# Introduction to Resolution WHA77.4 and the Plan for developing a Global Strategy on Donation and Transplantation of Human Cells, Tissues and Organs

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## Introduction

Transplantation is an established form of treatment for end-stage debilitating conditions mostly caused by noncommunicable diseases (NCD).

There are inequities in access to transplantation services across Member States

The WHA has issued a series of resolutions since 1987, including the adoption of the WHO guiding principles on human cell, tissue and organ transplantation. <u>Resolution WHA 63.22 (2010)</u> updated these <u>principles</u> and provided directions to Member States for their implementation.

Following WHO <u>report A75/41</u> that highlighted a slow progress, Member States agreed on the need for a new action, and therefore, the 77th WHA (2024), adopted <u>resolution 77.4</u>.

The new resolution calls upon Member States to enhance the availability, ethical access, and oversight of transplantation of human cells, tissues, and organs.

Furthermore, it requests the development of a "Global Strategy on the Donation and Transplantation of Human Cells, Tissues and Organs".



## **WHO Framework on Transplantation**

#### **Ethical and Operational framework**

- Respect for the dignity of donors **and** recipients
  - Voluntary Non-Remunerated Donation (VNRD)
  - autonomous, free, informed decisions
  - protection of vulnerable persons
  - privacy
- Equitable access to organ transplantation: avoiding discrimination
- Optimizing risk/benefit: safety, surveillance, reporting systems, data collection, registries

## World Health Organization

#### WHA 40.13 (1987)

 Development of guiding principles for human organ transplants

#### WHA 42.05 (1989)

Preventing the purchase and sale of human organs

#### WHA 44.25 (1991)

Human organ transplantation (WHO Guiding Principles)

#### WHA 57.18 (2004)

 Human organ and tissue transplantation (Allogeneic & Xenogeneic transplantation)

#### WHA 63.22 (2010)

 Human organ and tissue transplantation (updated WHO Guiding Principles)

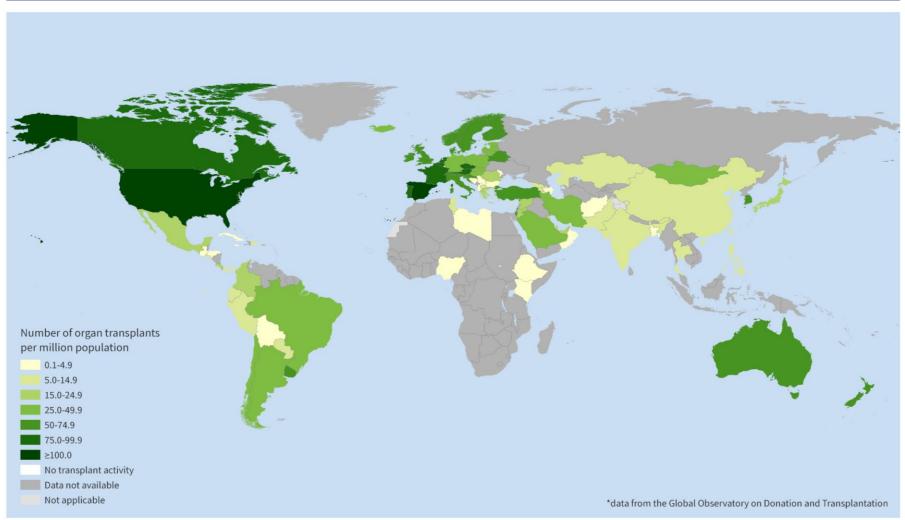








### Global transplantation activities of solid organs, 2022\*



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Data Source: Global Observatory on Donation and Transplantation
Map Production: WHO GIS Centre for Health, DNA/DDI

Map Creation Date: 04 September 2023



organ transplant operations

62% in high-income countries

28% in middle-income countries

only 1% in low-income countries

(White et al., 2014)

