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Assessing evidence and uncertainty

Pittelkow, Merle-Marie

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Propositions associated with the dissertation Quantifying Evidence and Uncertainty: Informed Decision Making in Drug Approval and Replication Target Selection

by Merle-Marie Pittelkow

- 1. Treatment choices should be informed by good, scientific evidence.
 - Chapter 2, Chapter 3, Chapter 4, and Chapter 5.
- 2. "The p-value is an imperfect statistical summary index" (Goodman & Royall, 1988) and Bayes Factors offer a valuable alternative to quantify statistical evidence.
 - Chapter 2, Chapter 3, and Chapter 4.
- 3. If drugs are endorsed without adequate evidence for their efficacy, this should be communicated to patients.
 - Chapter 2 and Chapter 3.
- 4. The current application of the life-cycle approach in drug endorsement leads to inadequate standards of evidence.
 - Chapter 4.
- 5. Replication target selection should and can be streamlined.
 - Chapter 5, Chapter 6, and Chapter 7.
- 6. Transparency is key in evaluating replication target selection procedures.
 - Chapter 5, Chapter 6, Chapter 7, and Chapter 8.
- 7. Formal frameworks improve informed decision making while retaining the uniqueness of individual decisions.
 - Chapter 5, Chapter 6, Chapter 7, and Chapter 8.
- 8. In practice, we need a simplistic, dichotomous answer to questions. (inspired by Izard et al., 2019).
- 9. "Es irrt aber, wer glaubt, daß Versuche, so klar sie auch gedacht waren immer das *richtige* Ergebnis gaben" p. 12, Fleck et al., 1980.