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Review on the Reliability of Medical Contents on YouTube

- [H. Okagbue](#), [P. E. Oguntunde](#), +3 authors [O. Ogundile](#)
- Published in Int. J. Online Biomed. Eng. 21 January 2020
- Medicine
- Int. J. Online Biomed. Eng.

TLDR

A keyword search was done on different databases such as PubMed, Scopus, Web of Science and Google Scholar to generate articles related to the subject matter to review the different reliability methods, results, conclusions and recommendations of contributions on the medical videos on YouTube. Expand

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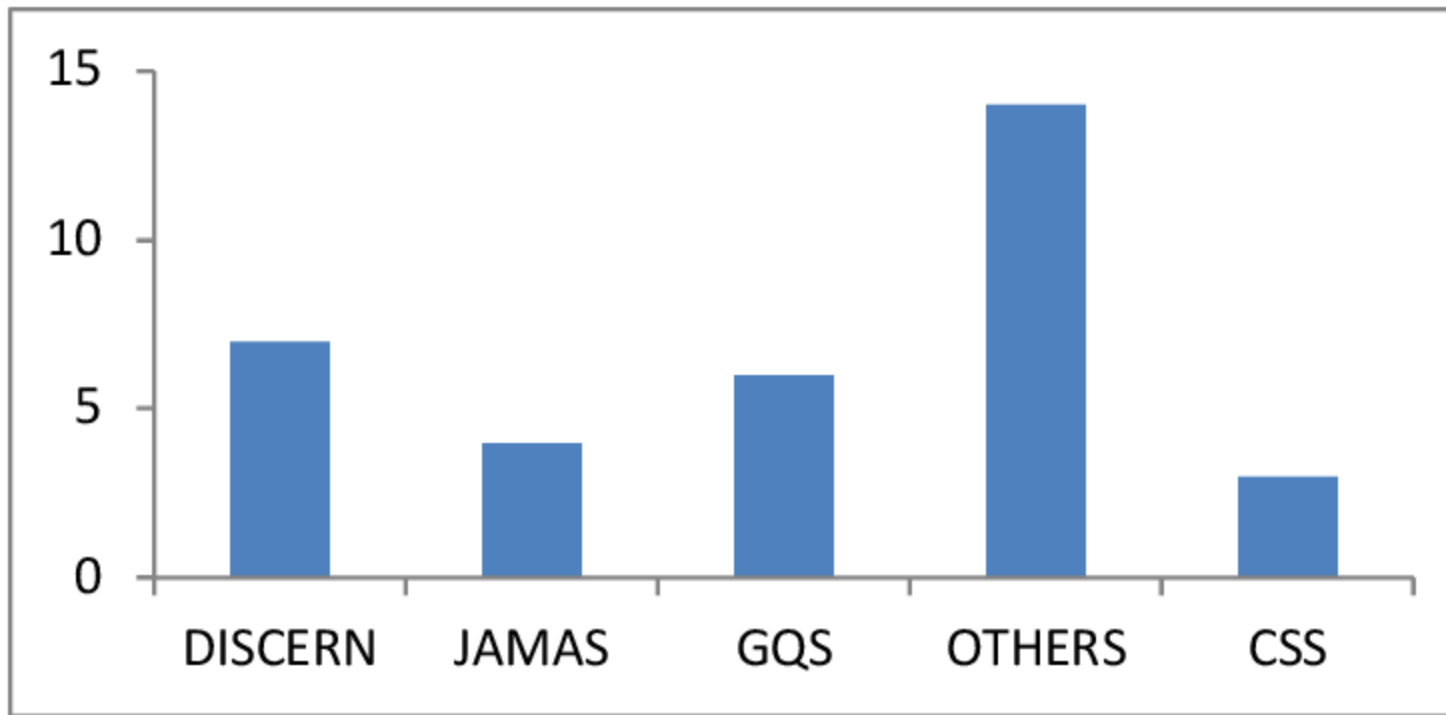