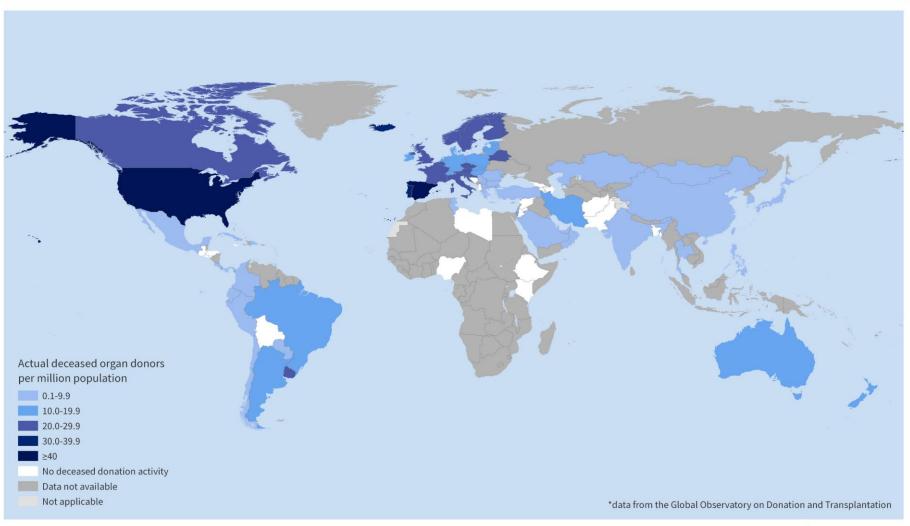








### Actual donors from deceased persons, 2022\*



Deceased organ donation activity reported only in 74 countries

(38% of WHO Member States)

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## Global activity in organ transplantation Estimations 2022

Kidney	Liver	Heart	Lung	Pancreas	S. bowel
102 090	37 436	8 988	6 784	2 026	170

≈ 157 494 solid organ transplants

≈ 9.1% increase vs 2021

≤ 10% of global needs

39 % living kidney transplants

24% living liver transplants

41 792 deceased donors (32 248 DBD and 9 544 DCD donors)\*



Reduced availability (no government support for policies or national strategies).

## 75th WHA (May 2022)

Secretariat Report A75/41

on current status of transplantation

Limited resources (funding, specialised workforce, infrastructure).

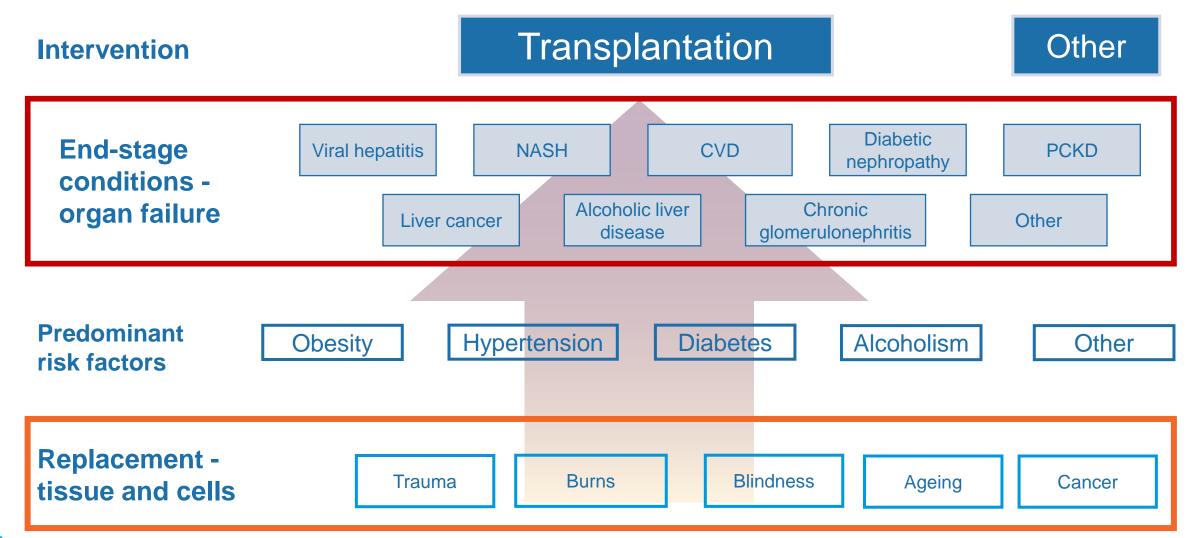
Deceased donation systems established only in 40% of MS, differences in rates and capacities.

Dependency only on live donors is not a sustainable option for some types of organs (i.e. heart) or for tissues.

Ethical breaches (organ trafficking, transplant tourism, tissue and cell commercialisation) as a result of no access/availability.



