

FERTILE TERRITORY — EDIT SCRIPT

Notes: see separate note

Cut 2 timings	'The Edge' titles	Title music
	Intro	
0020	10:00:20 – 10:00:30 'Population' seq. (see note ¹) of photographs and moving images of people. ¹	Music starts (3 or 6 beats / sec?)
	10:00:30 – 10:01:04 Poss overlay with misc. numbers – random size and position – numbers build at the end to make up the approx. population at the end of the 2 nd millennium – eg: (6,128,367,209) – the number continues to rise by around 3 a second....	VO 1 On October 12 1999 the world's population was estimated to have reached six billion. That's three times the number there were only 75 years ago and it's still rising by almost three people every second. But it is thought that half of all pregnancies are unplanned or unwanted. Many of the mothers will die needlessly in childbirth.
	10:01:05 – 10:01:13 Poss ending on Nigeria shots – but not too obvious? – Perhaps the dragging doll?	Many of the children will be born into poverty and some of those will die. Music There are now around 150 ² more people in the world than there were when this programme started, just one minute ago. Music ends? (Opening argument lasts for 1 minute ³)
	Carlos Huevo (other op. quotes?) 10:01:14 – 10:01:29 Carlos Huevo (check) International Planned Parenthood Federation	Every year 78 million people are added to the population of the world, that is really tremendous and 95% of this population increase is happening in developing countries.

¹ Pulsing shots of babies, children, teenagers, young adults – various people in different places (including some that we shoot in Nigeria and Edinburgh) at the rate of up to 6 a second – perhaps in several places on the screen.

² Source: U.S. Bureau of the Census, International Data Base (147 every minute, or 2 ½ per second). Data updated 05-10-2000.

³ or perhaps 30 seconds with script modified accordingly – 1 minute is better

	Ending on shots in Nigeria	7 2	
	10:01:30 – 10:01:42		VO 2 The Governments of the world have set an ambitious target. They plan to halve poverty by the year 2015 (check) and they see greater access to contraception as their key tool.
	10:01:43 – 10:02:08 Professor David Baird Centre for Reproductive Biology, Edinburgh		Its impossible in a society where you have no control over the number of children you have to emerge from the cycle of repeated childbearing, looking after the children to emerge economically from the state where you can no longer be poor. So control over your reproduction and that is contraception is an absolutely essential component to alleviating poverty
	Title Supra:		
	FERTILE TERRITORY		
	Edinburgh intro		
0206	10:02:08 – 10:02:15	8	
	Edinburgh shots (people, cold, Arthur’s Seat, Joggers)		
	12		
	10:02:15 – 10:02:27		VO 3
			Economically, the effect of unwanted pregnancies may be felt hardest in developing countries but unwanted pregnancies occur everywhere – even here in Scotland where the population level has been static for decades.
NEW	10:02:32 – 10:02:35	8	
	GV of centre. People in the streets		
	11		
	10:02:28 – 10:02:35		It’s in Edinburgh where much effort to find new forms of contraception has been focused at the Centre for Reproductive Biology.
NEW	10:02:36 – 10:02:49		
	Richard Anderson Centre for Reproductive Biology, Edinburgh		The main problem in the developing countries is the lack of any form of contraception in a lot of them but equally in developed countries too such as this one even though there are a lot of methods they clearly are unsatisfactory and there are still a lot of unwanted

pregnancies.

9

10:02:51 – 10:02:59

VO 4

Here they are not looking for theoretical concepts, they are looking for practical solutions that are likely to turn into real products.

IL
KU

10:02:56 – 10:03:30

12

Ed'burgh streets female
we see woman and
graphics (womb & tubes
etc superimposed)

10:03:01 – 10:03:08

VO 4a

Most recent research has concentrated at the point where fertilisation takes place inside the woman's body.

(remember a sperm
wearing sunglasses is
funny – VO ref please)

10:03:10 – 10:03:29

Here, the main potential targets for contraceptive attack are the tiny egg which is released each month from one of the ovaries, and the sperm that are attracted by the egg and swim through the uterus from the vagina. It's the sperm that fertilise the egg that so far have largely avoided the limelight.

Richard

10:03:30 – 10:03:40

The methods that we are particularly interested in approach in are the male methods of production of sperm and also methods that effect the development and release of the egg in the female.

Contraception developments

0318 Montage of people shots –
and shots of IUD's etc.
then we realise that we are
watching people looking
at displays⁴ of previous
birth control methods.

