



Government of Gujarat

**Health & Family Welfare Department  
Government of Gujarat**



# **STATE ORGAN & TISSUE TRANSPLANT ORGANIZATION (SOTTO) – GUJARAT**

## ***MAKING A DIFFERENCE***

# BACKGROUND

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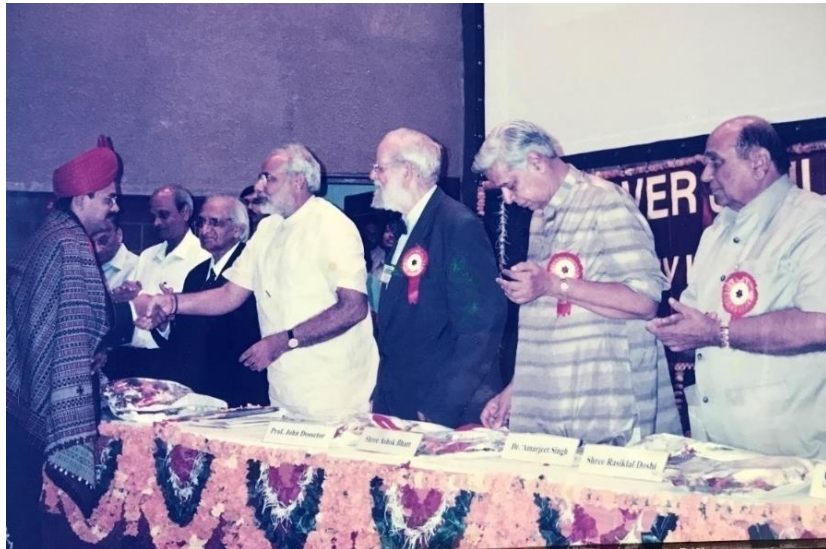
- Every year around 5 lakh people die in our country due to the lack of organ donors
- Only 2-3 percent receive life-saving transplants
- Organ Donations are either Live or Cadaver

Cadaver	Live
India : 2694 Gujarat : 398	India : 13338 Gujarat : 679

# GUJARAT...A PIONEER

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**Cadaver Transplant programme was developed in Gujarat in 2005 under the vision of the then Chief Minister & our Hon'ble Prime Minister Shri Narendra Modi**



- Transplantation of Human Organs Act enacted in 1994 & adopted by Gujarat in 1997
- **First State** to have structured transplants in government sector with utmost transparency

# ROBUST REGULATORY FRAMEWORK

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## **Pioneer in Cadaver Transplant**

- Systems & procedures for deceased organ donation and transplantation laid down in 2005

## **SOTTO Gujarat**

- Established in **2019** as per the provisions of the Transplantation of Human Organs and Tissues Act 1994 (as amended in 2011)

## **Gujarat Deceased Donor Organ and Tissue Transplantation (G-DOT) Guidelines**

- Formulated in 2019 for promoting organ sharing and regulating transplantation in the State

## **Gujarat Network for Cadaver Organ Sharing (GNCOS)**

- Online Platform created for sharing of cadaver organs in 2020

# TRANSPARENT ECOSYSTEM

SOTTO Gujarat has its own web portal (<https://sotto.nic.in/StateHome.aspx>) for registration of retrieval centres, transplant centres, patients and donors

## Features

- Online integrated portal for registration of patient, hospitals
- Dashboard for organ donations & transplantations

## Functions

- Registration
- Pledging for organ donation
- Allocation based on scoring system
- Details regarding transplant centres, trend, etc.

