Understandability, actionability and reliability of YouTube videos on brain, head, and neck cancer information

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Introduction

- The incidence of brain cancer (BC) and head and neck cancer (HNC) continues to increase with higher numbers of annual deaths.
- Persons with cancer often use the internet for cancerrelated information.
- Online videos accessed via YouTube are popular for health education.
- Videos must be critically evaluated for educational qualities as the information could influence health outcomes.

Objective

to evaluate the understandability, actionability and reliability of videos available on YouTube regarding brain, head, and neck cancer information.

Methods

A scoping review of YouTube videos was conducted.

Inclusion criteria

- Less than 20 minutes
- Upload date within five years (2019-2023)
- Published in English

Exclusion criteria

- Multiple parts or series
- Not focusing on patients
- Not relevant to BC or

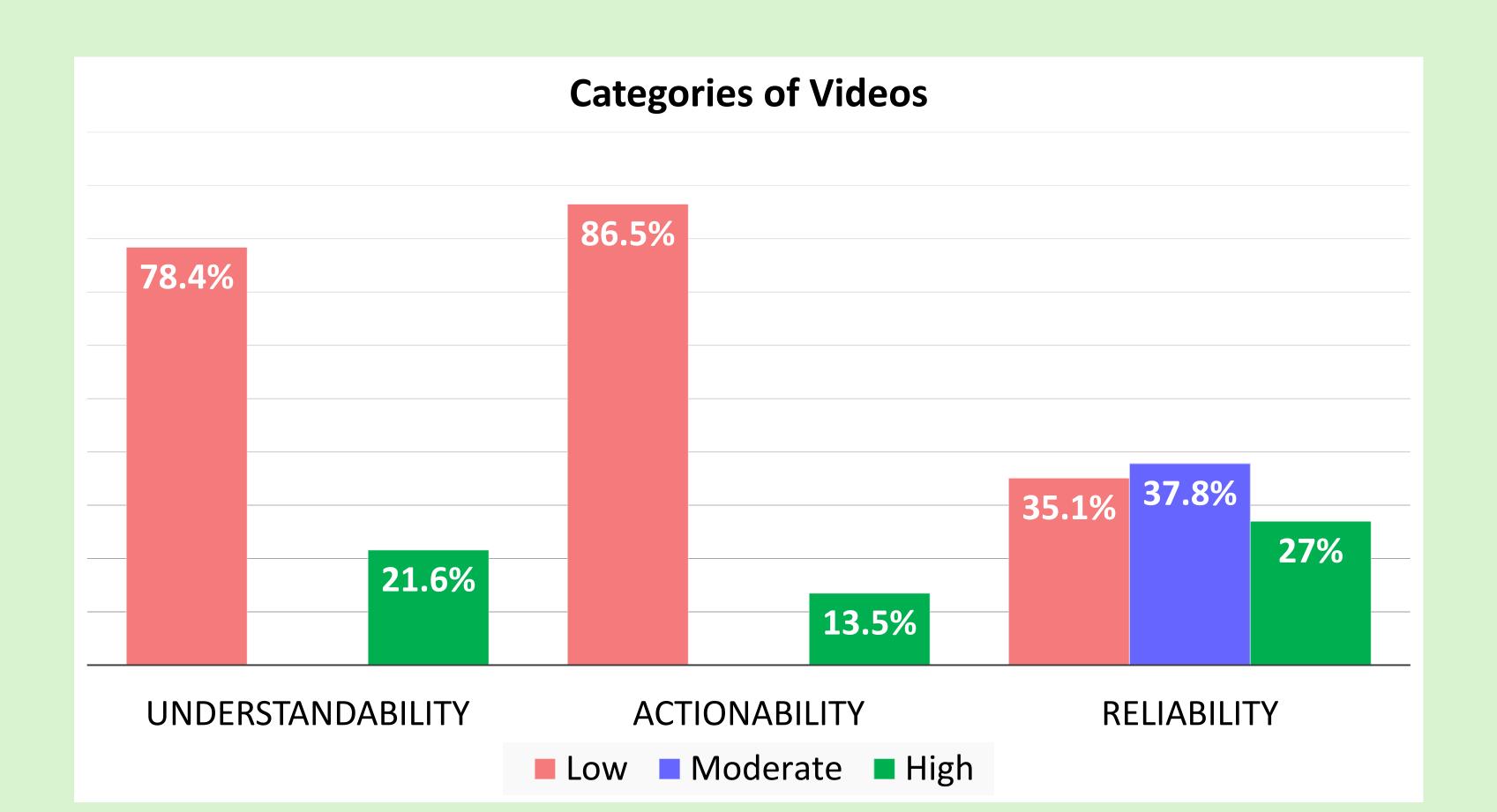
- HNC
- No sound

Conclusion

- YouTube videos of BC and HNC have low understandability, low actionability and moderate reliability.
- Organisations must develop trustworthy and credible videos to share health information via YouTube.
- Including animations and professional video transcripts as closed captions may improve the overall quality and consumer engagement.

