

HB215
An Act Banning Human Cloning
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Mechanics of Human Cloning:

- 1) Unfertilized human egg.
- 2) Replace the nucleus with donor somatic cell nucleus.
- 3) Electrostimulate to begin cell division.
 - a) Reproductive Cloning (Duplication of donor)
 - *Moral and ethical questions.
 - *Play thing of the rich and famous!
 - *Chimera creations—85% sheep, 15% Human
 - *30% birth defects in animal models.
 - b) Therapeutic Cloning (Embryonic Stem Cell line)
 - *Create transplant tissue genetically identical to patient.

FLAWS:

Therapeutic Cloning

Cure **Diabetes** in 17 million Americans using **embryonic stem cell lines** created from **therapeutic cloning**.

- 1) **Collect eggs, 100 eggs/diabetic---1.7 Billion Eggs**
 - a) **10 Eggs/donor---170 million women donors.**
 - b) **72 million women of reproductive age in US.**
 - 1) **Superovulation dangers—menopause @30,**
Ovarian cancer, osteoporosis, stroke, heart disease
 - 2) **1.2 Billion women in undeveloped countries.**
 - c) **Egg Recovery Cost per patient...\$200,000**
Total Egg Costs—Diabetes Cure...\$3.4 Trillion
National Debt \$8.6 Trillion

- 2) **Perform Nuclear Transfer.**
- 3) **Electrostimulate** to begin cell division.
- 4) **Kill 1.7 billion embryos** at the 50 cell blastocyst stage and harvest the 17 million embryo stem cell lines.
- 5) **Stimulate** the 17 million embryonic cell lines to develop into **insulin secreting pancreatic cells.**
- 6) **Inject** into 17 million diabetic patients.
 - a) Recipient specific **embryo stem cells** begin **secreting insulin.**
 - b) **Animal research** indicates **26% (4,420,000)** will develop **tumors** and die. (Harvard, 2002 Mice with Parkinson's). **No way to remove implanted cells.**

What HB 215 Does:

- 1) **Bans Human Reproductive Cloning.**
- 2) **Bans Human Therapeutic Cloning.**

What HB 215 Doesn't Do:

- 1) It **doesn't ban embryonic stem cell research** using **previously established cell lines**, (60 available for Fed. Funding) or use of **embryos obtained from In Vitro Fertilization** procedures.
- 2) It **doesn't prevent** anyone from **donating their own embryos** into embryonic stem cell research. (Private Funding.)
- 3) It **doesn't prevent adult stem cell research** in any form.
- 4) It **doesn't prevent non-human cloning** in any form.