



























Different Family Behaviours Blood and Transplant						
	DBD Donation after Br Death	rain	DCD Donation after Circulatory Death			
	69%	CONSENT	59%			
	25	ODR Overrule	63			
	17	Length of the Process = Decline	124			
	50%	Acceptance Order of St John Award for Organ Donation	75%			
			Yes I doi organ don			



Deceased donatio balance sheet	Deceased donation Blood and Transplar Dalance sheet				
	DBD	DCD			
Family approaches	1293	1941			
Transplants	2632	1267			
Transplants / family approach	2.03	0.65			
DBD: one family approace DCD: two family approace		-			
	Yes I donation				
























































































































A New Kidney Offering Scheme





























Impact of opt out legislation in Wales















Is it better to accept the offer of a DCD liver or wait for a potential DBD liver













	SONT	1 st International Workshop on Non Heart Beating Donation (Maastricht 1995)			
UNCONTROLLED	I	Dead on arrival			
	II	Unsuccessful resuscitation			
OLLED		Awaiting cardiac arrest			
CONTROLLED	IV	Cardiac arrest while brain death			
		Kootstra G. Transplant Proc 1995; 27: 2983			

























	Patients with devastating brain injuries	Patients with terminal neurodegenerative disorders	Patients with terminal respiratory diseases	Patients with terminal heart diseases (including those under therapeutic ECMO)
Austria	Х	Х	Х	X
Belgium	Х	Х		
Czech Rep.	Х	Х	Х	Х
France	Х*			Х
Ireland	Х	Х	Х	Х
Italy	Х*			Х
Netherlands	Х	Х	Х	Х
Norway	Х*			Х
Spain	Х*	Х	Х	Х
Sweden	Х*			
Switzerland	Х*	Х	Х	Х
United Kingdom	Х	Х	Х	Х
	12	8	7	10



























Effectiveness o	of DCD an	d DBD in	2016*
	DBD	cDCD	uDCD
Actual donors	7,268	1,284	262
Utilised donors	6,771	1,165	196
Utilisation Rate (%)	93%	91%	75%
Organs recovered per donor	3.8	2.8	2.2
Organs transplanted per donor	3.5	2.6	1.6
Kidneys recovered	12,628	2,421	472
Kidneys transplanted	11,036	2,017	322
Kidneys transplanted (%)	87%	83%	68%
Livers recovered	6,074	647	35
Livers transplanted	5,411	492	17
Livers transplanted (%)	89%	76%	49%
Lungs recovered	2610	249	17
Lungs transplanted	2316	218	15
	89%	88%	88%





			edicine terretoria d'Atolica à sudicerri à sudicerri à sudicerri	COUNCIL OF EUROPE
Post-trans	plant outcomes 20	08-20	15	
		cDCD (1,497)	uDCD (66)	
	1 graft survival	82%	77%	
	1 year patient survival	90%	85%	ns
N= 1,563				
		cDCD (226)	uDCD (52)	
* *	1 year graft survival	87%	78%	
N= 278	1 year patient survival	87%	78%	ns
		cDCD (334)	uDCD (0)	
	1 year graft survival (death censored)	85%	-	
N= 334	1 year patient survival	98%	-	
	Lomero M, et al. Transpl Int. 2019	Sep 3. doi:	10.1111/tri	.13506.









New technologies in Preservation and Perfusion NRP (Normothermic Regional Perfusion)

Gabriel C. Oniscu

Consultant Transplant Surgeon / NRS Clinician / Honorary Reader Director, Edinburgh Transplant Centre, Royal Infirmary of Edinburgh
















Edinburgh Transplant Centre

What to do with this information?

- Perfusion and oxygenation parameters
 - Modulate parameters of perfusion
- Liver function

Oniscu G et al. AM J Transplant 2014; 14: 2846-2854

- Hepatocyte function
- Metabolic function
- Is the liver going to work?

Bloo	d Results	Range		0.5h	1h	1.5h	2h
	РН	7.35-7.45	7.14	7.47	7.52	7.50	7.60
ses	pCO2	4.5-6.0	6.58	3.96	3.51	3.27	3.23
ous/Arterial Gases	pO2	5.0-8.0	8.56	6.52	5.93	4.82	4.94
Arter	HCO3	22-28	15.5	21.4	23.3	24.8	26.7
/snoi	BE	-3 - +3	-12.2	-3.7	-1.4	0.6	2.6
Vei	Glucose	3.6-5.8	6.3	6.6	6.8	5.8	7.0
	Lactate	0.4-1.4	8.3	5.9	4.6	4.8	3.2
	Bili	3-21	<5	<5	<5	<5	<5
FBC	ALT	10-50	51	45	53	68	75
stry/	AST	10-50	42	42	53	68	75
Biochemistry / FBC	ALP	50-250	8	14	17	19	20
Bioc	Creat	60-120	54	53	55	58	69
	Hb	115-180	35	47	59	58	69

