## ORGAN AND TISSUE DONATION IN SOUTH AFRICA: WORKSHOP FEEDBACK

**David Thomson** 

On behalf of steering committee

Department of Critical Care and Transplant Unit

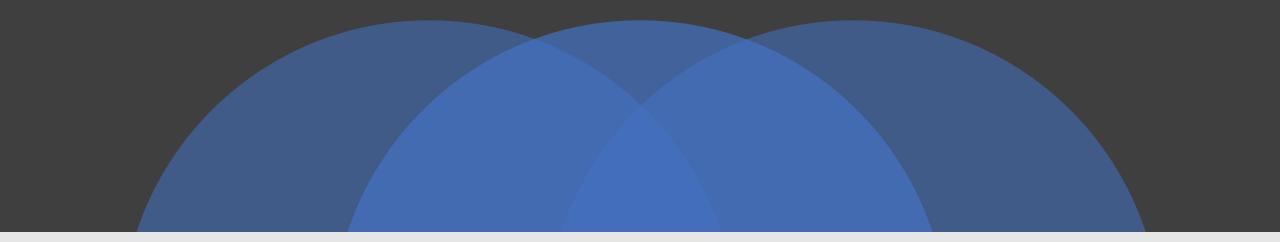
Groote Schuur Hospital

## ISODP



#### PRE-WORKSHOP

- Proposal
- Planning group
- Presentation to Department of Health
- Formation of a Steering Committee
- Multiple conference calls



# Opportunity to Create and Set in Motion a Plan to Increase Organ Donation in South Africa

24 October 2018

Presentation to Ministry of Health

#### SO MANY AREAS THAT COULD BE BETTER

- Spoilt for choice in terms of where we can make improvements
- Also allows us to point the finger at other areas and happily continue working in our own little box
- But we are all working within a system that is grossly underperforming

### POINT I: FOCUSED ON DECEASED DONATION

#### WHY DECEASED DONATION

- Improvements here have exponential improvements to help more patients access transplants
- It is something which can get much better with limited investment and simply better coordination
- There is infrastructure already available across different areas
  - Public, Private, Solid organ, tissue banking, eye bank, NGOs
- No risk to the donor





1.56 pmp

Data presented in absolute number and rate per million inhabitants (pmp) (-): Data Not Available or Not Applicable	P South Africa
ACTUAL DECEASED DONORS (DD)	74 (1.56)
ACTUAL DD AFTER BRAIN DEATH (DBD)	(-)
ACTUAL DD AFTER CIRCULATORY DEATH (DCD)	(-)
TOTAL KIDNEY TRANSPLANTS	232 (4.89)
DECEASED KIDNEY TRANSPLANTS	148 (3.12)
LIVING KIDNEY TRANSPLANTS	84 (1.77)
TOTAL LIVER TRANSPLANTS	14 (0.3)
DECEASED LIVER TRANSPLANTS	14 (0.3)
LIVING LIVER TRANSPLANTS	(-)
HEART TRANSPLANTS	(-)
UNG TRANSPLANTS	4 (0.08)
PANCREAS TRANSPLANTS	7 (0.15)
SMALL BOWEL TRANSPLANTS	(-)
TOTAL ORGAN TRANSPLANTS	257 (5.42)



1.31 pmp

Data presented in absolute number and rate per million inhabitants (pmp) (-): Data Not Available or Not Applicable	P South Africa
ACTUAL DECEASED DONORS (DD)	72 (1.31)
ACTUAL DD AFTER BRAIN DEATH (DBD)	71 (1.29)
ACTUAL DD AFTER CIRCULATORY DEATH (DCD)	1 (0.02)
TOTAL KIDNEY TRANSPLANTS	254 (4.62)
DECEASED KIDNEY TRANSPLANTS	136 (2.47)
LIVING KIDNEY TRANSPLANTS	118 (2.15)
TOTAL LIVER TRANSPLANTS	66 (1.2)
DECEASED LIVER TRANSPLANTS	51 (0.93)
LIVING LIVER TRANSPLANTS	15 (0.27)
HEART TRANSPLANTS	25 (0.45)
UNG TRANSPLANTS	14 (0.25)
PANCREAS TRANSPLANTS	4 (0.07)
SMALL BOWEL TRANSPLANTS	(-)
TOTAL ORGAN TRANSPLANTS	363 (6.6)



9.06 pmp

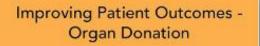
Data presented in absolute number and rate per million inhabitants (pmp) (-): Data Not Available or Not Applicable	🕈 Brazil
ACTUAL DECEASED DONORS (DD)	1,688 (9.06)
ACTUAL DD AFTER BRAIN DEATH (DBD)	1,688 (9.06)
ACTUAL DD AFTER CIRCULATORY DEATH (DCD)	(-)
TOTAL KIDNEY TRANSPLANTS	3,388 (18.18)
DECEASED KIDNEY TRANSPLANTS	1,878 (10.08)
LIVING KIDNEY TRANSPLANTS	1,510 (8.1)
TOTAL LIVER TRANSPLANTS	1,059 (5.68)
DECEASED LIVER TRANSPLANTS	872 (4.68)
LIVING LIVER TRANSPLANTS	187 (1)
HEART TRANSPLANTS	(-)
LUNG TRANSPLANTS	(-)
PANCREAS TRANSPLANTS	328 (1.76)
SMALL BOWEL TRANSPLANTS	(-)
TOTAL ORGAN TRANSPLANTS	4,775 (25.62)