13

Music – the backwards singing track?

⁴ Science museum, London

10:03:42 – 10:03:59

VO 5

In most developed countries modern methods of contraception have become relatively commonplace and since the 1940's, the subject of much cutting edge medical research.

But despite this work, there is still no perfect method.

10:04:03 – 10:04:31

Laurence (from 1 & 2)

N/S

10:04:03 – 10:04:31

Ghislane Laurence
Science Museum

Contraception has been around since ancient times and it seems likely that most ancient societies used some sort of natural methods. People for example in the Middle Ages used all sorts of materials that we wouldn't think of as medicine or pharmacy, such as dirt or animal dung, a mixture of magical and natural ingredients, some herbs, some we would find extraordinary, either placed in the vagina or taken internally in the hope of preventing pregnancy.

10:04:19 – 10:04:33

Dung, herbs etc shots

10:04:34 – 10:04:50

Shots of Lemon being prepared

10:04:34 – 10:04:50

VO 5a

¹⁵ Its not really known how many of these methods may have worked but some of the ingredients such as lemon juice and vinegar probably would have had some effect killing sperm. Casanova was said to recommend that women used half a cut lemon squeezed out as a cervical cap.

10:04:51 – 10:05:17

Geronimo ad

Look what we had to put up with.

I called it Gerionimo my friend. Compared with condoms of today it was like wearing the inner tube of a cycle. It wasn't disposable like the modern condoms. It was designed to be used again and again....

It was like having a bath with your socks on but it never stopped me, no way.

10:05:19 – 10:05:33

Laurence 5 – Condoms

It wasn't until rubber technology came that the modern sheath as we know it came into existence, and even then it wasn't really as we know it because

<p>10:05:19 – 10:05:42 Shots of condoms LOSE THIS >>>></p>	<p>and even then it wasn't really as we know it because you need the very fine latex rubber to produce the modern sheath .</p>
<p>10:05:43 – 10:06:10 Laurence 6 - Cap / diaphragm 10:05:43 – 10:05:55 Shots of cups and diaphragms TRIMS >>>></p>	<p>We've also got rubber contraceptives for women coming into particular use for women in the early part of the 20th century because they were very much favoured by the birth control campaigns,] [and also purely obstructive methods like sponges, which were placed in the vagina, soaked with vinegar for example. Again, a lot of this information passing from women to women, not really a matter for medical attention at all until about the middle of the century.</p>
<p>IUD pics in the museum 10:06:16 – 10:06:35 15</p>	<p>music.... VO 6 16 The development of the intrauterine device (or IUD) brought us some extraordinarily shaped contraptions which were placed directly inside the uterus. Their use became widespread in the nineteen fifties, but it's invasive, and many women had problems with it.</p>
<p>(7) 10:06:38 – 10:06:52</p>	<p>18 VO 7 The next major development was truly cutting edge and it has been the forerunner of many new ideas since.</p>
<p>10:06:36 – 10:06:47 1960's pills shots</p>	<p>The oral contraceptive pill has now been is taken by 100 million women since it was introduced in the 1960's.</p>
<p>Female pill graphic 6 secs of mary</p>	
<p>10:06:47 – 10:07:13 24 secs of mary (2)/ animation (22)</p>	<p>19</p>
<p>10:06:54 – 10:07:13</p>	<p>VO 7a (how the pill works) It differed from all other methods because it relied on changing the normal levels of hormones in women. It effectively fools the body into thinking it is already pregnant, causing no more eggs to be released. Any sperm that make it into the uterus and fallopian</p>

tubes simply have nothing to fertilise.

10:04:14 – 10:07:23

Laurence 11 – the pill

Well, of course, the development of the pill, the female pill changed everything because that was a trouble free method of contraception and in the end it was an affordable method.

Yam pics

Pics of the pill

10:07:24 – 10:07:43

Laurence 12 - pill

For several decades the pill was seen as the best solution by many people, but there is a risk with the pill and many women don't like taking something that they feel interferes with their natural condition, and I suppose they feel that men ought to take more of the responsibility again.

0825 10:07:44 – 10:08:03

'Medicine cabinet' shots

20

10:07:47 – 10:08:03

VO 8

But that is not easy. There are dozens of methods of contraception available but none of them are perfect and virtually all of them are for women.

The condom sits alone in the contraceptive medicine cabinet as still the only method for men apart from vasectomy.

