



## **Factors contributing to loss of deceased organ donors from the transplant programme of tertiary level hospital in Cape Town, South Africa**

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# The Challenges

- Organ transplantation is the optimal treatment for many organs with end stage failure.
- The waiting list for organs from deceased donors is becoming longer.
- Tygerberg Hospital is contributing to Organ Transplant Programme in WC
- The programme faces increasing demand for organs but has failed to recruit more deceased donors.
- We studied the root causes for low donor procurement in our population.

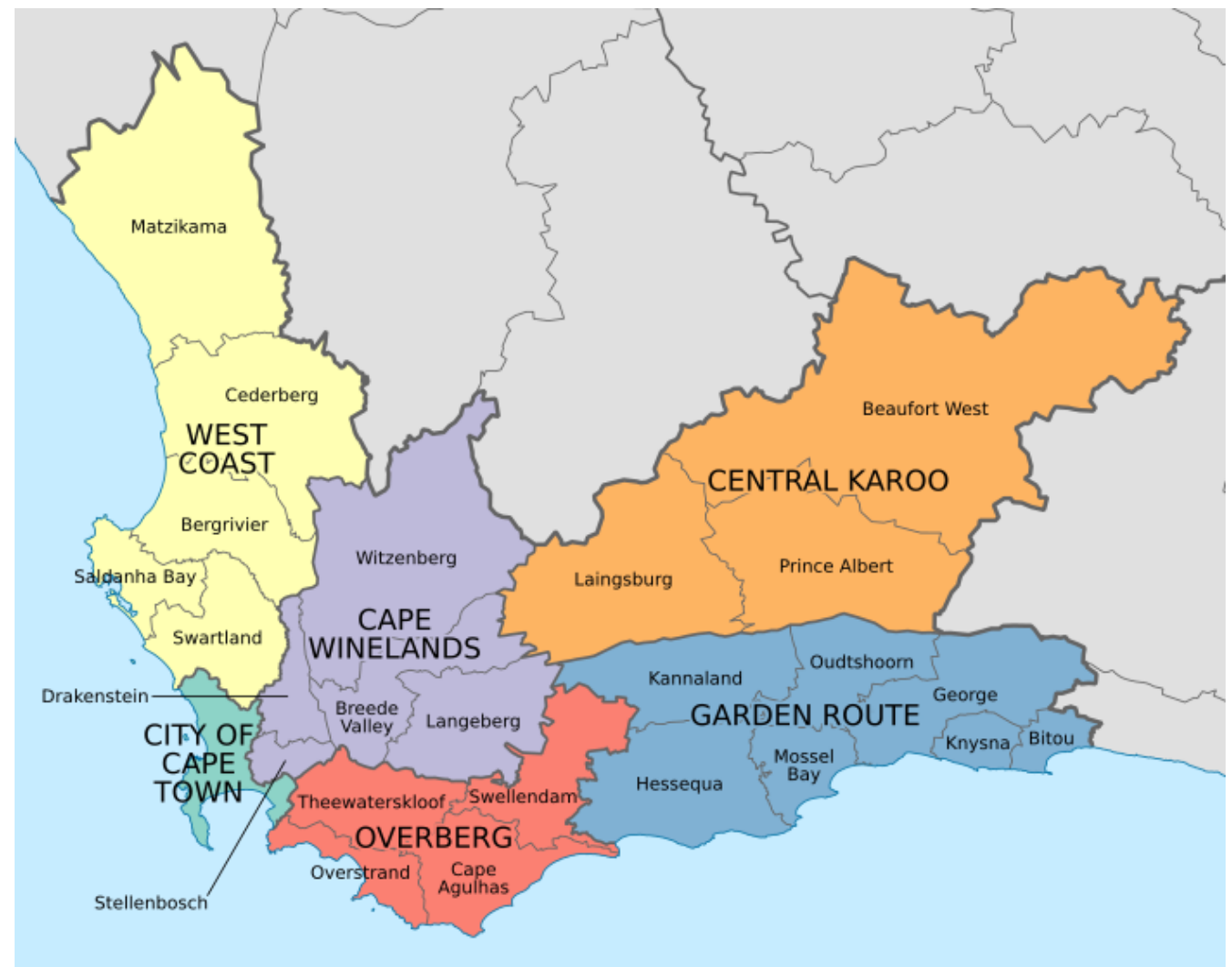


## Study design

- Retrospective analysis of all 351 brain-dead patients that were referred as potential brain-dead organ donors.
- The assessment by transplant coordinator at Tygerberg Hospital between 1 January 2005 and 31 December 2017.