14.23 pmp

Data presented in absolute number and rate per million inhabitants (pmp) (-): Data Not Available or Not Applicable	¶ Brazil
ACTUAL DECEASED DONORS (DD)	2,983 (14.23)
ACTUAL DD AFTER BRAIN DEATH (DBD)	2,983 (14.23)
ACTUAL DD AFTER CIRCULATORY DEATH (DCD)	(-)
OTAL KIDNEY TRANSPLANTS	5,600 (26.72)
DECEASED KIDNEY TRANSPLANTS	4,400 (20.99)
LIVING KIDNEY TRANSPLANTS	1,200 (5.73)
OTAL LIVER TRANSPLANTS	1,880 (8.97)
DECEASED LIVER TRANSPLANTS	1,723 (8.22)
LIVING LIVER TRANSPLANTS	157 (0.75)
IEART TRANSPLANTS	357 (1.7)
UNG TRANSPLANTS	92 (0.44)
PANCREAS TRANSPLANTS	134 (0.64)
MALL BOWEL TRANSPLANTS	1 (0)
TOTAL ORGAN TRANSPLANTS	8,064 (38.47)





Monday July 2, 2018, 11:45-13:15



Rafael Matesanz, Spain Founder and Director, Spanish National Transplant Organization (ONT)

> Challenges to Improving Deceased Organ Donation -Past, Present and Future

"It is not the fault of the population not to realise the full potential of deceased organ donation. It is a reflection of the health care system."

#### WHAT DID WE DO?

- Environmental scan
  - What is the current state of affairs
- Pre-workshop survey
  - Transplant centres
  - Referral agents
- Hired a process consultant and identified key speakers

#### WORKSHOP PROGRAM

- Welcome
- Challenge address
- Environmental scan and SATiBA report
- International perspectives on systems change
- Working groups

#### TOPICS IDENTIFIED

- Professional education and practice
- Data collection
- Organ donation conversion: Consent rates and practice
- Legislation and Policy
- Organ donation potential: Identification and referral
- Foundational system development
- Public awareness

#### TABLE COMPOSITION

- Administrators
- Department of Health
- Legal
- NGOs
- Tissue banks
- Eye banks
- Transplant coordinators
- Clinicians

#### OUTLINE

- Identify key priorities in your area
- What is going well in this area
- TV Interview in 2025 What's happening now and how has it changed
- Outline a few important steps to achieve this change
- "realistic stretch"



#### DAY #2

- Reworked own ideas
- Commented on other priority areas
- Developed a shared vision for moving forward
- Discussed a research listening post

#### HIGHLIGHTS

- Professional education
  - Training of transplant ambassadors
- Standardized data reporting
  - Ongoing quality assurance, accountability and transparency
- The need for a national coordinating body
  - Ability of professional societies to generate guidelines
- Integration with Department of Health
  - NHI is an opportunity

#### HIGHLIGHTS CONTINUED

- Organ and tissue donation can work better together
  - To create a culture of donation
  - Required referral
- NGOs and media can link more effectively with transplant centres
  - Donor focus