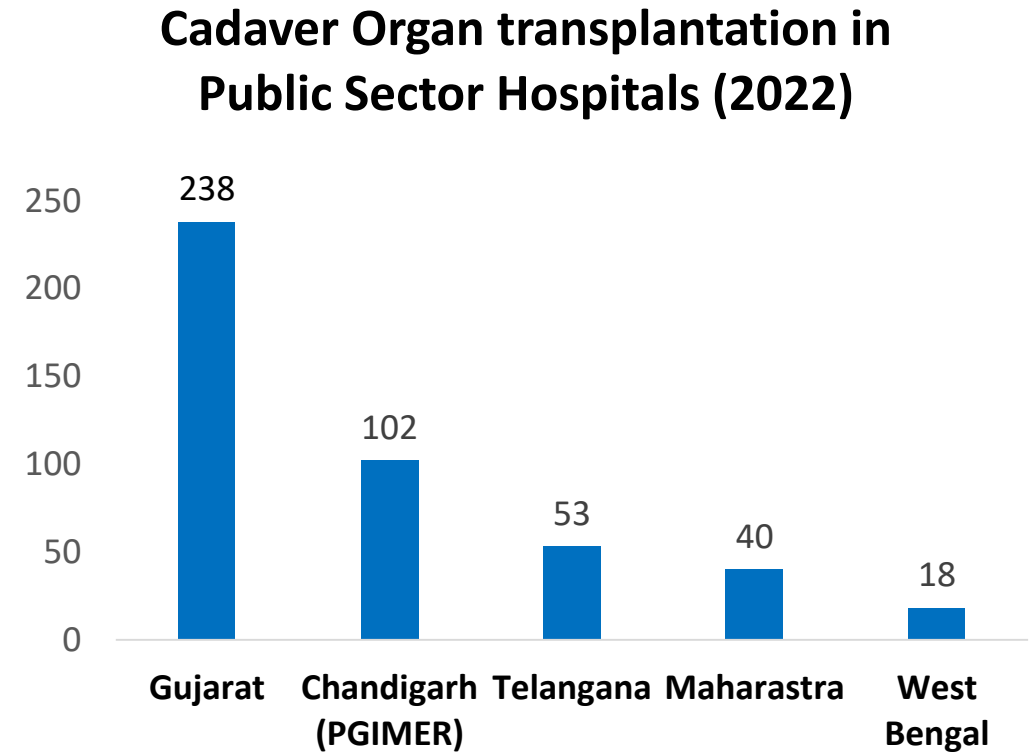
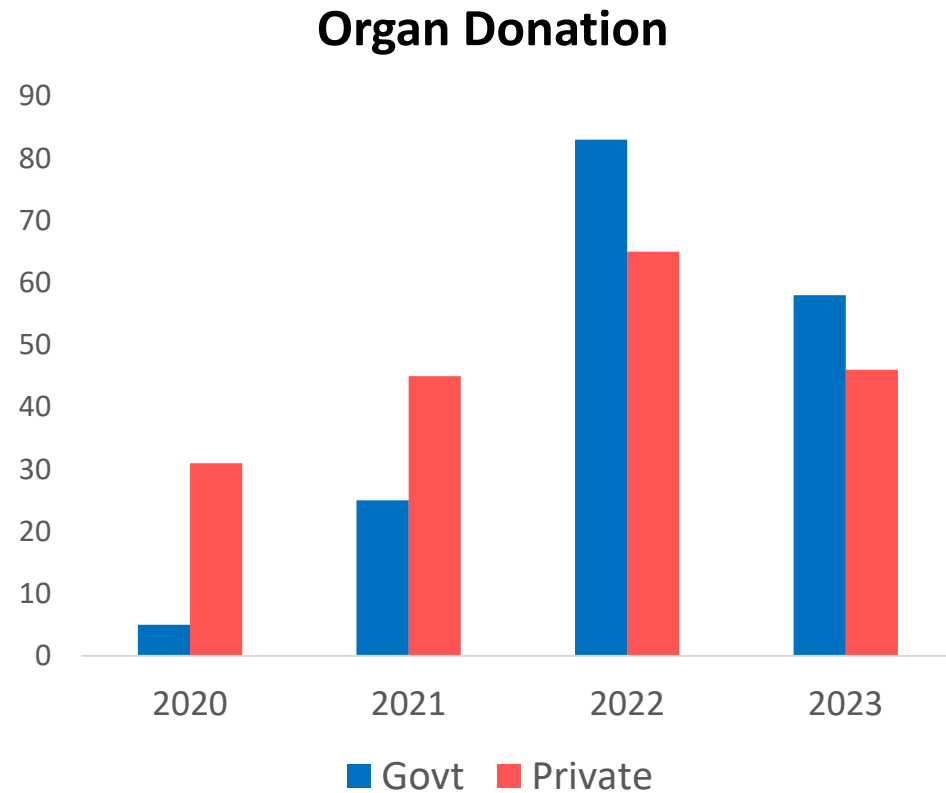
## Transparency

- All Stakeholders connected digitally to SOTTO Gujarat and also to NOTTO
- Public access to donation and transplantation data
- Score for each patient auto-generated by software
- Awareness and sensitization through various media
- Collaboration with NGOs to increase awareness for organ donation

