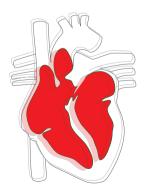
## How should human tissue be treated?

In 1999 a total of 2,080 children's hearts and more than 800 organs from children were kept at Alder Hey Hospital along with 400 foetuses collected from hospitals(s) across the region.





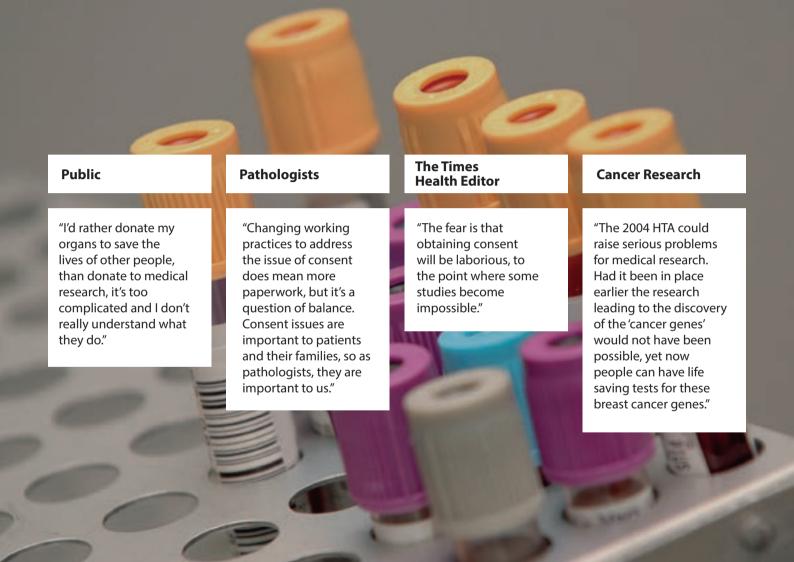
### Why should consent be so important?

Research using human tissue is essential if we are to improve our understanding of cancer and develop more effective cancer treatments.





Professor Alex Markham, Former Chief Executive of Cancer Research UK. http://www.hta.gov.uk/newsroom/quotes and endorsements.cfm on 17.09.08



## What do you think about donation?

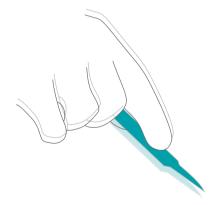
A patient can state their wishes about what happens to their body after death. From September 1st, 2006, the wishes of the deceased legally take precedence over those of the family.





# Wouldn't your family want to know how you died?

Without a post-mortem, it is estimated that the cause of death can be wrong in up to 30% of cases.



### Paediatric **Pathologist BBC News Public** pathologist "past practices (keeping "In 1999, in Liverpool, "In my experience "I don't want to be cut up Annette Grimes found patients organs after grieving parents are when I die, because you post mortem) were not that the baby she helped by allowing post just don't know what'll necessarily unlawful, but thought she'd buried mortems for their babies happen to your bits and whole, 40 years earlier, they were increasingly at and are greatly pieces." odds with the was buried without his comforted by knowing expectations and wishes the post mortem heart, lungs and of many grieving oesophagus, which had research will help other families, a practice which been kept by the hospital families with sick children." is no longer acceptable. following post mortem." Consent is now required for post mortem and tissue retention."

## What should you be given in return for donating your tissue?

Two British hospitals revealed they had given heart tissue, removed from children during live operations, to a pharmaceutical company for research.

Shortly after, both hospitals received cash donations from the company involved.



### Researcher

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"Treatment of disease is constantly improving, and many of the developments are based on the findings from research on human tissue. Thus each patient benefits from those patients who donated tissue in the past. I think patients should have a quarantee that all research will be ethical and lawful and should be able to find out what research their tissue was used for and what it discovered, BUT I think payment for each sample would hamper the ongoing progress of research, and so should not be offered."

