

Organ Donation



14th June, 2010

**Dr Mike Ferguson, Clinical Lead for Organ Donation
Charlotte Whittingham, Specialist Nurse in Organ Donation**

You've got what it takes to save a life

To join the NHS Organ Donor Register text 'GIVE' to 84718*
call 0845 60 60 600 or visit uktransplant.org.uk



*Standard text rates apply

Key Dates

- ✦ **1902** Alexis Carrel demonstrates method of joining blood vessels to make organ transplant feasible
- ✦ **1918** Blood transfusion becomes established

- ✦ **1954** First successful kidney transplant (Boston, USA)
- ✦ **1960** First UK living donor kidney transplant (Edinburgh)
- ✦ **1967** First heart transplant (Christiaan Barnard, South Africa)
- ✦ **1968** First UK heart transplant, first UK liver transplant
- ✦ **1971** Introduction of kidney donor card
- ✦ **1983** First UK combined heart and lung transplant
- ✦ **1994** NHS Organ Donor Register established

- ✦ **2001** First lung transplant from a non-heartbeating donor
- ✦ **2005** UK Transplant merges with National Blood Service to form NHS Blood and Transplant

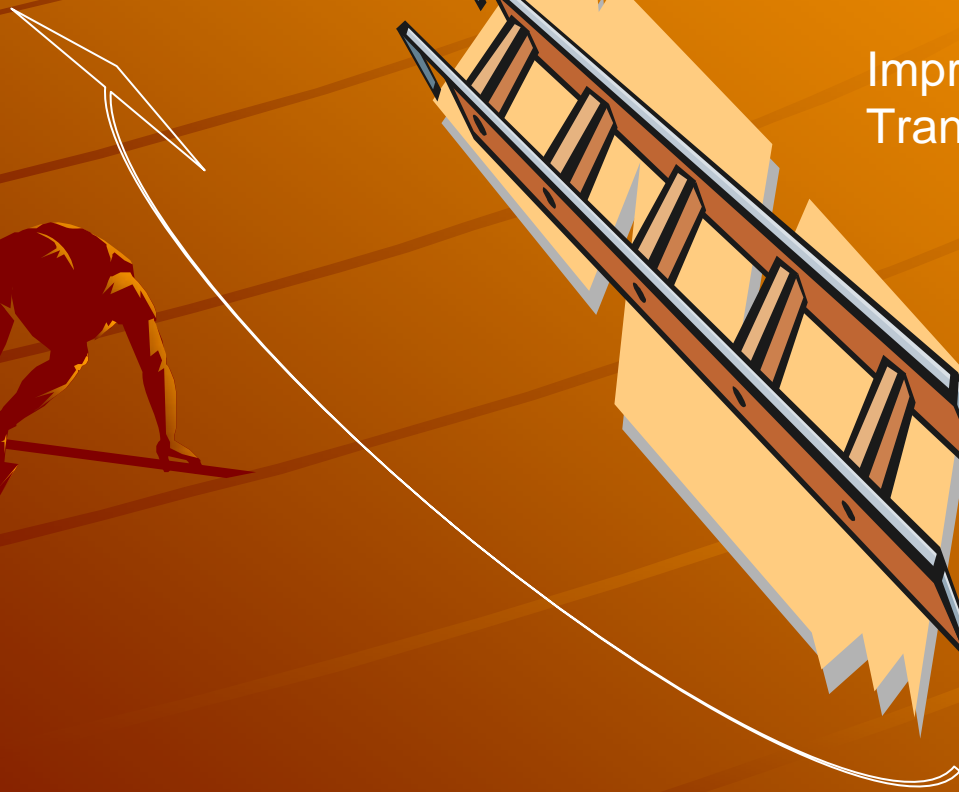
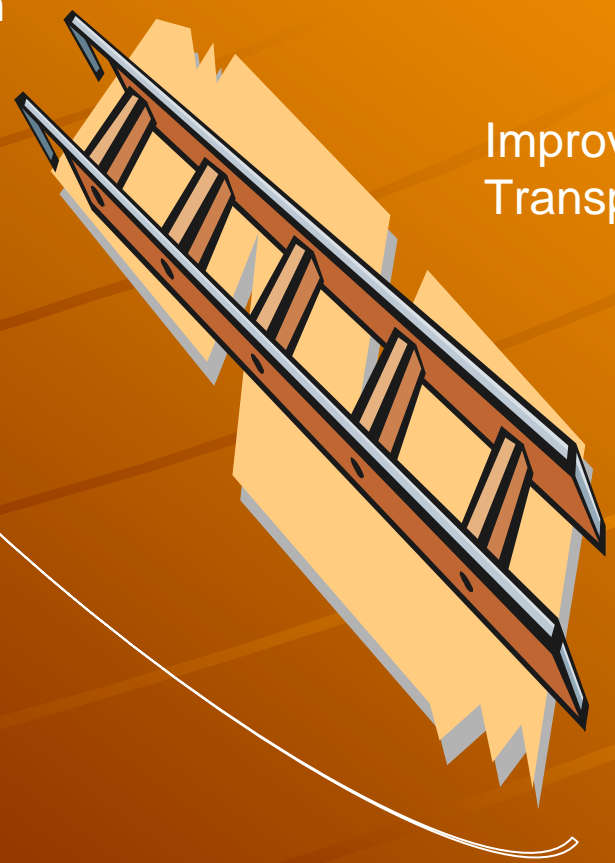


