



# Surgical Skills Video-based Assessment Tool for Dermatology Residents

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# Disclosures/Conflicts of Interest

- None

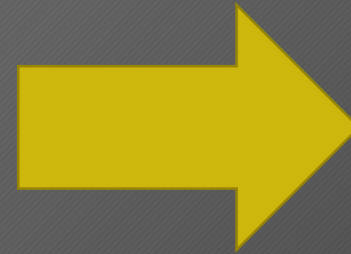
# Idea in Brief

Video recording of surgical excision

Systematic self-assessment

Video review of surgical technique

One-on-one faculty feedback



Goal: Improved surgical skills

# Background

- Most common teaching methods
  - Surgical lectures
  - Experiential
- Limitations of these methods

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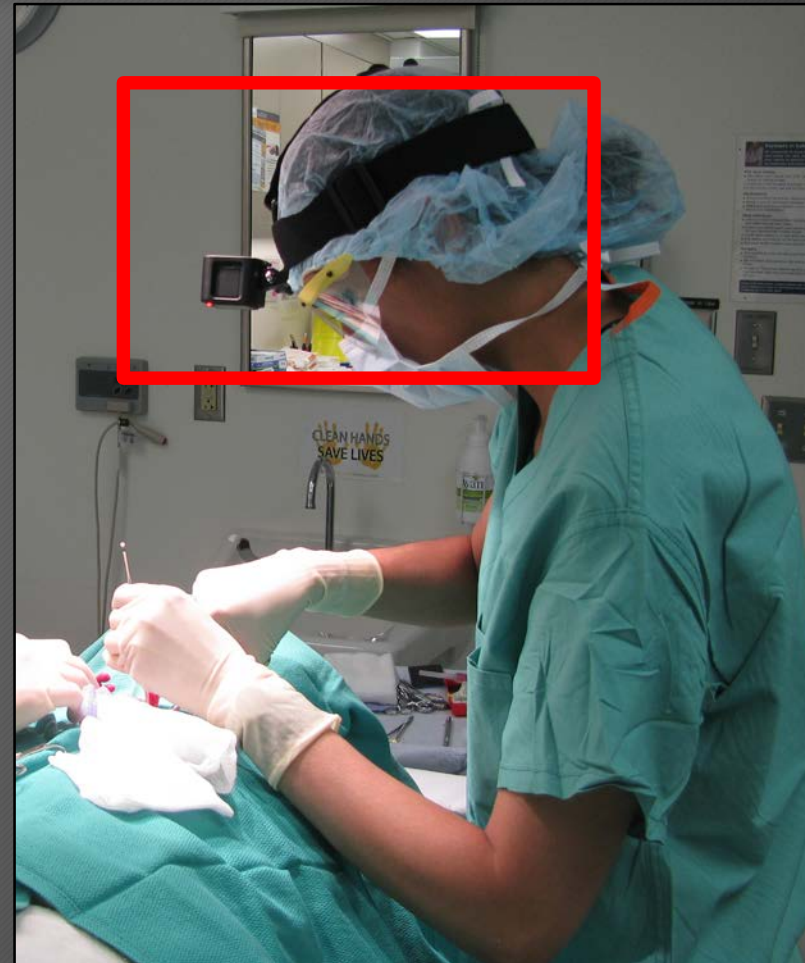
- Value of Video Review
  - Deliberate, retrospective self-review
  - Opportunity for trainer-trainee feedback
  - Increased feasibility of objective evaluation and multiple evaluators

Methods



# Methods

1. Standard surgical excision wearing head-mounted video recording device



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2. Online self assessment (incorporating modified OSATS, Simple Excision and Repair Assessment Tool, ACGME milestones)



# Methods

## Use of protective eyewear, surgical mask and gloves

1 - Never

2 - Rarely

3 - Sometimes

4 - Frequently

5 - Always

Unable to Assess

## Adequate local anesthesia technique (appropriate needle placement, minimal sticks to patient, slow infiltration)

1 - Never

2 - Rarely

3 - Sometimes

4 - Frequently

5 - Always

Unable to Assess

## Correct excision technique and removal of redundancies where appropriate

1 - Never

2 - Rarely

3 - Sometimes

4 - Frequently

5 - Always

Unable to Assess

## Meticulous and appropriate hemostasis performed

1 - Never

2 - Rarely

3 - Sometimes

4 - Frequently

5 - Always

Unable to Assess

- Two sections: Task-specific items and global rating scale
- Expansion of rating scale for increased granularity and more precise feedback
- Additional item examining sharp safety

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3. **Review of the video (staff)**

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5. **Repeat in approximately two months**



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3. Review of the video (staff)
4. One-on-one meeting for feedback
5. Repeat in approximately two months
6. **Compare survey results and elicit feedback**



# Preliminary Results

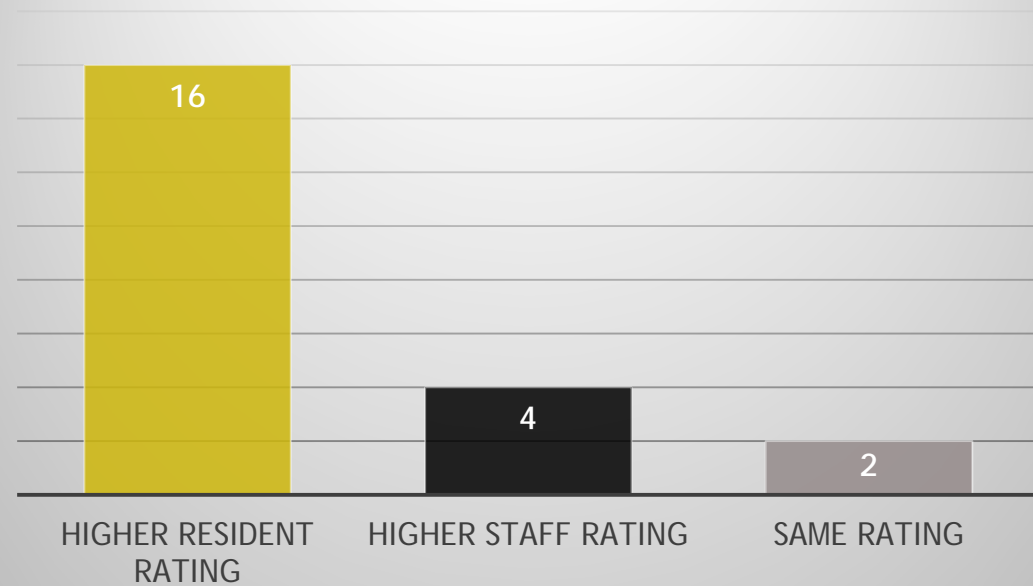


# Preliminary Results

- Total of 4 surgical excisions
- 4 self-assessments
- 2 reviewers
  - 8 staff assessments

# Preliminary Results

## Task-specific Items



## Global Rating



# Summary

- Many challenges with traditional surgical skills training techniques
- Recording surgical procedures creates value:
  - Self review, additional feedback, objective evaluation, multiple reviewers
- Methods:
  - POV videotaping, online assessments, video review, feedback, survey comparison
- Results
  - Early differences; Full results - TBD

Thank you!