# INNOVATIONS IN GUJARAT'S TRANSPLANTATION PROGRAM

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# PREDOMINANCE OF PUBLIC SECTOR HOSPITALS IN ORGAN DONATION & TRANSPLANT



# CENTRES OF EXCELLENCE IN PUBLIC SECTOR

## IKDRC - ITS

- Cadaver Transplants : 760
- Live Transplants : 1061
- 570 Robotic Kidney transplants

## Civil Hospital Ahmedabad

- Civil Hospital Ahmedabad leads in Retrieval:
  - *133 Donors*
  - *429 Organs retrieved*
  - *410 lives saved*

## U N Mehta

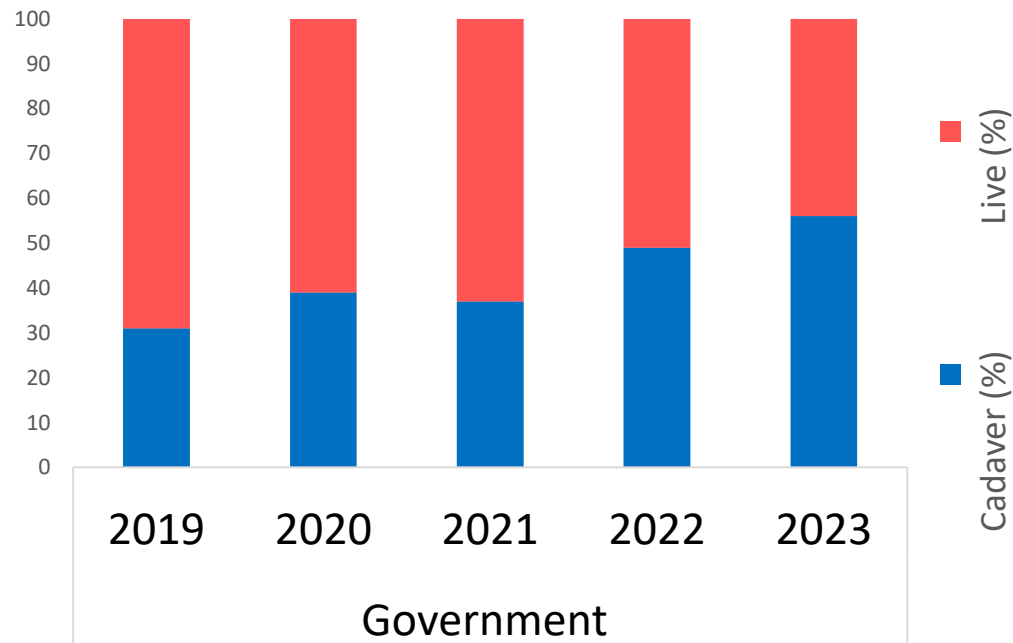
- Gujarat: A Pioneer in doing Cardiac Transplant in Government Sector - 16 heart transplants



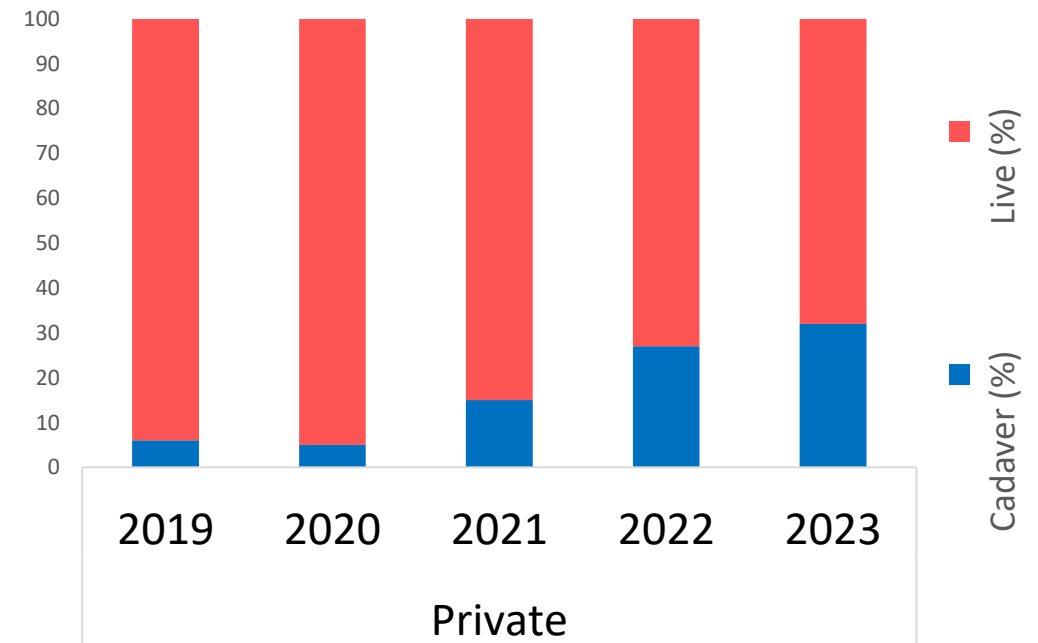
# PARADIGM SHIFT TOWARDS CADAVER TRANSPLANT