Organ Donation

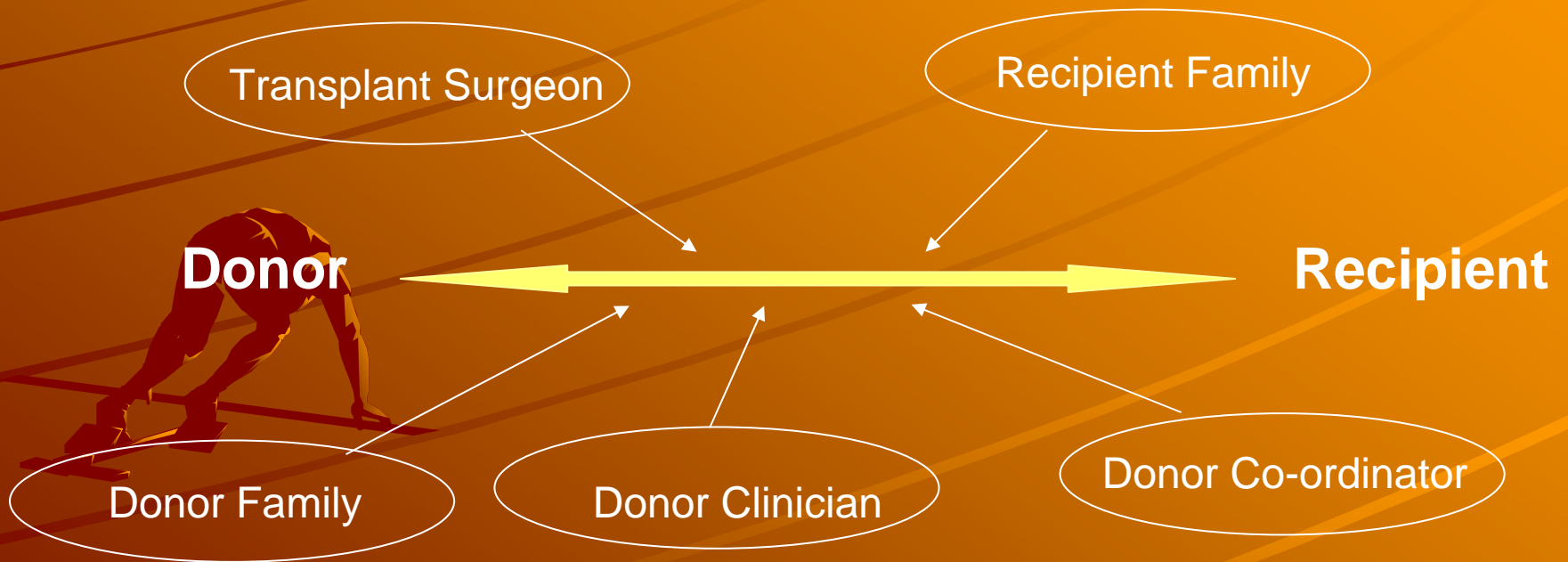
Functional Organ

Improvement through
Transplantation

Dysfunctional Organ



Organ Donation

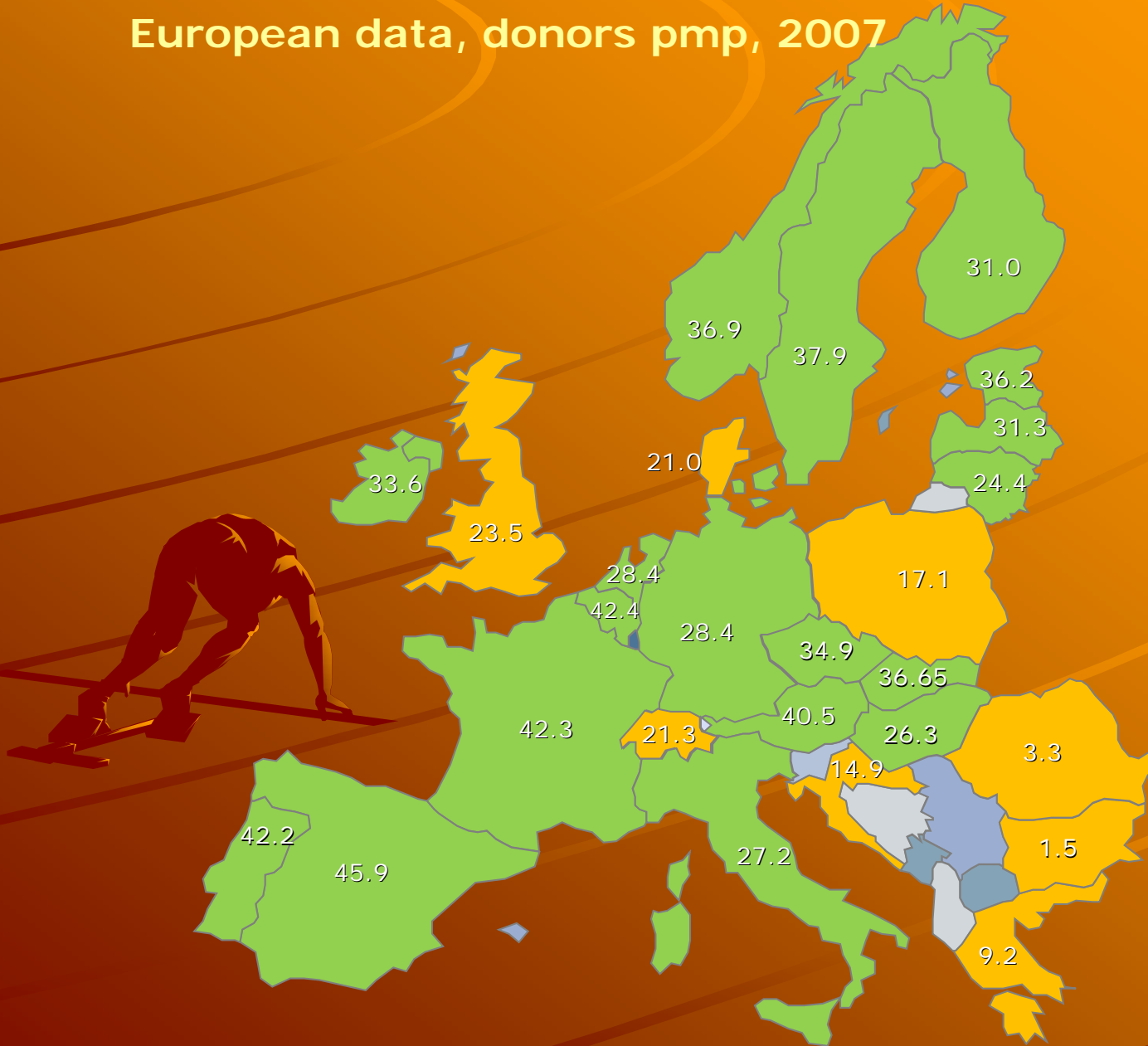


Our Role

- ◆ Meet a family
- ◆ Give them information about the choice of donation
- ◆ Answer their questions and expel myths
- ◆ Take formal consent
- ◆ Assess and Manage the patient to donation
- ◆ Allocate the organs to be donated
- ◆ Organise the organ retrieval teams
- ◆ Support the family through goodbyes
- ◆ Stay with the patient and assist in theatre
- ◆ Last offices
- ◆ Liaise with transplant centres
- ◆ Support the family with donation outcome – ongoing

Kidney Transplants from Deceased Donors

European data, donors pmp, 2007



Taking Personal Risks

- Transplant tourism
- Living donation



Live related donor?
Commercial donor?

Taking Professional Risks

- ABO incompatibility
- Split livers
- Marginal donors
- Longer cold ischaemic times
- Xenotransplants



9
Designer Piglet

“healthy organs are cremated or buried – not because the deceased objected to donation –

but simply because relatives were not given the opportunity to consider donation”



