



MATH225

Week 3 Lab Assignment

Name: Instructor Name: Allen Brown

Please use this template to help answer the questions listed in the lab instructions. The “parts” below refer to the parts listed in the lab instructions. Type your answers and post your screenshots in the spaces given below. Then, save this document with your name and submit it inside the course room.

Part 1. Read the assigned article.

Please reach out to your instructor if you did not receive the assigned article for the term by Monday of Week 3.

Title: Considering chance in quality and safety performance measures: an analysis of performance reports by boards in English NHS trusts

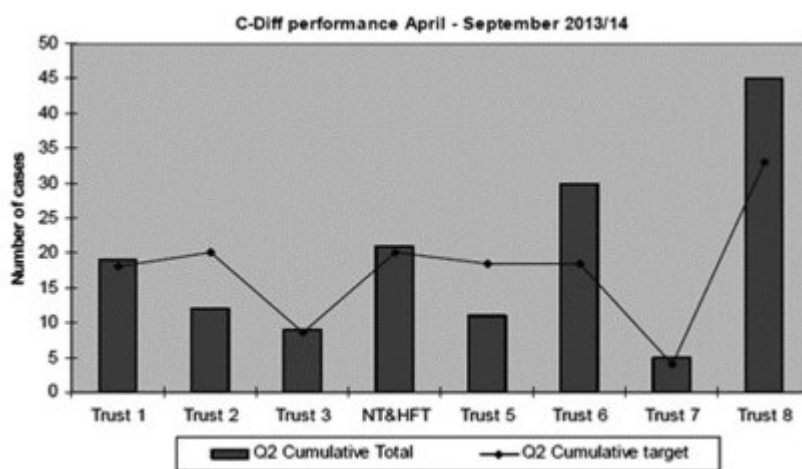
Author(s): Kelly Ann Schmidtke, Alan J Poots, Juan Carpio, Ivo Vlaev, Ngianga-Bakwin Kandala, Richard J Lilford

Summarize the assigned article in one paragraph. Make sure to quote and interpret at least one statistic.:

The article examines how NHS hospital boards present and interpret data related to quality and safety to identify care problems. It focuses on the difficulty of distinguishing meaningful signals from random noise in the data, highlighting that "only 6% of these charts depicted the role of chance." The study found that only a small fraction of the charts in NHS board papers included error bars or control lines to indicate the potential for random variation, making it harder for boards to make informed decisions. The authors argue that incorporating such visual cues, like control charts, could help board members better distinguish between real issues and random fluctuations, improving decision-making in healthcare settings.

Part 2. Choose ONE Graph, Table or Chart from the article.

Post a screenshot of ONE graph, chart or table from the assigned article (The article may have more than one chart/table/graph but you only choose one to analyze in this lab):



Part 3. Analyze the article.

Analysis

(Answer the following questions thoroughly in complete sentences, referencing the graph, chart or table you selected from the article.)

- A. What **type** of data does the graph, chart or table from your screenshot above display (Quantitative or Qualitative data)? **Explain** how you came to that conclusion.