

Website: • <http://www.medicine.mcgill.ca/epidemiology/hanley/Workshops/>

POSSIBLE TOPICS

1. Terminology (other disciplines)
2. Probability
 - Birthdays
 - Coincidences [after-the-fact calculations]
 - Inverse probabilities, medical tests/prosecutor's fallacy
3. Descriptive Statistics
 - Denominators
 - Center/Shape
4. Inferential Statistics
 - Standard Errors (SEs)
 - \sqrt{n} law
 - Model-based vs. 'empirical' SEs
5. Tests/CIs
6. Precision, statistical power
7. Multiplicities
8. Extremes
9. Over-confidence / being precisely wrong
10. Selective in/exclusion
11. Unfair comparisons
12. Measurement Error / Attenuation
13. Type III Errors (reasoning) A. Wald.
14. Type III Errors (data extraction/management)
15. Type III Errors (computation/EPA)

1 Terminology

- Starting out [one](#) [two](#)
- Other words/terms: estimate; significant ; precise; reliable; accurate ; false negative ; typical; average; etc.

2 Probability

- [Birthdays](#)
- coincidences [one](#) [two](#)
- [Notes](#)

3 Descriptive Statistics

- [Notes](#) [More](#) [Resources](#) [Exercises](#)

4 Inferential Statistics

- [Notes](#) [Resources](#) [max. elevator load](#) [QC: Trial of the Pyx](#) [gee too tight SE's](#)

5 Tests/CIs

- [Workshops](#) [Video Series: Against all odds](#)

6 Precision, statistical power

7 Multiplicities

- [Birthdays](#); coincidences [one](#) [two](#)
Figs 1 & 2 (& related material) in this JH [2018 article](#)