#### NEXT STEPS





Meeting report



Continuation and building of projects identified

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A better system

#### THANK YOU









Department: Health REPUBLIC OF SOUTH AFRICA













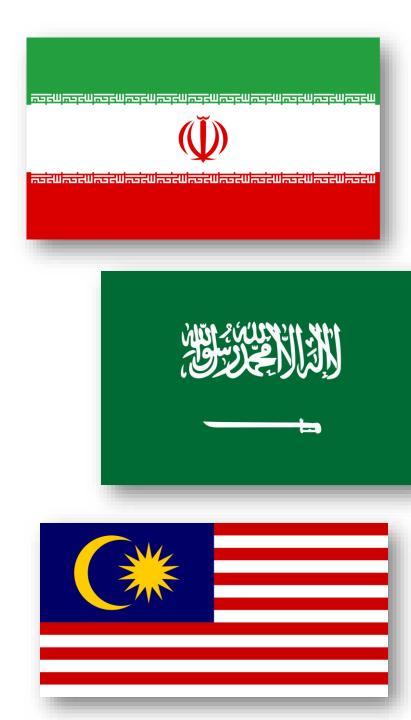




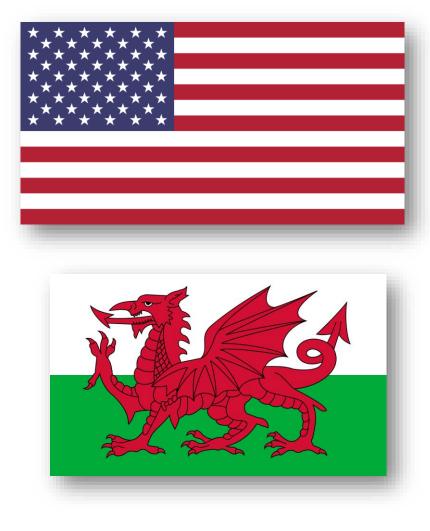




#### QUESTIONS



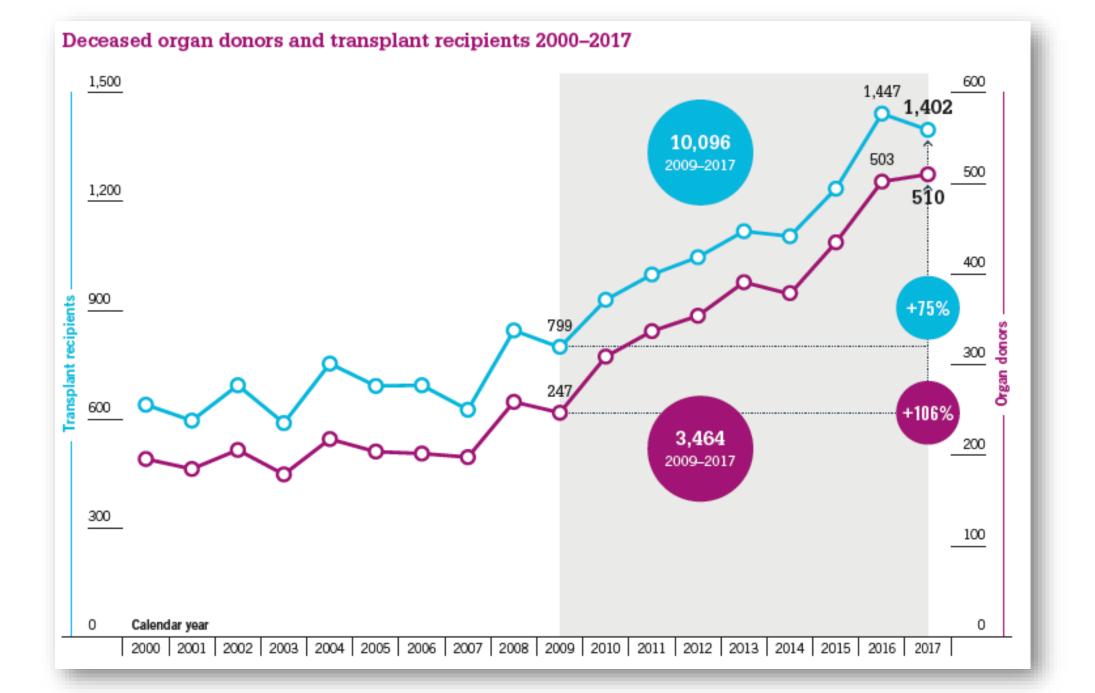
## Many possible solutions











# Factors influencing deceased organ donation consent rates in South Africa

Bookholane H



Department of Surgery, University of Cape Town Health Sciences Faculty, Division of Transplant Surgery, Groote Schuur Hospital







#### PRELIMINARY FINDINGS

- 74 approaches in state vs 9 in private
- Consent rate in state 23% vs 55% in private
- State referrals come from emergency units 70% of time
- In both sectors 70% of referrals needed immediate fluid resuscitation with I litre of fluid
- Units were overcrowded and busy
- Variations in who brings up organ donation discussion with the family and knowledge levels about the prognosis