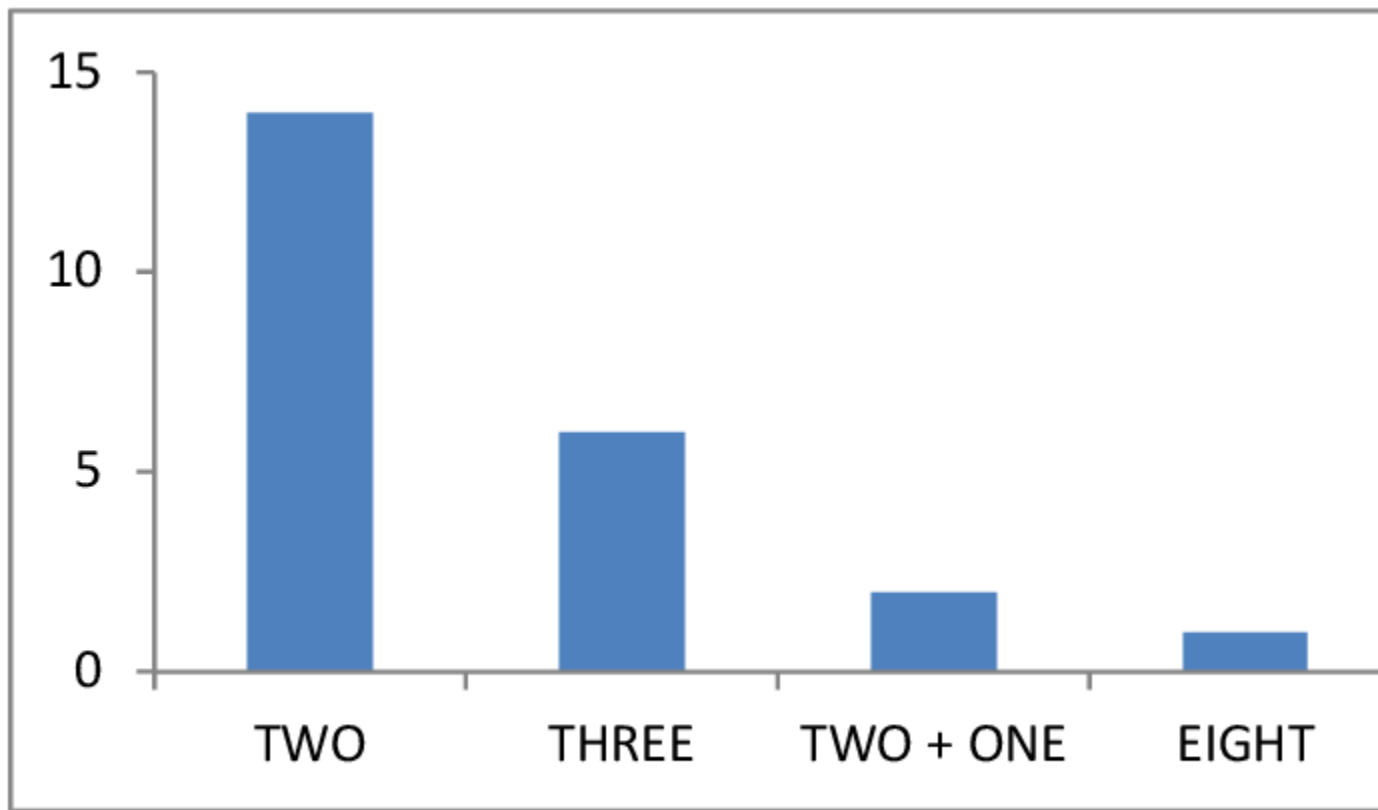
Figure 1

Table 1. Categorization of medical videos obtained from 23 r

Total	Useful	Misleading
150	35	115
200	146	54
14	2	12
69	8	61
111	0	111
9	2	7
142	71	71
117	82	35
39	5	34
154	127	27
175	175	0
228	171	57
60	58	2
133	21	112
51	37	14
70	64	6
344	183	161
25	19	6
115	96	19
131	57	74
223	154	69
102	71	31
13	5	8
2675	1589	1086



