Fertility, Belief, and Sexuality

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The Effects of Estradiol and Testosterone
• Many Animal Species: Controls Copulation
• Most Primates: Influences Copulation; Signals Peaks In Sexual Behavior
• Humans: Influences Sexual Motivation

The Human Ovulatory Cycle
- Average Length of 28 Days (22-35)

Urine Sample Collection
- Samples were collected between 10 AM and 8 PM and refrigerated until
- Urine samples were collected for 10 days upon the completion of menses.

GENERAL METHODS
- Participation Requirements:
  1. Cisgender Women
  2. Age 18-35
  3. Not Pregnant
  4. Not On Hormonal Contraceptives
  5. No Known Reproductive Disorders

Methods of Determining Stage of Cycle:
- Fertile (Day of Ovulation and 5 Days Proceeding)
  - Confirmed: Ovulation Hormone Test (Pregmate®): Indicates Ovulation 24-36 Hours After LH Surge Is Detected
  - Estimated: Backwards Counting Method (±13 and ±15 Days From Start of Next Menstrual Cycle)
  - Forward Counting Method (±14 Days From Start of Last Menstrual Cycle)
  - Variable Forward Counting Method (±28 days: ±8-12; 28-29 days: ±9-15; >30 days: ±11-17)
  - Actuarial Methods (Per-Day Risk of Conception): Jichie Method and Wilcoxon Methods

Luteal / Not Fertile
- 6-Day "Luteal" Window: Midcycle Estimation (Halfway Between Ovulation and Start of Menses)
- 3 Estimation (Window After Ovulation)
- 8 Estimation (Window After Ovulation)
- ±6 Day "Non-Fertile" Window
- Daily Journaling
  - Questions:
    1. Are you on your period?
    2. Do you believe you are fertile today?
    3. Please rate the intensity of your sexual desire today. (6-Point Scale)
    4. Based on how you feel today, which of the following are you most likely to do? (Actively seek sex; Agree to sex if propositioned/offered; Avoid sex)
    5. How happy do you feel today? (10-Point Scale)

UCARE Project
- Acknowledgments
- References
- Table 1. Significance of Fixed Effects In Relationship To Confirmed Fertility
- Table 2. Significance of Fixed Effects In Relationship To Confirmed Fertility
- Figure 1. Average Accuracy of Estimation Methods in Days of the Fertile Window: Currently Identified
- Figure 2. Results of the linear hypothesis. Differences in line indicate differences in results from using different LNF methods. By default, effects are presented as follows: high happiness, high sexual desire, high sexual response, high fertile belief, and fertile; variations from default are indicated.
- Figure 3. Estimated Marginal Means for Sexual Desire, Sexual Response, and Fertile Belief by Stage of Cycle.