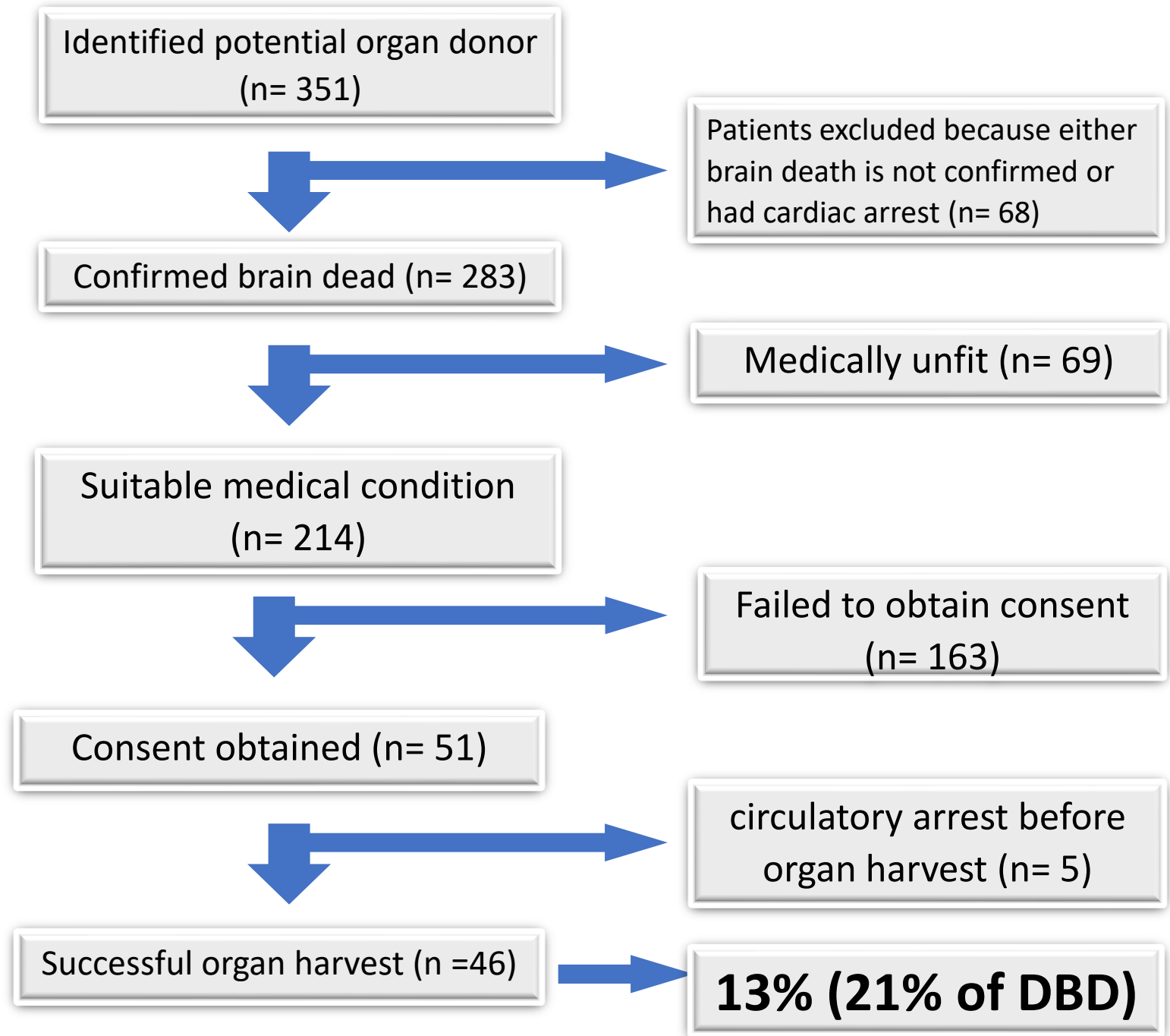
Characteristics of the referred donors	
Age mean (SD)	33 yrs (13.7)
Gender	
Male	234 (67%)
Female	117 (33%)
Race	
Coloured	198 (56%)
African	105 (30%)
White	37 (11%)
Foreign nationals	11 (3%)

Deceased donors according to referral source`	
Source	Number of DBD (%)
Medical	194 (55%)
Surgical	148 (42%)