[Table 1](#)



ig. 2. The Frequency of independent Assessors used reported by the Re

[Figure 2](#)

Y ouT ube

Author	Recommendation	Author
[46]	Yes	[62]
[47]	No	[63]
[48]	Caution	[64]
[49]	No	[65]
[50]	Yes	[66]
[51]	Caution	[67]
[52]	No	[68]
[53]	Yes	[69]
[54]	Yes	[70]
[55]	No	[71]
[56]	Caution	[72]
[57]	Yes	[73]
[58]	No	[74]
[59]	Caution	[75]
[60]	No	[76]
[61]	No	

[Table 2](#)

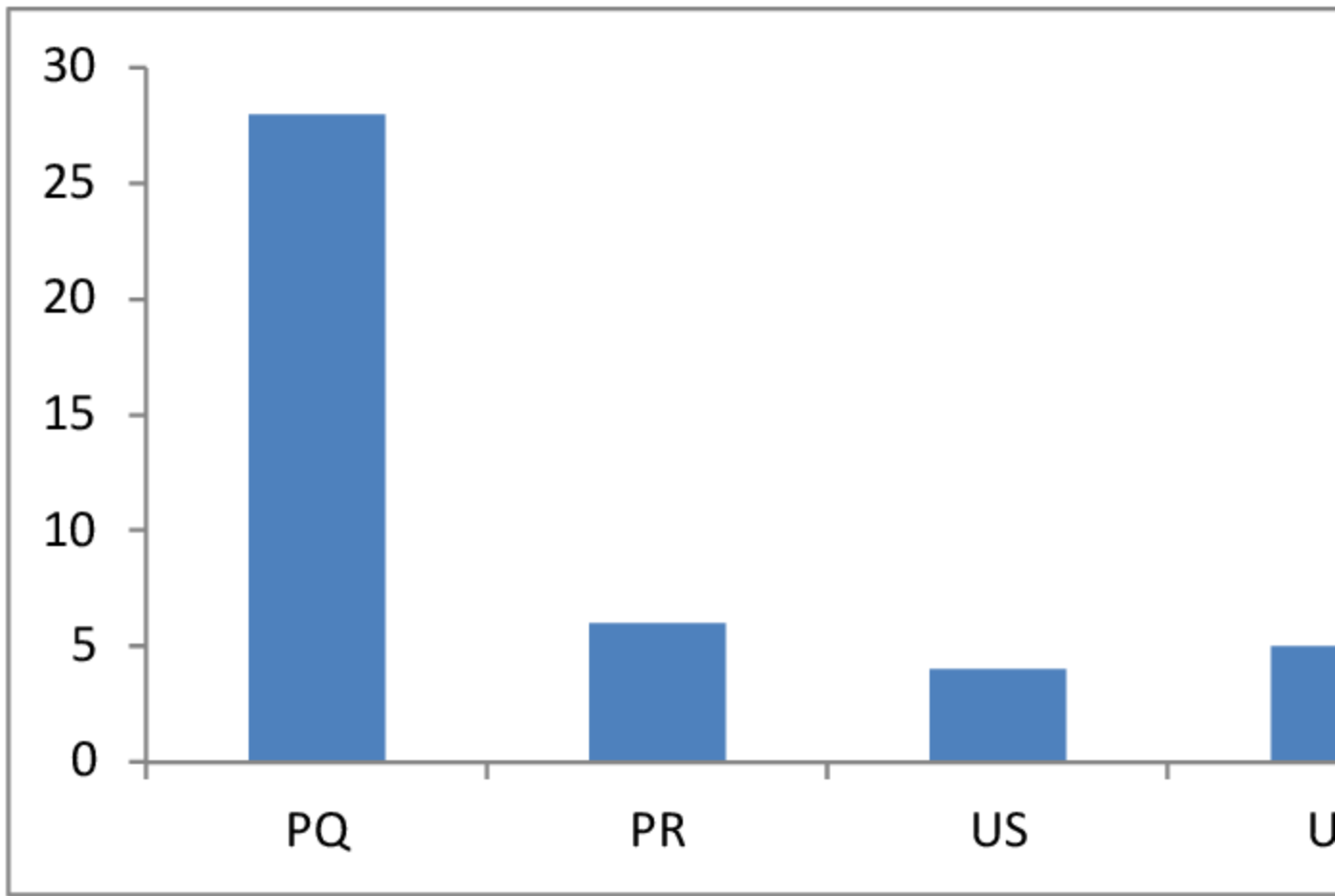
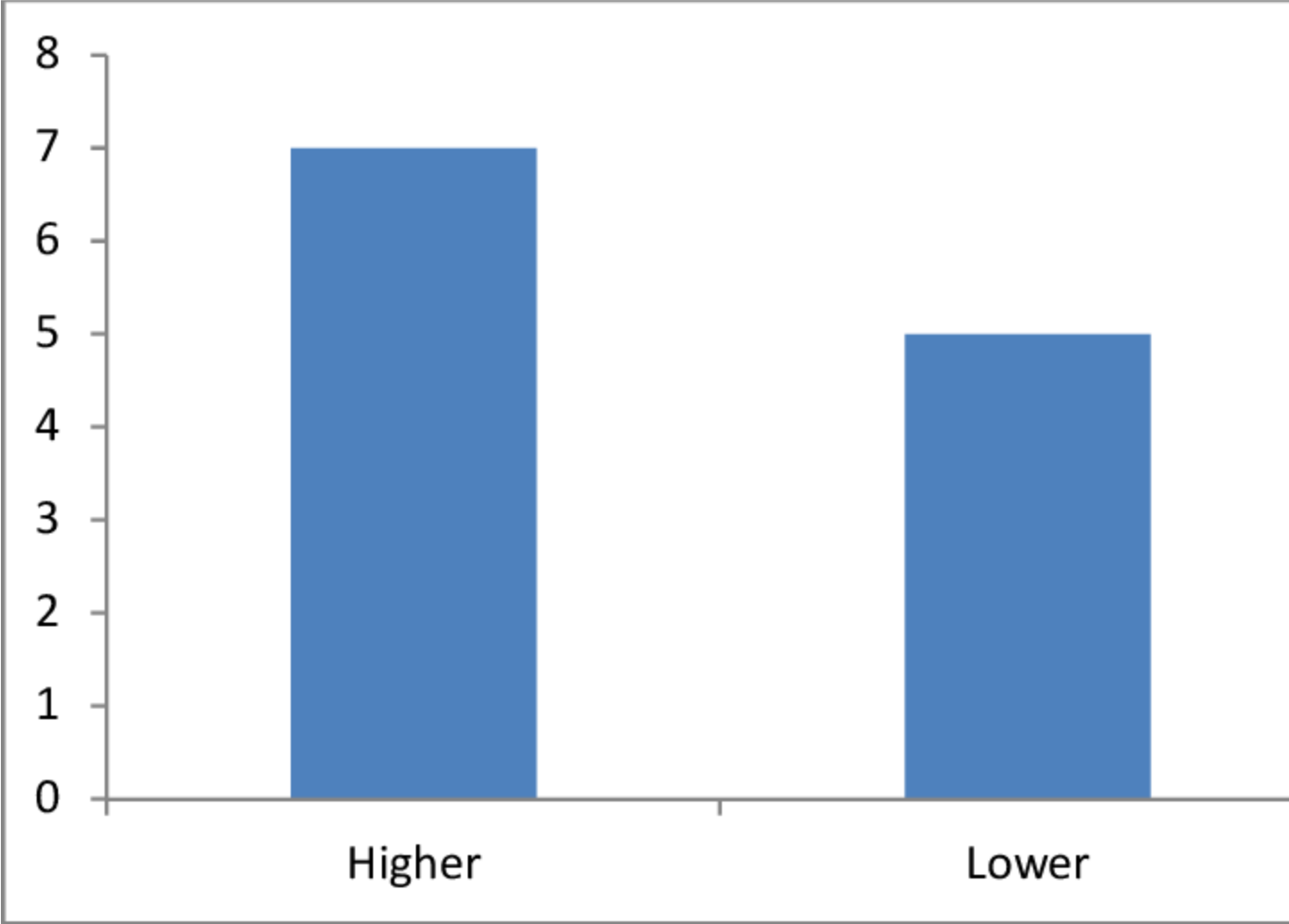
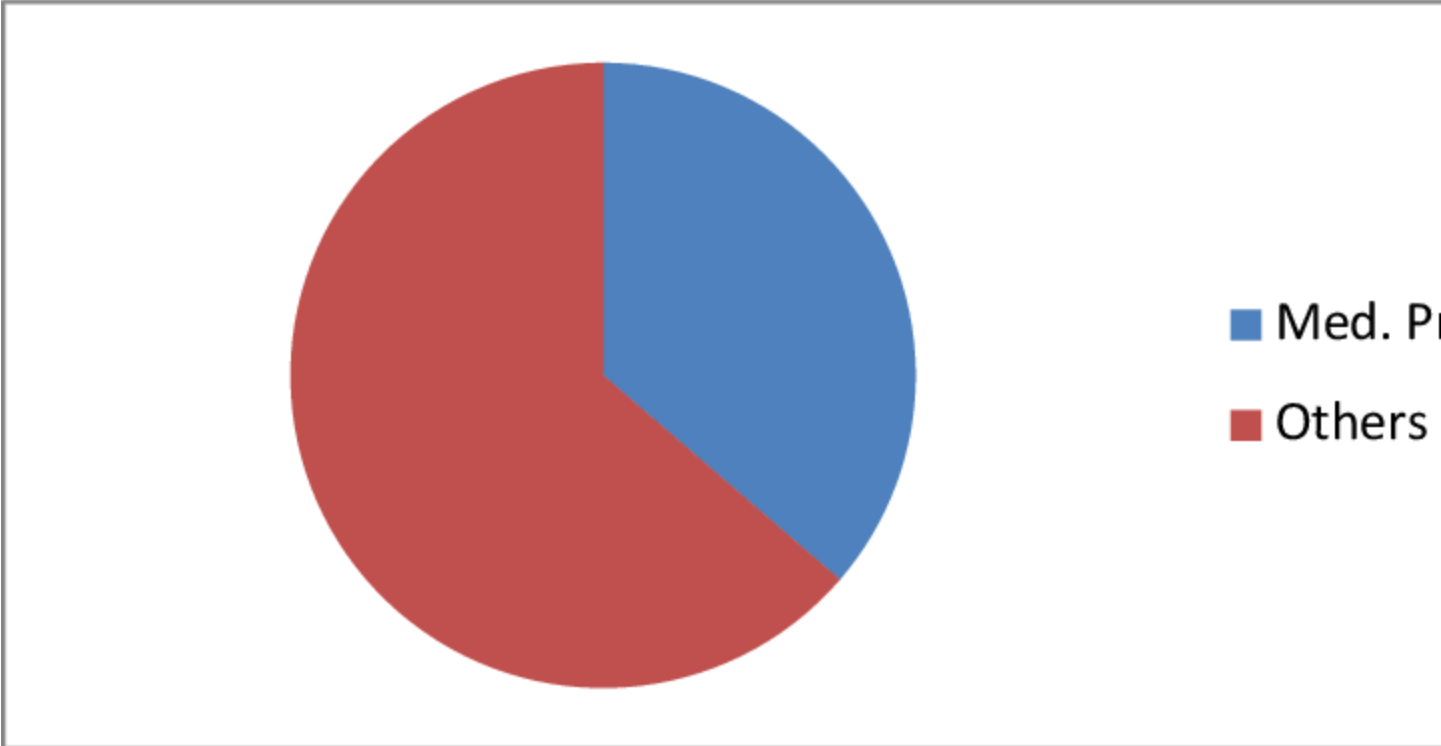


