insufficient data for imputability assessment	Insufficient data for imputability assessment
Excluded	Suspected transmission and fulfillment of at least one of the following conditions: - Clear evidence of an alternative cause. - The appropriate diagnostic tests performed have failed to document infection by the same pathogen in any recipient from the same donor. Laboratory evidence that the recipient was infected with the same pathogen or had a tumor before the application of organs, tissues, or cells.	Conclusive evidence beyond a reasonable doubt that the adverse occurrence can be attributed to causes other than the transfusion of blood components or transplantation of tissues/cells	Conclusive evidence beyond reasonable doubt for attributing to alternative causes than the ART process
Possible	Suspected transmission and: - Laboratory evidence of the pathogen or tumor in a single recipient, <i>or</i> Suspected transmission and: - Laboratory evidence of the pathogen or tumor in a single recipient <i>or</i> - Data suggest a transmission but are insufficient to confirm it.	The evidence is indeterminate for attributing the adverse occurrence either to the quality/safety of tissues/cells/blood components (for recipients), to the donation process (for donors), or to alternative causes	Evidence is indeterminate
Likely/probable	The following 2 conditions are met: - Suspected transmission. - Laboratory evidence of the pathogen or the tumor in a recipient. And it meets at least one of the following conditions: - Laboratory evidence of the same pathogen or tumor in other recipients. - Laboratory evidence of the same pathogen or tumor in the donor. If there is pretransplant laboratory evidence, such evidence must indicate that the same recipient was negative for the pathogen involved before transplantation.	The evidence is clearly in favor of attributing the adverse occurrence to the quality/safety of tissues/cells/blood components (for recipients) or to the donation process (for donors)	The evidence is in favor of attributing to the ART process
Definite/certain; proven	All the following conditions are met: - Suspected transmission. - Laboratory evidence of the pathogen or the tumor in a recipient. - Laboratory evidence of the same pathogen or tumor in other recipients (if multiple recipients). - Laboratory evidence of the same pathogen or tumor in the donor. - If there is pretransplant laboratory evidence, then it should be noted that the same recipient was negative for the pathogen before transplantation.	The evidence is conclusive beyond reasonable doubt for attributing the adverse occurrence to the quality/safety of tissues/cells/blood components (for recipients) or to the donation process (for donors)	Conclusive evidence beyond reasonable doubt for attributing to the ART process

ART, assisted reproduction technologies; DTAC, Disease Transmission Advisory Committee; EUSTITE, European Union Standards and Training for the Inspection of Tissue Establishments Project (GA 2005204); SOHO V&S, Vigilance and Surveillance of Substances of Human Origin Project (GA 20091110).

For each Record are described:

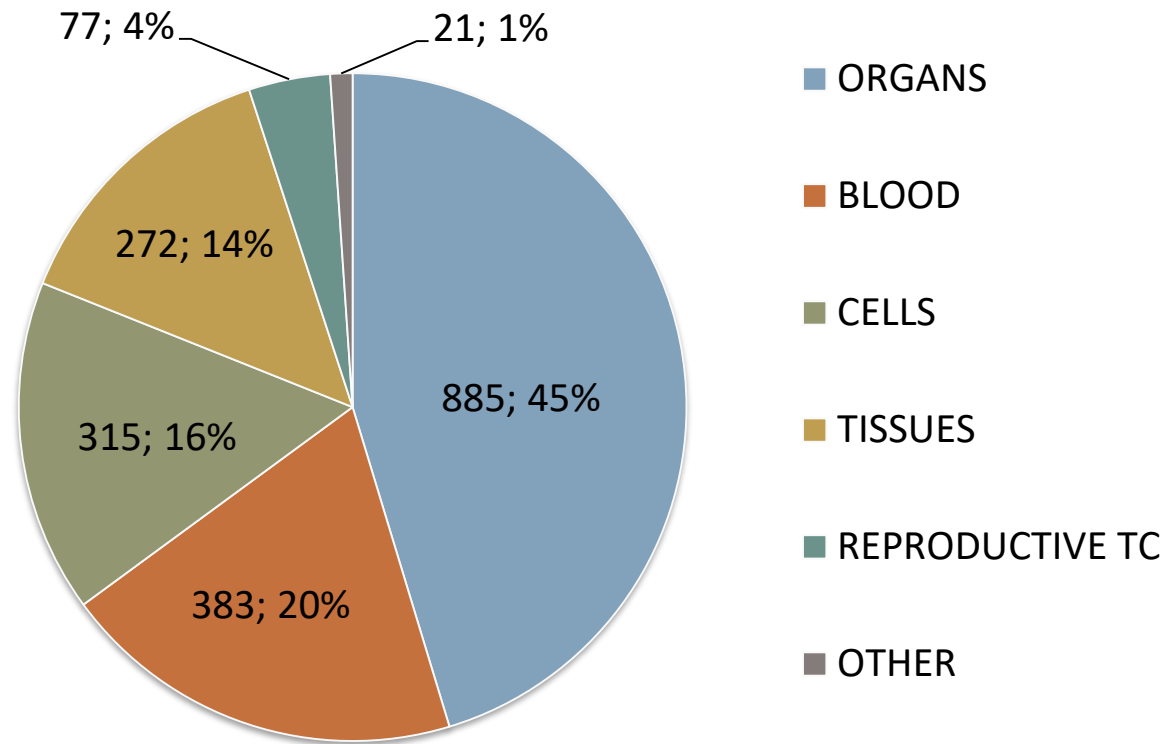
- Latency
- Estimated frequency
- Signs
- Symptoms
- How the adverse event was detected
- The method used to assess imputability