NRP – Variable interpretation of perfusion data

Criteria	Range	Program
ALT	< 4 times upper limit	Spain, France
	Trend	UK
	<1000	Italy
Lactate	Downward trend	all
Macroscopic appearance		all
Liver Bx	<20 % steatosis	France
	< 30% steatosis	Italy
Bile production/quality	рН	UK

Fondevila C et al. Am J Transplant 2007; 7: 1849-1855 S Watson CJ et al. Transplantation 2017 epub ahead of print

Savier E et al. Liver Transplantation 2015; 21: 631-643



er clinical outcomes	cal outcomos		
rer clinical outcomes			
	NRP liver donors	Comparator cohort	P valu
	(n = 43)	(n = 188)	
Bile duct complications			
Biliary leak	3/43 (7%)	18/175 (10%)	0.772
Anastomotic stricture	3/42 (7%)	46/171 (27%)	0.006
Ischaemic cholangiopathy	0/42 (0%)	46/171 (27%)	<0.000





cDCD NRP liver transplant outcomes

Graft survival at one year	87%	78%	0.11
Ischaemic cholangiopathy	2%	12%	0.01
Biliary complications	9%	24%	0.006
Primary non function	2%	4%	n.s
Early Allograft Dysfunction	22%	29%	n.s
	NRP N=152	No-NRP N=218	P value

NRP the only significant factor preventing the development of IC

Hessheimer A et al. ILTS 2018 abstract 0-002 Coll E et al. TTS 2018 abstract 593.8





















Edinburgh Transplant Ce	ntre			
NI	RP – ££ savings			
	Additional NRP costs - £4,0	53/patient		
		NRP DCD	Standard DCD	
	Death due to complications (n) Graft survival (n)	4 69	6 62	
	Re-Tx (n)	1.91	8.45	
	Death after re-Tx (n)	0.1	0.67	
	Model Costs* (£ mil)	2.38	3.55	
	Cost/surviving patient (£, 000)	33,5	50,5	£17,000 saving
	(* model base	ed on a cohort of 100	cases in each arm)	



		Monetary value / QALY = £6		
		10 yr Costs	QALYS	
Retrieval costs		£219,179		
Equipment costs		£62,074		
Additional NRP Tx	Waiting list costs	-£799,654	85.6	
	Tx cost (incl follow-up)	£1,698,458		
Converted Tx		£253,533	21.6	
Total		£1,433,589	107.3	





Conclusion

- NRP is a highly disruptive technology in DCD donation & transplantation
- Increases organ recovery rates
- Increases likelihood of organ utilization
 - 4.5 x livers
 - 4.5x kidney
 - 2x pancreas
- Excellent clinical outcomes
- NRP should become the gold standard for organ procurement in DCD

Acknowledgements

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Moira Perrin Bridget Gunson Brian Davidson Sophie Hughes

Equipment

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What limits transplantation?

- Status quo is not 'acceptable'
 - Long waiting lists
 - Restrictive listing criteria
 - Poor organ utilisation (e.g.62%)
 - Waiting list mortality (e.g. 12%)
 - Postoperative morbidity & mortality

Can we use technology to change the limits?





























- European randomised trial (COPE)*
 - Discard rate reduced 16/137 (12%) vs. 32/133 (24%)
 - DCD discard reduced 7/40 (18%) vs. 17/38 (45%)
- Birmingham discarded liver trial**
 - 31 nationally-discarded livers perfused
 - 22 transplanted, 100% functioning at 3 months
- Cambridge transplant rate increased***
 - 12 months since introducing NMP for high-risk organs
 - 37 organs perfused; 27 transplanted
 - 23% increase in annual liver transplant number

*Nasralla et al. Nature 2018 **Data courtesy D Mirza ***Data courtesy of C Watson

Normothermic kidney perfusion





Transplantation of declined organs

Cambridge, UK

- DCD kidneys; poor perfusion; declined by all centres
- 60 minutes NMP; good flow; good appearance
- Both kidneys transplanted; immediate function



Hosgood & Nicholson, Am J Trans 2016



























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Hypothermic Oxygenated PErfusion: HOPE and D-HOPE

- HOPE: portal vein perfusion alone
 - Dutkowski, Zurich
- DHOPE: PV and HA
- Porte, Groningen
- Perfusate:
 - MP-UW solution + glutathione
- End ischaemic perfusion
 - 1 2 hours



Dutkowski et al. Ann Surg 2015; 262:764









How do we choose which technology to use?

What are their strengths?