- Live Transplants limited to only 2 organs & can save a single life
- Promoting Cadaver Transplants is the only way to meet the Demand – Supply gap

**Trend In Government Sector**



**Trend In Private Sector**



# RAPID TRANSPORT

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- **Green corridor** in Collaboration with various Departments to ensure minimal delay
- **Dedicated vehicles** (Innova) for rapid road transport
- **Air Lift** facility for far away places

# INCLUSIVE APPROACH

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**Public Sector Predominance and Public Financing Mechanisms ensure Accessibility and Affordability of Transplant services to the Poor & the Marginalized**

## **PMJAY - MA**

- 1428 transplants
- Rs. 7.5 crore claim

## **RBSK School Health**

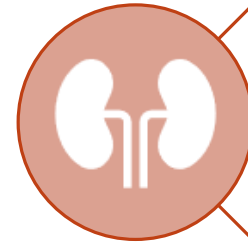
- 250+ transplants
- Totally free of cost for all children less than 18 years

## **PM/CM Relief Funds**

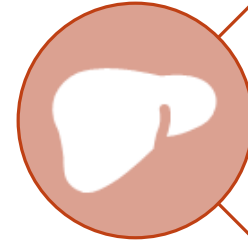
- Relief funds & other grants used to finance transplants for the needy
- More than Rs. 35 crore

# AFFORDABLE TRANSPLANTATIONS AT PUBLIC SECTOR HOSPITALS

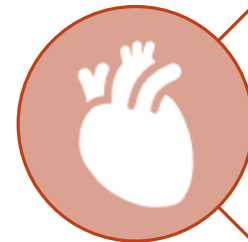
Transplantation at approximately **one-third the cost compared to private hospitals**



Kidney → 3.5 lakhs



Liver → 10 lakhs



Heart → 7.5 lakhs

# PREFERENCE TO WOMEN & CHILDREN

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- Enabling provisions in GDOT guidelines to promote organ transplantation in vulnerable group – Women & Children
- Additional 2 points for Women & Children in the scoring system
- Paediatric cadaver organ allotted to Paediatric patient in waitlist
- Cadaver kidney transplantation in Women and Children increased more than Two-fold

# COMPREHENSIVE GUIDELINES

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- G-DOT guidelines ensure best match and hence improved long term outcomes for transplant patients
- Inclusion of several indicators viz.
  - HLA (Human Leukocyte Antigen) / Single Antigen matching
  - MELD (Model for End-stage Liver Disease) scoring
  - Part Organ Allocation

# GUJARAT UNIVERSITY OF TRANSPLANTATION SCIENCES (GUTS)

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- World's First & Only University for Transplantation and Allied Sciences: 11 Specialized courses with 122 annual intake
- Established by State in 2015 for providing medical care, medical - paramedical academic and research facilities
- Integration of Service, Education and Research in organ donation and transplantation

# AWARENESS



- Backbone of the entire program
- Securing Positive Media Coverage
  - Motivating people
  - Projecting public sector's credibility & expertise
- Community mobilization
  - Awareness programmes
  - Felicitation of donor families
  - Events with participation of organ recipients
  - Religious / Local leaders' involvement



# ACHIEVEMENTS



**PM Award for Excellence in Public Administration (State Level Innovation)**



**Best SOTTO - 2021**



**Best Transplant Coordinator – 2019, 2021, 2023**

# POST AWARDS

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- Increase in hospitals registered with SOTTO as OTRH & OTTH
- Increase in Donations and Retrievals from smaller centres
- Public sector hospitals at Medicity, Ahmedabad are frontrunners in donations and transplants
- Improved awareness among the community

THANK YOU!