10:08:02 – 10:08:12

Music

Fuzzy of people in Ed

10:08:10 – 10:08:18

VO 8a

24

Perhaps not surprisingly, trying to develop new contraceptive methods for men has become the focal point for much of the work at the Centre for Reproductive Biology.

10:08:19 – 10:08:32

Prof. David Baird
Centre for Reproductive
Biology, Edinburgh

Well, this centre was set up nearly 30 years ago to investigate basic reproductive process in order to try to develop new methods of either contraception or infertility in treating infertility.

10:08:33 – 10:08:54

Karen Smith (2609)

Karen Smith

One of our main purposes is to try and investigate new methods of contraception for men because the methods men have to choose from right now are limited.....condoms or vasectomy and for a whole

Centre for Reproductive Biology, Edinburgh	host of reasons pharmaceutical companies are shying away from contraceptive research.
Lab shots	Music
10:08:55 – 10:09:39	It's not a terribly attractive area for two main reasons. One, it's expensive and quite a risk to produce new contraceptives because you give them to healthy men and women and therefore, they have to be absolutely safe as well as effective. And, secondly in an increasingly litigious society, particularly in the United States, you're quite likely to be sued and many drug companies have withdrawn products in recent years for this reason.
Baird from 201(1157 – 1515)	
Baird (1630)	So what we're really doing here is to try to bridge the gap between the basis idea, as developed in the laboratory and the stage where a pharmaceutical company would take it on for product development
The best options	
1017 10:09:39 – 10:09:55	Music – backwards singing
10:09:55 – 10:10:54	We looked at a number of ideas.... immunise against sperm or eggs... best two ideas....the first is a drug whichdrug called Mifepristone..... that methods do in men to block sperm production in men.
I/v Baird	
Baird (2430)	Although it was discovered Its been used as an abortion pill ...acquired a baggage ...done is much smaller.....] [.but that baggage just made many pharmaceutical companies reluctant to get involved
10:10:55 – 10:11:00	29
Shots testing it out in the lab, drugs being prepared, closer microscope shot.	
10:10:55 – 10:11:02	VO 11
While work still continues on other techniques, it's the idea of a pill for men that looks most likely to attract a manufacturer.	
10:11:01 – 10:11:13	Music
Eye looks through micro	
10:11:14 – 10:11:29	33
cut to prepared graphic	

Testes normal graphic

(man in the microscope)

10:11:08 – 10:11:27

VO 11a

A man is in some ways a difficult target. While a woman produces one egg a month, a man normally produces millions of sperm in a day.

The testes are in effect gorged with Sperm. Although the physiology in men is very different the hormonal method being developed in Edinburgh is in some ways not that new.

10:11:29 – 10:11:58

Prof. Baird

Well it works in the same way as it does in women. The combined pill is made up of ...gestogen...and an oestrogen...it suppresses the ovulation in the ovary..... now we take the sameand combine it with testosterone.... and it suppresses sperm production.

cut to prepared graphic

Testes/male pill graphic

39

(man in the microscope)

10:11:59 – 10:12:24

VO 12

The basic idea is simple. Oestrogen – which can be taken as a pill – suppresses the creation of new sperm in the testes. The drawback is that it also suppresses the secretion of the male hormone Testosterone.

And that's a real problem, without it men lose many of their male characteristics. So in this trial the plan was to replace that lost testosterone using an implant under the skin.

10:12:26 – 10:13:01

Richard

Testosterone is important for all the aspects that make men...moodiness...so you need the right amounts. The problem with giving testosterone ...so you have to give it as an injection or as some sort of implant.

Surveys

10:13:02 – 10:13:15

People of Edinburgh shots

40

10:13:03 – 10:13:35

VO 14 - how do they know if these ideas will work.
But in order to bridge the gap between theory and commercial product – they had to check that the idea of a male pill is not only going to be effective but will also be acceptable.

10:13:16 – 10:13:35

Fire officer actuality

Firemen / hose seq.

Firemen / survey seq.

42

10:13:24 – 10:13:35

VO 14a

They wanted to know if there was a need for a male pill and if men would take on such a drug cocktail. They started by asking the men from the local fire brigade.

10:13:35 – 10:13:50

Actuality survey / music

10:13:51 – 10:13:59

The results were very positive and we found that 2/3rds of men were positive about the idea of a male pill.

Karen Smith (1449)

10:14:00 – 10:14:11

68

Sawing

10:14:02 – 10:14:08

VO 15

After the surveys came the trials. Scott Cross was of the first to take part.

