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

Jennifer Guarino, Irena Parvanova, Joseph Finkelstein

Center for Biomedical and Population Health Informatics,

Icahn School of Medicine at Mount Sinai, New York, NY, USA

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"))
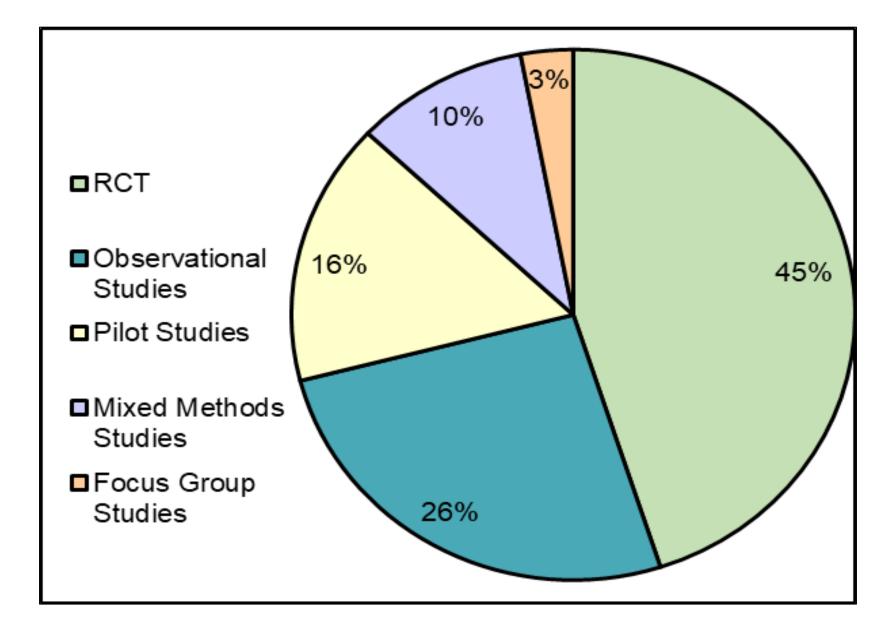AND ("Informed Consent") AND (English[lang))

➢ **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
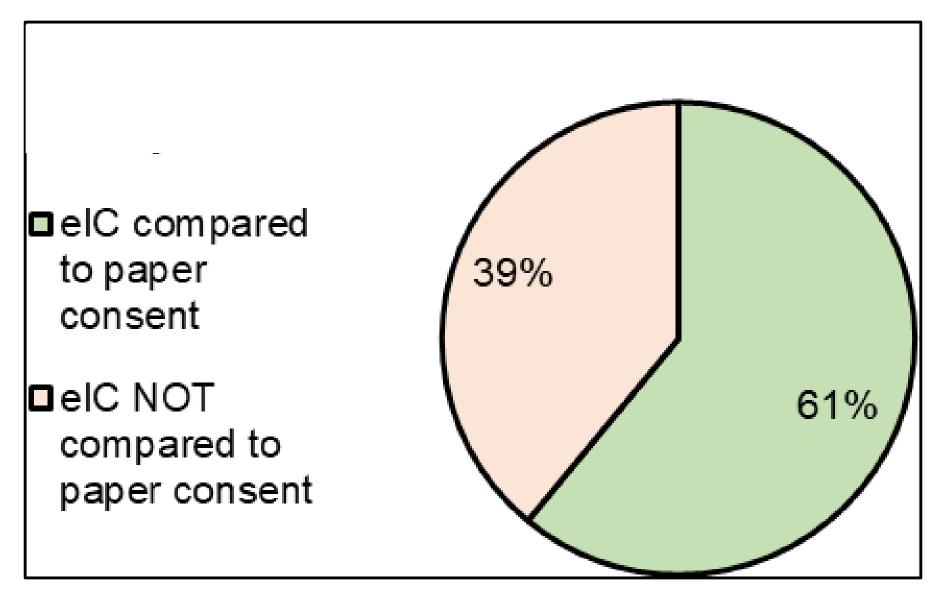3) studies including either a usability or efficacy evaluation of the platform