BMA Report, June 2000
Organ Donation in the 21st Century

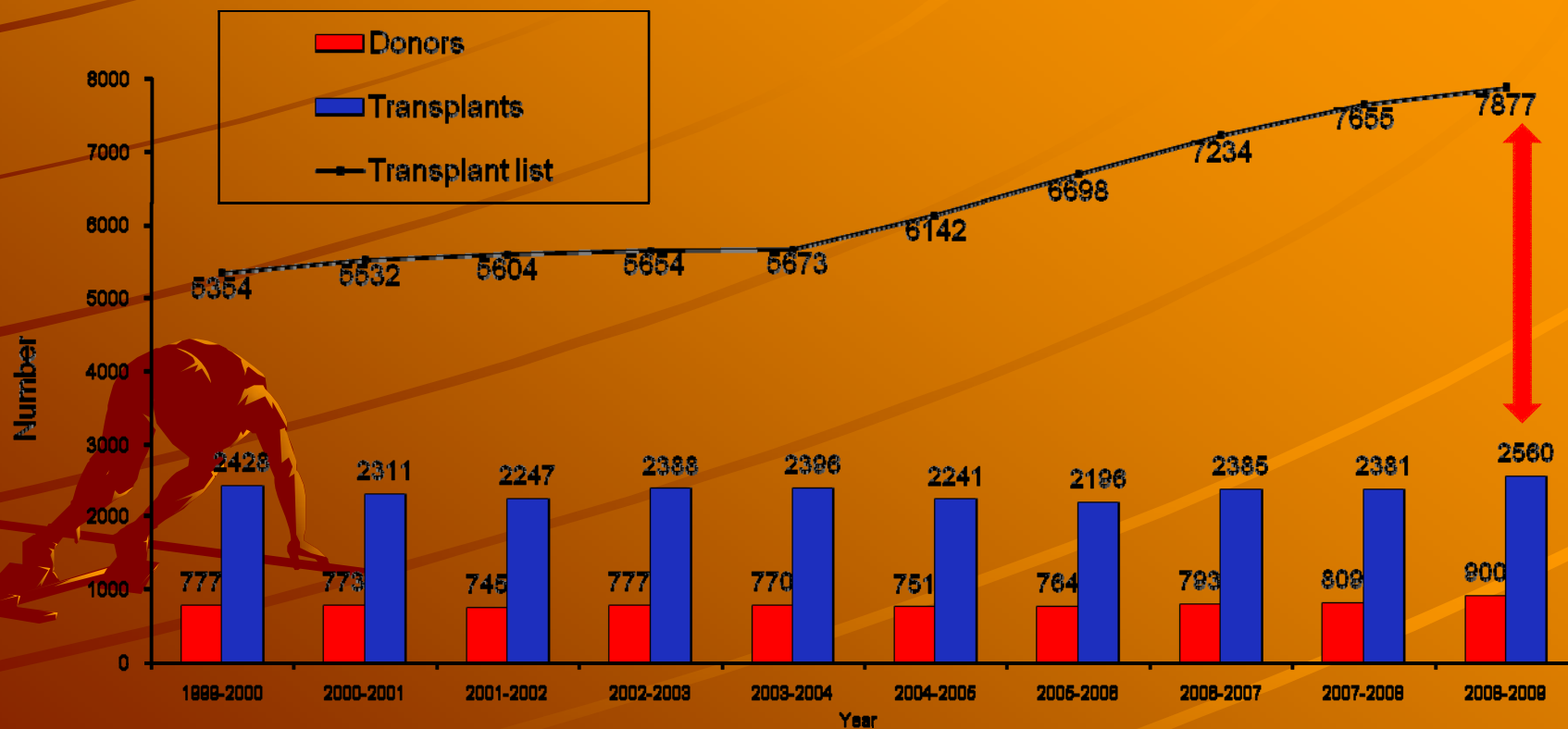
FACTS

- After death, one person can help as many as nine people by donating their organs. They can help many more by donating tissue, such as skin, bone, corneas or tendons.
- More than 9,000 people in the UK need an organ transplant, only around 3,000 transplants actually take place each year.
- 3 people die everyday waiting for an organ transplant.
- A further 500 will die each year while waiting as they become too ill to receive a transplant and have to be removed from the list



Number of deceased donors and transplants in the UK

1 April 1999 - 31 March 2009 - patients on the active transplant lists at each year



MORE FACTS

- ◆ Most donated organs come from people who die in an intensive care unit following a severe head injury, a major accident such as a car crash or a stroke.
- ◆ The number of people needing a transplant is expected to rise steeply over the next decade due to an ageing population, an increase in kidney failure and scientific advances resulting in more people being suitable for a transplant.
- ◆ Department of Health estimates suggest treating people for kidney failure cost the NHS in England more than £600 million in 2004-05 – around 1% of its total budget.
- ◆ There are currently close to 21,000 people on dialysis. The number rises by about 5% annually - costing an additional £24 million.



Causes of Brain Stem Death

- Severe Head Injury/Trauma (50%)
- Intracranial Haemorrhage – CVA, SAH (30%)
- Meningitis/Cerebral Abscess/Encephalitis
- Primary Brain Tumour
- Cerebral Hypoxia
drowning, drug overdose, acute intoxication, cardiac arrest, hanging, smoke inhalation



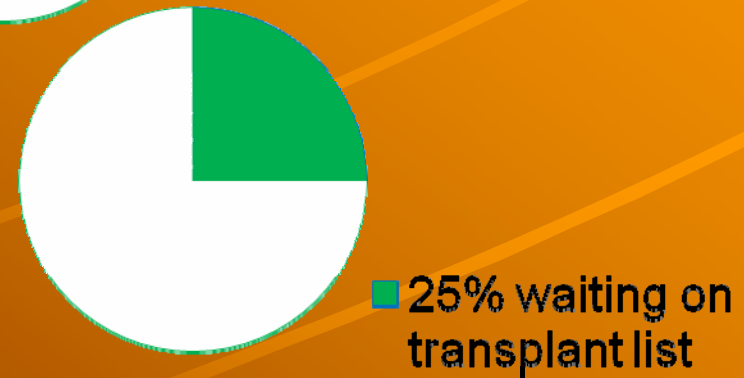
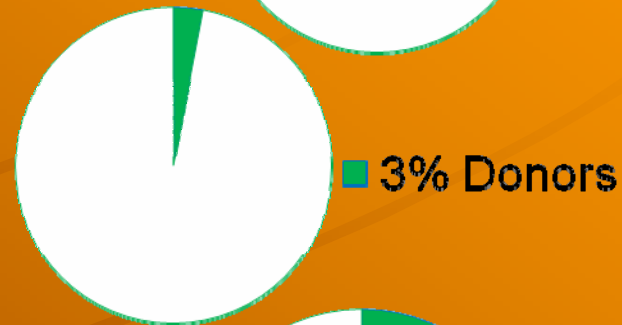
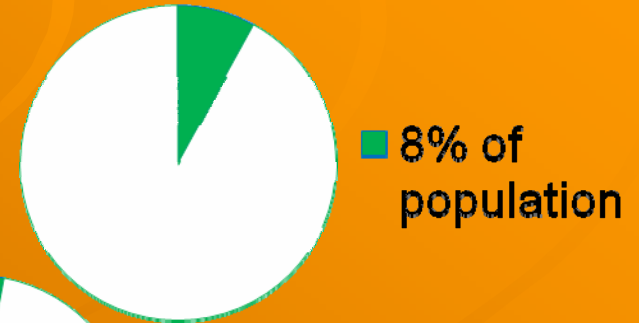
REASONS FOR THE SHORTFALL



- ✦ Failure to Identify Potential Donors
- ✦ Reluctance to Approach Families
- ✦ Disruptive to services
 - Critical Care unit
 - Emergency Medicine
 - Operating Theatres
- ✦ Advances in Neurosurgery
- ✦ Improved Road Safety