10:14:09 – 10:15:07

Sync scott and Julie

Scott Cross sequences....

10:15:08 – 10:15:28

Karen Smith (1638)

Working in contraception is unique in that not only do we have to look at the physiological...what happens in the body, ..to find out in the various cultures...not only necessary to test it in the UK butcentres in China and Africa

Nigeria

10:15:29 – 10:15:44 arrival music

Nigeria shots / arrival
shots in car.

10:15:45 – 10:16:00 Going to Nigeria was a bit of a leap in the dark... no
Richard (203) 0300ish starts oov male contraceptive surveys] [...lots of problems
with contraception in Nigeria in as much as there
isn't very much...enormously (0344)...populated
country....

10:16:01 – 10:16:05
(50" incl. music) 47

10:16:06 – 10:16:20 VO 17

The Nigerian centre is in the old trading town of Sagamu, (Pron. Sha-gar-moo) about an hour north of Lagos. It was the last to join the Contraceptive Development Network and the team from Edinburgh have come to the research clinic here in the town, run by Professor Kai Dada, to assess the results.

10:16:21 – 10:16:55 High population brings a lot of problems, For some
Kai Dada women they need assistance, not to be pregnant at a
time when it poses a great hazard. Let us say a
woman has just been through an illness] [it is not the
time for her to be pregnant] [So we are hoping the
people will see Family planning, contraception not
only in terms of too much population or reducing
population but also women's health

10:16:40 – 10:17:00
Shots of women
Traditional methods shots 51

10:16:56 – 10:17:16 VO 18

The chance of a woman dying in childbirth in Nigeria is over 100⁵ times the global average and the introduction of new methods of contraception may not be an overnight success. Modern methods are currently used by only 6%⁶ of the population - many of the rest still rely on what is called traditional

⁵ Source: Professor Kai Dada

⁶ Source: Professor Kai Dada

	family planning.
10:17:16 – 10:17:22 Kai	We know women use traditional methods.... we don't know hoe effective /
10:17:23 – 10:17:31 Esther (act)	(feathers etc) this is the feather to rub the stomach up
10:17:32 – 10:17:58 Kai	Some are referred to as refer to as talisman which means they are not of a defined nature....woman rubs on her..... and while she has this she is not supposed to get pregnant
10:17:59 – 10:18:32 Esther (act)	(ring)
10:18:33 – 10:18:43 Kai (CUT)	There are some concoctions.....Padlock.....
10:18:44 – 10:18:56 Esther (act)	(padlock)
10:18:57 – 10:19:16 Kia	Traditionally in most African cultures(Children as blessings form god so the more children the more blessings you receive.
10:19:02 – 10:20:22 Kids in the playground shots	
10:19:19 – 10:19:46 Kai	the other issue (Polygamy) with most of our cultures a man can have more than one wife.....everyone of them will want same number of children because it has economic implications.
10:19:47 – 10:20:22 Sister arrives at the house	Actuality greeting
10:19:52 – 10:20:13	VO 19
	⁵² Understanding these many cultural differences helps the team interpret the results and assess the impact of the trail. As the trial ends, the team from the clinic checks up on those who took part in the study.
	Mukaila Adeniji has only one wife but three children.
	Greeting actuality
10:20:15 – 10:20:35 Kai	Results – sperm

10:20:36 – 10:20:42	There's no problem I am physically fit... ..put on more weight.
Name Supa:	
Mukaila Adeniji	
10:20:43 – 10:20:57	A lot of men felt an increase in Libido.....
Kai	
10:20:58 – 10:21:21	My performing is better.....making fun with my wife...four times in a week is no problem
M	
10:21:22 – 10:21:35	
Sagamu shots	56
Re-establish Anderson / Smith in Sagamu making check ups....	
10:21:36 – 10:21:49	VO 20 The results are encouraging. Sperm count had been reduced to zero, just as it had in Scotland. Side effects were minimal and the only significant complaints seemed to be concerns about the method of delivery.
10:21:50 – 10:22:09	In this study.....We used capsule, implant under the skin – intolerable / invasive
Kai	
10:22:10 – 10:22:29	The implants are not ideal.....We know its a prob / gona make it an inject....not an ideal way of giving the testosterone really....
Richard	
10:22:30 – 10:22:47	Injections (laugh out)
Mukaila	
10:22:48 – 10:23:20	music
Africa / Sabu	58
10:23:05 – 10:23:20	VO 21 But there is another overwhelming problem in Nigeria. On the edge of Sagamu lies one of the Aids hot spots of Africa. Many women work as prostitutes in this area and Kai's research has show that around half them are HIV positive.
10:23:21 – 10:23:40	The advantage of Condoms...prevent sexually transmitted disease. If you do not want to have fun with your wife and you go outside ...now using condom is not advisable to me.
Mukaila Adeniji	
10:23:41 – 10:23:59	Within stable family relationships if both start off