Extend preservation

- Logistics
 - Theatre availability / Multiple transplants
 - Difficult recipient surgery
 - Day time surgery
- Biopsy
 - Special stains, e.g. fibrosis; sarcoid
 - Donor malignancy exclusion








Death and liver transplantation: the surgeon's dilemma

- If I accept the liver and transplant it, but it doesn't work
 - The patient dies
 - It's my fault
- If I don't accept the liver and the patient dies on the waiting list
 - It's fate
 - It's not my fault ... is it?







































































Timings following identification of futile treatment & consent for DCD organ donation:













Timings following identification of futile treatment & consent for DCD organ donation:



Donor		DCD n=75
Demographics	Age Med(IQR)	36 (30-43)
	Male n (%)	61 (82)
	Height cm	175 (171-180)
	NRP/DPP	23/52
	OCS/CS	73/2
	Cause of Death	
	HBI n (%)	42%
	ICH n (%)	22%
-	TBI n (%)	18%
Papworth Hospital NES	Other n (%)	18%

		-
Outcomes		DCD n=75
	Survival	
	30 day survival n (%)	100%
	90 Day survival n (%)	95%
	1 year survival (33 patients to Oct 2017)	89%
	Mechanical Support	
	IABP n (%)	20%
	VA-ECMO n (%)	10%
Papworth Hospital NUES Wellwarden Hos	VAD n (%)	4%

Ischaemic Timings NRP/DPP			
Time	NRP n=17	DPP n=27	P value
Withdrawal to death (mins) Med(IQR)	17 (13-21)	18 (14-25)	ns
Donation Withdrawal Ischaemic Time (mins)	24 (21-28)	36 (30-41)	0.005
Functional Warm Ischaemic Time (mins)	18 (16-22)	25 (23-30)	0.003
NRP Duration (mins)	39 (32-52)	-	-
OCS Perfusion Time (mins)	173 (140-186)	243(210- 280)	0.003
Starting A lactate (mmol/L)	6.34 (3.49- 6.83)	7.33 (6.39- 9.25)	ns
Final A lactate (mmol/L)	4.25 (3.48- 6.98)	5.5 (4.05- 6.7)	ns
Implant Duration (mins)	32 (31-39)	42 (35-51)	0.03

Issues with NRP/DPP

• Organ assessment

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DCD Clinical Program

Early Outcomes after Heart Transplantation from DCD donors

• Set up February 2015

- Early Outcomes
 - Comparable allograft function, hospital stay, treated rejection episodes.
 - 90 day survival DCD 92%
 DBD 96% (p= 1.0)

DCD (n=26)	DBD (n=26)	p value
4.9 (4.0-5.2)	3.9 (3.2-4.4)	0.006
2.5 (2.1-2.7)	2.0 (1.8-2.4)	0.04
63 (58-63)	63 (62-63)	1.00
20 (17-28)	27 (21-34)	0.09
9 (35)	15 (58)	0.15
92 (24)	96 (25)	1.00
	4.9 (4.0-5.2) 2.5 (2.1-2.7) 63 (58-63) 20 (17-28) 9 (35)	4.9 (4.0-5.2) 3.9 (3.2-4.4) 2.5 (2.1-2.7) 2.0 (1.8-2.4) 63 (58-63) 63 (62-63) 20 (17-28) 27 (21-34) 9 (35) 15 (58)

Messer S et al (Dec 2017). Outcome after heart transplantation from donation after circulatory-determined death donors J Heart Lung Transplant. 36 (3), 1311-1318.

Papworth Hospital

Renal Function at One Year

No patients on renal replacement therapy

eGFR (mL/min/1.73m ²)	DCD	DBD	P value
>60	53%	58%	
30-60	47%	38%	0.59
<30	0%	14%	
		Papworth Hospital NHS Foundation Trust	UNIVERSI CAMBRI





Other solid organ usage with DCD heart Tx:			
Organ	Donor organ utilisation		
		Papworth DCD heart	
		donors	
Heart		83 %	
Lung		15 %	
Kidney		78 %	
Liver		47 %	
Pancreas		26 %	
		Papworth Hospital	