Results

- Main country: USA 89%
- Channel type: health institution 43%, private 43%
- Mainly presented by health professionals 52%, consumers 22%
- Content: consumer experience 35%, treatment options 24%



animated and narrated videos

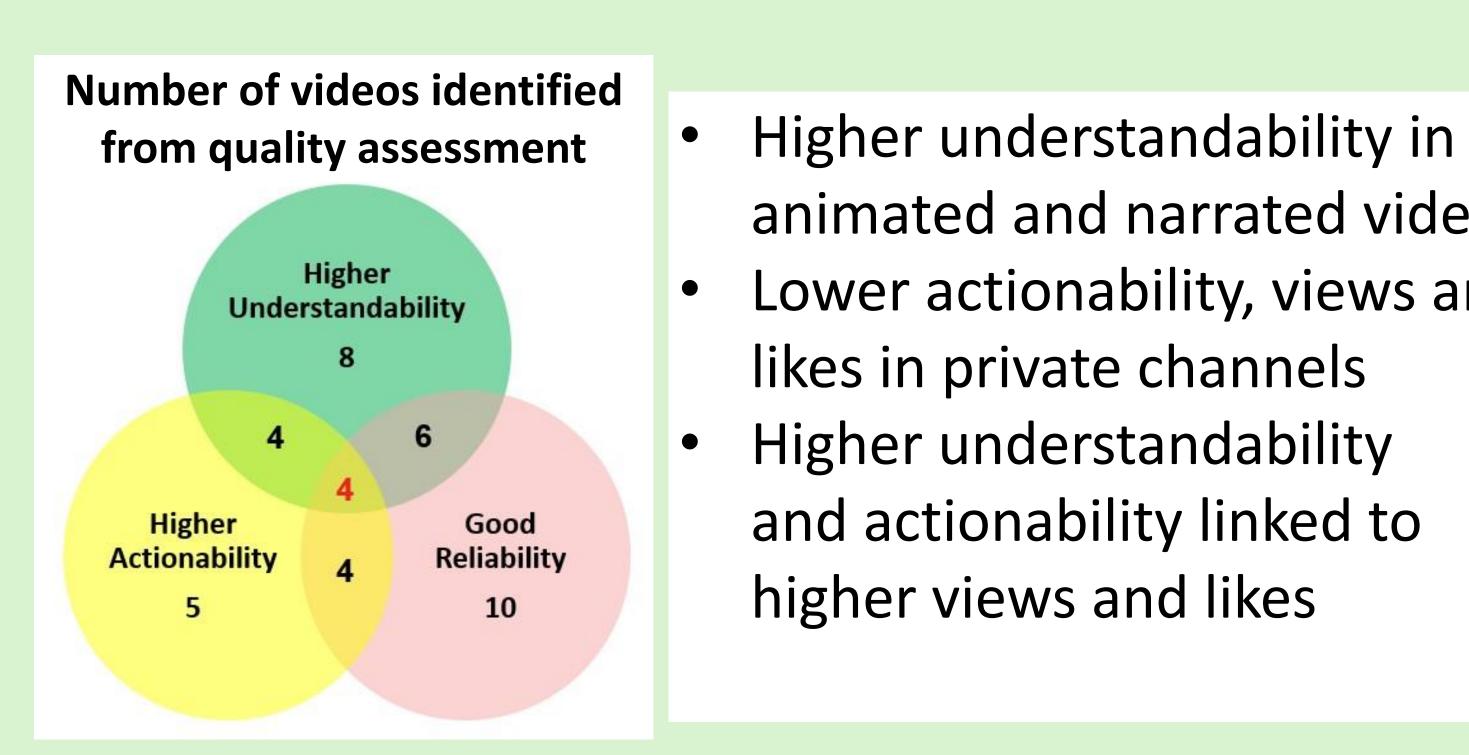
Lower actionability, views and

likes in private channels

Higher understandability

higher views and likes

and actionability linked to



- Data evaluation
- The modified DISCERN criteria.

Audiovisual Materials (PEMAT-A/V).

Data analysis

 Spearman's rank correlation, Kruskal-Wallis, and Mann-Whitney U tests were used for analysis.

Patient Education Materials Assessment Tool for