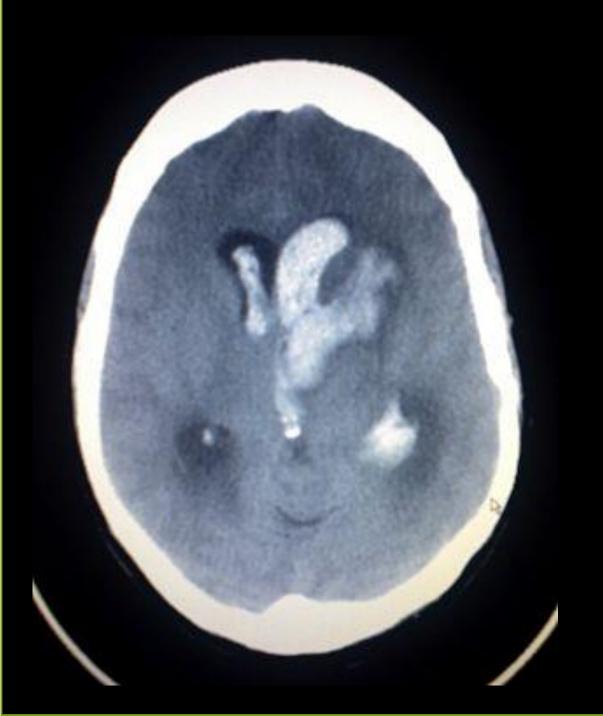
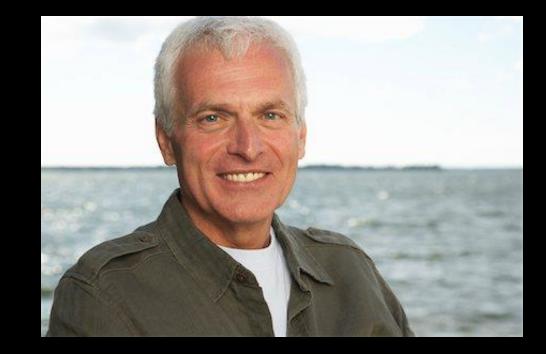
# Lighting a candle on the darkest of nights.

# Re-thinking the role of Emergency in Organ Donation

DR MARTIN DUTCH EMERGENCY PHYSICIAN AND MEDICAL DONATION SPECIALIST ROYAL MELBOURNE HOSPITAL.







#### Who we miss in ED

Average Age: 60 years

80% Were intubated 80% Had Intracranial Hemorrhage





### Don't make notes....

#### https://tinyurl.com/ACEM2018OD8

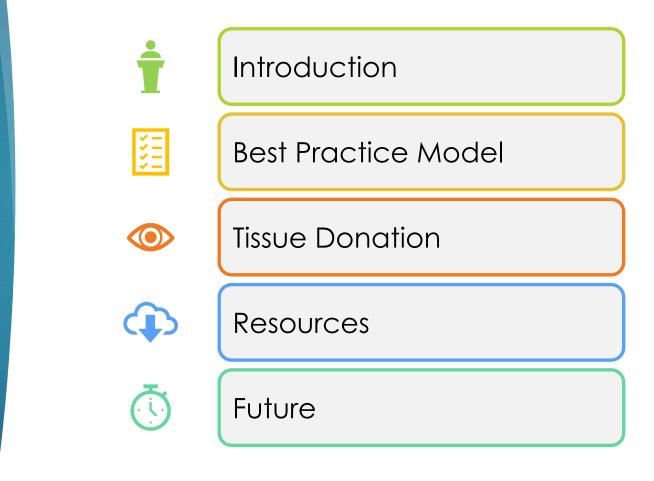








#### Objectives of this session



7

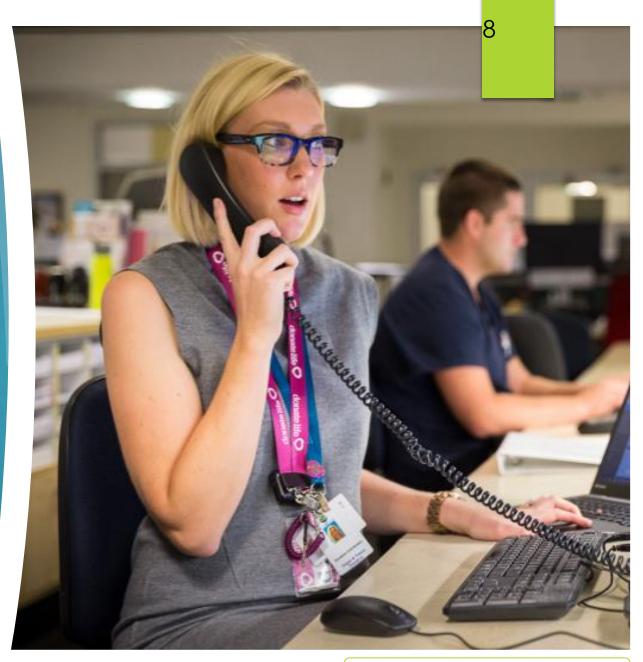




Australian Government Organ and Tissue Authority



- > > 250 DonateLife staff
- > 150 full-time equivalent positions
- > over 90 hospitals
- eight DonateLife Agencies across Australia.





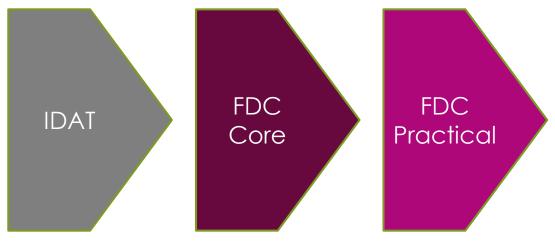


#### Donation Specialists

- Medical Donation Specialists
- Nurse Donation Specialists
- Nurse Donation Specialist Coordinators