Normothermic Regional Perfusion of Donors Following Circulatory Death Improves Outcomes in	Papworth Hospital	
Liver Transplantation. E. Mowlem, ¹ L. Randle, ² C. Fear, ¹ K. Crick, ¹ S. Messer, ⁴ S. Large, ⁴ A. Butler, ³ C. Watson. ³ ¹ Cambridge Transplant Unit, Addenbrookes Hospital, Cambridge, United Kingdom ² OrganOx Ltd, Oxford, United Kingdom ⁹ Dept of Surgery, University of Cambridge, Cambridge, United Kingdom ⁴ Papworth Hospital, Cambridge, United Kingdom Meeting: 2017 American Transplant Congress	NRP livers (n=20)	non-NRP livers (n=40)
1y actuarial graft survival (censored for death)	100%	87%
1 year actuarial patient survival	93%	94%
1y actuarial graft survival (not death censored)	93%	81%
Peak ALT (iu/L) in week one (median (IQR))	480 (349-1016)	840 (437-1443)
Biliary anastomotic leaks	6% (n=17)	5%
Biliary anastomotic strictures	12% (n=17)	5%
Ischaemic cholangiopathy	0 (n=17)	15%

Issues with NRP/DPP

- Organ assessment
- Organ usage
- Does NRP upset other organ procurement?
- Concerns about intra-cranial blood flow





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1. NRP probably offers earliest replenishment of energy stores within all organs,

worth Hospital NUTS Mit Foundation That







5. We believe that the size of this new donor group may be as high as 100 patients/year for our 65million population (1.54donors pmp. which has the potential to raise our transplant activity by 50%).

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orth Hospital MH

- 5. We believe that the size of this new donor group may be as high as 100 patients/year for our 65million population (1.54donors pmp. which has the potential to raise our transplant activity by 50%).
- 6. A chance to transport with cold storage as the Barnard brothers did in 1967.

9 take home points

5. We believe that the size of this new donor group may be as high as 100 patients/year for our 65million population (1.54donors pmp. which has the potential to raise our transplant activity by 50%).

worth Hospital

worth Hospital MH

- 6. A chance to transport with cold storage as the Barnard brothers did in 1967.
- Heart donation from individuals dying of circulatory determined death (DCD) has led to heart transplantation in some 120pts world-wide 73 of which attended procured by 71 of which transplanted by RPH. 29% using NRP



- 8. DCD heart transplantation has delivered the same early and midterm outcomes as heart transplantation from heart donors after brain death
- 9. although NRP has 100% survival of recipients
 - i. We believe that the size of this new donor group may be as high as 100 patients/year for our 65million population (extra 1.54donors pmp.

- 8. DCD heart transplantation has delivered the same early and midterm outcomes as heart transplantation from heart donors after brain death
- 9. although NRP has 100% survival of recipients
 - i. We believe that the size of this new donor group may be as high as 100 patients/year for our 65million population (extra 1.54donors pmp.
 - ii. which has the potential to raise our transplant activity by 50%)....with a technique now has international acceptance.

UNIVERSITY OF CAMBRIDGE

orth Hospital NHS




NHS Blood and Transplant

DCD heart donation Specialist Nurse Role

Marian Ryan

Regional Manager – Organ Donation and Transplantation











NHS Blood and Transplant

Key steps

- 2006 the proposal
- Legal and ethical permissions
- · Protocols approved by national committees
- Extensive education for hospital staff
- Feasibility phase (2014)
- Clinical phase (2015)
- Evaluation and further development







