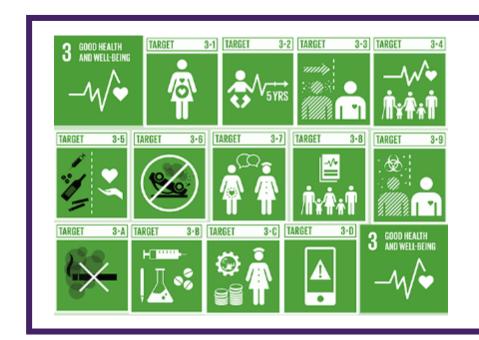
## **Increasing Conditions Relevant to Transplantation**





## Trends in Premature Mortality: Impact of Transplantation







**Target 3.4.** ↓ One-third from NCDs **Target 3.8.** Achieve UHC

*Means of implementation*: access to medicines, health financing and workforce



## Adoption of a new WHA Resolution 77.4 (2024)

Increasing availability, ethical access and oversight of transplantation of human cells, tissues and organs. Urges Member States to:

Implement / strengthen preventive strategies to reduce burden of diseases treatable with transplantation

Integrate transplantation into Universal Healthcare policies for non-communicable and other conditions

Protect living donors (consent, medicalpsychosocial evaluation, follow-up care) Increase the availability of cells-tissues-organs by maximizing deceased donation where appropriate

Establish official agreements for exchange of cells-tissue-organs or access to transplant services

Develop, implement and enforce legislative frameworks in line with WHO Guiding Principles

Designate authorities and improve governance of donation/transplantation activities

Authorize and control transplantation centres by data reporting, monitoring and periodic inspections Ensure safety and efficacy of transplantation by collecting outcome data, biovigilance and surveillance

Include donation/transplantation in National or Regional preparedness plans in the event of crisis

Take measures to prevent/combat trafficking and protect victims

Promote researchinnovation for alternative treatments based on cellstissues-organs Implement regulatory frameworks for innovative-advanced products based on cellstissues-organs



#### **Progress reports: WHA79**

- Implementation of resolution WHA77.4 (2024)
- Implementation of resolution WHA63.22 (2010)

#### **Data collection:**

 Analyse and make available global data on legislation, regulations, practices, safety, quality, effectiveness, epidemiology and ethics

#### **Capacity building & Guidance:**

- Strengthen regulatory capacity to effectively oversee donation and transplantation practices
- Monitoring and evaluating transplantation program performance and donor and recipient outcomes

#### **Global Strategy:**

- For consideration by the 79th WHA, through EB158 (2026)
- Explore the feasibility and potential impact of establishing a World Donor Day to enhance public awareness
- Establish an expert committee to assist in developing and implementing the global strategy

## WHO Activities Under the New Resolution

#### **Technical assistance to MS:**

- Developing national legislation/regulations
- Assessing transplantation needs
- Establishing or strengthening national authorities
- Improving capacities to increase the availability of CTO
- Implementing ethical, effective and safe transplant programs

#### Reference guidance on death diagnosis

- Death by neurological criteria
- Death by circulatory criteria

#### World Health Organization

#### **Combat Trafficking**

- Improve country, regional and global capacity to respond to identified cases of trafficking in persons for the purpose of organ removal and of trafficking in human organs
- Strengthen Interagency cooperation

**Revise WHO Guiding Principles** on Human Cell, Tissue and Organ Transplantation

 Novel products and treatments that are developed from human cells, tissues and organs

## **Considerations for the Global Strategy on Transplantation**

The Resolution foresees that the Global Strategy is:

- Outcome-driven, equitable, and capacity-building focused
- Leveraging existing resources, where feasible
- Aligned with WHO Guiding Principles on Transplantation
- Establishing an expert committee to assist in developing and implementing the global strategy
- Consultation with Member States and relevant stakeholders during the development



## **Global Strategy Draft Outline**

#### **Vision and Objectives**

The vision of the Global Strategy is that by 2035, every Member State will be able to address its patients' needs for life-saving transplantation treatments.