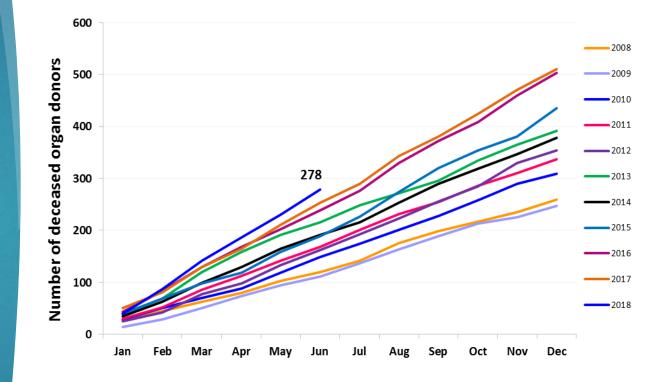
#### **Education Pathway**





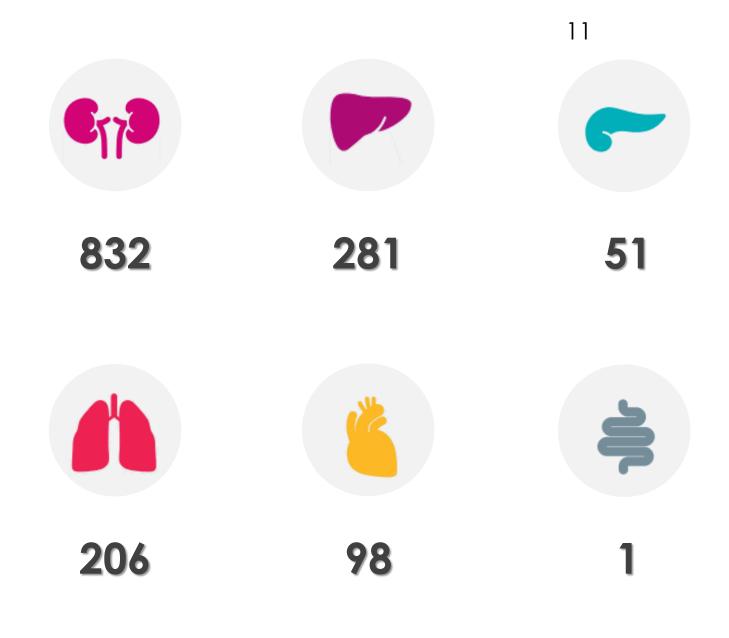
# 2018 On-track for > 550 donors

2017: 510 Donors. 2009: 247 Donors.





# 2017 Organ Transplants



Introduction



# 2016\* Death or De-listing probability

\*Most recent data published by ANZOD Calculated on yearly mortality/ average number of people on wait list over 2016.





# Relevance to Emergency Medicine?

# Why give a rat's?



Introduction



#### Most Donors come through Emergency





4,705



Death in Australian EDs /yr<sup>1</sup>

Of missed potential donors occur In emergency.<sup>2</sup>

1 Australian Hospital Statistics. Emergency Department Care. 2016-2017. https://www.aihw.gov.au/getmedia/981140ee-3957-4d47-9032-18ca89b519b0/aihw-hse-194.pdf.aspx?inline=true

2 Opdam HI, Silvester W. Identifying the potential organ donor: an audit of hospital deaths. Intensive care medicine. 2004 Jul 1;30(7):1390-7.



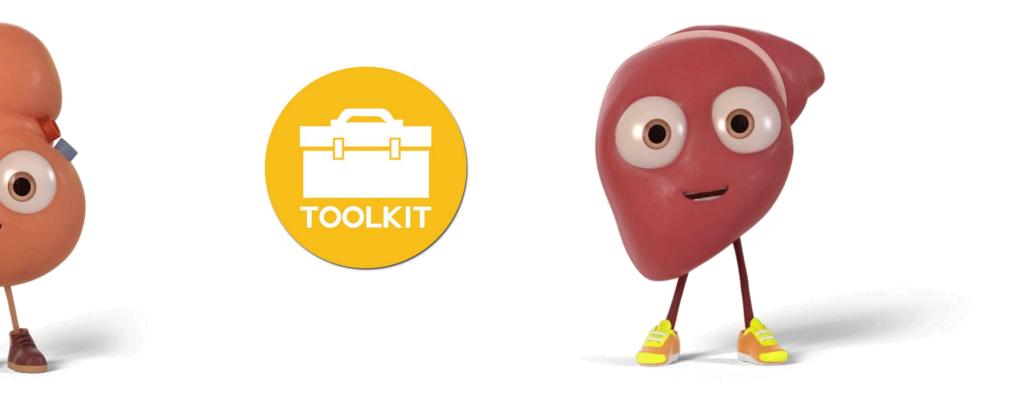
# What you do matters



1 Г











Best Practice in offering Organ and Tissue Donation



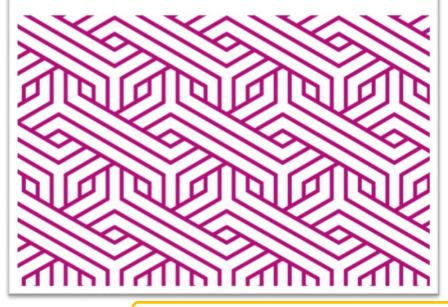
Helen Opdam National Medical Director





Best Practice Guideline for Offering Organ and Tissue Donation in Australia

June 2017



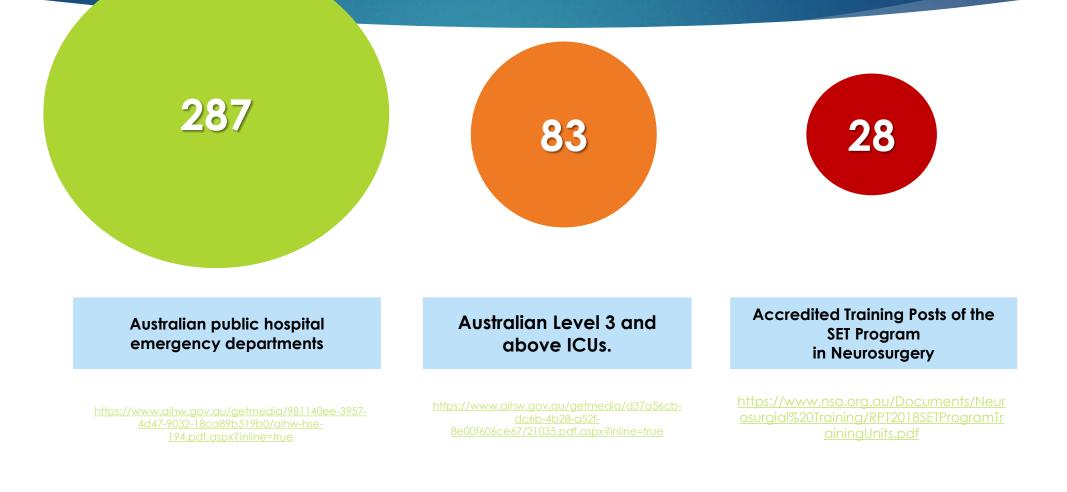
Donatelife.gov.au

ELEMENT 1	Early Identification and Referral to a Donation Specialist
ELEMENT 2	An independent donation specialist is involved in offering donation
ELEMENT 3	Family needs to understand that death has occurred, or will occur post withdrawal of life-supporting treatment.
ELEMENT 4	The Organ Donor Register is checked prior to offering donation
ELEMENT 5	Pre-meeting between treating team and donation specialist
ELEMENT 6	Donation Specialist present when donation is first raised
ELEMENT 7	Family are provided with information to make an informed and enduring decision
ELEMENT 8	Post Family Donation Conversation Process review