Based on the information in the reference or V&S report, imputability is categorized:

- Proven
- Probable
- Possible
- Unlikely
- Excluded

NOTIFY LIBRARY'S CONTENT BY MPHO TYPE

1,953 Notify records
2,860 references indexed

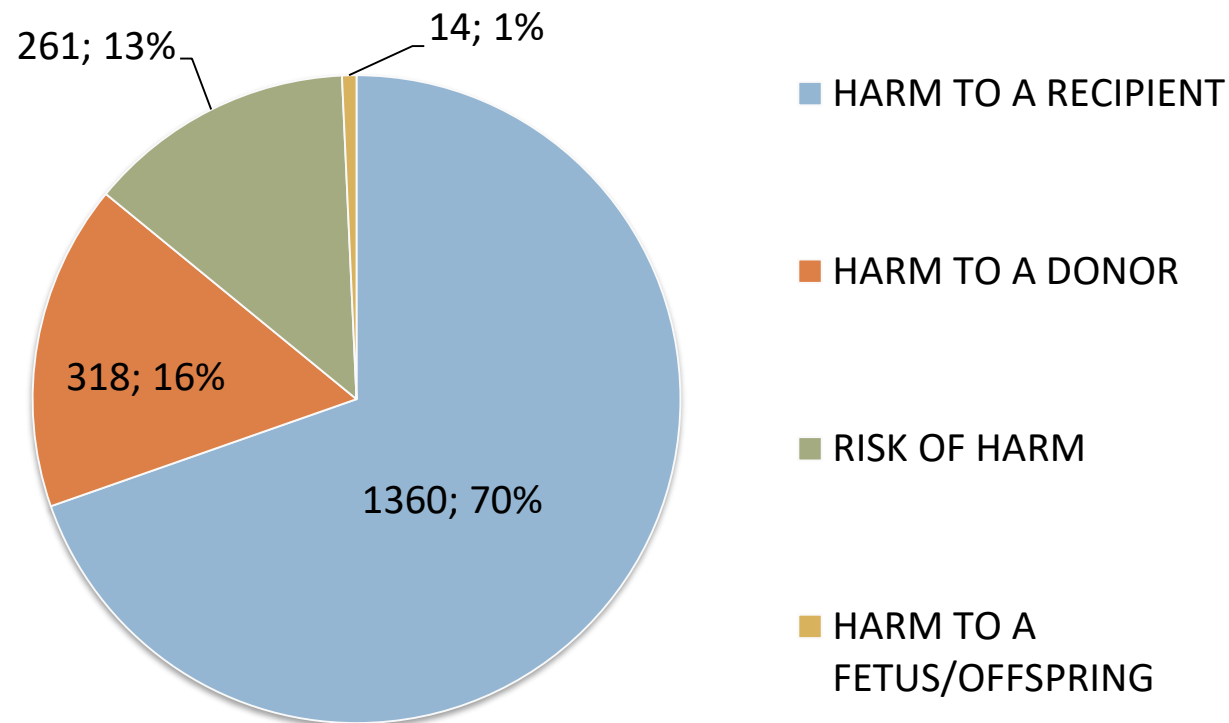


CONTENT ANALYSIS BY MPHO TYPE

ORGANS n. (%)	TISSUES n. (%)	BLOOD n. (%)	CELLS n. (%)	REPRODUCTIVE TC n. (%)	OTHER n. (%)
Kidney 371 (42%)	Musculoskeletal 117 (43%)	Red blood cells 213 (56%)	HPC 304 (96.5%)	Sperm 31 (41%)	Plasma derivates 14 (67%)
Liver 267 (30%)	Ocular 101 (37%)	Platelets 79 (21%)	T-lymphocytes 4 (1.3%)	Embryo 27 (36%)	Placenta 1 (4,5%)
Lung 80 (9%)	Cardiovascular 27 (10%)	Plasma 43 (11%)	Chondrocytes 2 (0.6%)	Oocyte 15 (20%)	Milk 5 (24%)
Heart 57 (6%)	Dura mater 11 (4%)	Whole blood 27 (7%)	Pancreatic Islets 2 (0.6%)	Ovarian tissue 2 (3%)	Topical products of human origin 1 (4,5%)
Multiple or type not specified 54 (6%)	Skin 10 (4%)	Type not specified 17 (4%)	Dendritic cells 1 (0.3%)	Combined 1 (1%)	
Combined 27 (3%)	Amniotic Membrane 3 (1%)	Granulocytes 4 (1%)	Mesenchymal stem cells 1 (0.3%)		
Pancreas 15 (2%)	Adipose tissue 2 (0.7%)		Olfactory mucosal cells 1 (0.3%)		
Composite tissue grafts 9 (1%)	Nerve 1 (0.3%)				
Small bowel 5 (1%)					
TOTAL	885 (45%)	383 (20%)	315 (16%)	77 (4%)	21 (2%)

NOTIFY LIBRARY'S CONTENT BY ADVERSE OCCURRENCE TYPE

1,953 Notify records
2,860 references indexed



HARM TO A RECIPIENT

Harm to a recipient (%)	Organs	Tissues	Blood	Cells	Reproductive TC	Other	Total
Infection transmission (47%)	341	129	116	36	9	5	636
Malignancy transmission (26%)	324	6	0	28	0	0	358
Immunological complications (15%)	20	7	153	14	2	11	207
Miscellaneous complications (8%)	4	20	55	34	0	1	114
