

4.2 Experiments and Blocking

Michael Brodskiy

Instructor: Mr. Thompson

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The screenshot shows a statistics quiz interface. At the top, there's a navigation bar with a bell icon, a dropdown menu for "4.2 Experiments and blocking", and a user profile for "Michael Brodskiy". Below this, a breadcrumb trail reads: "Statistics AP-Thompson-Year-12462 (66479) > Activities and Due Dates > 4.2 Experiments and blocking".

The main interface is divided into two columns. The left column, titled "1 of 25 Questions", lists 10 questions. Each question is marked as "Correct" with a green progress bar. The right column displays "Question 1 of 25".

Question 1: Is fish good for the gut? Researchers tracked 22,000 male physicians for 22 years. Those who reported eating seafood of any kind at least 5 times per week had a 40% lower risk of colon cancer than those who said they ate seafood less than once a week.

Is it reasonable to conclude that eating seafood causes a reduction in the risk of colon cancer, based on this study?

- ☐ No, because the 22,000 male physicians were not a random sample.
- ☒ No, because of the potential for confounding.
- ☐ Yes, because the difference in the percentage who got colon cancer after eating fish was so much lower than it was for those that didn't eat fish.
- ☐ Yes, because the study was conducted over such a long period of time.
- ☐ Yes, because the study used a large sample size.

At the bottom of the question area, a green bar indicates "Solved".