240,11		ccess to Kid	ne	y Care Pathway
				http://www.biomedownist.com/1471-2369/13/157 BMC Nephrology
	Original Article		1	RESEARCH ARTICLE Open Access
	An examination of concordar	ace and cultural competency	8	
	in the diabetes care pathway:		5	A multi-centre gualitative study exploring the
		. south Asians ilving in the	6 7	experiences of UK South Asian and White
	United Kingdom		8	
	E. Wilkinson, G. Randhawa		9	 Diabetic Patients referred for renal care
	Institute for Health Research, University of Bedfordshire, Luton, UK		11	s Emma Wilkinson ¹ , Gurdh Randhawa ^{1*} , John Feehally ² , Ken Farrington ¹ , Roger Greenwood ¹ , Reter Chol ⁴
			12	6 and Liz Lightstone ⁴
	ABSTRACT		14	
	energy and other understand how and will load have paint outputsy and present services. This was also have paint outputsy and present services in the service services and the service services and the service service services the service service service service services the service service service services and the service service service services the service service service service services the service service service service services and the service service services the service service service service services the service service service service services and the service service services the service service service service services the service service service service services and service service services and the service service service service services and the service service service service services and service services. As services the service service service service services and service services the service service service service services and service services. As services the service service service service services and service services and the service service service service services and service services and the service service service service services and service services and services and the service service service service services and service services and services	served in standards, the study annual to lowing the everyometry and the standards and the study and the study of the study and the standards and the study and the study and the study of the 200 standards. The starts and study and the study that study and the study and the study and the study of the study and the study and the study and the study of the study and the study and the study and the study of the study and the study and the study and the study and the study and the study and the study and the study and exception of the study and study and the study and exception of the study and study and the study and exception of the study and study and the study and and the study data study. The study and study and the study and the study data study and study and study and study and and the study data study. The study and study and study and and the study data study and study and study and study and and the study data.	15 19 20 21 22 28 24 28 26 27 25 29 80 81 82 83 84 85	Background: An exploration of real complication of diabetes from the prime province the in sportune for Meeting(s) and private in 6xpl free diabetes must indexe an private any private in the province of the private private intervention of the private
	Previous studies in the UK had identified a greater relative risk for diabetes-related end state renal failure	suggest that South Asians were subsequently referred later for renal care, and more likely to be lost to follow-up. ²¹	36	34 Keywords: South Asian, Patient experience, Benar complications of diabetes, Access, Care pathway
	(ECRF) in South Asians (those originating from India,	Moreover, knowledge of diabetes and its complications	88	25 Background is evidence that knowledge of diabetes and its complica- 36
	Pakistan, Bangladesh, and Sri Lanka), n-1 and suggested that quality of healthcare for South Asians is inadequate	has been seen to be poor among South Asians. ¹⁴⁴ This study - Care Pathway project - explored the concept of	89 40	 Previous studies in the UK have identified a greater rela- tions is poor among South Asians [4,6]. tive risk for type 2 diabetes related end-stage renal dis- National Service Frameworks for Diabetes and Renal 30
		patient access to quality primary care - how patients	41	28 ease (ESRD) in South Asiana (those originating from Services were introduced in the UK in 2002 and 2006 re- 30
	Address for correspondence Prof. Oanh Bashawa, Institute for Health Research.	gain access to services? and how services are perceived by patients and care providers? The premise being that	42	29 India, Pakistan, Bangladesh, and Sri Lanka) [1,2], and spectively. These Frameworks provide guidance to com- 40 preliminary evidence has suggested that guality of health missioners and providers of health care commissioners 41
	University of Buddondebins, Patteridge Dury Campan, Hitchin Road, Laton, LU2 NJF, UK	services need to be relevant and effective if the population is to have access to quality care for improved health	44	31 care for South Asians is inadequate and compliance poor about the minimum standards of care that should be 42
	E-real: gard, randhawaijhein ar tá	outcomes. The concept of access operates on multiple	45 46	32 [3,4]. There is also a low uptake of hospital-based dia- betes services, with growing evidence that South Asians recognised the disparity between ethnic groups and pro- 44
	Access this article online	levels. ¹⁷ The role of healthcare providers in facilitating	47	34 are subsequently referred later for renal care, and are moted a focus on earlier detection and ethnicity as a risk 45
	Guick Response Code: Webulle:	access includes the provision of meaningful information to support patients to make decisions about their own	40	35 more likely to be lost to follow-up [5]. Moreover, there factor to improve outcomes for diabetic renal disease 46
	www.indianjnephrol.org	care.10 Considering access in the context of primary care	80	across different population groups [7,8]. Furthermore, 47 the introduction of the Quality Outcomes Framework 48
	001	services and from the perspective of a diverse sample of providers can help to shed light on where, how, and	61 62	*Consecutions: and/and/awattook.ac.dc indicators in primary care for diabetes in 2004 and esti- 40
		for whom care could be improved in the primary care	53	Institute for Health Research, University of BedEndBire, Luton, UK mated glomerular filtration rate (eGFR) reporting in 50 Full bit of autor information is available at the end of the atticle















-	
Critical Care	Paul Murphy, Martin Smith
DTC	Christine Elding, Karen Morgan,
Transplantation	Robert Bonser, Simon Bramhall, Chris Watson
Ethics	Bobbie Farsides
Trust Executive	Julie Moore
NHS Management	Helen Bevan, Mark Britnell
Cultural & Ethnicity Expertise	Gurch Randhawa
Communications	Vivienne Parry
National Kidney Foundation	Robert Dunn
Donor Family	Michael and Kathryn Lewis





The Taskforce's enquiry into opting out 2008

- Will presumed consent be effective?
- Are there any ethical & legal obstacles?
- Will presumed consent be acceptable to
 - -healthcare professionals?
 - -general public?
 - -patients and their families?
- What are the practicalities?
 - -timescales
 - -costs



Taskforce members came to this review of presumed consent with an open mind. ODTF, November 2008

Fieldwork 2008

Empirical studies show: cultural issues are important influencing factors

Recommendation 13: 'There is an urgent requirement to identify and implement the most effective methods through which organ donation and the "gift of life" can be promoted to the general public and specifically to the BME population...." (Organs for Transplants, Organ Donation Taskforce, 2008)

ODT commissioned engagement with faith and belief group representatives.

A total of 17 interviews were conducted by Professor Randhawa (supported by COI).



