

<https://youtu.be/jC8FBM6Huos>

Today's lesson on Youtube!

Thursday 4th February 2021

L.O: To incorporate research into formal writing

Success Criteria:

To reflect on independent research

To recognize features of a balanced argument

To include formal language

What if your only chance of survival was a pig's heart?

PIG HEART BOY

malorie

blackman

Author of the award-winning NOUGHTS AND CROSSES

Today we are continuing to look at 'Chapter 4: Dr Bryce'. Watch the following video to listen:

<https://www.youtube.com/watch?v=CghWuEKnp1Y>

As you are listening, reflect on your reaction to the transplant. Which character do you most agree with?

Key Vocabulary

Transplant = Transfer/move an organ from **one individual** to another

Xenotransplantation

Or Transgenics = Transfer/move an organ from **one species** to another

'The transplant does carry its own risks - every operation does - but it's a question of carefully weighing the advantages and the disadvantages and seeing which side comes out ahead.'

What do you think about the possibility of a pig heart transplant?

Should animals be used for xenotransplantation?

Should animals be used for xenotransplantation?

Today and tomorrow, we will be writing a balanced argument to answer this question.

Reflection: Look back at the information and research from yesterday to help you.

What are the main advantages and disadvantages of the xenotransplantation named in this chapter?

Advantages	Disadvantages

Lack of human organs available.

There is effective anti-rejection medicine

Animals should not be sacrificed to help humans.

Arguably, it is not fair to experiment on animals.

High risk of rejection of the organ

Animal rights and welfare groups oppose the procedure.

Pig hearts are similar sized to humans

The medical research is done in a humane way
and there is no cruelty to animals.

What are the main advantages and disadvantages of xeno-transplantation named in this chapter?

Advantage	Disadvantages
<p>Lack of human organs available.</p> <p>There is effective anti-rejection medicine</p> <p>Pig hearts are similar sized to humans</p> <p>The medical research is done in a humane way and there is no cruelty to animals.</p>	<p>Animals should not be sacrificed to help humans.</p> <p>High risk of rejection of the organ</p> <p>Arguably, it is not fair to experiment on animals.</p> <p>Animal rights and welfare groups oppose the procedure.</p>

Did you find any other reasons in your research?

Recap:

What is the structure of a balanced argument?

TODAY

1. Introduction

A short opening describing what the argument is about. Not to put any personal views in this section.

2. Arguments 'For' x 2

TOMORROW



3. Arguments 'Against' x 2

4. Conclusion

To sum up the different arguments made
To give personal opinion

Recap:

Success Criteria

Balanced Arguments		
Me 	Steps to Success	Teacher 
	Is my title in the form of a question?	
	Does my introduction tell the reader what the argument is about?	
	Do I have a balance of arguments for and against the point?	
	Have I given reasons for each argument (for and against)?	
	Have I used 'should', 'could', 'might' in my writing?	
	Are the verbs that I have used mainly in the present tense?	
	Have I used a range of connectives? E.g. however, 'Many people believe...' etc	
	Does my final paragraph summarise the topic including my own opinion?	

Let's look at a model balanced argument:

Introduction

Definition of
Xenotransplantation

For

Against

For

Wednesday 26th February 2020
IT:10 debate on argument

Should animals be used
for xenotransplantation.

Throughout the years, people have wondered what is xenotransplantation. With human organ-donors decreasing rapidly, Xenotransplantation is where an animal of a different species use ^{their organs to} humans have these organs. Xenotransplantation ^{operation} ^{Should this happen?}

Moreover, ^{with} human donors decreasing, animal organs are giving humans a longer life expectancy. (The most used animal is a pig) - As they are the closest to humans. In contrast, critics believe that it is a dangerous strategy as it ^{may} not work correctly because of the heart being cross-species, ^{they} also think it will get rejected.

*This means that using an animal's organs could ease the pressure on an extremely long waiting list.

Supporters believe that xenotransplantation is a better use of the different species (pig) as ^{as they are} already used as a source of food. In addition, pigs have a genetically close organs to humans. People also believe that if ^{we} didn't ^{they did not} similar

use them it would be a waste of resources. Although, critics say the people (such as vegans or vegetarians who don't eat meat) protest as they disagree with the ^{butchery} of pigs. ^{they may} also, do not like the fact that when they are killed, they can not have their say.