Fig. 3. The Frequency of concluding remarks after successful assessments

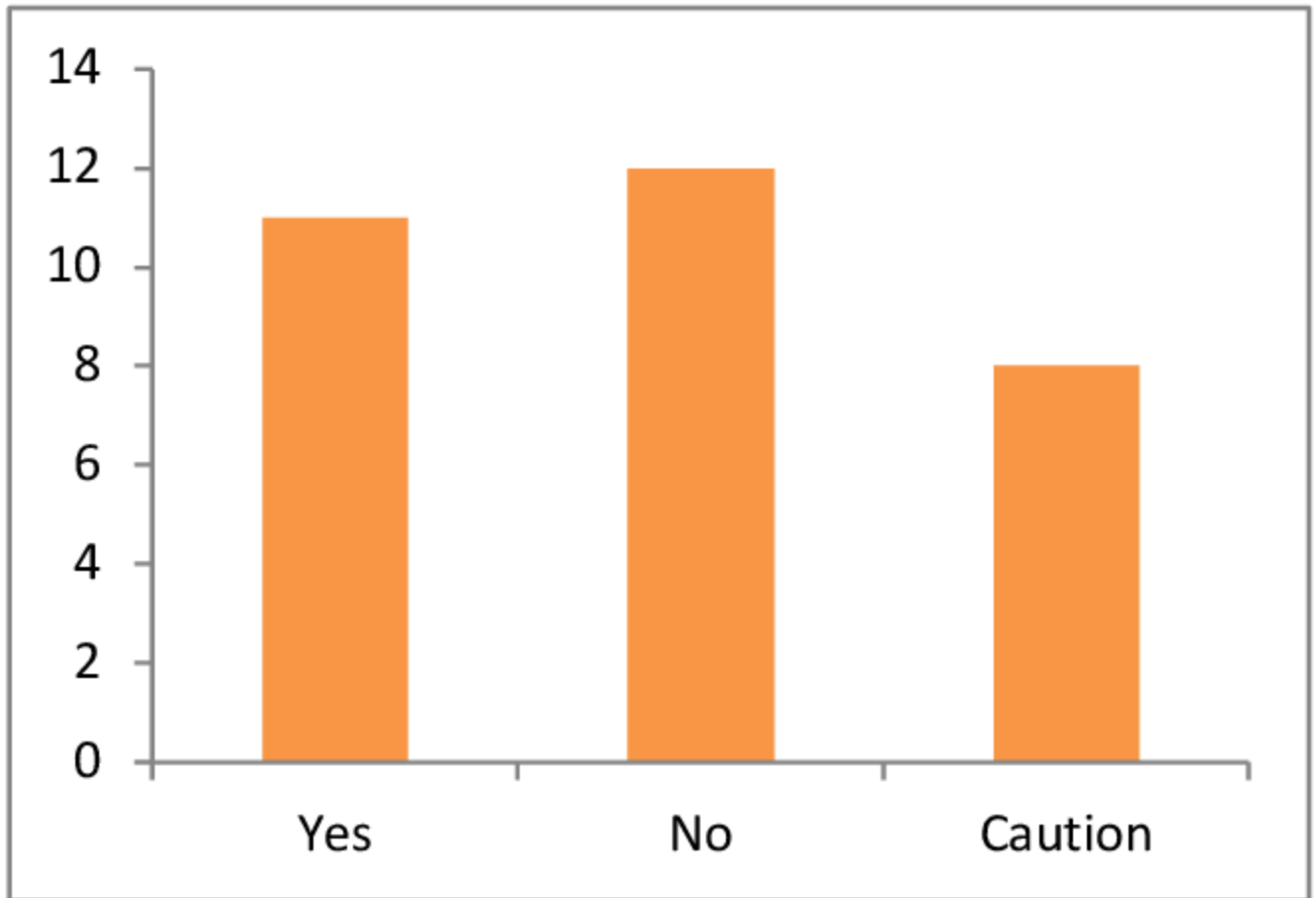
[Figure 3](#)



