CANCER, HIV AND EBOLA RESEARCH

Research into cancer, HIV and the Ebola virus have had great significance for humans. These strides all have benefited from one woman; Henrietta Lacks. Her cells, dubbed 'Hela Cells', are the root of a variety of research. When researchers discovered the unique capability of her cells being able to survive in lab conditions, her cells were taken and used for research. This was all done without her knowledge or consent. It was not until 1975, 24 years after her death, that the Lacks family were informed of the existence of the Hela cell lines. As we explore these issues, consider; should scientists keep using these cells?

leLa cells

Cervical Cancer Cell Kate Cragoe Mayfield Date Unknown In 1985, scientists used HeLa cells to study how the prr Papilloma Virus (HPV) can lead to certain types of ce contributed to the invention of vaccines to fight against the HeLa cells are introduced to various cancer resea involving sex steroid hormones, medical diagnostic treatment for cancer patients.

den **NHS**

The Ebola v Odra Noel Date 2003? In 2001, scientists using HeLa cells discovered that HIV and Ebola viruses use a similar process to enter cells and cause disease. These findings together with earlier studies on HIV, contributed to the invention of an effective Ebola

DEVELOPMENT OF VACCINES

The invention of the vaccine has helped humans to fight against infectious diseases and has had a crucial role in the medical advancements in the 20th and 21st century. The cells from an aborted foetus of an ordinary Swedish woman, name unknown, which contributed a lot to the creation of many of the world's vaccines. The cells' name is WI-38. It was only after researchers reached out to the woman to determine if any possible family disease would affect their research that she learned of WI-38.

In the following section, we will explore the story of WI-38 cells to reveal the consent issues in obtaining them for developing vaccines and also its contributions. More

importantly, we encourage you to think about in today's medical research, if it does need to involve aborted fetuses in the research, what should the researchers do to obtain the consent from their parents?

38 cells (Left: in high nyuan Li, Trygve O. Tollefsbo 2011 yright License: P or consent, the aborted fetus of a Swedish women was used by the is at Wistar Institute in Philadelphia in 1962 to isolate cells from th aimed at providing a safe and clean environment for vaccines.

REGULATIONS OF CONSENT ISSUES IN MEDICAL RESEARCH

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orking with doctors Working for patients

Borou...

Research involving vulnerable shufts

Cricumstances.

Research involving vulnerable shufts

21. Some adults with capacity may be vulnerable to
pressure to take part in research. You should be
aware that their health or social Cricumstances
might make them vulnerable to pressure from
others. Vulnerable adults may be, for example,
living in cure homes or other institutions, or heat
searing difficulties or mental illness, in these
cricumstances, it is particularly important that
you check whether by reed any additional
support to understand information or to make a
certain. "To make they see also additional
support to understand information or to make a
certain." To make they see also disclaim
research, and that they are also to declar in
they want to. The Royal College of Physicians of
London provides further guidance on involving
vulnerable groups in nesearch."

must get consent from a legal experientative. Under the Mentral Cipacidy Act 2005 (in fingle and Walles) you must consult a consulter? about whether the dolf who locks capacity which was a consulter or the consultation of the thirty perhalshy washed with fively had capacity for decide for themselves. If the consultation condent that they perhalshy washe that they perhalshy that they perhalshy that capacity (Sociating) Act 2000. you must get consent from any guarden or welfare attempt with had prevent to consent to the adults guarden or welfare attorney, from the person nearest relative.

used or assembled (formulated or packaged) in a way different from the form of the product authorised under the authorization,

You should aim to mach a consensus with parents about a shife or young person's and the parents about a shife or young person's and the shife of the shife of the shife of the informally, and you should follow the abvice in paragraphs 12–21 persoin marking and consent. If Sagreements cannot be resolved orientally, you should not involve the child or consent and the shife of the shife of the consent of the shife or shife or can be accessed only so part of a neesand-ported and you assess that it is in their best-interests. In these circumstances, if the decide should retiring the child or young person in research has applicant consequences for the adults about setting the child or young person in research has applicant consequences for the adults about setting the you should agoly for the appropriate court for an independent ruling.

to identify any adverse reactions to one or more such products, or

14 Decision making and consent
15 For the legal requirements to involve an adult
without capacity in research see the Mental
Capacity Act 2005 (section 31) and the Mental
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Alexander Lord Carlind Alphanica 2006
experientative for a minor (pinder fill) or an
adult who lacks apacity for the purpose of the
trial and its variables and willing to do so. They
want not be involved in the conduct of the trial
for trials involving adults who lack capacity
in Socialized. It align preventative means any
to accurate a legal depresentative means any
to accurate a legal depresentat 0–18 years: guidance for all doctors. u-to-year: guaranter pro an occeror.

References to parent or parents in this guidance
mean those with parental responsibility for the
child. See appendix 2 of 0-18 years: guidance for
all doctors for an explanation of this term. You
should also consider the views of others who are
close to the child or young person but who do
not have parental responsibility.

In the 21st century, authoritative organizations in the United Kingdom set out various guidance and regulations to regulate consent issues in medical research. One example comes from the General Medical Council. Consent to Research is a guideline for researchers to understand the principles of decision making and the ways of seeking consent for various kinds of research. This guidance came into effect on the 4th May 2010.

Are these instructions in below document strict and comprehensive enough?

Consent to research

17 You must be satisfied that you have consent or other valid authority before you carry out any examination or investigation, provide treatment or inve-patients or volunteers in teaching or research.

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There are no specific legal provisions under the Adults with Incapacity (Scotland) Act 2000 relating to the loss of capacity during research in Scotland.

In this whole section, we tell the stories of HeLa cells and WI-38 cells and introduce one of the guidance relating to consent issues in medical research. We understand that you may have different values, culture background and religious belief, so we encourage you to find your own ideas on each of them.

From the past to the present, the magnitude of these issues of consent becomes clearer and more concerning to our lives. Though currently, we have regulations and legislations to avoid those issues, it begs to wonder if they are the best solution. Now, let's move on to the future, where we may find new possibilities to avoid consent issues in the medical research.