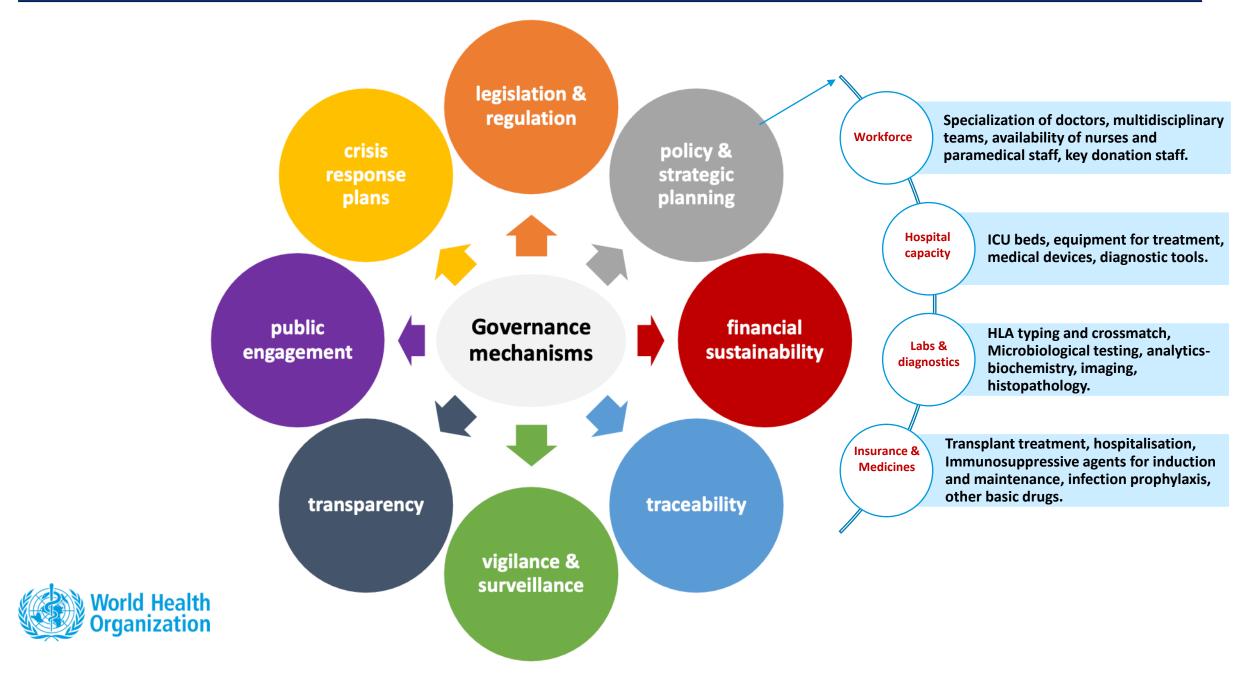
The objectives are to increase availability and accessibility, as well as to enhance safety and quality of transplantation of human cells, tissues and organs.

#### **Key elements of the strategy:**

- Strategic Actions: Areas of interventions
- Implementation: Actors, Partnerships, Funding
- Evaluation/Progress monitoring: Measurable indicators / Benchmarking tool



## **Key Considerations for the Establishment of Tx Systems**



## **Areas of Strategic Action (Proposed)**

Organization of National Systems

Legislation

Regulation

**Oversight** 

**Financing** 

National Donation Programs for Cells, Tissues and Organs

Infrastructure

**Professional Capacity** 

**Public Awareness** 

National
Transplantation
Programs for Cells,
Tissues and Organs

Infrastructure

**Professional Capacity** 

**Health Coverage** 

Establishment of International Collaboration

**National insufficiency** 

**Emergency situations** 

Alternative Sources

**Biotechnology** 

Xenotransplantation



## **Global Strategy process/timeline**



Information Session

• 2 Sep 2024

Establish Expert Committee

• Sep-Oct 2024

Draft strategy development

• Sep-Dec 2024

Global Web
Consultation

Jan-Feb 2025

MS Consultation

Mar-Jul 2025

(6 Regional)

Finalization of drafting process

• Sep. 2025

EB158

• Jan. 2026 **WHA79** 

• May 2026

## Member State Requests

- All Member States encouraged to provide feedback on the proposed initial outline of the global Strategy (vision, objectives and areas of action).
- All Member States to consider identifying national experts that will assist in defining national priorities and participate in the consultative process.
- All Member States encouraged to join the global and regional consultations.
- All Member States encouraged to engage in relevant discussions during the meetings of the WHO regional committees.
- Member States that are planning new or supporting existing regional or global initiatives on transplantation are invited to collaborate with WHO.



## Thank you for your attention

#### Contact

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