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SURGEONS AND ENGINEERS

A Dialogue on Surgical Simulation

March 22–23 | Chicago, IL

Can Surgical Ergonomics Be Taught in a Simulated Environment? A Novel Approach to Hands-On Surgical Ergonomics Education

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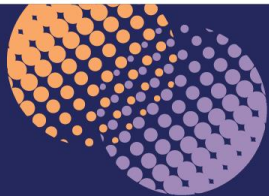
Disclosure

Gyusung Isaiah Lee, Ph.D.

I have a relevant financial relationship with the following companies:

- 2022 Intuitive Foundation Clinical Research Grant
- 2022 & 2023 Surgical Ergonomics Hands-on Clinic
 - Stryker Educational Grant
 - Intuitive Surgical Educational Grant
 - Karl Storz Educational Grant

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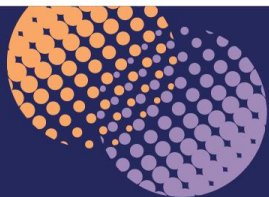
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Introduction

- Increased workload from poor ergonomics may substantially worsen surgical performance, causing increased errors.
- Many surgeons have reported experiencing physical symptoms and complications.
- Not all expert surgeons know how to make their OR setting ergonomic: No education in surgical ergonomics
- Surgeons' career longevity is at risk

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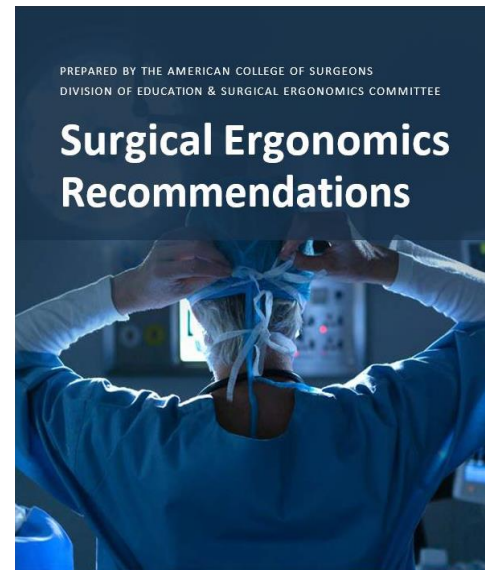
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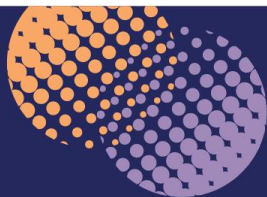
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Methods

- Surgeon-friendly ergonomic guidelines
- Four core areas: Postures, hands and instruments, visualization, and stress
- Stretching exercise for surgeons



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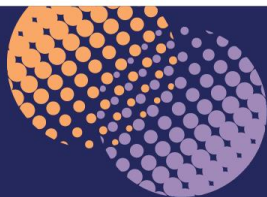
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Results

- Over 400 attendees for 2.5 days
- >95%: Learned ergonomics interventions
- >95%: Willing to use ergonomic OR component placement recommendations
- >85%: Ready to start the learned exercises



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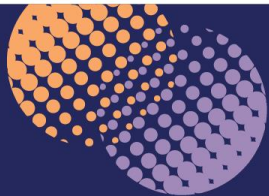
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Conclusion

- Surgeons learned surgical ergonomic interventions and were highly motivated to implement them
- 2nd ACS Surgical Ergonomics Hands-on Clinic
 - Exhibit Hall: #510
 - Schedule
 - Monday-Wednesday
 - 9 AM to 4:30 PM



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