A Comparison of Fertility Surgery and Fertility Medication

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A Comparison of Fertility Surgery and Fertility Medication
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Background

- P.C.O.S.= Polycystic Ovarian Syndrome
- 7% of women are diagnosed between the age of 15-44
- PCOS irregulates menstrual cycles and elevates androgen levels
- Most women find out they have PCOS in their 20’s or child-bearing years
- The risk of having PCOS is equal through out races and ethnicities.

Specific Aim

- This study will look at how removing ovarian cysts improve the fertility in women with PCOS.
- This study will also compare removing ovarian cysts and looking at the medication females receive for fertility.

Materials and Methods

- 12 mice that are missing PKB/Akt2
- 6 mice will undergo fertility surgery
- 6 mice will take a daily dose of fertility medication
- During mating season the mice will be tested on health
- ANOVA will explain which results work the best.

Expected Results

- Almost half of the mice that went through fertility surgery will become pregnant
- Obese mice will have a harder time getting pregnant even with infertility treatment
- Mice who have taken Metformin will see an increase in pregnancy
- Metformin shows effectiveness when achieving ovulation in mice
- Metformin also reduces the insulin concentration in mice

Reference