Inequalities of Access

Ethnic Minority Groups



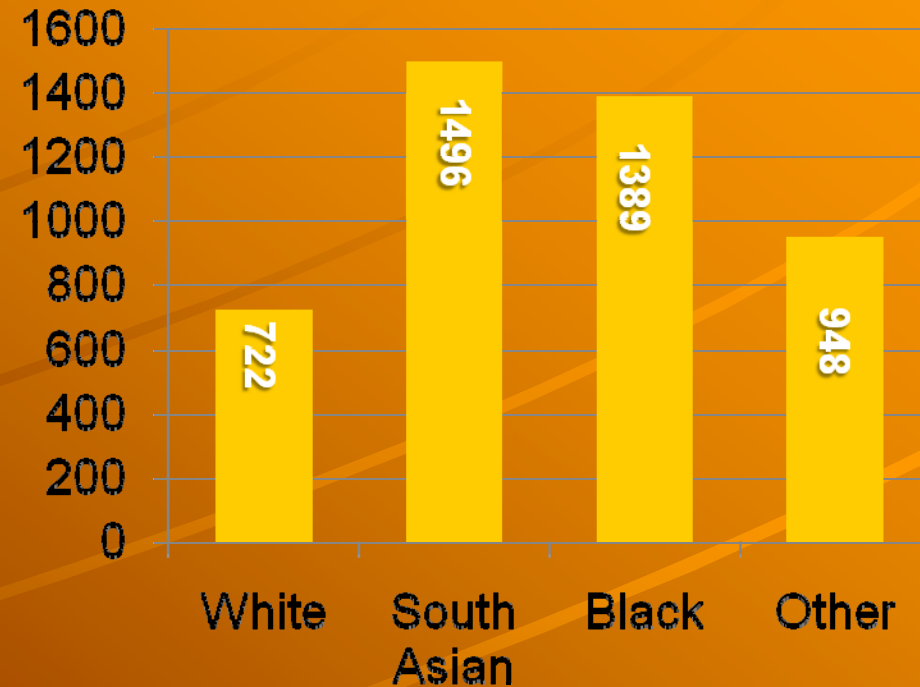
Inequalities of Access

Ethnic Minority Groups

- Wait longer
- Poorer grafts
- Higher failure rates

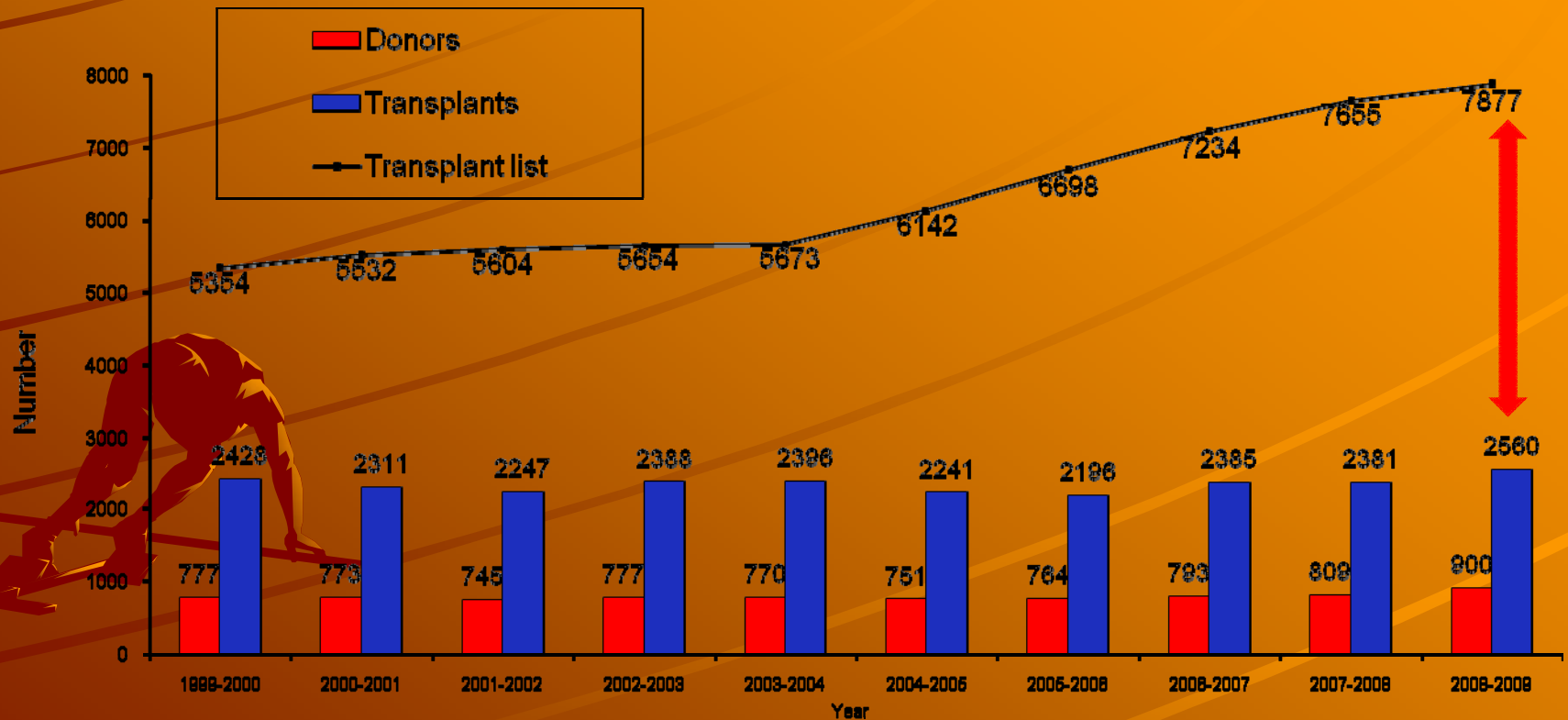


Waiting time for kidneys
Number of days

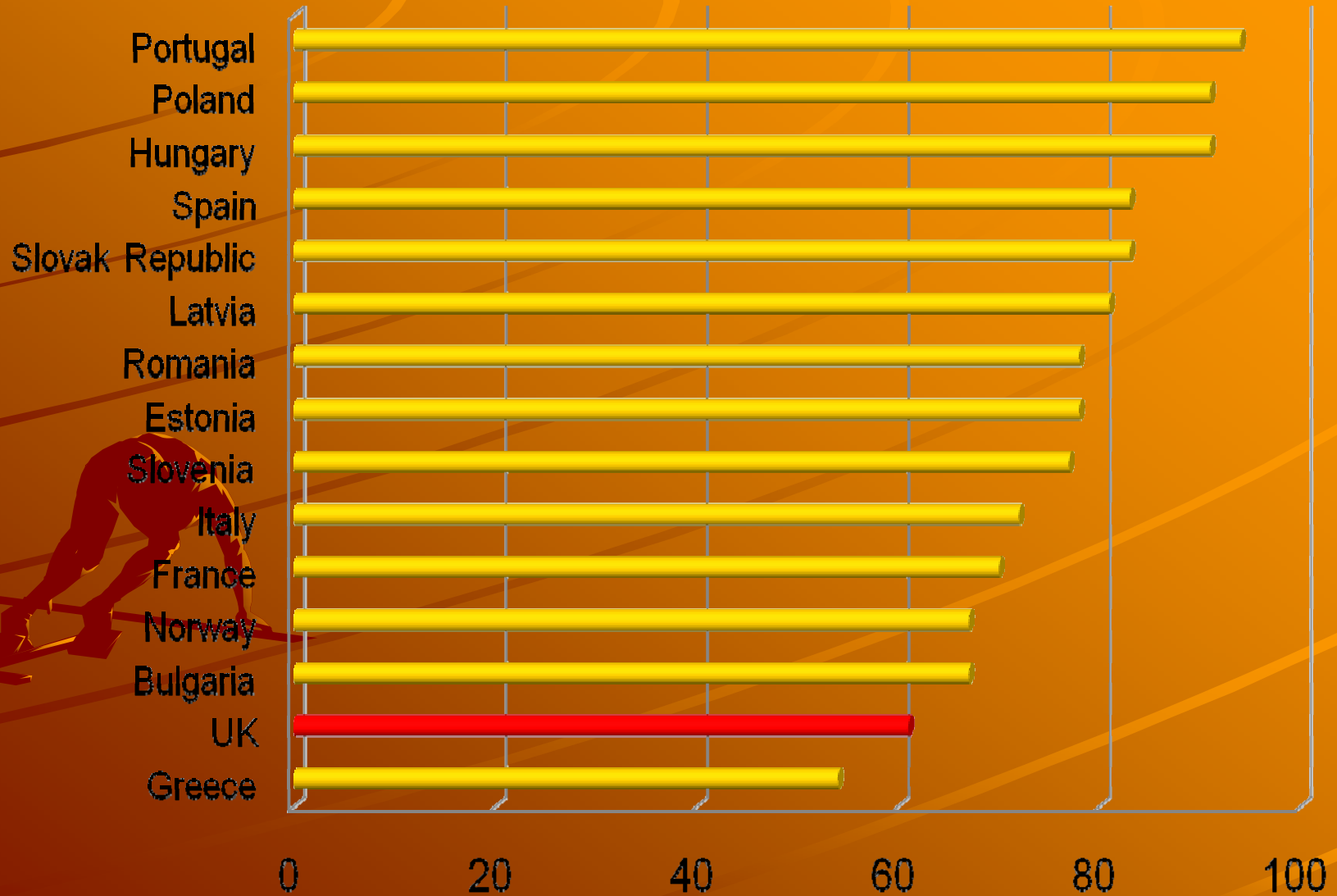


Number of deceased donors and transplants in the UK

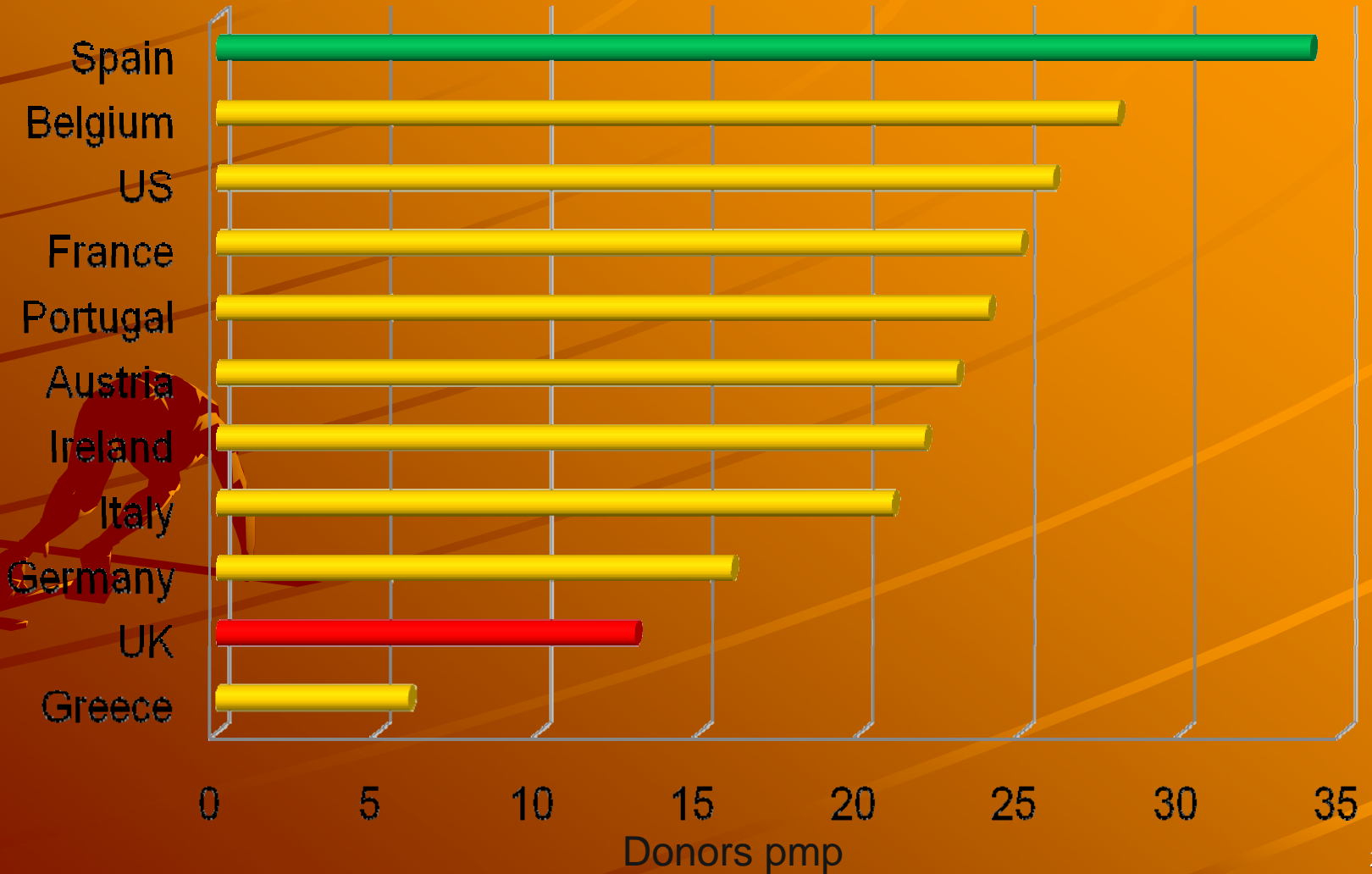
1 April 1999 - 31 March 2009 - patients on the active transplant lists at each year



International Consent Rates (%)



Deceased Donors Per Million Population 2007



The Spanish Model

"The burden of responsibility falls on medical professionals, few of whom receive training for this difficult and delicate task. This is, by far, the target group on which the efforts must be concentrated."

Dr Rafael Matesanz

Director, Spanish Ministry of Health and Consumption



Why is Donation so Difficult?

- Uncommon
- Poorly understood
- Disruptive to services