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7 Percentage of Useful and Misleading Medical Video Contents on You

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Reliability and Quality of YouTube Contents Pertaining to Pancreatic Cancer

[G. Cakmak](#)[B. Mantoglu](#)

Medicine

[Cureus](#)

- 2021

TLDR

In this study, the majority of the videos uploaded on YouTube about pancreatic cancer were found to be of moderate quality and healthcare professionals should be encouraged to upload more videos with useful content. Expand

- 22

[PDF]

- 1 Excerpt
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Quality analysis of YouTube videos on vulvodynia

Savas Ozgur AqlamisS. ŞenelA. Koudonas

Medicine

[Sexual medicine](#)

- 2023

TLDR

The quality of information was very low and suggested that health care professionals should take on a more active role in configuring the qualitative characteristics of the material available online about the given health issues. Expand

- 4

[PDF]

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Assessment of Lung Cancer YouTube Videos for Patient Education

B. ChaiP. Ingledew

Medicine, Education

[Journal of Cancer Education](#)

- 2023

TLDR

The reliability of the videos (measured by Modified DISCERN score) varied by presenter type; however, these results should be interpreted cautiously due to the absence of gold standard tools. Expand

- 3

Save

YouTube as a Source of Information on Lipedema: Property, Quality, and Reliability Assessment.

Elif Esen ÖzdemirP. BormanGul Mete CivelekM. Umarağlu

Medicine

[Lymphatic research and biology](#)

- 2023

TLDR

YouTube videos on lipedema are mostly provided by health professionals targeting both public/patients and health care providers but the content is limited and the quality and reliability of them were low to intermediate.Expand

-

2

Save

Information literacy skills of health professions students in assessing YouTube medical education content

Orianne PearlmanLynda Tierney KonecnyMatthew Cole

Education, Medicine

[Frontiers in Education](#)

- 2024

TLDR

A need for teachers to select only high-quality videos for students and for more focused curricular strategies to enhance students' abilities in critically assessing YouTube resources for medical education is suggested.Expand

-

PDF

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COVID-19 Information on YouTube: Analysis of Quality and Reliability of Videos in Eleven Widely Spoken Languages across Africa

K. NarainKingsley Appiah Bimpong+11 authors Okuhle Xozwa

Medicine, Linguistics

[Global health, epidemiology and genomics](#)

- 2023

TLDR

YouTube is an invaluable, easily accessible resource for information dissemination during health emergencies, and governments, academic institutions, and healthcare workers must harness the capability of digital platforms, such as YouTube, to contain the spread of misinformation. Expand

-

1

[PDF]

- 2 Excerpts
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Patients' perspectives on the quality of online patient education materials: A qualitative study

Shahram SedghiM. BoroumandPeyman AdibiSirous PanahiAlireza Rahimi

Medicine, Education

[Journal of education and health promotion](#)

- 2022

TLDR

In the current situation, Iranian patients are not confident enough about the quality of available online information, and they believe that the use of current poor-quality information has negative consequences. Expand

[PDF]

- 1 Excerpt
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Does YouTube™ Offer High-Quality Information About Nasoalveolar Molding?