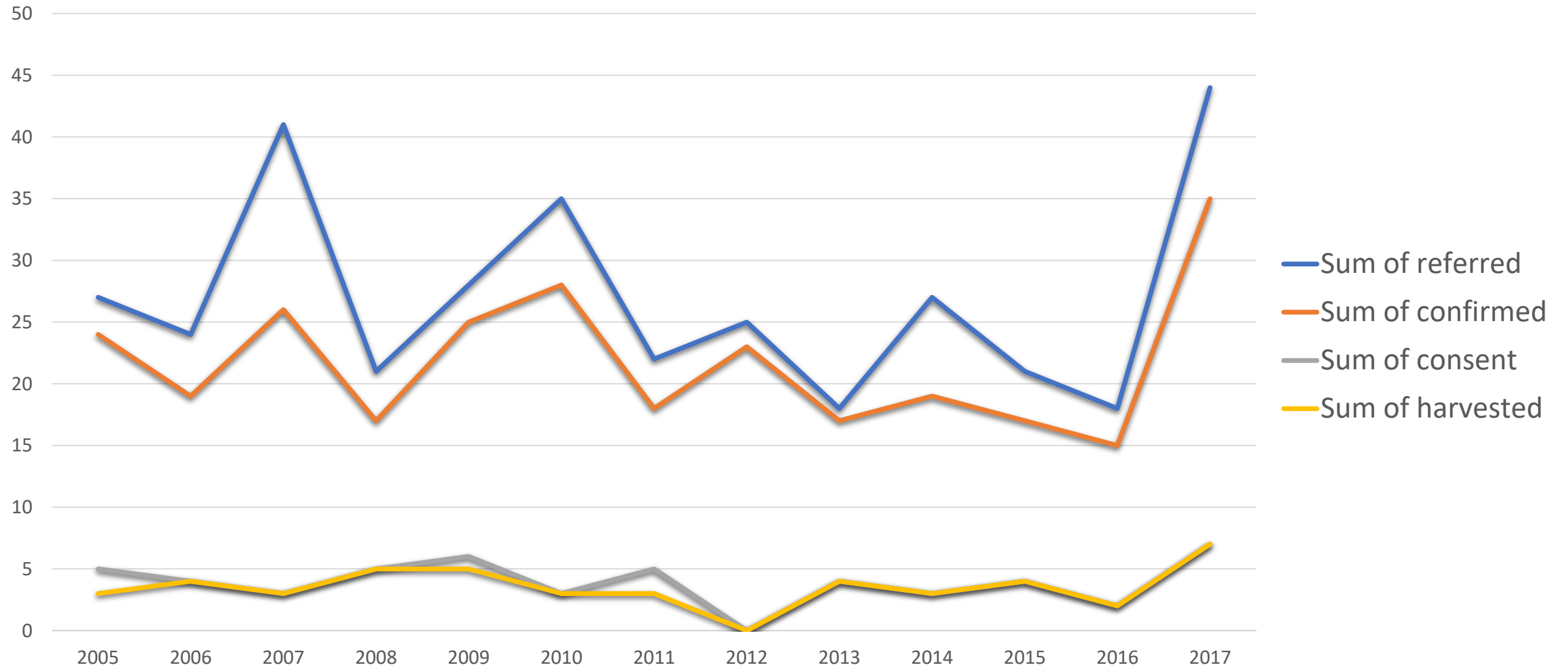


Catchment area & population

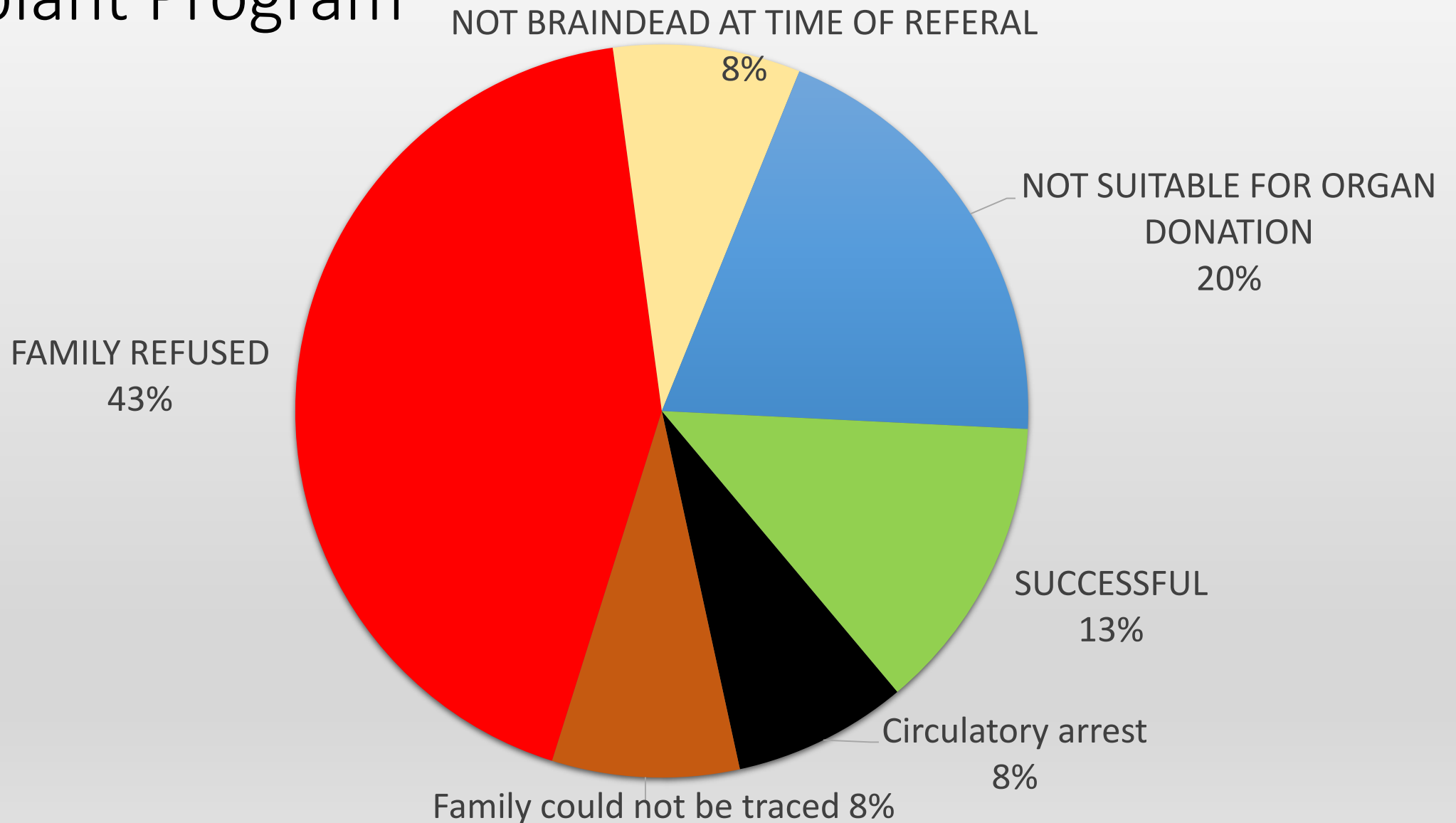
# Findings



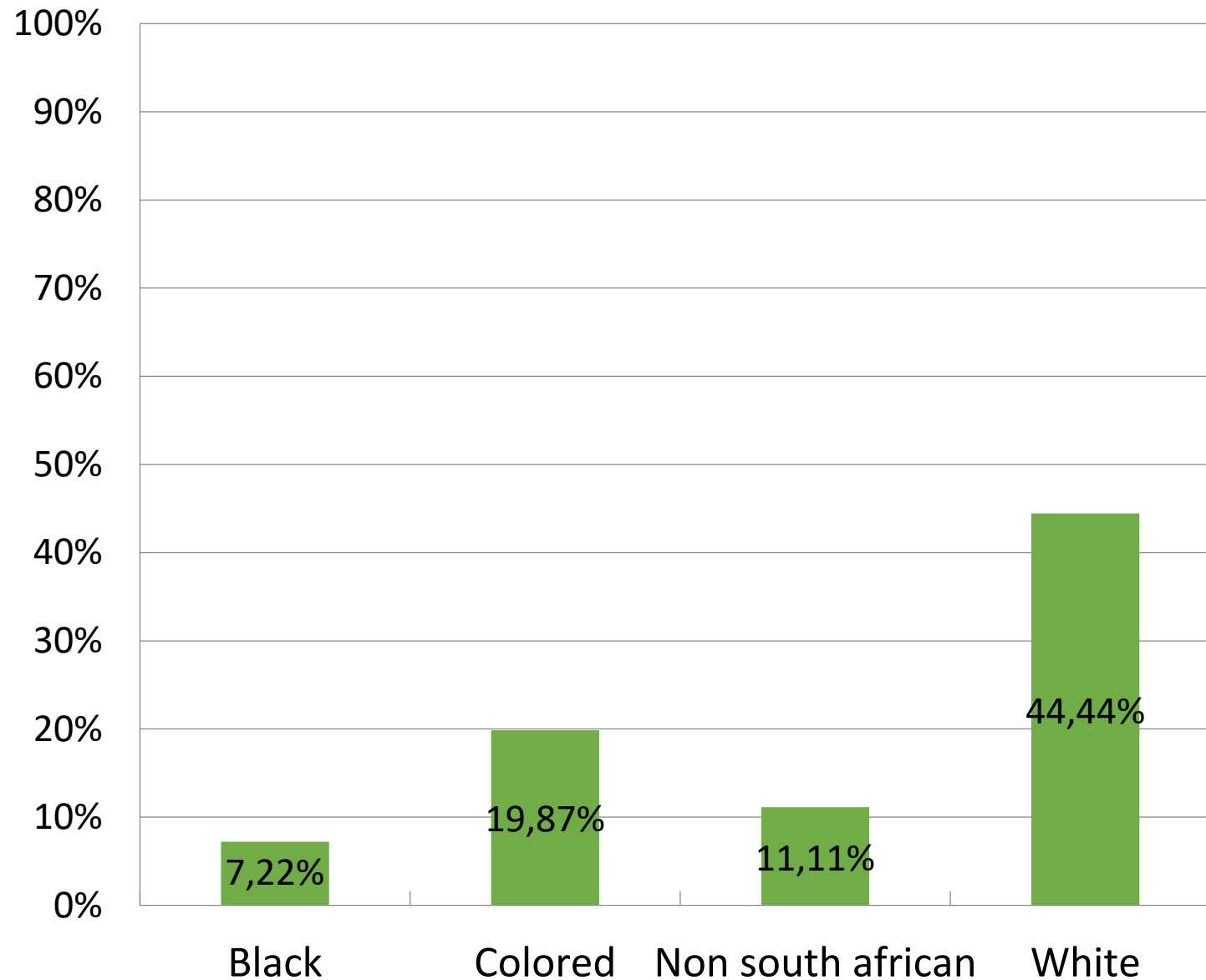
# Results



# Outcome of patients referred as “brain-dead” to Organ Transplant