 - Critical Care Unit
 - Emergency Medicine
 - Operating Theatre
- Potential for conflict
- No local observable benefit
- It often happens in the middle of the night

Can We Make A Difference



Ubaid Ali, died aged 13 months



Mary Hand, died aged 22

Organ Donation Taskforce

Set up in Dec 2006 to identify the obstacles to organ donation and suggest solutions to deliver the increase in transplants that is so desperately needed

- ✦ Made 14 recommendations
- ✦ Clarified roles
 - Acute hospital Trusts
 - Departments of Health/NHS
- ✦ Review of co-ordination & retrieval
- ✦ Training
- ✦ Legal and ethical issues
- ✦ Public promotion



Target – 50% increase in donation over 5 years

How to achieve an increase?

Recommendation

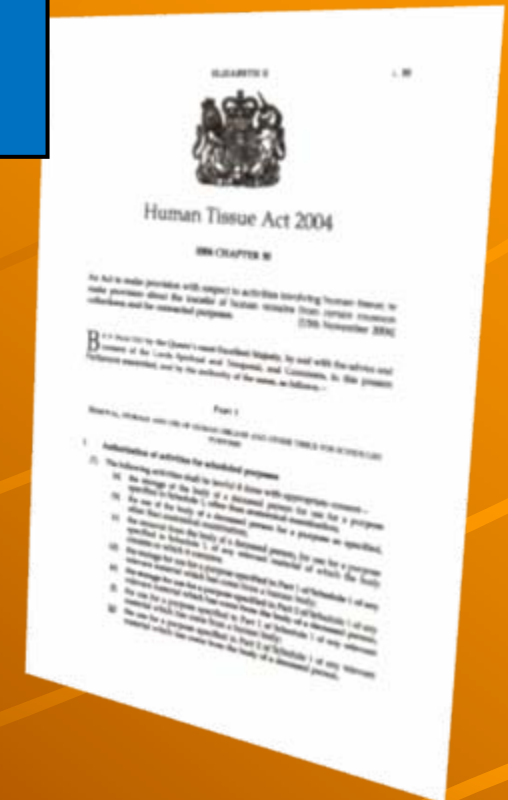
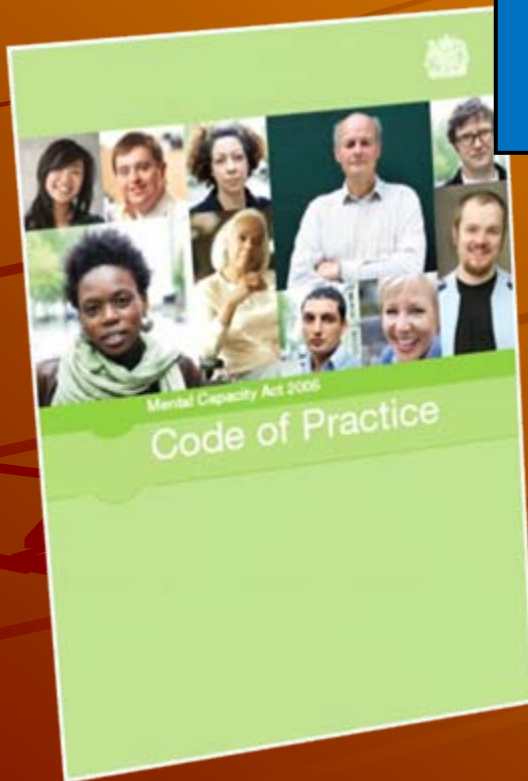
Each Trust should have an identified Clinical Lead and Specialist Nurse for organ donation, supported by a Trust donation committee to help achieve this