➢ **Data Extraction**

First author
Year of publication
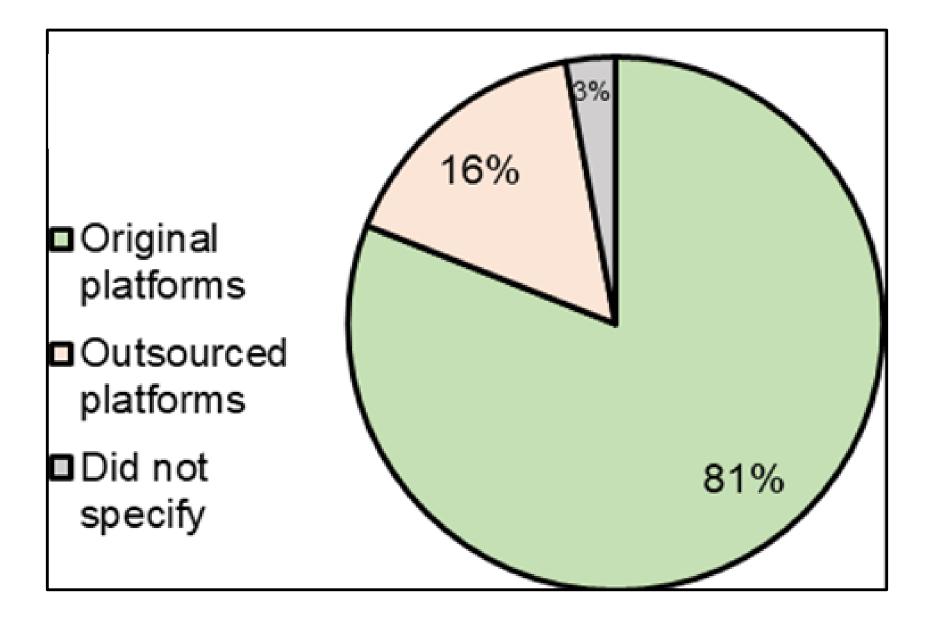Sample size
Study location
Research procedure
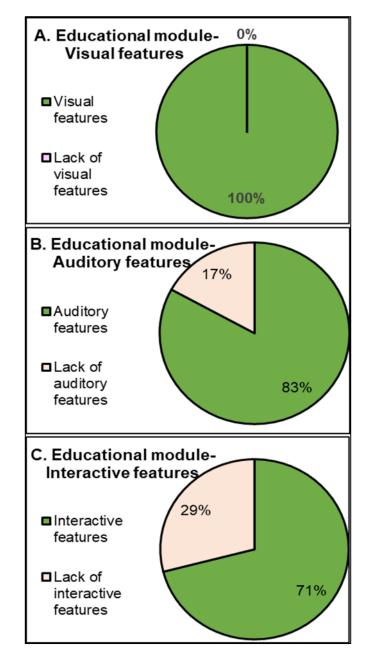Methodology

Results: Distribution of study types

Results: Comparison of eIC and paper consent

□ eIC compared to paper consent
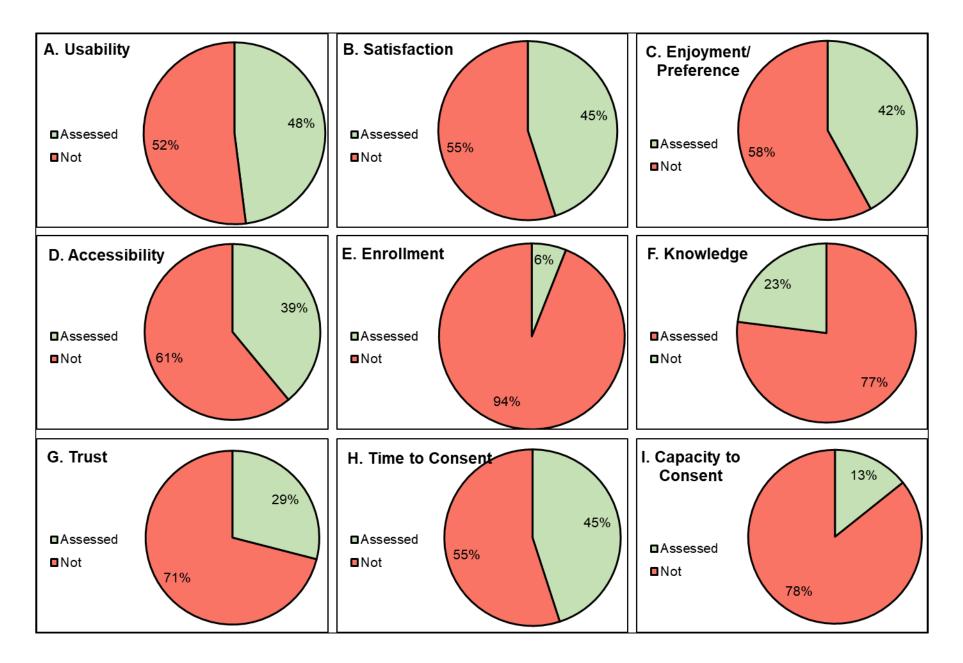
□ eIC NOT compared to paper consent

39%

61%

Results: Type of platforms

Legend:
- Original platforms
- Outsourced platforms
- Did not specify

81%
16%
3%

Results: Type of educational modules in econsent platforms

Results: Metrics of electronic consents

	# Studies	Percentages (%)
Usability		
Assessed	15	48
Not	16	52
Satisfaction		
Assessed	14	45
Not	17	55
Preference		
Assessed	13	42
Not	18	58
Accessibility		
Assessed	12	39
Not	19	61
Enrollment		
Assessed	2	6
Not	29	94
Knowledge		
Assessed	24	77
Not	7	23
Trust		
Assessed	9	29
Not	22	71
Time to Consent		
Assessed	14	45
Not	17	55
Capacity to Consent		
Assessed	4	13
Not	27	87

Results: Metrics of electronic consents

Discussion

Conclusion

Thank you!

Questions?