### POINT 2: WE NEED DATA

#### SATS AND SATIBA



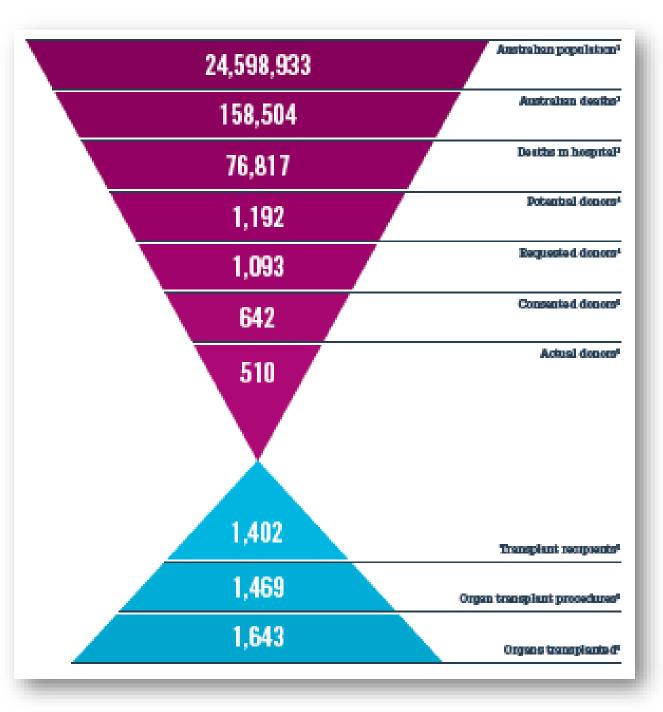
CHANGING & IMPROVING SOUTH AFRICA'S TRANSPLANT FUTURE

#### 28th SATS & 5th SATiBA

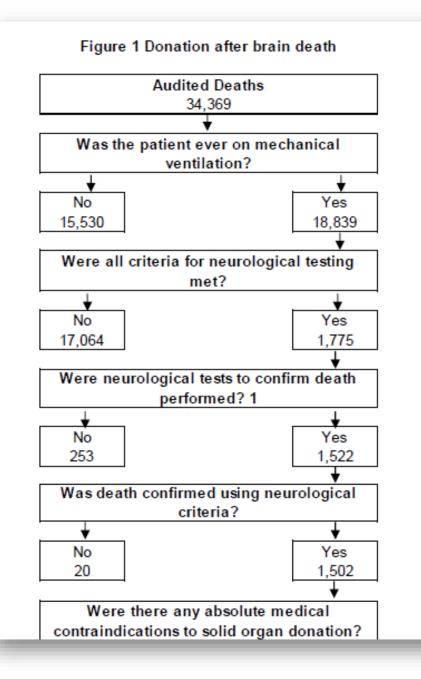
CONGRESS 6 - 8 September 2019

> KRYSTAL BEACH HOTEL GORDONS BAY • CAPE TOWN

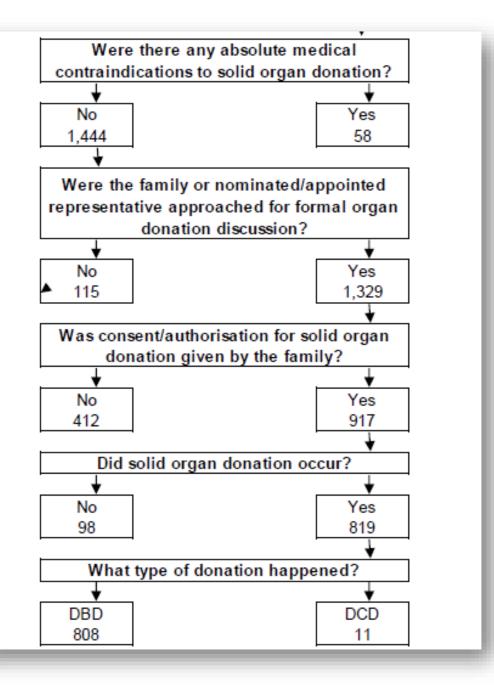
# Deaths in Australia

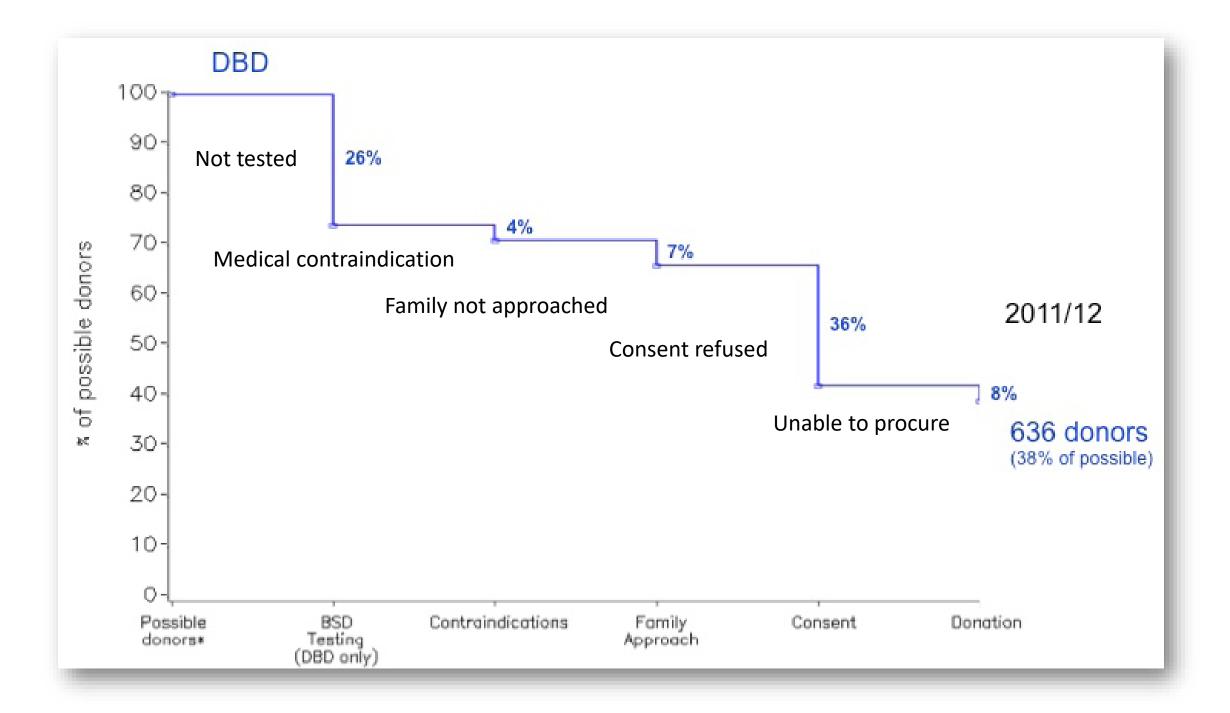


# Potential Donor Audit



# Potential Donor Audit







#### STATE AND PRIVATE

- Both systems are underperforming
- NHI is an opportunity

### POINT 3: EXPLORING ORGAN DONATION IS A MARKER OF GOOD END OF LIFE CARE

Need to create an environment for it to take place routinely

# Consent





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Doctor 1

# LifeSource

#### ORGAN, EYE AND TISSUE DONATION



#### ISODP ADVISORY COMMITTEE

- Susan Gunderson
  - CEO Lifesource America
  - President of ISODP

#### ISODP ADVISORY COMMITTEE



- Kimberly Young
  - Past CEO Canadian Council for Donation & Transplantation, Canadian Blood Services



#### **ISODP ADVISORY COMMITTEE**



- Howard Nathan
  - CEO Gift of Life
  - Transplant Coordinator
  - Highest performing American OPO
  - 46 000 transplants in 40 years