From Theory to Practice

Putting the donor first

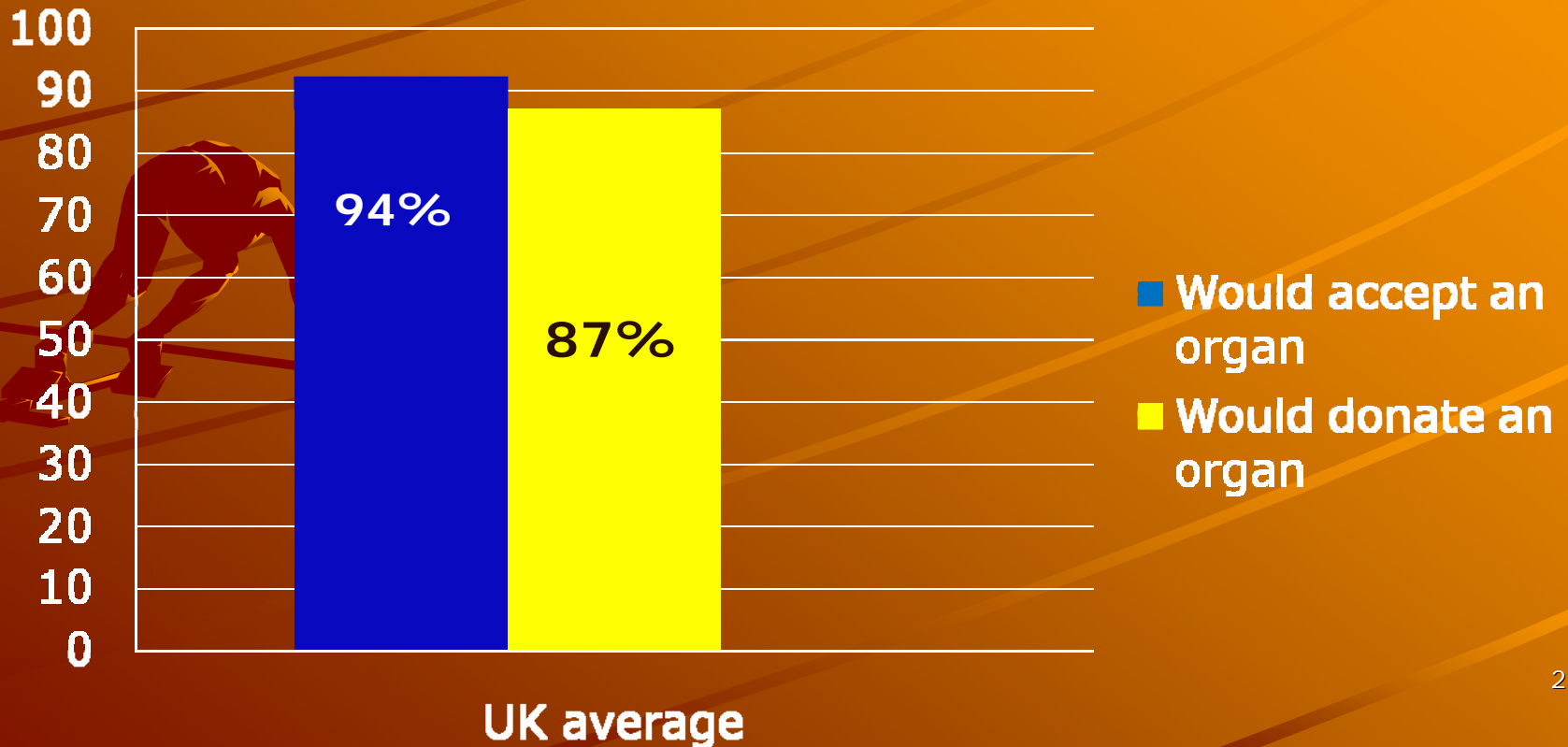
Patient autonomy
Best interests



Public Opinion

If your life was at risk would you be prepared to accept an organ from an organ donor?

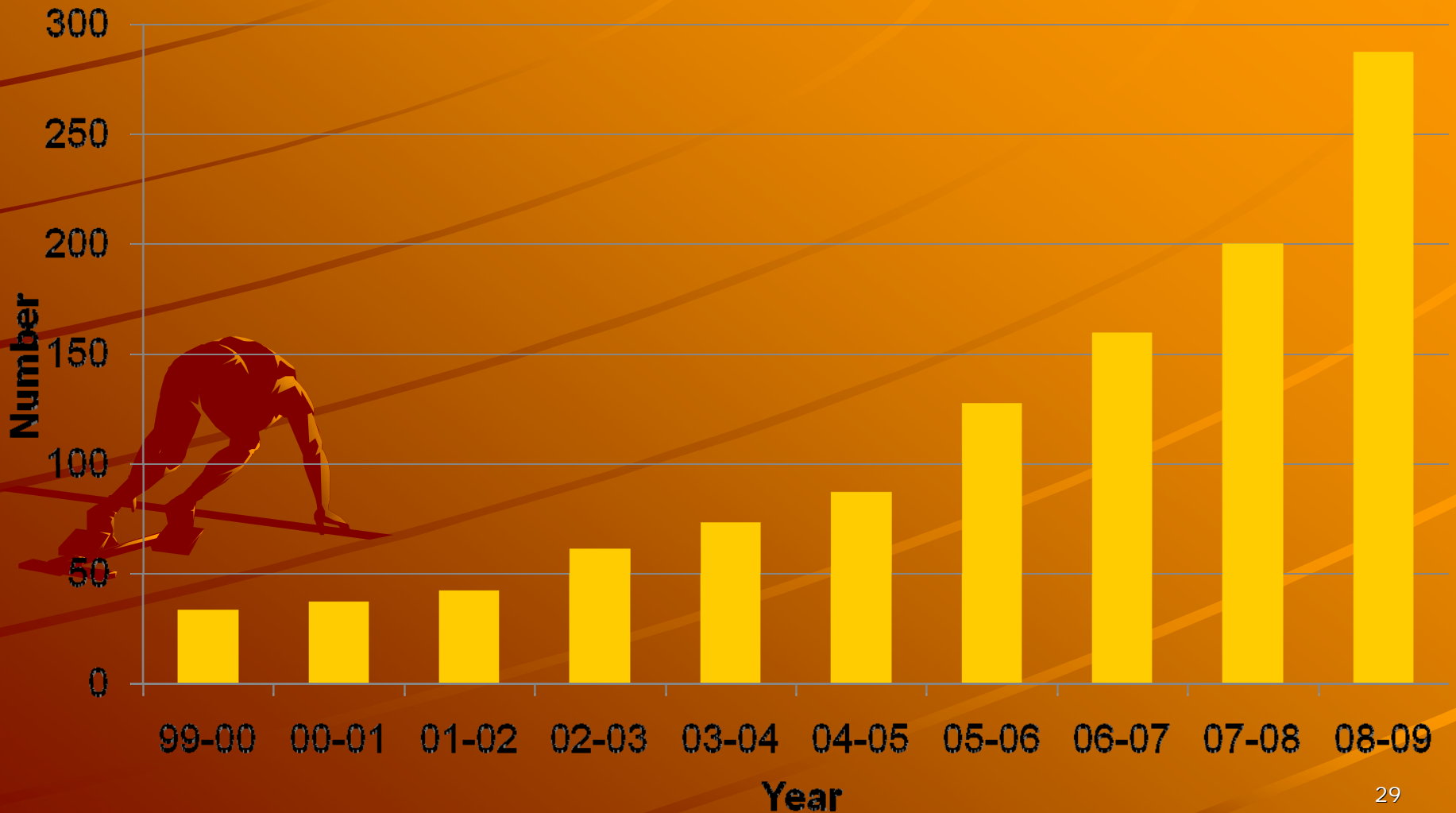
Would you be prepared to donate your organs after your death for transplant purposes?