### The Australian Healthcare Landscape





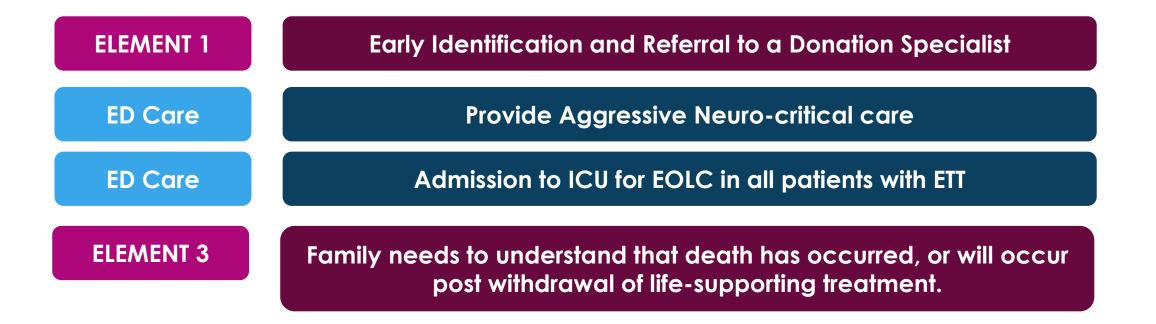
# Scenario 1:

# The Tertiary Centre



Royal Melbourne Hospital, Vic

# The Tertiary Centre





#### Early Identification and Referral to a Donation Specialist

Why?



Confirm Medical Suitability



- Check patient's wishes on AODR
- Facilitate ICU Admission



 $(\mathbf{O})$ 

Additional Bedside
 Resources



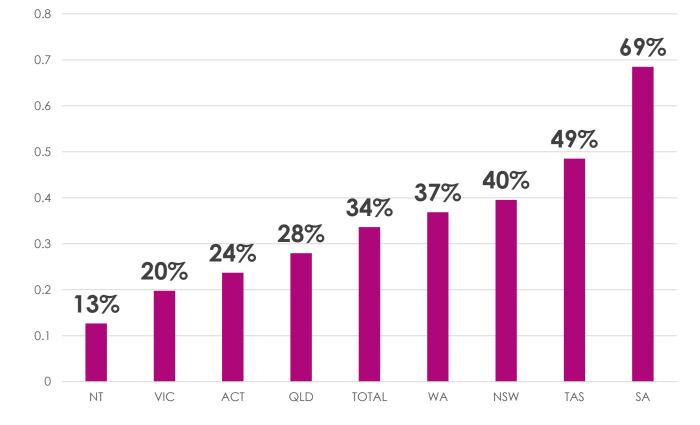
Problem Solving



• AODR

Administered by Medicare. Donation specialists are only people able to access Contains consents and refusals. Did you know?

#### Percentage of Population Registered on AODR





#### Early Identification and Referral to a Donation Specialist

How?

#### Lanyard Cards



 Nursing and Medical Education



M&M Review



#### Clinical Champion



Why?



 Early prognostication in catastrophic brain injuries is difficult



 Optimise outcomes for survivors



 Optimises number of viable organ in organ donors



Reduces graft dysfunction



#### Did you Know?

active DOI 10.1007/s12028-015-0137-6 **REVIEW ARTICLE** 

Recommendations for the Critical Care Management of Devastating Brain Injury: Prognostication, Psychosocial, and Ethical Management

A Position Statement for Healthcare Professionals from the Neurocritical Care Society

Michael J. Souter<sup>1</sup> · Patricia A. Bissitt<sup>2,3</sup> · Sandralee Blosser<sup>4,5</sup> · Jordan Bonomo David Greer<sup>8</sup> · Draga Jichici<sup>9</sup> · Dea Mahanes<sup>10</sup> · Evie G. Marcolini<sup>11</sup> · Charles Miller<sup>12</sup> · Kiranpal Sangha<sup>13</sup> · Susan Yeager<sup>1</sup>

Published online: 18 April 2015 © Stringer Science+Basiness Media New York 2015

Michael J. Souter

manuter@ma edu

Cincinnati, OH, USA

OH. USA Springer

Abstract Devastating brain injuries (DBIs) profoundly damage cerebral function and frequently cause death. DBI cine, nursing, and pharmacy to develop an evidence-based survivors admitted to critical care will suffer both intracranial and extracranial effects from their brain injury. The indicators for this guideline to be used by critical care physicians, of quality care in DBI are not completely defined, and despite neurologists, emergency physicians, and other health profesbest efforts many patients will not survive, although others sionals, with specific emphasis on management during the first may have better outcomes than originally anticipated. Inac-72-h post-injury, Following an extensive literature review, the termination of life support, thereby biasing outcomes research is almost invariably dismal. Because of the potential comdevastating brain injury, the Neurocritical Care Society or- chosocial issues, and ethical considerations, ganized a panel of expert clinicians from neurocritical care.

<sup>1</sup> Departments of Anesthesiology & Pain Medicine, and Neurological surgery, Harborview Medical Center,

University of Washington, Seattle, WA 98104, USA

<sup>2</sup> Harborview Medical Center, University of Washington

<sup>6</sup> Department of Emergency Medicine, Division of Critical Care, University of Cincinnati College of Medicine,

Department of Neurosurgery, Division of Neurocritical Care,

University of Cincinnati College of Medicine, Cincinnati,

School of Numing, Seattle, WA, USA 3 Swedish Medical Center, Seattle, WA, USA Pittsburgh Critical Care Associates, Pittsburgh, PA, USA \* Penn State Hershey Medical Center, Hershey, PA, USA

curacies in prognostication can result in premature panel used the GRADE methodology to evaluate the robustness of the data. They made actionable recommendations and creating a self-fulfilling cycle where the predicted course based on the quality of evidence, as well as on considerations of risk: benefit ratios, cost, and user preference. The panel nexities and controversies involved in the management of generated recommendations regarding prognostication, psy-Keywords Devastating brain injury

neuroanesthesia, neurology, neurosurgery, emergency medi-

guideline with practice recommendations. The panel intends

CrossMark

Bectronic supplementary material The online version of this article (doi: 10.1007/s12028-015-0137-6) contains supplementary material, which is available to authorized users. Critical care management · Neurocritical care · Evidence · Guidelines · Recommendations · GRADE

> Departments of Neurology and Neurosurgery, Yale University School of Medicine, New Haven, CT, USA 9 Department of Neurology and Critical Care Medicine, McMaster University, Hamilton, ON, USA

10 University of Virginia Health System, Charlottesville, VA,

<sup>11</sup> Departments of Emergency Medicine and Neurology, Divisions of Neurocritical Care and Emergency Neurology and Stargical Critical Care, Yafe University School of Medicine, New Haven, CT, USA

<sup>12</sup> Sanford University South Dakota School of Medicine, Sioux Falls, SD, USA <sup>1</sup> University of Cincinnati Medical Center and University of

Cincinnati College of Pharmacy, Cincinnati, OH, USA The Ohio State University Wexner Medical Center, Columbus OH USA

MANAGEMENT OF PERCEIVED DEVASTATING **BRAIN INJURY AFTER** HOSPITAL ADMISSION

A Consensus Statement



Souter MJ, Blissitt PA, Blosser S, Bonomo J, Greer D, Jichici D, Mahanes D, Marcolini EG, Miller C, Sangha K, Yeager S. Recommendations for the critical care management of devastating brain injury: prognostication, psychosocial, and ethical management. Neurocritical Care. 2015 Aug 1;23(1):4-13.