### **Pathologist**

"For tissue used in transplantation collected in the mortuary, if it can be used to help others and it's not costing bereaved anything, so why should they be paid? For research, pathologists cannot store tissue for very long; blood is usually destroyed in less than a week, solid tissue in a month. So, if it can be used to help others where's the harm in giving it away and it's not costing the bereaved anything, why should they be paid?"

### Legal expert\*

"Donation means gift, and a gift is given without expectation of reward, whether of money or money's worth. However, the potential donor is entitled to make their own decision about whether to donate, and to sufficient information to help them make that decision. They are entitled to know that their tissue will be used properly and only for the purposes for which they are donating."

\*Lawyer point of view provided by Dr Ruth Stirton, Senior Lecturer in Healthcare Law. University of Sussex

### Member of the public

"I think donating tissue should be for altruistic reasons like helping research on new treatments, and not be about personal financial gain for you or for your family."

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### Whose consent counts?

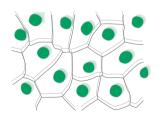
The family play a key role in the donation process. The role of the family should be to help establish the decision of the individual with regard to donation.



Source: Human Tissue Authority Code F: Donation of organs and tissue for transplantation 2020.



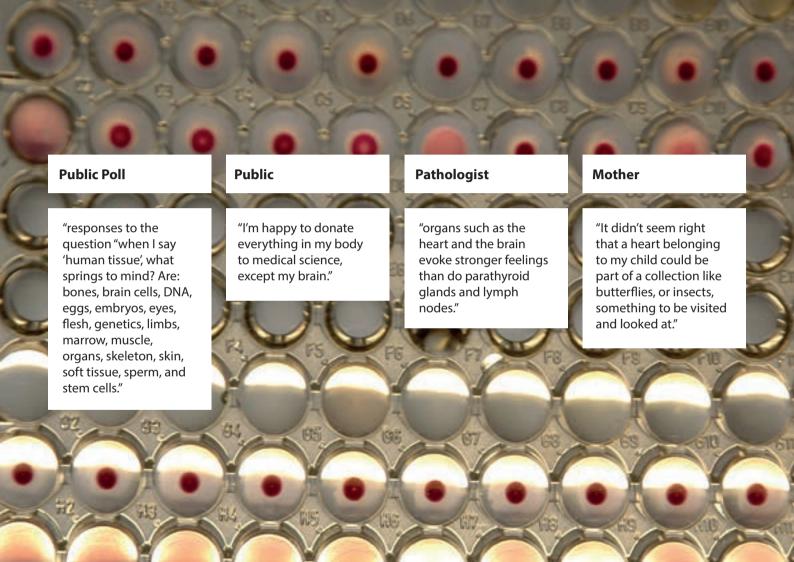
### What does 'human tissue' mean?



Human tissue is 'material, other than gametes, which consists of or includes human cells'. This Act does not apply to 'hair and nail from the body of a living person'. HTA 2004

However, [...] the legislation makes no distinction between the heart from a dead child and the urine from a living individual.

J.C.E. Underwood. 2006. The impact on histopathology practice of new human tissue legislation in the UK. Histopathology. 49: 221-228. p.222.



### **Pathology: Dubious past** or groundbreaking progress?

Charles Byrne (1761-1783) the Irish Giant, made his living at Freak Shows in 18th Century Britain. Aware that anatomists wanted his body for research, his will stated he wanted to be buried at sea in an iron coffin. Three years after his death, the famous anatomist, John Hunter, displayed Byrne's skeleton in his teaching museum, to much acclaim – but against Byrnes expressed wishes.



**Should anonymised** genomic information linked to medical data be made available to researchers without direct consent?

Identification of genes which cause or influence disease requires study of large numbers of people in order to statistically 'prove' the link. The genome data has to be linked to medical data.

OpenSAFELY—a secure health analytics platform that covers 40% of all patients in England and holds patient data within the existing data centre of a major vendor of primary care electronic health records:

https://www.opensafely.org/