Potential Coronial Objections addressed



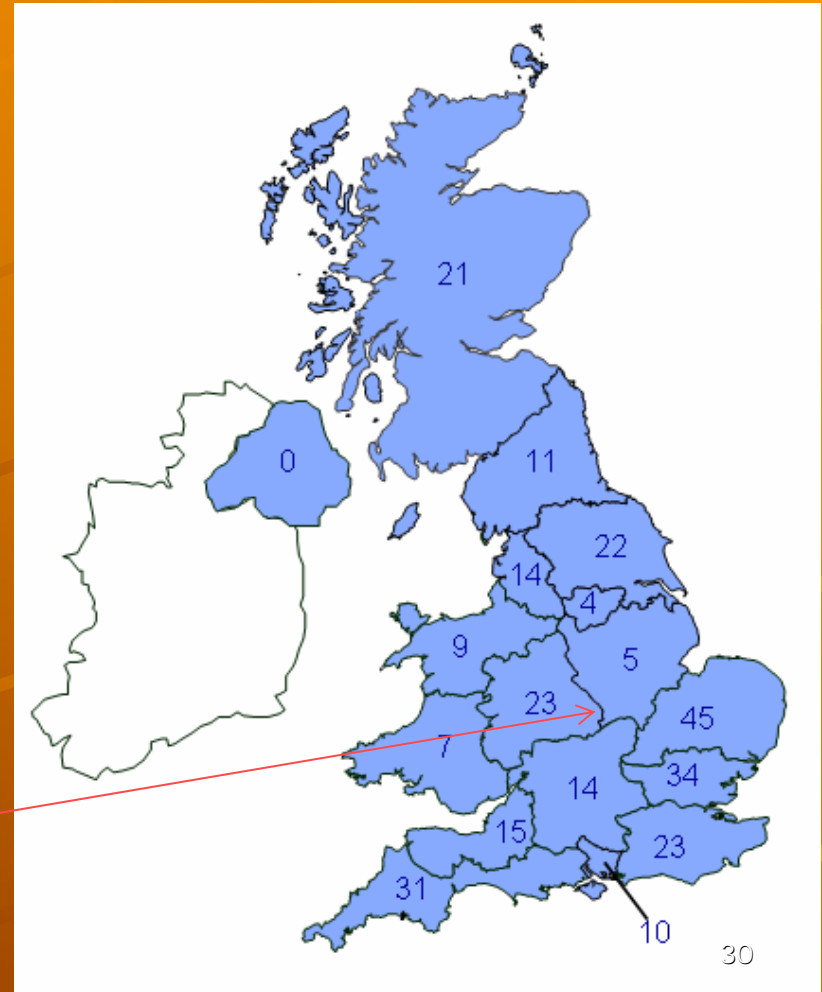
Non-heartbeating Organ Donation



Non- heartbeating Organ Donation

Highly variable rates across the UK

- **580** missed potential NHBD per annum
- **177** missed actual donors
- **407** additional transplanted patients

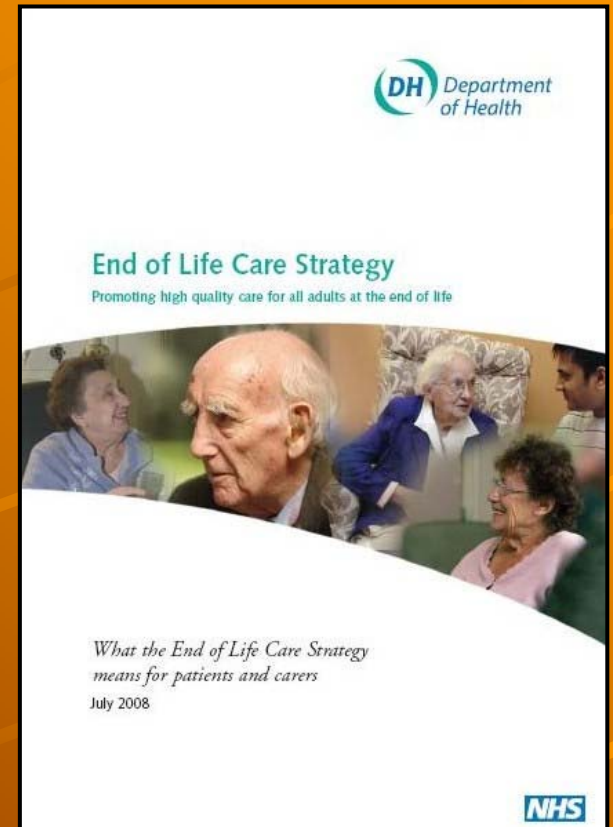


Leicester

Donation as part of end of life care

Recommendation 4a

- All parts of the NHS must embrace organ donation as a usual, not an unusual event.
- Local policies, constructed around national guidelines, should be put in place.
- Discussions about donation should be part of all end-of-life care when appropriate.



NHSBT Publicity

NHS
Blood and Transplant

"I'd definitely take an organ if I needed one." "The Organ Donor Register? Haven't got round to joining."

If you believe in organ donation, prove it. 
Register now at organdonation.nhs.uk | 0300 123 23 23

NHS
Blood and Transplant

"I'd be grateful for an organ if I needed one." "I'm too old to join the Organ Donor Register aren't I?"

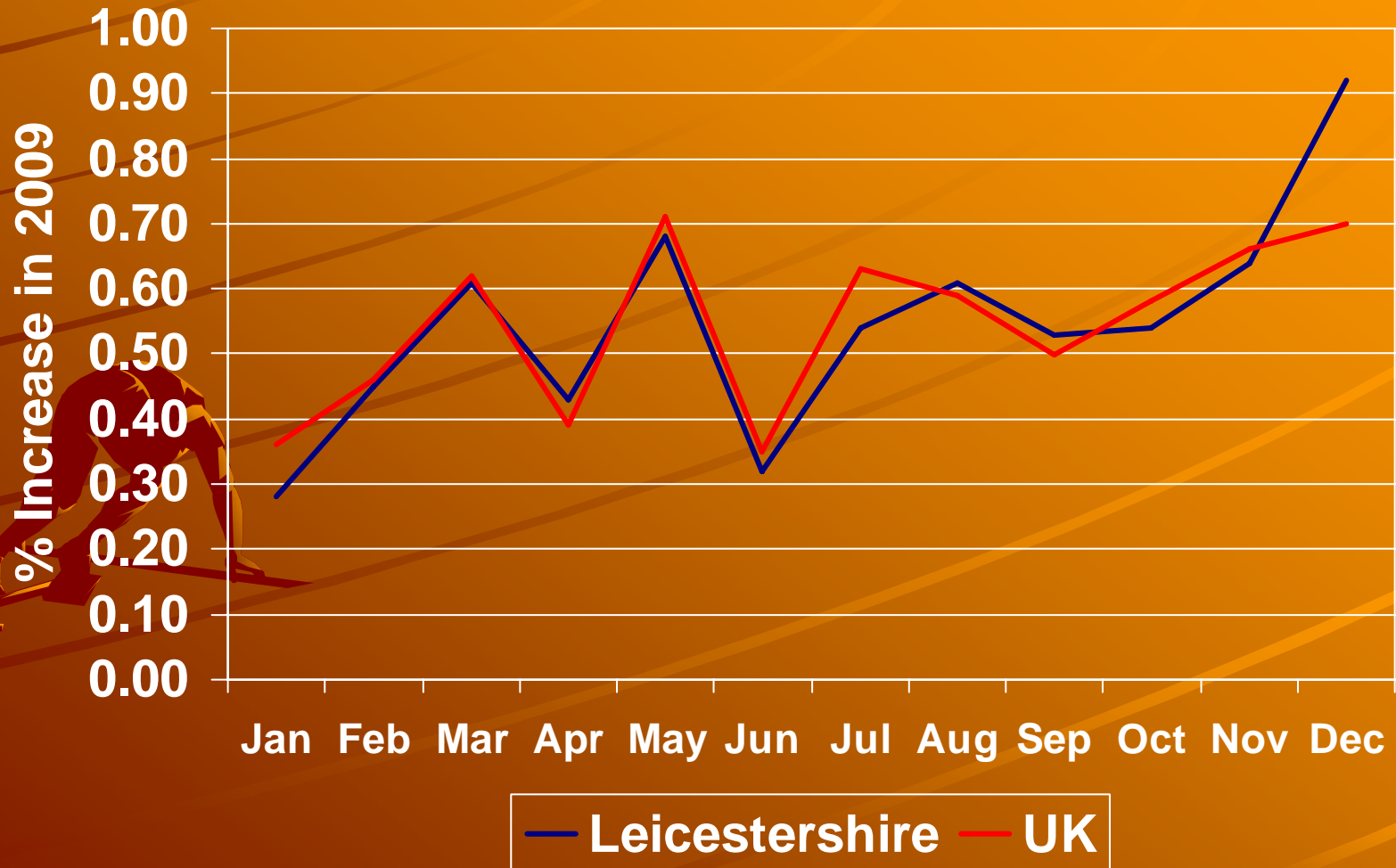
If you believe in organ donation, prove it. 
Register now at organdonation.nhs.uk | 0300 123 23 23

NHS
Blood and Transplant

"If someone I love needed an organ, I hope they'd get one." "No, I haven't joined the Organ Donor Register yet."