#### **Organs for Transplants**

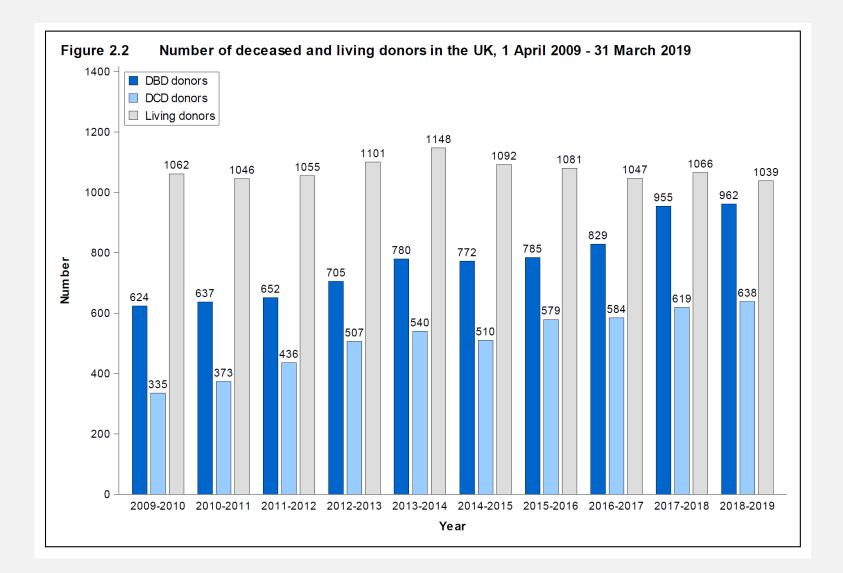
A report from the Organ Donation Taskforce



### Organ Donation and Transplantation

Activity Report 2017/18





#### DONOR Source - UK

## POINT 4: SETTING GOALS

### THANK YOU









Department: Health REPUBLIC OF SOUTH AFRICA





















#### NATIONAL DEPARTMENT OF HEALTH





Department: Health **REPUBLIC OF SOUTH AFRICA** 



#### AUSTRALIAN DONATION AND TRANSPLANTATION ACTIVITY REPORT







# In 2017 **1,675 510 273**

lives transformed by deceased organ donors and

living organ donors



transplant recipients since 2009

The number of organ transplant recipients under Australia's program to increase organ and tissue donation for transplantation surpassed 10,000 in 2017.

Thanks to the generosity of donors and their families, donation and transplantation outcomes have increased substantially since 2009.

Since the program started 3,464 deceased organ donors and their families have benefited 10,096 transplant recipients.

Over this time, the number of deceased organ donors has more than doubled with 510 donors in 2017 compared with 247 in 2009. The number of organ transplant recipients has increased by 75% with 1,402 Australians receiving a life-saving transplant from a deceased donor in 2017 compared with 799 in 2009.



OWEN Tage lang bangte KARY STAD an diesem Bett Der dreizehnte Tag war der Höhepunkt im zweiten Leben von Louis Washkansky Bei der Visite drückte er Professor Barnard die Hand, denn es ging ihm heute besonders gut Er hatte mit London und mit Australien telefoniert, und der Bürgermeatter von Kapstedt kam zu Besuch Am Abend begann die Krise