Kai Dada	HIV negative then this could be a good method for them.
10:24:00 – 10:24:29	
David Baird	There is a huge problem...high priority forbut that doesn't mean you should abandon alternative methodsyou compound the problem if you've got aids and you're pregnantpass aids on to the new-born child.
Conclusion	
10:24:29 – 10:24:46	actuality
Organon Shots of drugs On production line (not too obvious)	
10:24:31 – 10:24:44	62 VO 22 The team has now succeeded in interesting a major pharmaceutical company to take on further development on male pill. The Dutch company, Organon already manufacture many different contraceptive methods.
10:24:45 – 10:25:24	
Henk Jan Out (Organon)	I think the Edinburgh group has been instrumental.....first and secondly surveys..... I think as soon as these drug trialsfive years.... It's important to realise.....male contraception should be available as well
10:25:11 – 10:25:25	
Shot of the pill and injection at the	
10:25:26 – 10:25:36	
Carlos Hwezo (IPPF)	we know that the more contraception options that exist, the more likely that the population is going to practice family planning.
10:25:37 – 10:25:49	
Hank Jan Out	It's important to realise that women are different, couples are different, and every couple would like to choose their own methods that they prefer. And the male contraception definitely is one of the options that should be available as well.
10:25:50 – 10:26:08	
Carlos Hwezo	So that is why we should welcome the developing of pill for men. I mean, that is something that has been lacking for many years. It's not unusual that when I go to places around the world to be asked when we are going to have a method for men.

10:26:09 – 10:26:34

Music

Reprise the rising numbers (don't be too literal...just the end few digits – perhaps slow zoom in on the numbers)

VO 23

10:26:14 – 10:26:36

There are now about 4000⁷ more people on the planet than there were at the beginning of this programme. Many of those were not planned and they bring with them poverty and unhappiness.

The eventual solution could well be more contraceptive choice – if it is then the 'male pill' being pioneered in Edinburgh, in Sagamu could well be the next major development.

10:26:37 – 10:26:56

Reprise shots in the science museum – we realise the male pill is the centre of the exhibit.

VO 24

10:26:40 – 10:26:49

In some ways, it's becoming a reality already. At the science museum in London, the 'male pill' is the centrepiece of a new exhibit on contraception.

10:26:57 – 10:26:59

Suzanna shots etc.

10:26:52 – 10:26:58

It's a method that's not just about helping reduce population growth, it's about giving couples more control over their own fertility. And it's reversible.

10:26:59 – 10:27:21

Julie and Scott Cross respres

Reprise doll

10:27:22

End Credits:

⁷ Source: U.S. Bureau of the Census, International Data Base. This suggests population rose by 147 every minute in the year 2000 (updated 05-10-2000)

END CREDITS

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Music Cue Sheet for “Fertile Territory”

Time Code	Duration	Track name	No.	CD Name	Number
00:19	59”	Bad Omen	20	An African Journey	KPM 164
04:23	29”	Spirit World	22	An African Journey	KPM 164
06:06	30”	Paris-Dakar	15	Global Youth	Atmos CD 127
07:42	30”	Atlantis Calling	12		Koka 2160
09:39	29”	Africa Song	02	Future World Music	Atmos CD 100
11:01	30”	Africa Song	02	Future World Music	Atmos CD 100
13:34	30”	Spirit World	22	An African Journey	KPM 164
15:28	60”	Atlantis Calling	12		Koka 2160
21:20	30”	Atlantis Calling	12		Koka 2160
22:45	30”	Mother Africa	01	An African Journey	KPM 164
26:07	30”	Bad Omen	20	An African Journey	KPM 164

Details

Koka Media 2160 – track 12 – Atlantis Calling BPM 120 all titles composed by JP Merkel. P & © Cezame Argile. Call 01 48 01 93 83. 19 rue du Fauberg Sanit-Denis 75010 Paris www.koka.com

KPM 164 – Traditional tribal music recorder on location by david Bradnum. Tracks 1, 20, 22 composed by David Bradnum. P 1991

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