Non infectious, non malignant transmission (4%)	13	0	6	26	0	0	45
Total	702	162	330	138	11	17	1360

HARM TO A DONOR

Harm to a donor	Organs	Tissues	Blood	Cells	Reproductive TC	Other	Total
Allergic reactions	0	0	3	1	0	0	4
Drug related reactions	0	0	0	50	2	0	52
Embolic complications	6	0	2	7	0	0	15
Excessive collection/removal	0	0	4	0	0	0	4
Infection	13	3	0	10	2	0	28
Malignancy	0	0	0	3	0	0	3
Toxicity	0	0	2	2	0	0	4
Miscellaneous complications	77	15	16	54	1	0	163
Vasovagal reactions	0	0	12	9	0	0	21
Other	6	0	3	14	1	0	24
Total	102	18	42	150	6	0	318

RISK OF HARM

Risk of harm	Organs	Tissues	Blood	Cells	Reproductive TC	Other	Total
Loss of a suitable MPHO	20	33	1	19	33	0	106
Mix-up	1	0	0	1	8	0	10
Unsuitable MPHO released for clinical use	6	51	3	3	5	4	72
Donor disease without transmission	48	3	0	1	0	0	52
Other	6	5	7	3	0	0	21
Total	81	92	11	27	46	4	261



Transplantation®

September 2021 - Volume 105 – Number 9

Jeremy Chapman [Donor-derived Disease—Who to Notify?](#) doi: 10.1097/TP.0000000000003590

Petrisli E; Carella C; Navarro A; Fehily D; Strong DM; Cardillo M; on behalf of the Notify Editorial Board. [Vigilance for Medical Products of Human Origin—Progress on the Notify Library’s Global Effort to Share Information and Learning](#), Transplantation: 2021;105(9):1921-1929 doi: 10.1097/TP.0000000000003589

NEW!!

Alteri A, Petrisli E, Nolan P, Pisaturo V, Fehily D, Navarro A, Strong DM, Cardillo M, Costa M. [Learning from incidents in medically assisted reproduction: the Notify Library as a learning tool](#). Reprod Biomed Online. 2021 Oct;43(4):581-585. doi: 10.1016/j.rbmo.2021.07.015. Epub 2021 Jul 28. PMID: 34465527.

Thank you for your attention

'The only source of knowledge is experience'

Albert Einstein

