Ethical, Legal, and Social Considerations For Acquiring, Storing and Utilizing Surgical Video: A Thematic Analysis

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Introduction

- Surgical videos have tremendous value for education, research, quality improvement (QI), and innovation
- The capture, storage, and utilization of surgical video is fraught with challenges

Objective

- To produce a comprehensive framework for navigating key ethical, legal, and social considerations when acquiring and engaging with surgical video data

Methods

- Spearheaded by the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) Surgical Data Science taskforce
- 34 surgeons and industry representatives were recruited and assigned to one of four focus groups
- Participants were guided through group discussion that prompted reflection on their experiences navigating surgical video recording policy within their institution
- Focus groups were transcribed and analysed using a thematic analysis methodology where coding was both inductive and deductive in nature

1. What is the intended use?



QI or education



Research



Industry partnerships

2. What is required for consent?

Standard consent package

REB approval

Legal, privacy and/or procurement office review

3. How will patients and staff be protected?



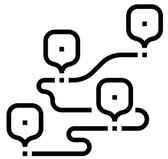
De-identification



Safeguards for misuse

4. Who owns the data?

Consider the implications of data ownership and derivatives of the data along the pathway



5. Who has access to the data?

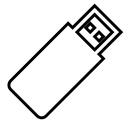
Surgeons

Institutions

Industry Partners

Patients

6. How will the data be stored?



Hard drive



Cloud storage

7. Will the data be discoverable?



Local policy



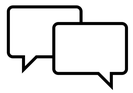
Institutional risk



Personal risk

8. What does informed consent look like?

Engage staff and patient participants with transparency to build and maintain trust



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