Culturally Competent Staff Training

- Donor identification is everyone identified and every family asked?
- Developing a family-centred approach Role of extended family
- Definition of death Brain-stem death
- Religious and cultural values
- Complexities of grief Western and Eastern Bereavement models
- Death rituals Burial/cremation
- Grass-roots engagement with the public What are the messages and who are the messengers?
- Role of the Donation Committee?

(Randhawa, 2011)

	Religious Affiliation		Attend Weekly		Religion		'Practice'	
	2001	n N	Attend v 1994	Neekly	Importa 1994	nt N	Religion 2003	
UK Bangla & Pak	97%	409	53%	118	92%	126	80%	290
Foreign Bangla &	2170	403	5570	110	3270	120		250
Pak	97%	936	71%	703	97%	759	88%	847
UK Afro-Carib	73%	1071	24%	149	77%	151	43%	509
Foreign Afro-Carib	79%	580	44%	287	85%	292	73%	1170
UK White	78%	8893	n.a.	n.a.	n.a.	n.a.	23%)	8304
Foreign White	80%	400	17%	2009	55%	2007	42%	442
Muslims and Bangla to	Banglade	eshi Musli:	ms.					
Muslims and <u>Bangla</u> to	Banglade	eshi Musli	ms.					
Muslims and <u>Bangla</u> to	Banglade	eshi Musli:	ms.					
viusiims and <u>Bangla</u> to	Banglade	eshi Musli:	<u>ms.</u>					
viusiims and <u>Bangla</u> to	Banglade	eshi Musli:	<u>ms.</u>					
Muslims and <u>Bangla</u> to	Banglade	shi Musli:	<u>ms.</u>					
Muslims and ' <u>Bangla</u> ' to	Banglade	shi Musli:	<u>ms.</u>					






















































































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Impact	
2014/15	2018/19
6.3% of new ODR registrations were ethnicity given were BAME	7.1% of new ODR registrations were ethnicity given were BAME
BAME consent rate = 36%	BAME consent rate = 41.7%
BAME waiting list = 1957 (28.6% of list)	BAME waiting list = 1883 (31.4% of list)
80 deceased donors (6.2% of deceased donors)	121 deceased donors (7.6% of deceased donors)
159 BAME living donors (14.6% of living donors)	149 living donors (14.3% of living donors)
892 BAME organ transplants (20.3% of all transplants)	1,148 BAME organ transplants (23.2% of all transplants)













Potential issues to consider as we plan for the future.... Collation and use of data - ethnicity? religion? 'Politics' of immigration Cultural competency in national policy making Cultural competency of organ donation campaigns Equality impact assessment of transplant waiting list and organ allocation programs

 Developing an ongoing 'Organ Donation' dialogue with ALL communities is important to ensure sustainable transplantation programs





















Migrant backgrounds and ODT

- The ethnical background of neither the donor nor the recipient is critical for transplant-related decision making
- Only the medical indication determines whether a patient is listed for transplantation, not his/her nationality. For every patient, the decision is reached using a multiple assessor principle (transplant conference)
- The ethnical background is also not covered within donation and transplant related statistics



DSO

Multilingual information

- The Federal Centre for Health Education (BZgA) has the legal task of educating on the subject of organ and tissue donation.
- The BZgA offers information in several languages
- The German Donor Card is available in 29 languages, including: Arabic, Bulgarian, Danish, Estonian, Finnish, French, Greek, Gaelic, Croatian, Latvian, Lithuanian, Maltese, Dutch, Turkish...

Latvian, Ethilaman, Waitese, Duten

https://www.bzga.de/



DSQ.

Source: BZgA

9













...a long way to go

- Ethnical background of organ donors and recipients is legally not relevant for donation or transplant-related decision making
- Ethnical background of organ donors and recipients is not reported and recorded in Germany. The influence of religious affiliation on the probability of becoming an organ donor is not known in Germany
- Among the religious communities in Germany, the prevailing official opinion on organ donation is positive
- First steps
 - The German Donor Card is translated in 29 languages
 - Information material specific for Muslim community
- National initiative plan
 - One element: targeting the different religious, cultural, ethnic groups



DSC

17

· Arberten

Gemeinschaftlicher Initiativplan Organspende




















































OUTLINE

- The history of how we learn about under-represented donors
- 2. How ONT tackle the problem: action plan
- 3. Implementation of the tools
- 4. Results











Clin Transplant 2012 DOI: 10.1111/j.1399-0012.2011.01586.x	© 2012 John Wiley & Sons A/S. Clinical Transplantation
Factors related to att donation after death population in Spain	
	A random sample of the resident immigrant population in Spain, comprising 1202 subjects from: Latin america, West Europe, East Europe, North Africa, Sub- Saharan, Africa, Asia.
	Predisposition to donate varies strongly across geographical origin and religious beliefs and also shows relationships with additional socio-demographic, social integration, and informative variables.
López JS, Valentín MO, Scandroglio B, Co Martínez JM, Serna E, Matesanz R. Factor organ donation after death in the immigran Clin Transplant 2012 DOI: 10.1111/j.1399-0 © 2012 John Wiley & Sons A/S.	s related to attitudes toward t population in Spain.

