Development of a Robotic Surgery Curriculum at an Academic Surgical Training Program Using a Blended Learning Model

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Introduction

There is currently no robotic surgery training curriculum for general surgery residents at our academic surgical training program.

The aims of this study were to:

1) Survey current residents regarding their robotic surgery experience
2) Develop a robotic surgery curriculum using a Skill-Driven Blended Learning (BL) Model

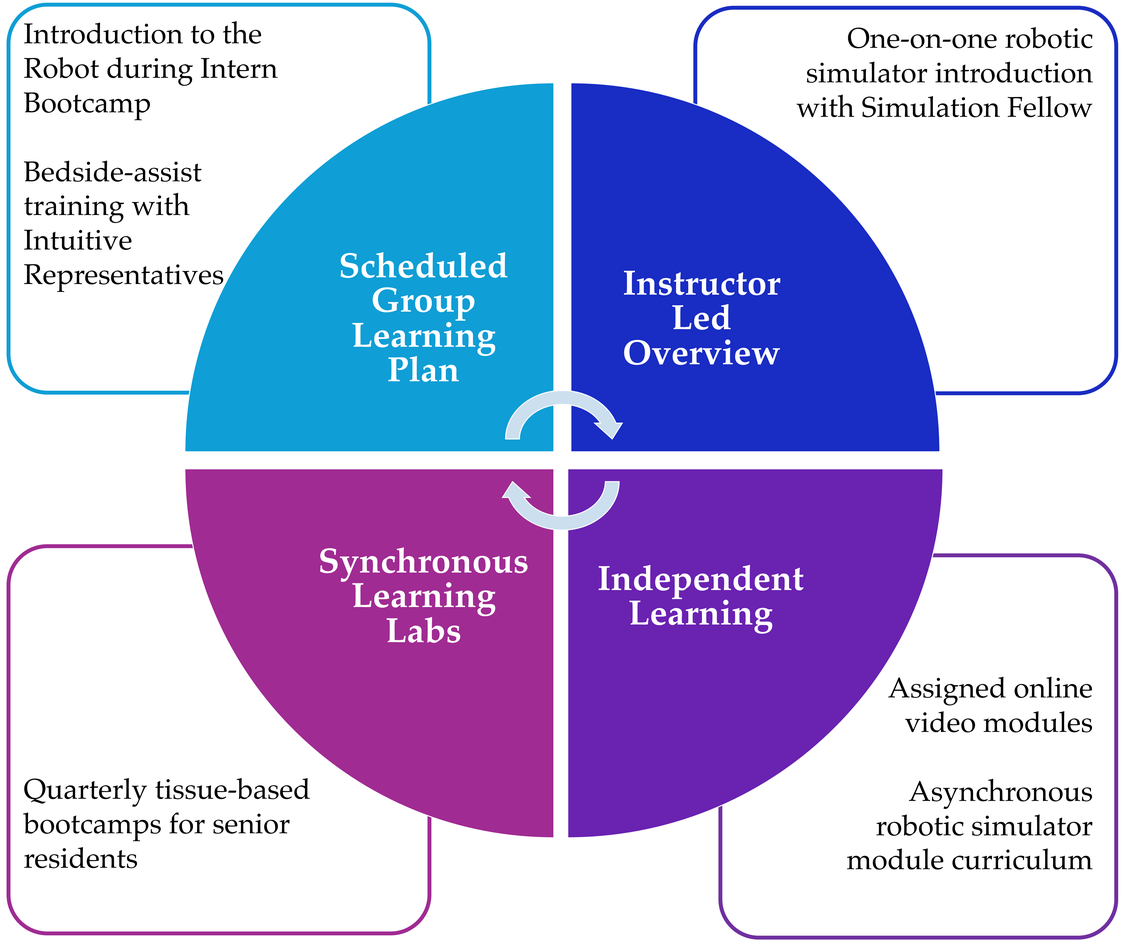
Methods

All general surgery residents in our program from 2022-2023 were surveyed to assess:

- Utilization of the **robotic simulator**
- Approximate **robotic experience**
- **Self-reported confidence** with robot

The results were used to inform the development of our BL robotic surgery curriculum.

BL Model-Based Resident Robotic Surgery Curriculum



Results

28 residents completed the survey (RR 26%).

37.5% of all residents had never used the robot simulator.

50% of junior residents had never sat at the console during a robotic operation.

Most junior residents were “not at all comfortable” with their robotic skills (69.2%).

Half of senior residents felt “somewhat comfortable” with their robotic skills (46.7%).

Conclusions

General Surgery residents had limited exposure to formal robotic training.

The BL Model-Based Resident Robotic Surgery Curriculum was developed to address these needs.

Ongoing investigations are underway to determine the impact of this intervention.

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