Did you Know?

"There are patients in whom severe brain injury is perceived to be devastating and active intervention not thought to be appropriate.

However, **prognostication at this stage can be inaccurate**, and a period of physiological stabilisation and observation is recommended to improve the quality of decision making.

Patients who are intubated will require admission to critical care for this period of observation..."



# Achieving normal physiology increases organs per donor



# The number of people who donated 4 or more organs.

#### UNOS Donor Management Goals

Donor Management Goals	Parameters
Mean arterial pressure	60–100 mm Hg
Central venous pressure	4–10 mm Hg
Ejection fraction	>50%
Vasopressors	$\leq 1$ and low dose <sup><i>a</i></sup>
Arterial blood gas pH	7.3–7.45
Pao,:Fio,	>300
Serum sodium	135–155 mEq/L
Blood glucose	<150 mg/dL
Urine output	0.5–3 mL/kg/hr over 4 hrs

<sup>*a*</sup>Low dose of vasopressors was defined as dopamine  $\leq 10 \ \mu g/kg/min$ , neosynephrine  $\leq 60 \ \mu g/kg/min$ , and norepinephrine  $\leq 10 \ \mu g/kg/min$ .



## Achieving normal physiology improves post transplant function



Reduction in delayed graft function

	dax 10.1111/apt.10060
	or Management Goals on d Graft Function in Kidney
ki**, M. S. PateP, O. Ahmed*, Mooney*, C. O. Graybill*, nd A. Salim*, on behalf of the sck for Organ Sharing (UNOS) or Management Goals (DMG)	denor management goals, DNDD, become donora de terá Terologia determinación of dearth-ortiza, Deco terá de arteriza de la constructiva de la constructiva tended arteriza donore; HFSA, Health Resources and Services Administration, OPOs, organ precurrent nel genizazione; OPTR, Organ Precurrent nel Tanopla- tation Network; OTPR, organs transplanted per donor; For Organs Shavien; constructivo DS, United Network for Organs Shavien; constructivo DS, United Network
l Care Section, Portland Veterans Atlairs Pertiand, OR Surgery, Massachusetts General , MA	Received 23 July 2012, revised 21 November 2012 and accepted for publication 06 December 2012
uplantation Surgery, University of Orange, CA k for Organ Sharing, Richmond, WA	Introduction
Surgery, Cedars-Śinai Medical Center, 1 Jauthor: Darren J. Malinoski, edu	As of November 2012, there were over 116 000 patients on the Organ Procurement and Transplantation Network. IOPTN/United Network for Organ Sharing IUNOSI wait-
ecu wiedgments section.	ing list with nearly 80% of those patients waiting for kidney transplants (11, in 2010, approximately 14 100
scurment organizations (OPOs) utilize care endpoints as donor management norder to standardize care and improve objective of this study was to deter- ct of meeting DMGs on delayed graft in recal transplant recipients. All eight labet Network for Organ Sharing Re- tively implemented nine DMGs in every mologie determination of desth (DMDO).	rand transplants were performed and own 3 400 pa- tents did while on the lidowy waiting list 111. Comid- eng that transplantation is often the transmet of choice for patients with end-stage opport, failure, optimization of donor management and organ procurement is crucial in order to yield an increased quartiny and quality of organs transplanted.
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Keywords: Ca

Malinoski DJ, Patel MS, Ahmed O, Daly MC, Mooney S, Graybill CO, Foster CE, Salim A. The impact of meeting donor management goals on the development of delayed graft function in kidney transplant recipients. American Journal of Transplantation. 2013 Apr 1;13(4):993-1000.



How5



Intubation: Before scan.



Arterial Line 



Drawn up vasopressors infusions, even if hypertensive.











Sedation is swapped to propofol







#### Require Vasopressor Support



#### Admit to ICU for EOLC

Why?



Admission to ICU buys time for family to process situation.



 ICU has more experience in delivering EOLC.



 Is often an nicer environment for family.



Admission to explore OD is a cost effective se of health resources

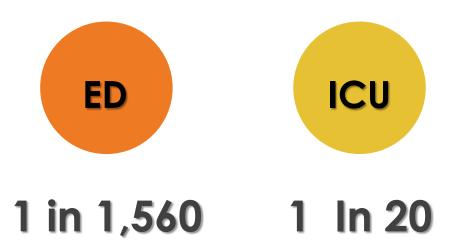


 Time improves consent rates in organ donation

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#### Admit ICU for EOLC

#### Deaths per patient encounter



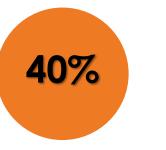
https://www.aihw.gov.au/getmedia/981140 ee-3957-4d47-9032-18ca89b519b0/aihw-hse-194.pdf.aspx?inline=true

https://www.anzics.com.au/wpcontent/uploads/2018/08/ANZICS-CORE-APD-Activity-Report-2016-17.pdf

#### ACEM2018 ASM ONTHANGUL SCIENTIFIC MEETING STH ANNULL SCIENTIFIC MEETING PERTH18-32 NOVEMBER

#### Admit to ICU for EOLC

# Effect of waiting until >8hrs after admission to raise donation.





P = 0.0092

Consent rate when raised with family <8hrs after admission Consent rate when raised with family > 8 hours after admission.



#### ACEM 2018 AS M ON THE DESCRIPTION OF THE DESCRIPTIO

#### Admit to ICU for EOLC

#### Cost Utility of admission to ICU



QALY per icu-bed day QALY per icu-bed day

# Standard ICU admission

Palliative Care ICU Admission

Nunnink L, Cook DA. Palliative ICU beds for potential organ donors: an effective use of resources based on quality-adjusted life-years gained. Critical Care and Resuscitation. 2016 Mar;18(1):37.



#### Admit to ICU for EOLC

Hows



MOU with ICU: That ICU admission is appropriate for EOLC in all intubated patients.



