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DES caused birth defects in animal studies, it was known that it crossed the placental barrier

Biological essentialism of the day reinforced by the social norms of the day that women and men should play very different social roles because of their biological differences

Social norms and values reinforced the apparent explanatory power and simplicity of the overriding theory, that female hormone levels must be maintained at a high level for a successful pregnancy

Reasons and evidence to be concern about DES were largely ignored

Cognitive values reinforced belief in the beneficial efficacy

Simple model of sex and hormones

Simple model of hormone function

Simplicity

Social values (of the day)

Beliefs about hormones

Stability in fixed gender roles

Ethical values

Convergent objectivity: exists multiple and independent sources of evidence that point toward the same

empirical claim.

Detached objectivity: avoid having one’s values acting as evidence in their reasoning

Procedural objectivity: same outcome is always produced, regardless of who is performing the process.

Concordant objectivity: checks to wee whether the individual judgements of people in fact do agree.

Interactive objectivity: discussion among participants/open community of discussion

**Ivory-billed woodpecker**

Used different kinds of information to confirm the presences of the bird

Visual information: flight pattern and wing feathers

Audio information: the bird’s calls and distinctive raps

In addition: the habitat was perfect for the bid

Convergent objectivity here

Researchers worked hard to maintain detached objectivity

Trying not to get too excited about the possibility of the bird’s survival in the US

Planned carefully structured expeditions into the area where the bird would be

expected, and they systematically took appropriate data

Brought in additional researchers to see if they too could spot the bird

To see whether different people would simply see the same thing during a bird

Sighting

Seeking concordant objectivity here

Convergent, detached, and concordant all part of this study

**Climate change**

Convergent

Jeremy: 1, 6