### THANK YOU









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### QUESTIONS

### ISODP





#### THANK YOU







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# Role players





Department: Health REPUBLIC OF SOUTH AFRICA







#### 28<sup>th</sup> SATS & 3<sup>rd</sup> SATiBA CONGRESS 6 - 8 September 2019 KRYSTAL BEACH HOTEL

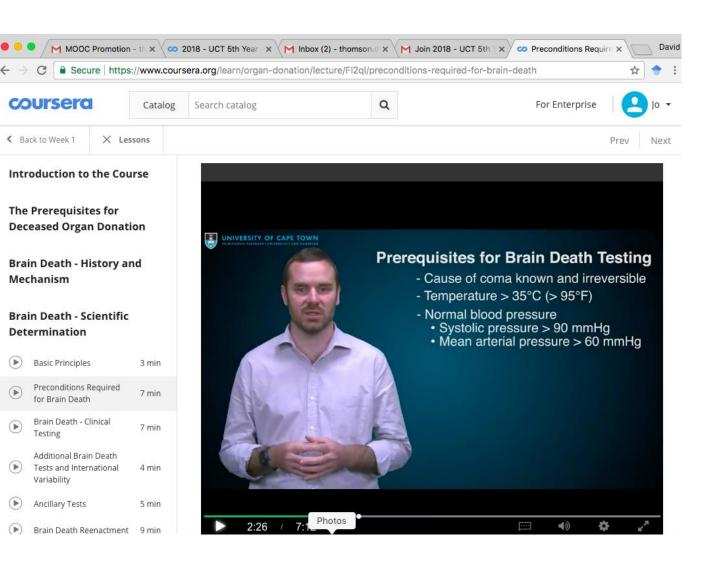
GORDONS BAY - CAPE TOWN





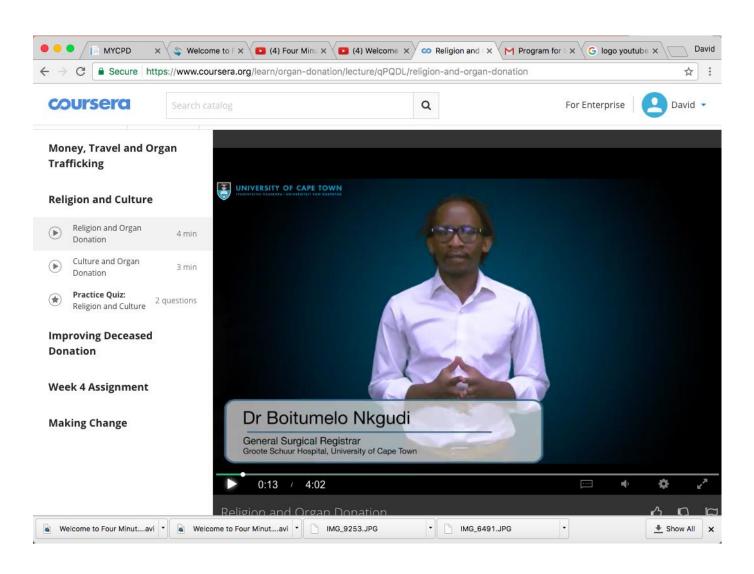
Coursera Online Education Project

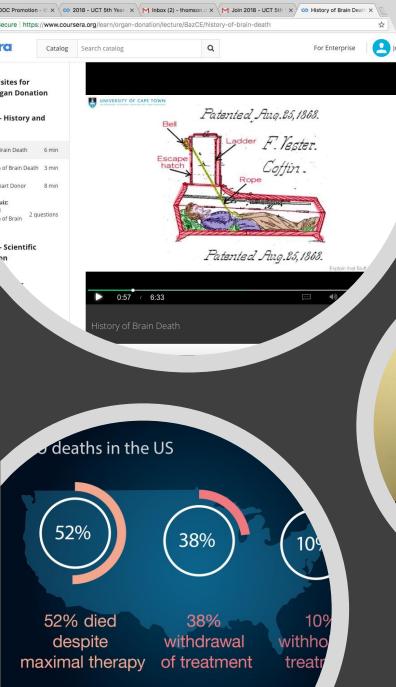




Coursera Online Education Project







## Contents

- Week 1
  - Brain Death
  - Consent
- Week 2
  - End of Life Care
  - Donation after Circulatory Death (DCD)
  - Tissue donation
  - What happens to the body

# Proposal to Increase Organ Donation in South Africa

David Thomson

Critical Care Specialist and Transplant Surgeon

**Groote Schuur Hospital** 

University of Cape Town







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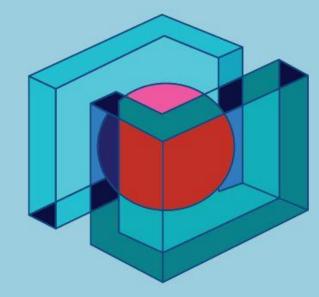
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Canon

## Content

- Week 3
  - Organ Donor Management
  - Organ Allocation
  - How it all happens
- Week 4
  - Religion and Culture
  - Money, Travel and Organ Trafficking
  - Organ Donation Systems



# International Society for Organ Donation and Procurement



NGO in official relations with the World Health Organization - WHO



#### My take on the state of affairs in organ donation

- System under strain
- People working in silos
- Opportunity for giant steps forward in deceased donation
  - Most cost effective way to improve access to transplantation
- Need for Ministry of Health to step in with leadership and vision

• NHI

# Program of ISODP workshop to focus on

- Data and Legislation Track
  - Data reporting (Key performance indicators)
- Guidelines Track
  - Required referral
  - Hospital policies
  - Critical Care Society Guidelines
- Transplant Coordinator Track
  - Consent
  - Donor Management



# Background / Why I am here?

## ISODP Advisory Committee



- Helen Opdam
  - Medical Advisor National Organ and Tissue Authority







#### Proposed Program – Working Groups

- A review of South African legislation with a gap analysis.
  - How best to improve organ donation systems through legislation?
- Creation of a minimum dataset required by a central authority to monitor deceased donation and transplantation activity (including key performance indicators for referral hospitals and transplant centres)
  - What information will ensure adequate monitoring and best empower future decision making?
- A review of governance systems for deceased organ donation activities
  - With standardization of roles, responsibilities and reporting standards for hospitals, emergency units and ICUs.
- A review of funding models for national oversight of transplant activities

#### Conclusion

- Hope to have convinced you that this is a project that could make a big difference and is worth fully supporting
- ISODP workshop is an opportunity to formulate a national strategy document for South Africa on deceased organ donation
  - Based on input from world leading experts who have effected change in their countries
- Ministry of Health form a group tasked to work on this project
  - To ensure it aligns with health department goals and there is an implementation strategy that is created hand in hand with the strategy document



# UNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD



#### Reason I am here

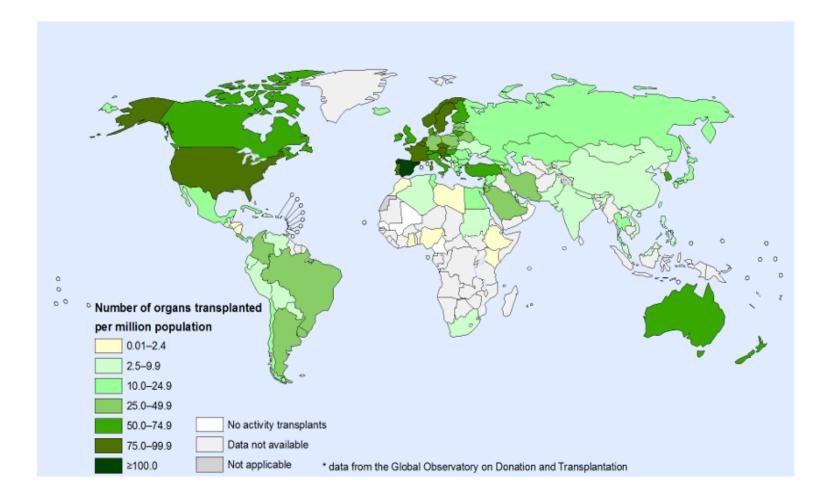
- Related to a grant application to the ISODP
  - \$45000
- For organ donor improvement on national level
- International experts work with local experts to improve the system
- Tailored for the country