Buy Private Sector Beds: Each OD Admission is worth 10-\$14K for the hospital.



 Consider inter-hospital transfer to facilitate OD.



 Escalation Plan: ICU Consultant/ ED Consultant



Risk-man failure to access ICU when it limits OD.



Family needs to understand that death has occurred, or will occur post withdrawal of life-supporting treatment.



Roll of ED: Expectation setting.

< -	
¥Ξ.	
<ul> <li>✓ —</li> </ul>	

Roll of ED: Introduce dying



# "I'm worried that he's dying"





#### Raising OD early in ED can offend family members still processing futility.



Each Member of the family has Different Processing Speeds

Run the conversation based on the slowest adult/teenage member



#### Allow others to catchup, by slowing things down.



"But I don't know a funeral director...

"We should call a priest...

"Could he be an organ donor...

There is time for that...."

We can help with that..."

"That's a very generous consideration, I will pass your question on to the intensive care team."



### But why are we going to intensive care?

It allows time for Uncle Bob to attend and say good bye

It's a nicer, quieter place for your family.

It gives us time to support your family and their needs

It gives us time to explore what Bob would have wanted when he dies

Who works in a hospital without a neurosurgical service?



### Scenario 2:

# Everywhere else



Tennent Creek, Northern Territory



### Potential Pathways

#### Move the team



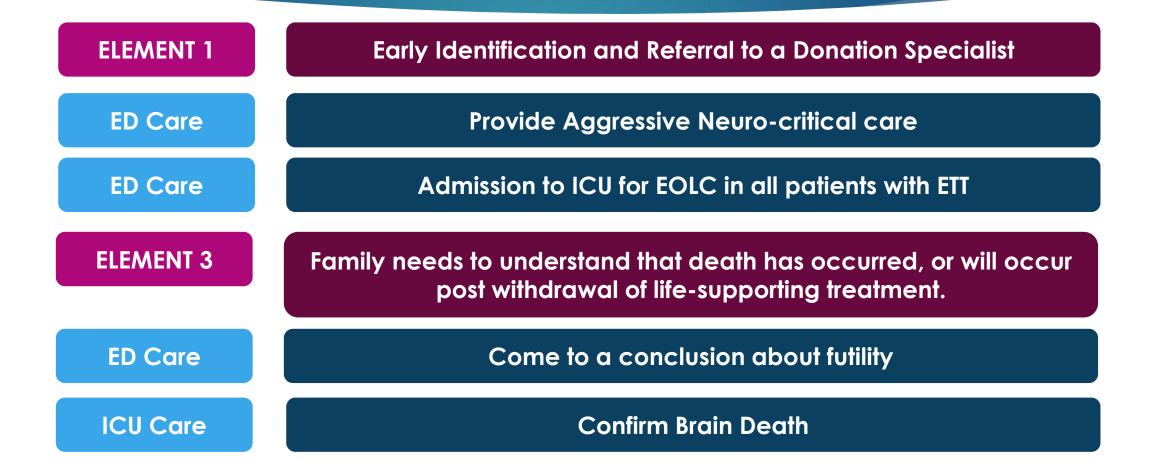
#### Move the patient



Photos: Andrew Chapman http://www.andrewchapmanphotography.com/giving-life/



### Everywhere else



### Everywhere else

ELEMENT 4	Check the AODR to know the patient's wishes
ELEMENT 5	Have a pre-meeting and allocate roles
ELEMENT 6,7	Conduct a collaborative Family Donation Conversation
ELEMENT 8	Have a post-meeting quality review

### 3 - Family meetings

- The telegraphing meeting
  - Very Serious
  - "Placing on life support"
  - Call family in

#### Early Referral

Pre-Futility and FDC meeting

- Futility meeting
  - ▶ The Wall
  - "Dying"
  - Momentum
- Family Donation Conversation
  - Collaborative approach
  - ▶ The Empty Chair
  - Information to make an informed decision to explore donation further

#### ACEM 2018 ASIM ON THE BASIM SHI ANNAL SCIENTIFIC MEETING PERTIFICACE NOVEMBER

### Telegraphing meeting

- "Very Serious"
- "Placing on life support"
- "I think you should call in the family"
- Other supports? Priest?
- Maslow's Hierarchy
  - Eat, Drink, Toilet, Rest.
  - Communicate



### Early Referral

#### Ring a donation specialist

- Confirm Provisional Medical Suitability & Clinical Need
- Check the AODR so you know if the patient has previously registered their opinion regarding organ donation.

#### ► Eg.

- ▶ 85 year old liver 🗹
- ► Hep C +ve lungs 🗹
- ▶ A patient with prostate Ca and a GBM 🗹
- A patient with un-survivable burns I

#### Handy (NOT ESSENTIAL)

#### things to have prior to phoning

- Name, DOB, Address <u>or</u> Medicare number.
- Bloods
  - ▶ U&E for renal suitability
  - ▶ LFTs for Liver Suitability
  - ▶ ABG on 100% FIO2 for Lung Suitability
  - Blood Group to identify need.
- Basic past medical history
  - Smoking History
  - Special focus on malignancy
  - Special focus of BBV



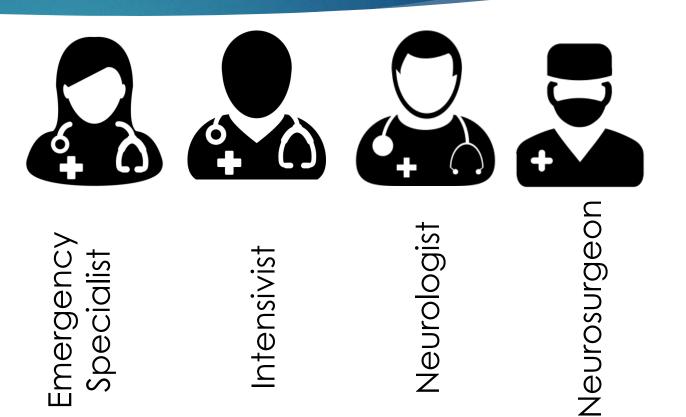


### Futility meeting: 3 Elements

- Elements which may be useful
  - ▶ The Wall
  - Momentum
  - ▶ "Dying"

### Futility meeting

- Elements which may be useful
  - The Wall
    - ► Telemedicine
  - Momentum
    - Cascading Systems Failure
  - "Dying"







### Futility meeting

#### Elements which may be useful

#### ▶ The Wall

► Telemedicine

#### Momentum

- Cascading Systems Failure
- ▶ "Dying"
- I'm going to give you some time now to spend with him/her.
- I'd like to meet with you again in 20 minutes