Program



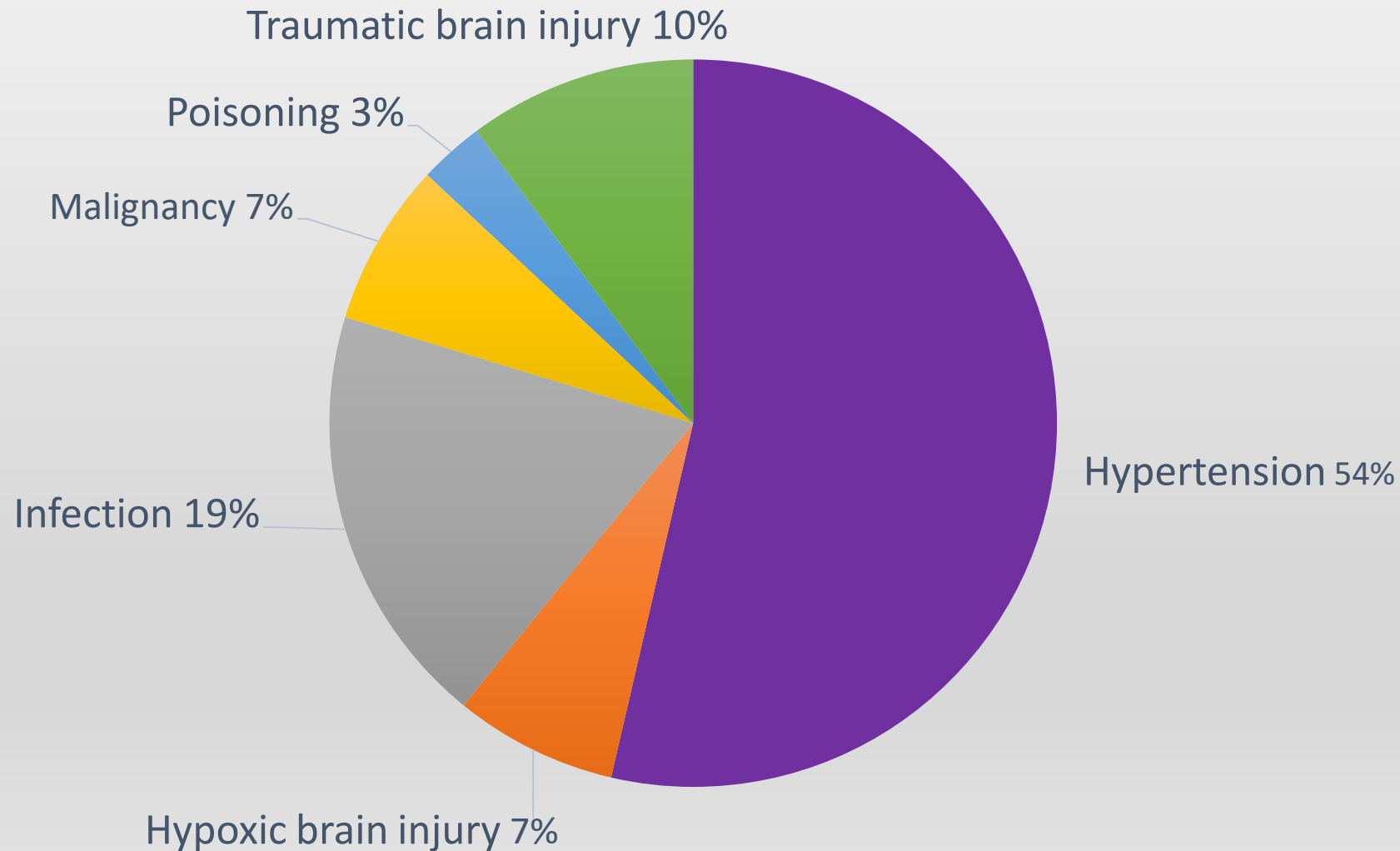




Consent rate  
among different  
ethnic groups



# Adverse medical conditions of 69 deceased patients that excluded them from donation



# Conclusions

- The rate of conversion of donor referral into true organ donation is low
- The poor conversion rate is in keeping with other experiences elsewhere in the country.
- The main factor is the failure to obtain consent from the family.
- Donor hypertension was the main medical reason for exclusion.