Identified factors that influence the willing to donate

- Language barriers.
- * Lack of donation practices in their native countries.
- * The interpretation of one's religion towards donation.
- * Fear that the burial will not be performed as it should be.
- * Level of social integration:
 - The level of affinity with the host society.
 - The better an immigrant fits in the host society the more prone they will be to perform an altruistic gesture aimed at that society.

Conclusions from the study

- Although the majority of creeds support donation, their followers do not necessarily do so. Individual religious commitment is the main reason to refuse donation.
- The attitude toward donation within a creed may be modulated by factors from other spheres (i.e. level of social integration) that are the target of modification.
- Insufficient information about the donation and transplantation process in Spain.
- Family interview with the DC is paramount.
- Practicing muslims are the most challenging in terms of donation.

Interventions

Donor Coordinator

- Works with intercultural mediators and religious leaders to adequately channel communication.
- Trains the mediator in the Spanish model of organ donation and transplantation.
- Trains the mediator on how to collaborate with them during the family interview.

Mediator

- Helps the DC to understand the idiosyncrasy of the donor's culture, religious creed and burial ceremony.
- Helps the DC to conduct the interview with foreigners that are ignorant of the Spanish language and the NHCS.



2014:	2015:	2016:	2017:	2018:
130 / 1681 (7.7%)	157 / 1851 (8.5%)	186 / 2019 (9.2%)	199 / 2183 (9.1%)	217 / 2241 (9.7%)
UK: 21 Gemany: 11 Romania: 10 France: 7 Argentina: 7 Ecuador: 6 Portugal: 6 Colombia: 4 Senegal: 4 Perú: 4	 ✓ UK: 19 ✓ Romania: 17 ✓ Ecuador: 13 ✓ France: 10 ✓ Gemany: 9 ✓ Portugal: 8 ✓ Venezuela: 7 ✓ Brasil: 5 ✓ Rep. Dominicana: 5 ✓ Italy: 5 ✓ Filipins: 5 	 ✓ UK: 31 ✓ Romania: 22 ✓ Gemany: 15 ✓ France: 9 ✓ Argentina: 8 ✓ Ecuador: 7 ✓ Colombia: 7 ✓ Portugal: 6 ✓ Belgium: 5 ✓ Norway: 5 ✓ Venezuela: 5 	 ✓ UK 41 ✓ Gemany: 17 ✓ Romania: 17 ✓ Colombia: 11 ✓ Argentina: 9 ✓ Ecuador: 7 ✓ Venezuela: 7 ✓ Italy: 5 ✓ France: 5 ✓ Portugal: 5 ✓ Brasil: 5 ✓ Cuba: 5 	 ✓ UK: 34 ✓ Gemany: 20 ✓ Romania: 18 ✓ France: 12 ✓ Colombia: 10 ✓ Ecuador: 10 ✓ Argentina: 9 ✓ Rep. Dominicana: 9 ✓ Uruguay: 7 ✓ Brasil: 6 ✓ Portugal: 6 ✓ Venezuela: 6 ✓ Belgium: 5 ✓ Italy: 5























Operational Impact

- Reduction in 24 hour working
- Better work/life balance
- Improved donor family experience
 - -Improvement in quality of approach
 - -Potential for 2 nurses on site to expedite the process
- · Clinicians familiar with same group of nurses attending and approaching

























