Characteristics of Electronic Informed Consent Platforms for Consenting Patients to Research Studies: A Scoping Review

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Introduction

➢ Informed consent ensures that research study participants are competent and adequately informed

➢ Electronic informed consent (eIC) for research studies and surgical procedures

➢ Investigating consent metrics such as usability, satisfaction, enjoyment, accessibility, enrollment, trust, time, and capacity of participants

➢ We conducted a scoping review with three main objectives:

(1) to describe the technological features of current electronic consent platforms,
(2) to summarize the usability and efficacy of these platforms in consenting patients
(3) to identify areas for future research regarding electronic consent
Methods

➢ Search Strategy:
We used the following search terms: ("electronic consent") OR ("e-consent") OR ("econsent") OR ("eIC") AND ("Informed Consent") AND (English[lang])

➢ Study Strategy
1) studies discussing an eConsent platform or multimedia educational module
2) studies including a description of the features or interface of the eConsent platform
3) studies including either a usability or efficacy evaluation of the platform

➢ Data Extraction
First author
Year of publication
Sample size
Study location
Research procedure
Methodology
Results: Distribution of study types

- **45%** RCT
- **26%** Observational Studies
- **16%** Pilot Studies
- **10%** Mixed Methods Studies
- **3%** Focus Group Studies
Results: Comparison of eIC and paper consent

- 39% eIC compared to paper consent
- 61% eIC NOT compared to paper consent
Results: Type of platforms

- Original platforms: 16%
- Outsourced platforms: 3%
- Did not specify: 81%
Results: Type of educational modules in econsent platforms

A. Educational module - Visual features
   - Visual features: 0%
   - Lack of visual features: 100%

B. Educational module - Auditory features
   - Auditory features: 17%
   - Lack of auditory features: 83%

C. Educational module - Interactive features
   - Interactive features: 29%
   - Lack of interactive features: 71%
## Results: Metrics of electronic consents

<table>
<thead>
<tr>
<th></th>
<th># Studies</th>
<th>Percentages (%)</th>
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<tr>
<td>Not</td>
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<tr>
<td><strong>Preference</strong></td>
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<tr>
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<tr>
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Results: Metrics of electronic consents

A. Usability
- Assessed: 52%
- Not: 48%

B. Satisfaction
- Assessed: 55%
- Not: 45%

C. Enjoyment/ Preference
- Assessed: 58%
- Not: 42%

D. Accessibility
- Assessed: 61%
- Not: 39%

E. Enrollment
- Assessed: 94%
- Not: 6%

F. Knowledge
- Assessed: 23%
- Not: 77%

G. Trust
- Assessed: 29%
- Not: 71%

H. Time to Consent
- Assessed: 55%
- Not: 45%

I. Capacity to Consent
- Assessed: 13%
- Not: 87%
Discussion
Conclusion
Thank you!

Questions?