People in favour of xenotransplantation say that mistakes were made in the process. But now there is new technology coming in there is ^{also} new medication method namely: anti-rejection remedy ^{and there are} they are also establishing DNA injections. Despite this, it could go devastatingly wrong with animal ^{which} could carry ^{diseases} not just ^{diseases} that will hospitalise people, but it could kill people which ^{not} ruin the point as the would have been waiting a long time for it. (the transplant)

In conclusion, whether your ^{are} for or against xenotransplantation, with supporters believe it's a better use of animals. While critics say it awful that there ^{are} being killed. ^{Hopefully you will now understand xenotransplantation} ^{Hopefully you will now understand the} 2 opinions on xenotransplantation.

P/ ü You have countered your arguments leading to a balanced debate

Against

For

Against

Conclusion

What phrases or ideas can we use in our own balanced argument?

Wednesday 26th February 2020
IT: to debate an argument

Should animals be used for xenotransplantation?

Throughout the years, people have wondered what is xenotransplantation. With human organ-donors decreasing rapidly, xenotransplantation is where an animal of a different species use ^{its} humans have these organs. Xenotransplantation ^{operation} should ^{it} happen?

Moreover, with human donors decreasing, animal organs are giving humans a longer life expectancy. (The most used animal is a pig) As they are the closest to humans.

In contrast, critics believe that it is a dangerous strategy as it may not quite exactly because of the heart being cross-species, they also think it will get rejected.

*This means that using an animal's organs could ease the pressure on an extremely long waiting list.

Supporters believe that xenotransplantation is a better use of the different species (pigs are already used as pigs are a source of food). In addition, pigs have a genetically close organs to humans. People also believe that if we didn't ^{similar} ^{they did not}

use them it would be a waste of resources. Although, critics say the people (such as vegans or vegetarians who don't eat meat) protest as they disagree with the butchering of pigs. They also ^{they must} ^{not} like the fact that when they are killed, they can not have their say.

People in favor of xenotransplantation say that mistakes were made in the process. But now there is new technology coming in there is also new medication method namely: anti-rejection remedy ^{and they} are also establishing DNA injections. Despite this, it could go disastrously wrong with animal who could carry ^{diseases} not just diseases that will hospitalize people, but it could kill people which real ruin the point as they would have been waiting a long time for it. (the transplants)

In conclusion, whether you're for or against xenotransplantation, with supporters believe it's a better use of animals. While critics say it argue that these ^{arguments} ^{being} ^{told}.

Happily ^{they} ^{will} ^{now} ^{understand} ^{xenotransplantation}. Hopefully ^{you} ^{will} ^{now} ^{understand} ^{the} ² opinions on xenotransplantation.

P/ i You have countered your arguments leading to a balanced debate

Throughout the years, people have often wondered ____.

In contrast, critics believe that ____.

Although, critics say that ____.

Supporters believe that ____.

People in favor say that ____.

Despite this, ____.

In addition, ____.

Moreover, ____.

Should animals be used for xenotransplantation?

In your books:

Introduction

- To include a brief definition of Xenotransplantation and the overview of the two differing opinions.
- DO NOT give your opinion at this stage!

An example:

Throughout the years, people have often debated the advantages and disadvantages of xenotransplantation. It is essential to first define the term, what is xenotransplantation? Xenotransplantation is the transfer of an organ from one species to another. Some people are eager supporters of the procedure; others are fierce critics and firmly believe that animals should not be involved in the surgery. By examining evidence, this balanced argument will explore both sides of the argument before reaching a conclusion.

*Look at the fact sheet at the end of the slideshow to help you provide evidence!
Or you can make up your own sensible statistics 😊*