# Possible action plans

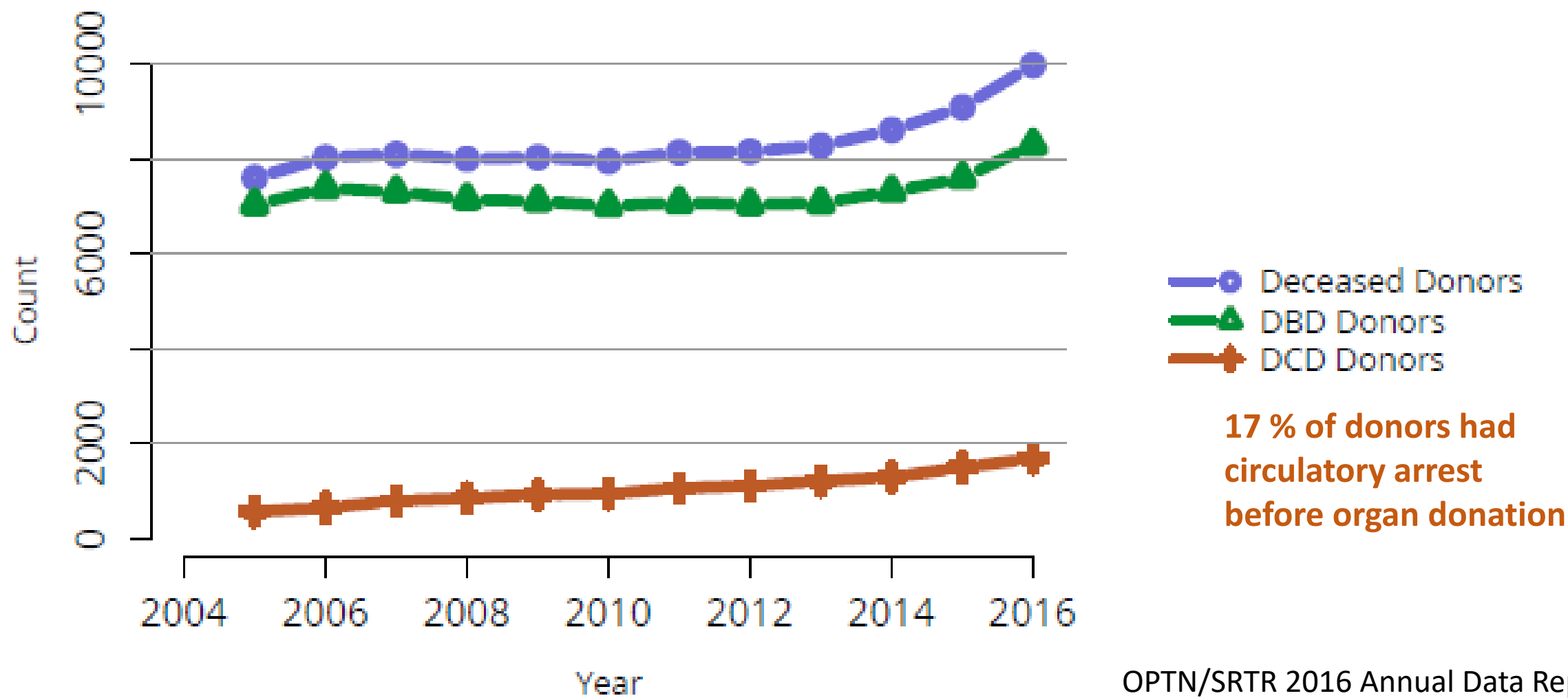
## Consent

- Target the low consent population in the language that they can understand
- Focus on campaigns in media, schools and universities.