- Rafael Matesanz, MD, PhD is a nephrologist. Founder and Director of the Spanish National Transplant Organisation (ONT), since 1989 until May 2017. Responsible of the so called "Spanish Model". He was General Director of the Spanish National Institute of Health, President of the Transplant Experts Committee of the Council of Europe during more than 8 years, Scientific Director of the Tuscany Transplant Organization (ITALY) for 3 years, President of the Spanish National Transplant Committee for 23 years, President of the Iberoamerican Council of Organ Donation and Transplantation (2005-2017), Adviser of The World Health Organization in the field of organ donation and President of the Scientific Committee of the Mutua Madrileña Foundation since June 2014. Director of different Master and Courses on Coordination and Organization of Donation and Transplantation in the Barcelona University, Menéndez Pelayo International University, University of Alicante and Complutense University of Madrid. Director of some publications such as Nefrología, Revista Española de Trasplantes or Transplant Newsletter of the Council of Europe and Transplant Newsletter of Latin-American Region. Author of more than 500 articles in national and international journals and more than 200 chapters of books or monographs about nephrology, organ donation and transplantation and clinical management.
- Recognitions and awards such as Rey Jaime I of Clinical Medicine, Gran Cruz de la Orden Civil de Sanidad, Recognition Award TTS, Príncipe de Asturias Award on International Cooperation in 2010, Honorary Ambassador of the Mark Spain, Doctor Honoris Causa from different Spanish and American Universities, Gold Medal of the Madrid Town Hall, Award Excellence in Health-Scientific field, Gran Cruz de la Orden del Dos de Mayo. Maharshi Sushruta Gyaanpeeth Sanmman 2018 Award- Ahmedabad – India

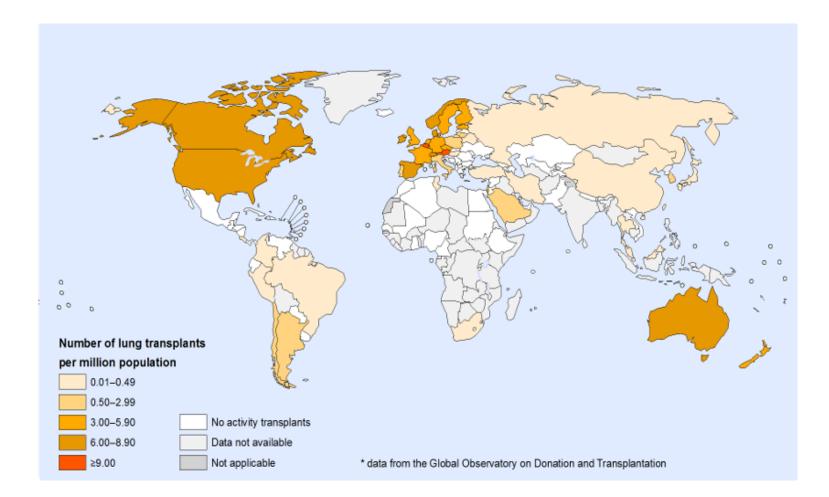
#### Room for many proposed solutions

 The problem in South Africa is not a lack of ideas – it's a lack of conversion of ideas... We are at the stage where we know...