Main Body

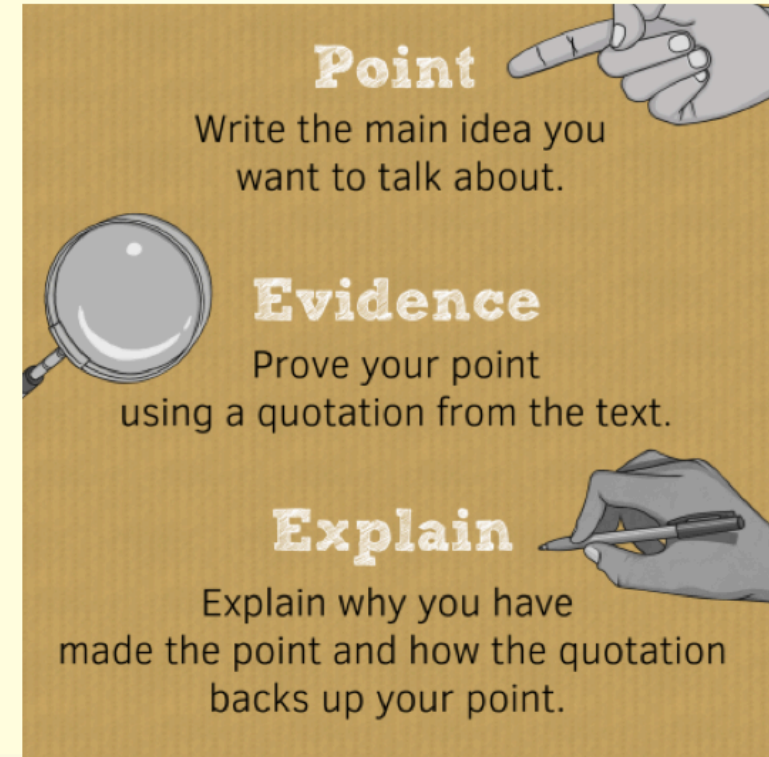
2 x FOR paragraphs

Animals **SHOULD** be used in
xenotransplantation.

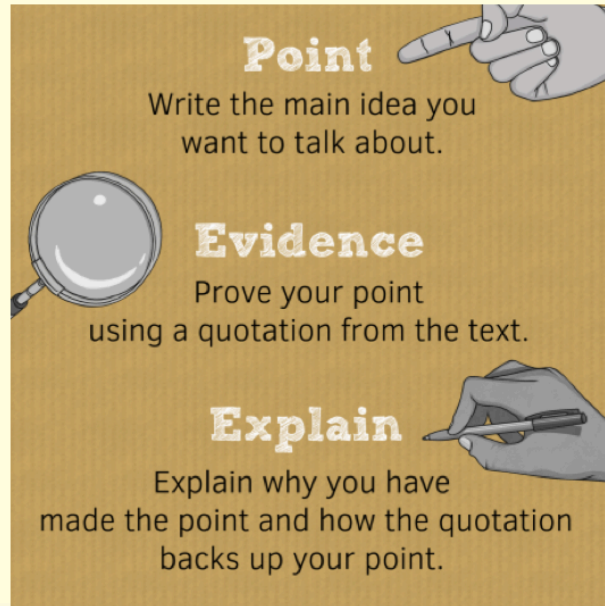
What are the benefits?

- There are more animal donors available than human donors.
- The animals are treated humanely.
- Pig hearts are effective because they are similar size to humans.

To structure our paragraphs, we need to use:



To structure our paragraphs, we need to use:



For example:

Point: Firstly, it is important to point out that there are more animal donors available than human donors. There is a finite number of humans who would be willing to donate their organs.

Evidence: Research suggests that it would be possible to carry out 50% more transplant surgeries each year if doctors were able to use animal organs.

Explanation: Consequently, it is imperative that animals should be used for xenotransplantation as this would save thousands of lives around the world each year.

Throughout the years, people have often wondered_____.

In contrast, critics believe that _____.

Although, critics say that _____.

Supporters believe that _____.

People in favor say that _____.

Despite this, _____.

In addition, _____.

Useful sentence starters for a balanced argument

However...

Firstly...

Research suggests...

Consequently...

Although...

Finally...

Studies show...

Therefore...

On the other hand...

Furthermore...

It is well known that...

For this reason...

On the contrary...

Also...

Statistics show that...

As a result of this...

In contrast...

In addition to this...

It is common knowledge that...

Some key facts to help you with providing evidence:

- Sometimes our organs don't work properly. This can be because of an illness or just something the person was born with. When this happens, doctors will decide if they can replace the organ with a healthy one from someone else.
- Roughly 5,000 heart transplants performed worldwide each year
- Unfortunately, suitable hearts do not become available for everyone and only 8 out of 10 people receive the heart transplant they require.
- Around half the people accepted onto the heart transplant waiting list receive a transplant within three years.
- Did you know that in the UK over 1,300 people a year die in need of an organ? That's around three people every day.
- Transplants of chimpanzee kidneys has been done into 13 patients, one of whom returned to work and lived a healthy life
- One surgeon carried out the first chimpanzee-to-human liver transplantation in 1966
- Genetically modified pigs offer hope of a limitless supply of organs and cells for those in need of a transplant.
- In the 19th century, skin grafts became relatively popular between various animal species and humans
- In the 1970s and 1990s, a number of attempts were made to transplant kidneys and in some instances livers and hearts, from non-human primates to patients.
- Some such kidneys functioned for several months, but the majority of the primate organs failed because of rejection or surgical complications, early after transplantation.
- A high risk of virus transmission
- Most of the larger primates used for transplants are classed as endangered species.
- Pig organs are anatomically similar to human organs and pigs come in all sizes.
- Pigs have large litters and are easy to breed.
- A further advantage of using pig organs is that the transplant procedure can be prescheduled

Edit your writing to correct any punctuation or spellings.

Fantastic work today 😊

Email your finished work to:

ksutherland@kingsavenue.Lambeth.sch.uk