Using LLMs to Analyze Medical Malpractice Cases at VUMC

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PURPOSE

To use ChatGPT to analyze the effectiveness of clinical decision support in preventing malpractice cases against VUMC

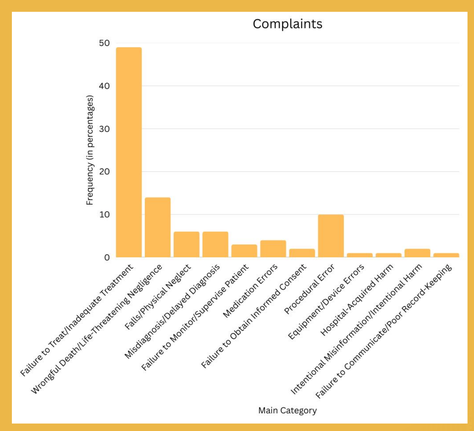
METHODS

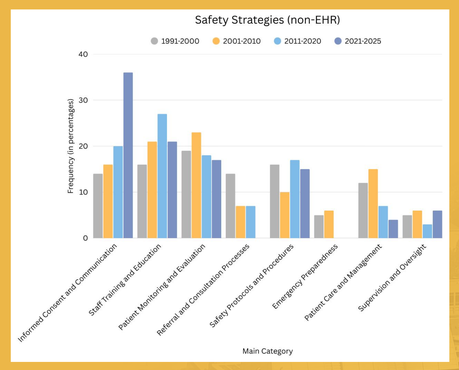
- Analyzed over 1200 case files
- Sorted based on the complaint in the case
- Asked ChatGPT to generate effective strategies

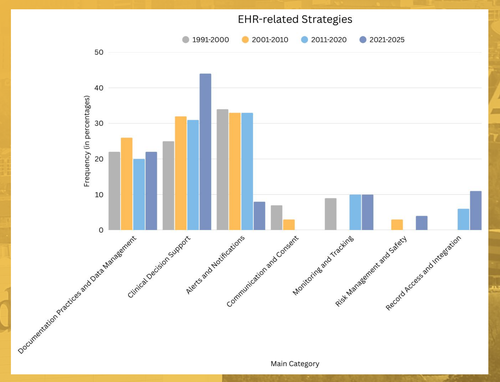
RESULTS

- Over 90% of cases could have been prevented with EHR-strategies

Implementation of **Clinical Decision Support Systems** may reduce medical malpractice cases by up to **50%**







AI Errors and Solutions

- *Problem: Provided solutions that were too specific to the case*
- *Solution: Asked to limit word count and sort into a broad category*

- *Problem: Does not sort complaints into categories well (too narrow)*
- *Solution: Run code and create own categories from the output*

- *Problem: Not good at identifying non-EHR vs. EHR strategies*
- *Solution: Provide definition of EHR as well as examples of strategies in each category*

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