### Processing Time



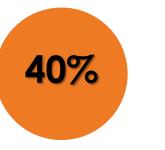
#### Futility



#### ACEM 2018 A S M ON THANKAL SCIENTIFIC MEETING STRAMMAL SCIENTIFIC MEETING PERTIFIC-22 NOVEMBER

#### Effect of waiting 8 hours

## Effect of waiting until >8hrs after admission to raise donation.







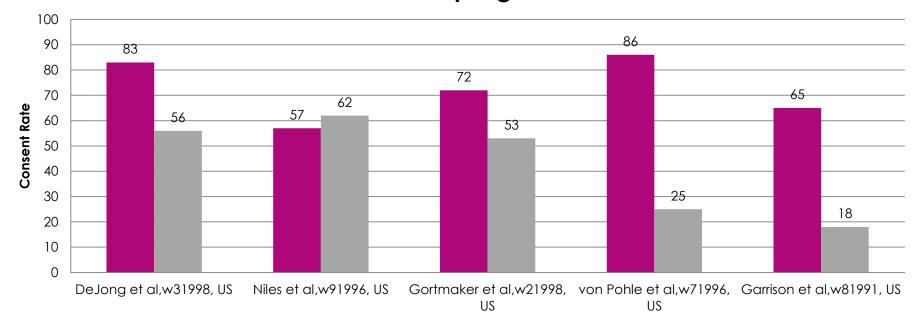
Consent rate when raised with family <8hrs after admission Consent rate when raised with family > 8 hours after admission.



# Should we separate Futility and Donation Conversations?



#### Effect of De-coupling on Consent



Simpkin AL, Robertson LC, Barber VS, Young JD. Modifiable factors influencing relatives' decision to offer organ donation: systematic review. Bmj. 2009 Apr 21;338:b991. https://www.bmj.com/content/338/bmj.b991 the**bmj** 



### Signs of understanding futility

- Crying
- ► Family Raise
  - Donation
  - What Happens Next
  - When do you remove LST?
  - Funeral Homes/ Plans





### **Raising Donation**



#### WHAT DO WE KNOW?



# 70%

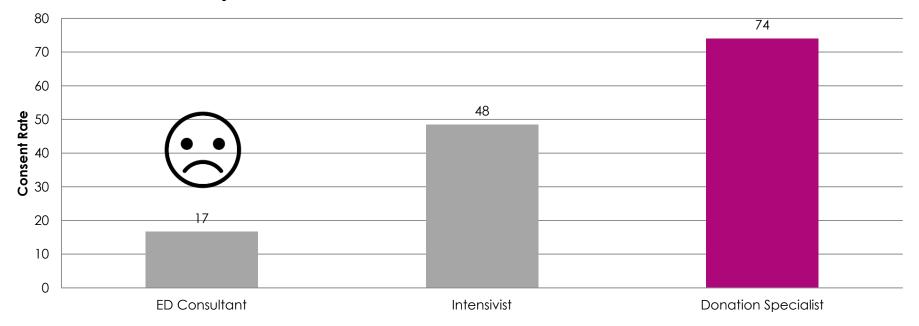
#### Of Australians would want to be an organ donor





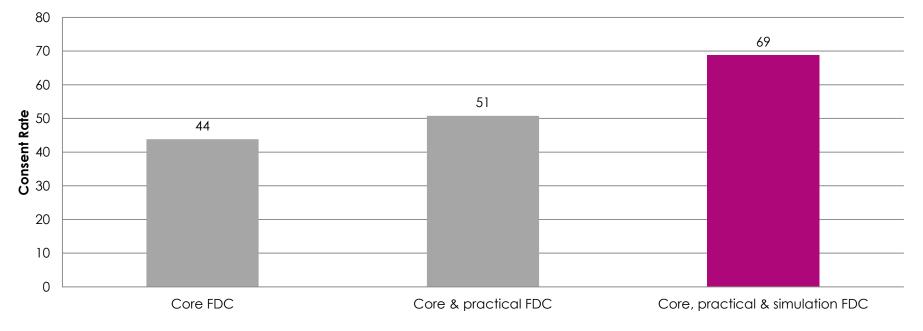
# Should we lead a conversation about donation?

#### Impact of who leads conversation on consent



### Should we get training?

#### Consent Rate

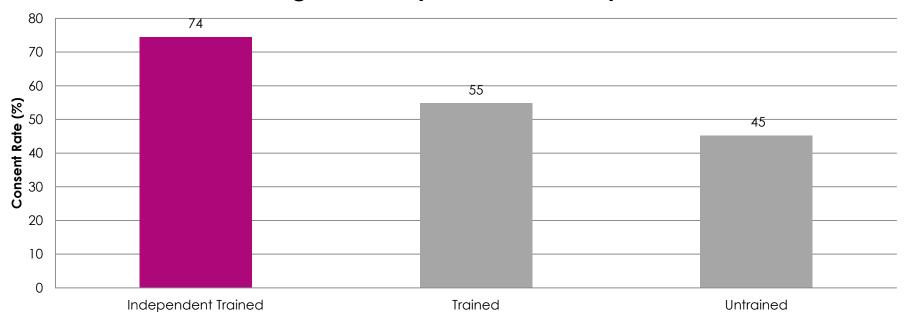






### Should we use an independent requestor?

#### Training and independence of requestor



Results of an evaluation of a pilot of models for requesting organ and tissue donation in Australia . AUSTRALIAN INSTITUTE FOR PRIMARY C AGEING.

https://donatelife.gov.au/sites/default/files/Evaluation%20Public%20Summary%20FINAL%20%2807102015%29%20OTA%20clean%20VLrevised191



#### Should we check the AODR prior to a family donation conversation?



**Patient:** YES.

Autonomy



Yes

Family:

Remove Burdon of decision making



System:

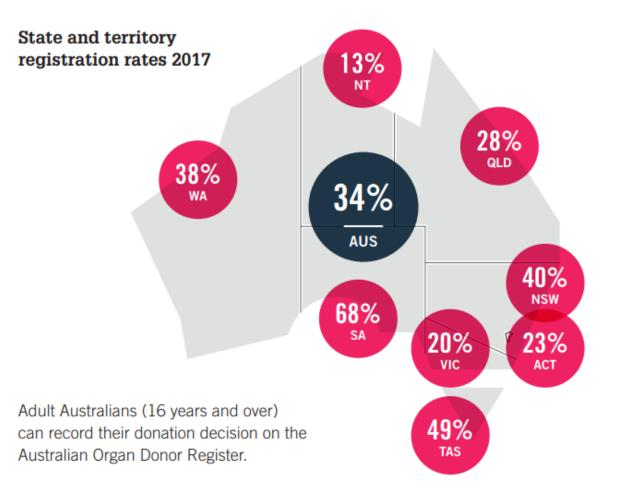
Yes Improved consent rates





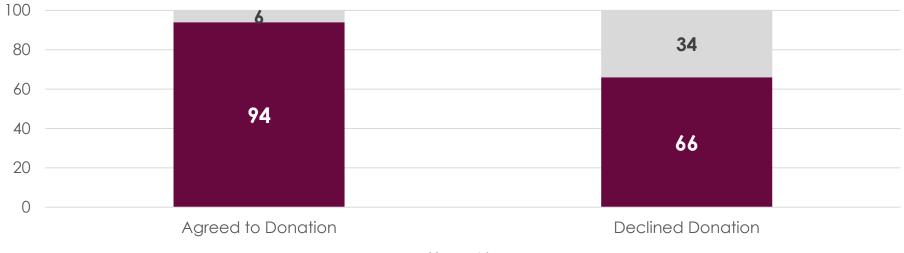
#### Australian Organ Donation Register

#### Registration Coverage



### Enduring decision?

### Would You Still make the same choice about organ donation today?

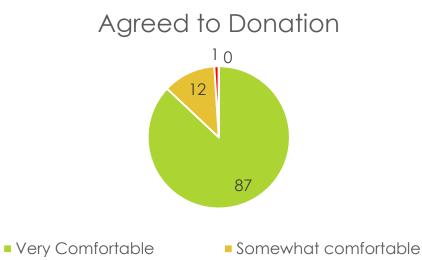


■Yes ■No



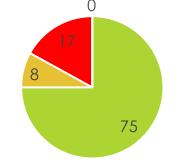
### Enduring Decision? Australian Data

# Now that some time has passed, how would you describe your level of comfort with your decision?



Somewhat uncomfortable Very Uncomfortable

Declined Donation



- Very Comfortable
   Somewhat comfortable
- Somewhat uncomfortable Very Uncomfortable

DonateLife: Phase 2 Donor Family Study.

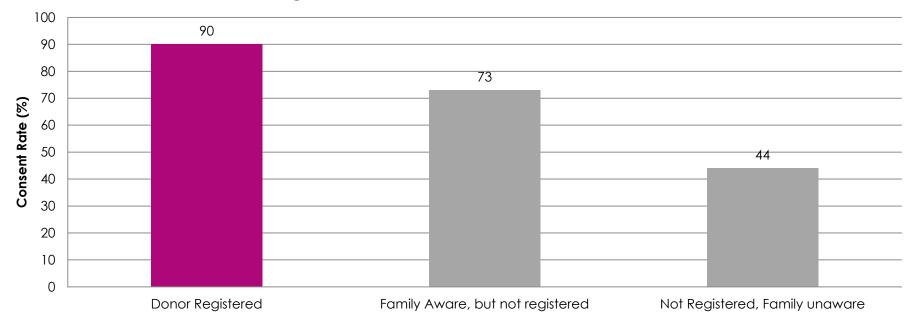
https://donatelife.gov.au/resources/donor-families/national-donor-family-study

Base Total sample, less non-response Consented to donation: Wave 2 (n=314); Wave 1 (n=185) Declined donation: Wave 2 (n=12)



### Should we check the AODR?

Effect of Registration & Family Awarenes on consent

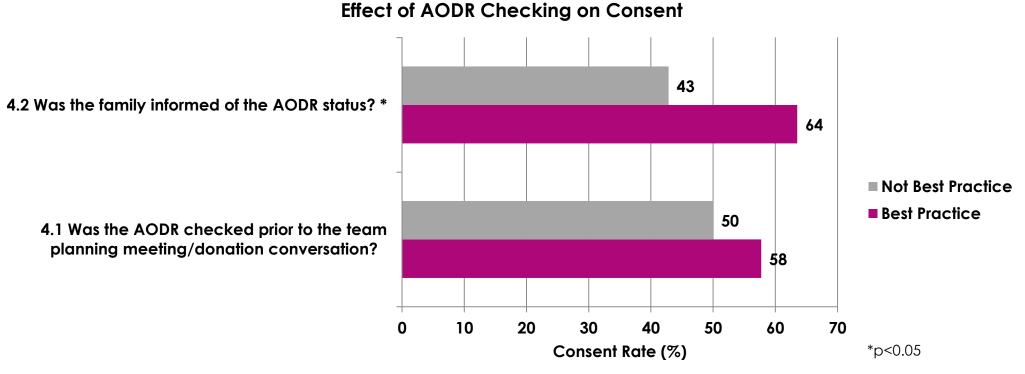


National Audit Data, Organ and Tissue Auth 🔔





### Should we check the AODR?



\_





## **Raising Donation**

### WHAT DO WE DO?

73

### Team Huddle



- Speak to Donate Life
  - Confirm AODR Status
  - Confirm Medical suitability and need
- Form at least 2 experienced clinicians
  - Treating team
  - Independent donation raiser
- Role allocation



### 3<sup>rd</sup> Party Trained Requestor



The Family Member(s)



Treating Clinician



**Trained Requestor** 

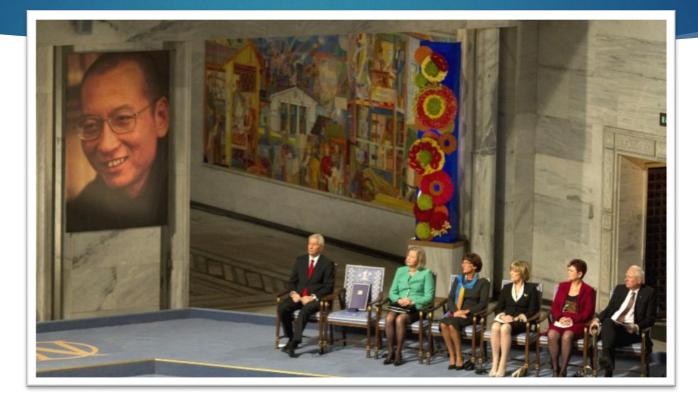
### The Discussion



- Informed and enduring decision that sits comfortably with the patient and family.
- Potential Elements
  - Understanding of the person, and their values
  - Discussing the benefits of donation
  - Informing family of AODR status
  - Donation preference: Explore donation further



### One tip...the empty chair.



The **2010 Nobel Peace Prize** was awarded to imprisoned <u>Chinese human rights activist</u> <u>Liu Xiaobo</u> "for his long and non-violent struggle for fundamental <u>human rights in China</u>".<sup>[1]</sup>

### Invite remembrance

Tell me a bit about your dad.... What sort of person was he?



70



## Introduce Donation Facts:

### Rarity

- Only a very small number of people who die in hospital can become organ donors\*
- Because of the way ... has died, he has the ability to become an organ donor.

1-3% of all hospital deaths.