LEGAL FRAMEWORK AND PRINCIPLES	Contents			
How				
You can express consent or objection to organ donation and modify at any time the expressed intention.				
In the presence of a statement of intention (positive or negative) to the donation, the family can not object to the choice made in life by their relative. Having ascertained the willingness of the potential donor, the doctors will proceed to the removal in the event of a positive expressed intention.	R		LTURAL REFERENCES	
In the absence of an explicit statement of intention to donate, the doctors will perform the removal if there is no opposition from the family members.		"It is about the gift of our bodies and our possessions in Buddhism. It is about the gift of all our merits and our	An authentic Prophet "saying" affirms: "There is no illness that God would creat if He had not also created the	
Where		virtues. There's even a way to donate their	cure" "If you happen to be ill and need a	
Those who have completed the age of majority can express the intention on donation of organs and tissues in the following ways:		organs in the Buddhist tradition when the person is still alive. In this case this should be in harmony with the level of	transplant; definitely you would like someone else's help giving you the	
 at the appropriate counters of the Healthcare office that one belongs to; 		should be in narmony with the level of our practices.	necessary organ".	
 at the registry office of the municipalities that have already activated the service of intention declaration; 		When we are dead it is very useful that the body could serve to help others.	Shaykh Zaki Badawi, Muslim College / London	
 by registering to the Italian Association for the donation of organs, tissues and cells (AIDO) for the sole positive intention; 		After death there are no obstacles." His Holiness the Deat Lama	The Council of Islamic Law in Britain	
 filling out the blue card sent by the Ministry of Health in 2000 or the cards prepared by associations for the donors and patients; 		"Those who would treat me, would take	1) The doctor is the authority that can	
 with a statement on plain paper complete with personal data, dated and signed. 		care of those who re ill"	define the signs of death 2) The current medical knowledge	
The statements of intention (Le dichiarazioni di volontà), together with those collected by AIDO, are recorded in the Informative System of Transplants (SIT); with the exception of plain paper declaration. The blue card and the DonorCard, All statements. Including those unregistered in the	ADAPTED	Mahavagga VIII.2t 1 – 8	considers the cerebral arrest a definition of death	
SIT, are still considered valid under the law.	TO THE	"Donating an organ can become a great gesture of communion which gives	 The Council accepts the cerebral arrest as the end of life for the purpose of organ transplants 	
ANONYMITY - FREE OF CHARGE - RESPECT	CONTEXT	someone else a hope and a dream of a new life. I pray that the culture of organ	4) The Council sustains the organ	
It is impossible to know the name of the donor nor the recipient because the law guarantees the anonymity of both parties.	IN THE	donation will spread in our society through the creation of this network *	transplantation as a means to relieve pain or to save lives on the basis of the conditions of Shariah	
The organs are allocated according to the conditions of urgency and the clinical and immunological compatibility of the persons awaiting transplants.		The Myon, Buddhist monk and director of the Buddhist-operated Life Share	5) The Muslims can have the donor card	
It is illegal to buy or sell human organs: the donation is always voluntary, free and anonymous.	COUNTRY	Association	The next of kin of the deceased, even in the absence of a donation	
The costs of the transplant are paid by the National Health Service.	OF ORIGIN	"Organ donation is considered	card, can give consent to donate their	
Organs and tissues are taken with the greatest respect of the deceased. After the removal, the body of the deceased is available to the family for burial procedures.	OF ORIGIN	acceptable in Theravada Buddhism. To extend generous assistance to other	organs to save other lives 7) Organ donation must be free without any recompense	
LIVING DONATION OF ORGANS AND TISSUES		sentient beings is a Buddhist virtue, and this regards the case of organ donation "	8) The selling of organs is prohibited	
The kidney and part of the liver, lung, pancreas and intestine, hematopoietic stem cells (from bone marrow, peripheral blood and cord blood), skin, placenta and bone segments can be donated.		donation " Phramaha Laow Panyasiri, Abbot of The Buddhavihara Temple	Within this world, we must seize the opportunity to selfless actions toward others (SEVA), then we would have	
All other organs and tissues can be donated only after death.			the opportunity to reside in the divine abode.	
Exceptions are the brain and the gonads that can not be donated.		Allah (SWT) says in the Koran: "And if one could give life to another person, it will be as if he had saved the	abode. Guru Nanak	
THE RELIGIONS		whole humanity"		
The main religions are in favor of organ donation. All recommend that the donation should be a matter of free choice and should not be forced.		Verse 32 of Surah no.5		





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AGE	NATIONALITY	DEATH DIAGNOSIS	NEXT-OF-KIN	DONATION OUTCOME
34	ALGERIA	YES	NOT FOUND	YES
23	ITALY (BORN in THE PHILIPPENES)	YES	YES	NO
55	PHILIPPENES	YES	YES	YES
35	EGYPT	YES	YES	NO
31	UCRAINE	YES	YES	NO
32	MOLDOVA	YES	YES	YES
61	PERU	YES	YES	YES
14	NIGERIA	YES	YES	NO
30	SENEGAL	YES	YES	YES
30	PERU	YES	YES	NO
17	ITALY (BORN in THE PHILIPPENES	YES	YES	YES
54	ROMANIA	YES	YES	YES
41	NIGERIA	YES	YES	NO
57	PAKISTAN	YES	YES	NO
4	ROMANIA	YES	YES	YES
42	ROMANIA	YES	YES	NO





























Diver	Sity - Ba Total Ambassadors	ackg	round South Asian	Black/ African/ Caribbean	Other: Any other Ethnic Group
Midlands	12	8	8	0	0
London	18	9	7	0	2
Great North Cluster	40	8	5	2	1