- Involve the community leaders to educate community
- Promote organ donation among public and youth.

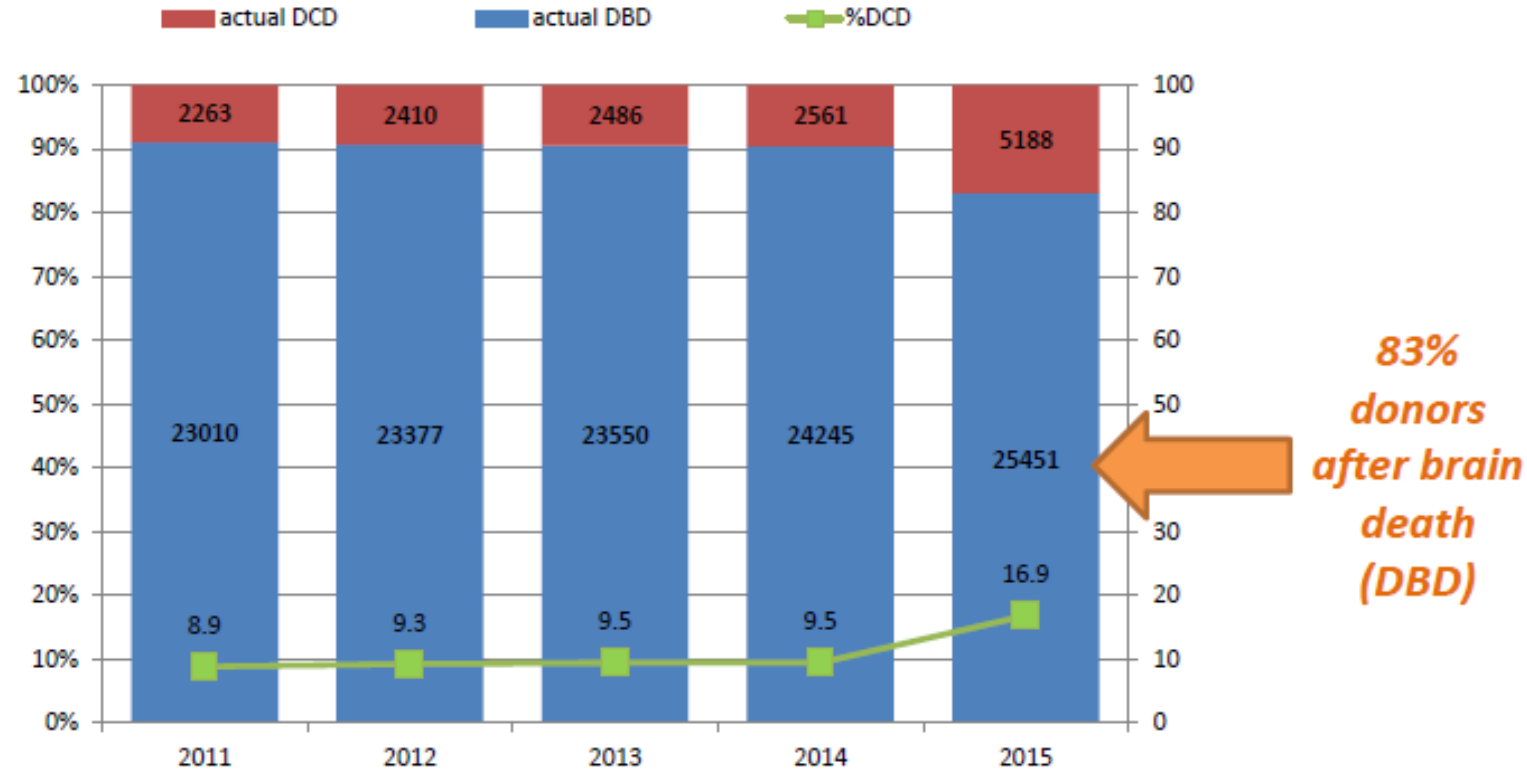
## Extended criteria:

- Include groups that have been considered poor e.g. old age, HIV infection, hypertension
- Donors after circulation arrest are the new and growing potential

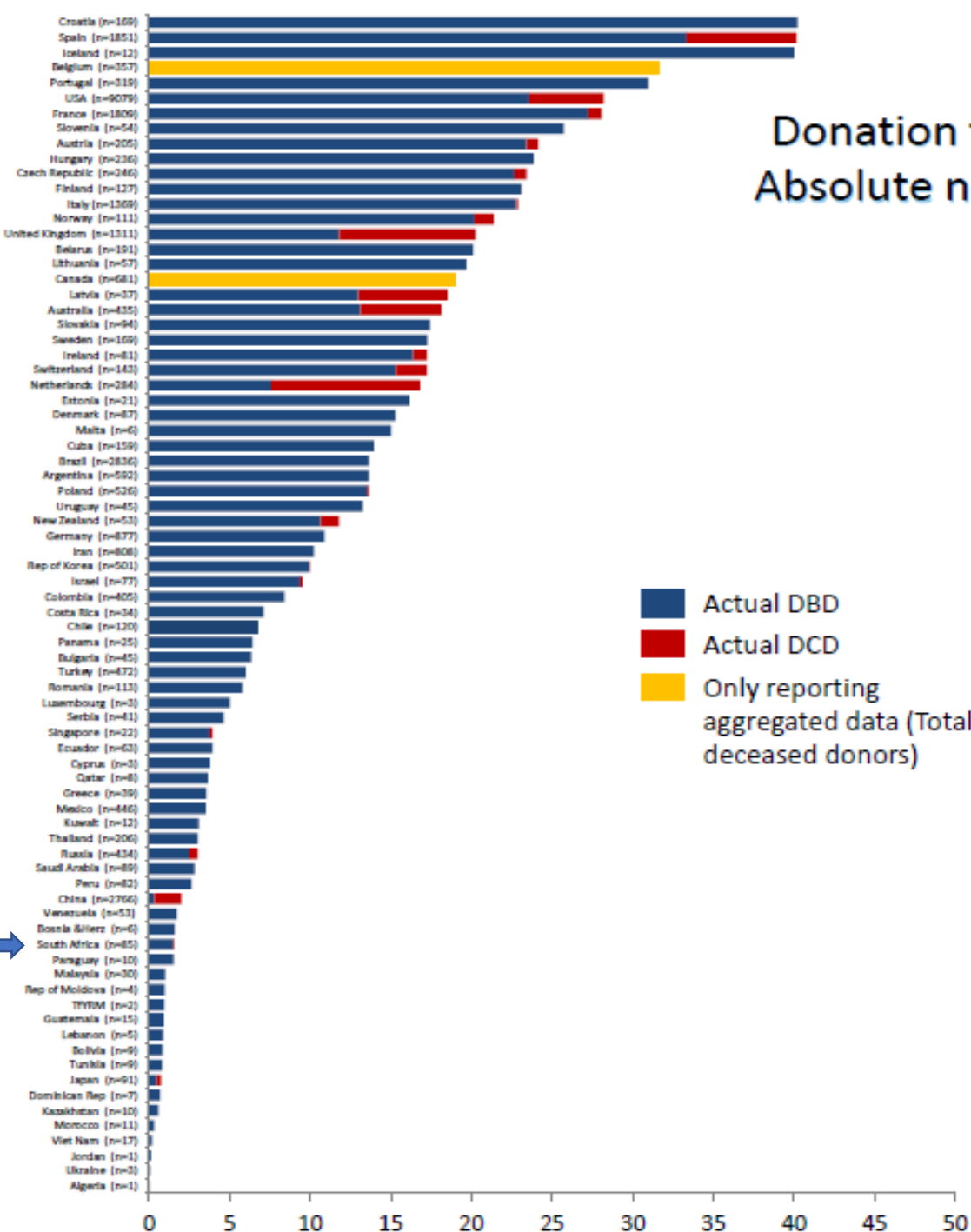
# USA overall counts of deceased donors, DBD donors, and DCD donors, 2005-2016



## Absolute numbers of DCD and DBD. Percentage of DCD. Global data. 2011-2015



**DECEASED ORGAN DONORS IN 2015: 31,812**



South Africa total numbers of Deceased donors