If you believe in organ donation, prove it. 
Register now at organdonation.nhs.uk | 0300 123 23 23

Organ Donation: comparing numbers on ODR



Organ Donation

When asked "Why am I interested?"



Transplant Waiting List

2008/9

Waiting list,
March 09

Kidney **7174**

Liver **314**

Heart **91**

Lung **229**



Transplant Waiting List

2008/9

Waiting list,
March 09

Number of
transplants

Kidney

7174

1555

Liver

314

651

Heart

91

129

Lung


229

146



Transplant Waiting List

2008/9



	Waiting list, March 09	Deaths due to not receiving transplants needed	Number of transplants
Kidney	7174	8.8%	1555
Liver	314	56.7%	651
Heart	91	38.5%	129
Lung	229	36.7%	146

Transplant Waiting List

2008/9

Waiting list,
March 09

Deaths due to
not receiving
transplants
needed

Alternative to
transplant

Kidney **7174**

632

Dialysis

Liver **314**

178

Death

Heart **91**

35

Death

Lung **229**

84

Death



Who Can Donate?

What Can Be Donated?

ALMOST EVERY-ONE WHO
DIES CAN DONATE
SOMETHING.....

EITHER BY

⑩ ORGAN DONATION

OR

⑩ TISSUE DONATION



What Can Be Donated?

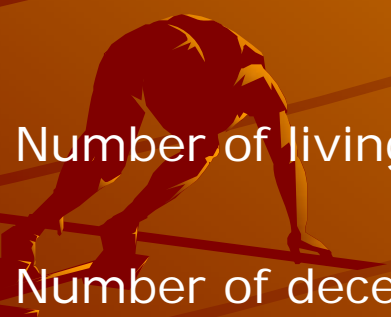
ORGANS

- ⑩ Heart
- ⑩ Lungs
- ⑩ Liver
- ⑩ Kidneys
- ⑩ Small Bowel
- ⑩ Pancreas

TISSUE

- ⑩ Corneas
- ⑩ Skin
- ⑩ Bone
- ⑩ Heart Valves
- ⑩ Tendons
- ⑩ Cartilage

Leicestershire Data



	2007	2009	% change
Number on transplant list	192	226	+18%
Number of transplants	56	65	+16%
Number of living donors	42	43	+2%
Number of deceased donors	6	5	-17%

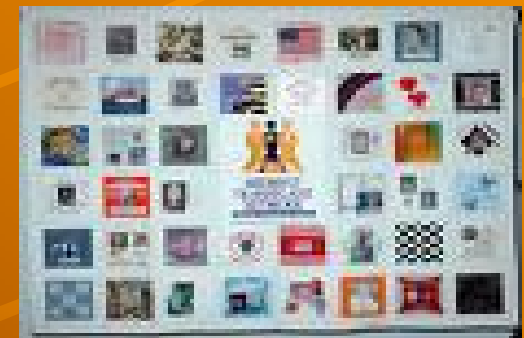
Needs of relatives


- ◆ To feel everything was done for their loved one
- ◆ To be fully and honestly informed
- ◆ To know that their loved one was cared for in a compassionate and respectful manner
- ◆ Knowing that their loved one did not suffer
- ◆ Seeing their loved one as soon as possible



Donor Family Support

- Offer Keepsakes
- Letters of Thanks & Information about Recipients
- Offer Home Visit
- Donor Family Network
- Liaison between Donor & Recipient Families
- Offer Formal Bereavement Care




A photograph of a woman with blonde hair, wearing a teal long-sleeved shirt, holding a baby in her arms. She is looking down at the baby with a gentle expression. The background is slightly blurred, showing what appears to be a hospital or clinical setting with other people and equipment. The text is overlaid on the image in a bright orange color.

“There is so much more I want to do with my life, but I am only too aware of the huge shortage of donors. However, I am trying my very hardest to stay positive and enjoy what is left of my life to the best of my ability, however limited it may be”

Robyn Tainty

House of Lords July
2007

A photograph of a woman with blonde hair, wearing a teal top, holding a young child in a wheelchair. In the foreground, another child is seated in a wheelchair, looking towards the camera. The background is slightly blurred, showing what appears to be an indoor setting with a window and some furniture.

“There is so much more I want to do with my life, but I am only too aware of the huge shortage of donors. However, I am trying my very hardest to stay positive and enjoy what is left of my life to the best of my ability, however limited it may be”

Robyn Tainty

House of Lords July
2007

**Died September
2007**

**A doctor went to work today.....
and three people died**



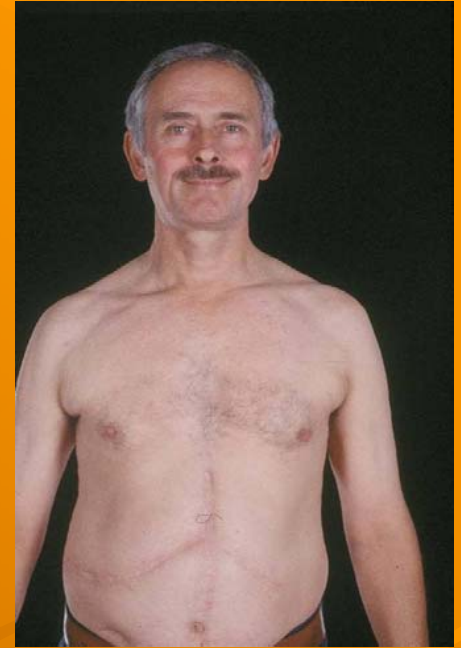
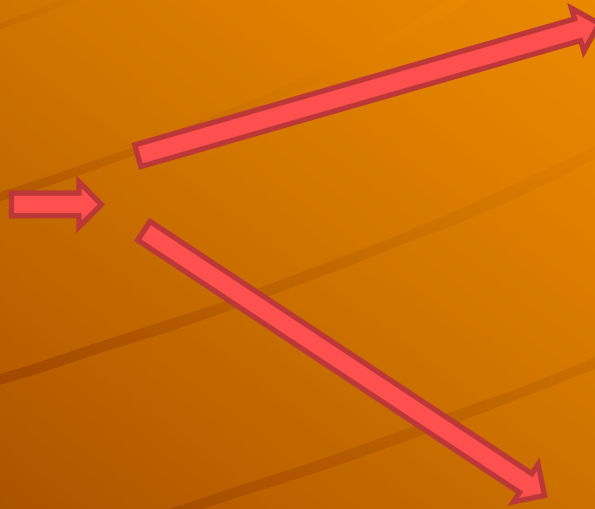
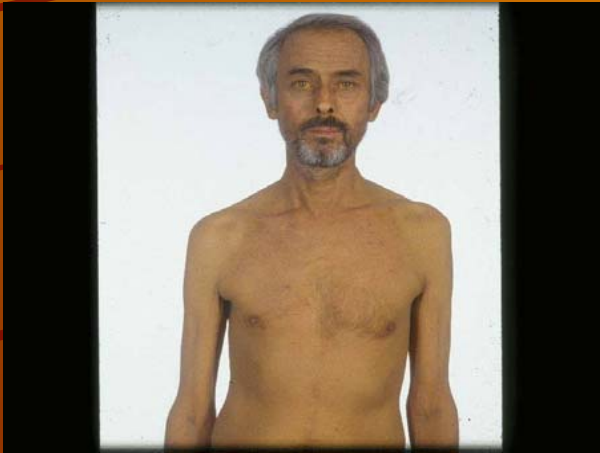
He never met the people who died
His employers did not notice
He was not censured



**Somebody else's patients
Somebody else's problem**



People with organ failure
may have no choice



Making Organ Donation Usual

Our chance.....

To determine our future actions

To help with the gift of life