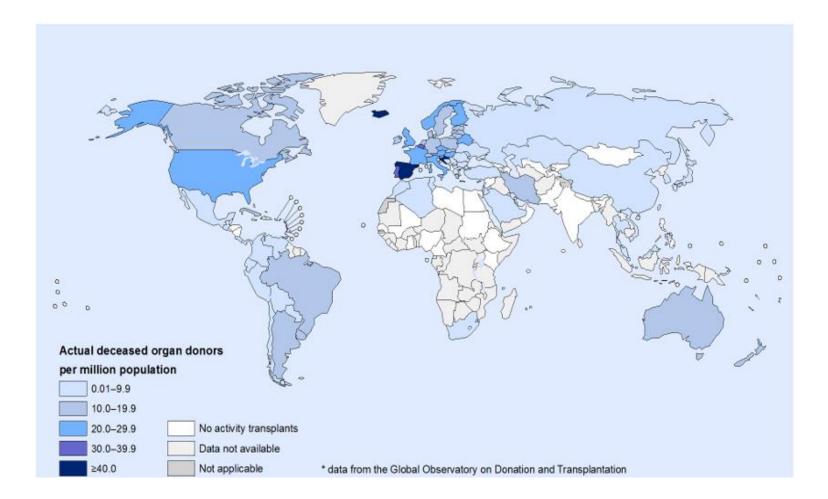
#### Total Organs Transplanted



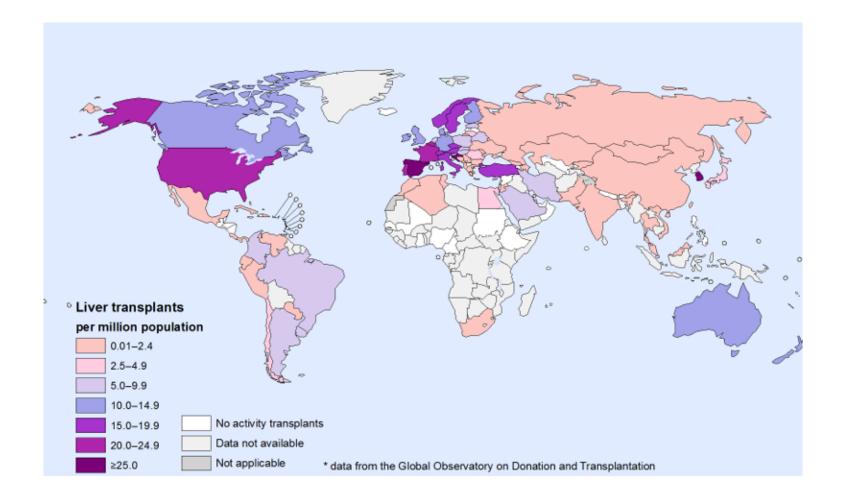
### Lung transplants



#### Actual deceased organ donors



#### Liver transplants



## Opportunity to Increase Organ Donation in South Africa

David Thomson

Critical Care Specialist and Transplant Surgeon

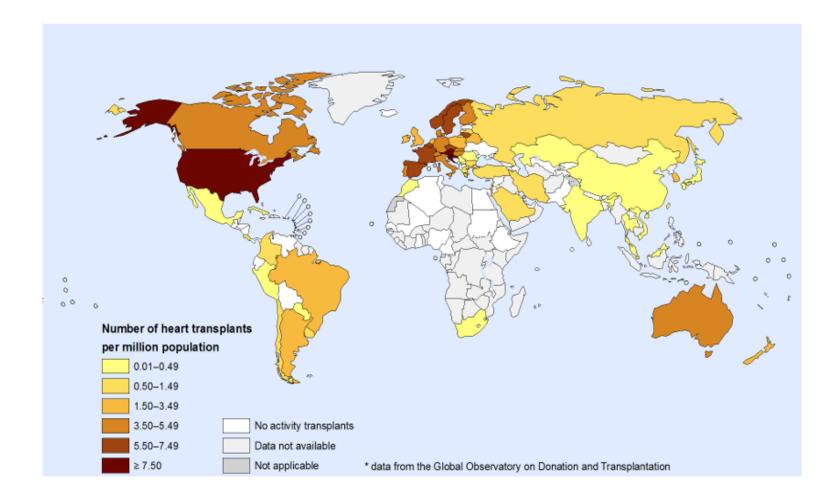
**Groote Schuur Hospital** 

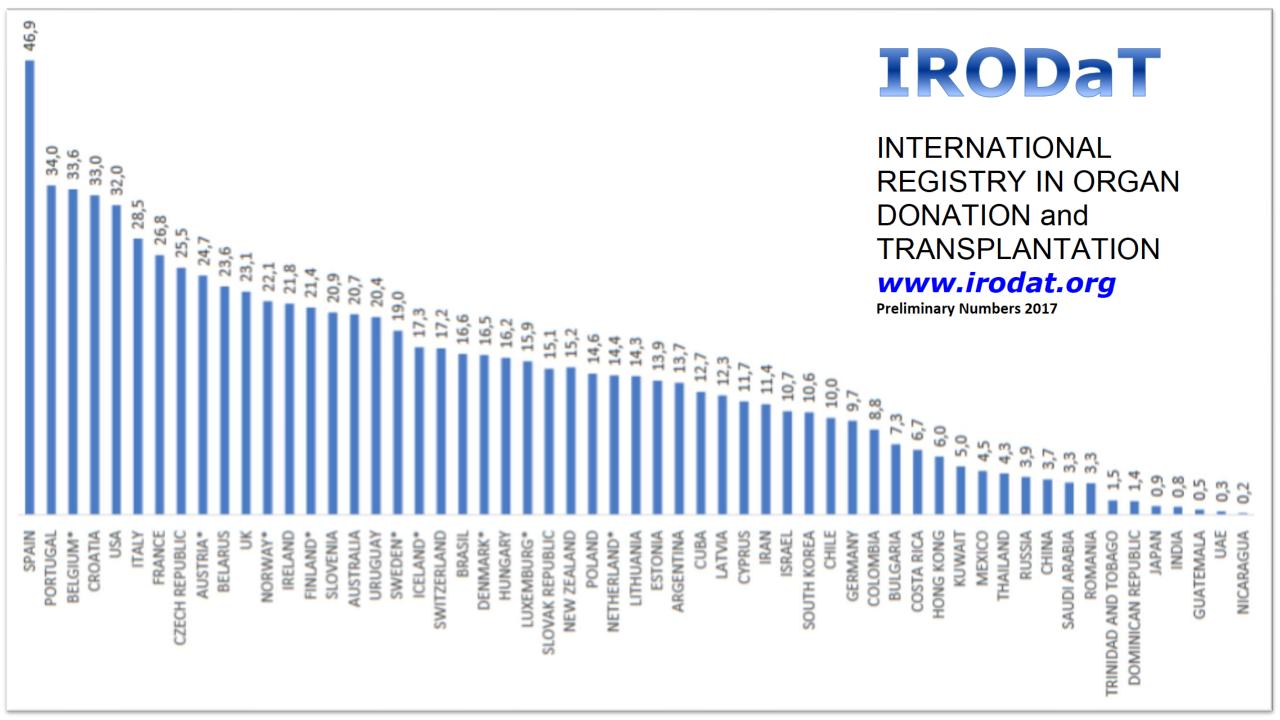
University of Cape Town





#### Heart transplants







- Presumed consent
- Central coordinating authority (ONT)
- Transplant coordinators in every ICU
- Quality assurance systems
- Culture of routine donation

News > Long Reads

#### Spain leads the world in organ donation – what's stopping other countries catching up?

More and more people are donating organs, but demand still far exceeds supply. What can the world learn from the country that does it best?

Chris Baraniuk | Sunday 29 July 2018 15:50 | 0 comments



