Visualization dashboards in healthcare
Introduction

• Healthcare systems generate lots of big data
• Question is how to take advantage of them and gain insight?
• Vis dashboards!
• My survey paper aims to:
  • Describe why vis dashboards are used in healthcare
  • What content is included in dashboards
  • How to show them
  • Technical challenges of creating/implementing dashboards
Content/How data displayed

• Question dependent
  • Hospital performance: visuals about staff, patient, revenue, costs
    • Data usually displayed with bar charts and pie graphs
  • Clinical trials: visuals about efficiency of drug
    • data usually displayed with scatterplots to show range between months/years

• Some dashboards can include more than 1 type of domain
  • Combination of bar charts, scatterplots, pie graphs
    • To answer the same question OR
    • To answer different questions
My progress so far

• 25 research papers identified
  • Previous survey papers
  • Papers on dashboards
  • Papers on dashboards in healthcare systems

• Currently categorizing information:
  • Those about technical challenges
  • Those about what content to include in dashboards
  • Those about how to visualize data ~ which domains are used, which are most popular?
My progress so far II

• Adding paragraphs to paper, divided into sections
  • Introduction → what is data vis, what are dashboards, why dashboards are useful in healthcare systems
  • What content is included in dashboards
  • How are they shown in dashboards
    • What data vis domains are used?
    • What are some technical challenges in vis dashboard implementation?

• May add other subtopics later