

Week 14 - Meta-analysis and forest plots: Wednesday exit ticket

Week 14 – Wednesday exit ticket

Name: _____

Date: _____

Instructions

Work through each item below. Write your final response in the space provided. Show enough work that another reader can follow your reasoning.

1. A meta-analysis of a treatment is summarized in the forest plot below. The numbers are **schematic (illustrative, not a real study)**; the outcome is reported as a **risk ratio**, where $RR = 1$ means no effect.

Study	Risk ratio	95% CI
Study A	0.80	(0.60, 1.07)
Study B	0.72	(0.50, 1.04)
Study C	0.85	(0.74, 0.98)
Study D	0.78	(0.58, 1.05)
Pooled estimate	0.82	(0.74, 0.91)

- (a) Which column gives each study's **point estimate**, and which column gives its **confidence interval**?
- (b) What is the value of the **line of no effect** here, and which **single** study would be drawn with the **largest square** (most weight)? Why?
- (c) Which studies have a confidence interval that **crosses** the line of no effect?
- (d) Does the **pooled estimate** (the diamond) cross the line of no effect?
- (e) Write a **one-sentence cautious conclusion** about the treatment based on this forest plot.