### Benefits

- "someone who donates their organs, has the ability to save many peoples lives."
- "My role is to provide you with information to make a decision that would sit comfortably with your loved one, and with your family... Both now and in the future."
- "if you wanted to explore the opportunity for ... to be an organ donor, we would have to transfer him to a specialist hospital."
- OR "if ... wanted to become an organ donor, this is something we could do in our hospital."
- "What we have heard from some donors families is the act of donation has helped them find some meaning out their tragedy"



## Bringing the patient into the room

"Because your Dad has the ability to become an organ donor, we have checked if he had registered his wishes on the National Organ Donor Registry. Unfortunately, we don't have a record of his wishes.

However, If your dad was in the room hearing this discussion, what do you think his views would be about organ donation?"

### To be avoided: Questions with yes/no answers



- Have you discussed donation?
- Do you want your Dad to be an organ donor?

### Team Debrief

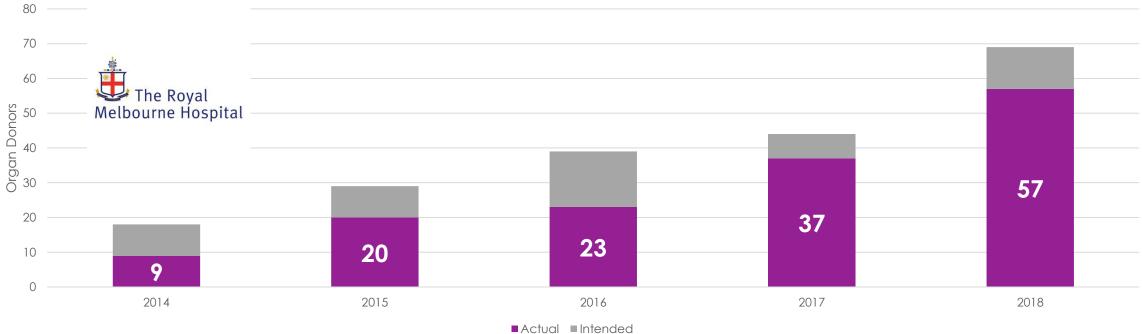






### What does it look like when we do it right?

### Organ Donors at RMH





## What does it look like when we do it right?





## What does it look like when we do it right?







## Eye and Tissue Donation in ED



Tissue Donation



### E&TD: The Gateway Drug

- More Frequent
- Targets deaths which occur within ED
- Amendable to electronic prompts
- Amendable to automatic referral pathways
- Written Feedback



For all referrals: Lanpage: 784 (24hrs) Phone: Dr Martin Dutch (via Switch 24hrs)

rmh - organdonation @mh.org.au



#### **GIVE Organ Donation Trigger:**

- Currently Intubated
- Unsurvivable condition
- Plan to palliate.

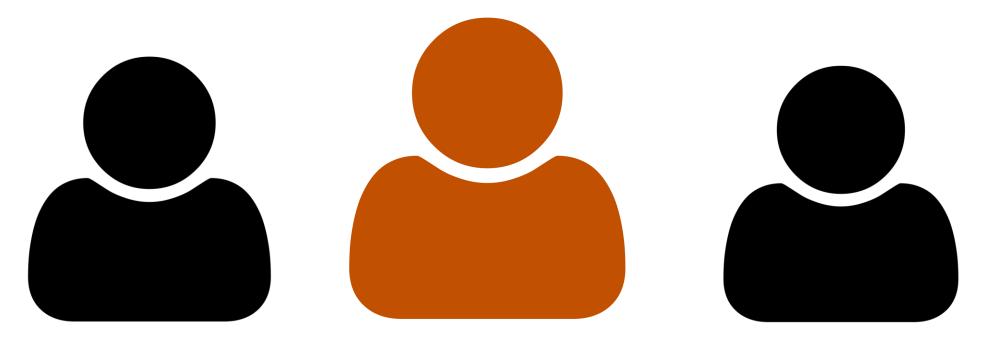
#### Eye and Tissue Donation:

- Have died.
- Have no known:
- Hep B, Hep C or HIV
- Haematological Malignancy
- Neurodegenerative Condition (Eg Alzhiemers, Parkinsons)

Please call before extubation, or raising donation with family.



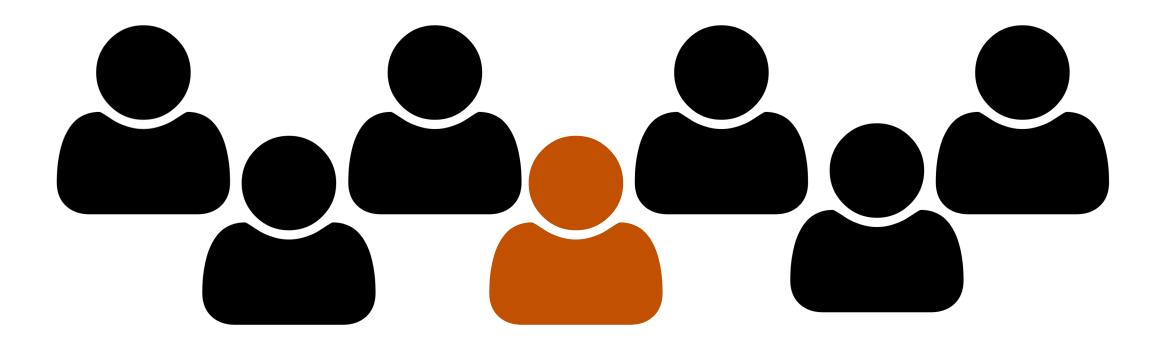
## Eye Donation in ED



Tissue Donation

88

## Tissue Donation in ED



Tissue Donation

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### Electronic Interventions

Eye and Tissue Screening Tool Screen	Eye and Tissue Screening Tool Screen		
	Clear All		
	Date	Is there a history of haematological malignancy?	
	4 August 2014 💌	<b>•</b>	
	Time	Is there a current of viraemia or fungaemia?	
	17:33	•	
	Is this a coroners case?	Is there a progressive neurological disorder eg. P	
		<b>_</b>	
	Is this an unknown cause of death?	Potential Donor	
	Ves		
		<u>C</u> ancel <u>O</u> K	

Caution Message			
=fx	Potential Donor: 4		
	Your patient is suitable for consideration for eye and tissue donation. Please ring Dr Martin Dutch via switchboard before raising this with the patients family		





## Resources

### COURSES

- IDAT
- FDC WORKSHOPS

### **VARIOUS ONLINE GUIDELINES**

- DONATE LIFE IN EACH STATE
- YOUR DONATION TEAM WITHIN YOUR HOSPITAL
- CAMERON 5<sup>TH</sup> EDITION
  - out 2019
- FOLDER HYPERLINK



### Contact Numbers for DonateLife





# We could use somebody...

SOMEONE LIKE YOU.