C. ArslanElif Ceren AksahinR. B. Nur YılmazDerya Germeç Çakan

Medicine

[The Cleft palate-craniofacial journal : official...](#)

- 2022

TLDR

YouTube™ videos on NAM were generally inadequate in their content information and poor in quality, and expert videos, showing better audiovisual quality and flow compared to non-expert videos, did not offer higher quality information about NAM considering the usefulness index. Expand

2

- 1 Excerpt
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Beyond Viewing Counts, Likes & Co: An Analysis of Instructional Videos on Youtube

Miriam MuldersJohannes Wendt

Education

CSEDU

- 2022
: The aim of this study is to open up criteria of instructional videos through a search of the scientific literature. Shoufan (2019) tested the Video Cognitive Value (VCV) of instructional videos as a... Expand

1

PDF

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Using Social Media for Health: National Data from HINTS 2019

W. ChouAnna GaysynskyNehal B. TrivediR. Vanderpool

Medicine, Sociology

Journal of health communication

- 2021
TLDR
Current prevalence and predictors of SM use are described by analyzing nationally representative data from the 2019 Health Information National Trends Survey by examining the odds of engaging in four SM activities: visiting social networking sites, sharing health information on SM, participating in online support groups, and watching health-related videos.Expand

30

- 1 Excerpt
Save

1
2

97 References

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Identifying Measures Used for Assessing Quality of YouTube Videos with Patient Health Information: A Review of Current Literature

[E. Gabarron](#)[L. Fernández-Luque](#)[Manuel Armayones](#)[A. Lau](#)

Medicine, Education

[Interactive journal of medical research](#)

- 2013

TLDR

It is confirmed that the current topics linked to quality of information for patient education on YouTube are unclear and not standardized, and caution should be applied when using YouTube for health promotion and patient educational material. Expand

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145

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PDF

Save

Popular on YouTube: a critical appraisal of the educational quality of information regarding asthma.

[A. Gonzalez-Estrada](#)[L. Cuervo-Pardo](#)+5 authors [D. Lang](#)

Education, Medicine

[Allergy and asthma proceedings](#)

- 2015

TLDR

YouTube videos of asthma were frequently viewed but were a poor source of accurate health care information, and the allergy/immunology community has a clear opportunity to enhance the value of educational material on YouTube. Expand

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56

Save

YouTube as a source of information on dialysis: What was investigated?

S. Azer

Medicine

Nephrology

- 2016

TLDR

The authors use an instrument, an adaptation of the DISCERN tool, to assess reliability and quality of information provided in the videos, but it is not clear how such an instrument can test reliability of information. Expand

-

1

Save

YouTube English videos as a source of information on breast self-examination

E. Esen Mehmet Aslan Bilgehan Çağdaş Sonbahar R. Kerimoğlu

Medicine

Breast Cancer Research and Treatment

- 2018

TLDR

There is a need for videos with full and accurate information to be made by universities, healthcare organisations and doctors not benefitting from the outcomes, to be uploaded to YouTube, which is a currently important source of information for the general population. Expand

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78

- **Highly Influential**

- 6 Excerpts

Save

YouTube videos as a source of medical information during the Ebola hemorrhagic fever epidemic

S. Nagpal A. Karimianpour Dhruvika Mukhija D. Mohan A. Brateanu

Computer Science, Medicine

SpringerPlus

- 2015

TLDR

YouTube videos presenting clinical symptoms of infectious diseases during epidemics are more likely to be included in the HR group and influence viewers behavior, and Multivariable logistic regression showed that only the 'clinical symptoms' component of the MICI scale was associated with a higher likelihood of a video being included in The HR vs. LR group. Expand

- 79

- PDF

Save

Is Content Really King? An Objective Analysis of the Public's Response to Medical Videos on YouTube

T. Desai Afreen I. Shariff Vibhu Dhingra Deeba Minhas Megan Eure M. Kats

Medicine, Education

[PloS one](#)

- 2013

TLDR

It is hypothesized that medical education YouTube videos, authored by credible sources, are of high educational value and appropriately suited to educate the public. Expand

- 242

- [Highly Influential](#)
[PDF]

- 4 Excerpts

Save

A qualitative analysis of methotrexate self-injection education videos on YouTube

Rebekah Rittberg T. Dissanayake S. Katz

Medicine

[Clinical Rheumatology](#)

- 2015

TLDR

A minority of videos are useful for teaching MTX injection, and clinicians need to be familiar with specific resources to help guide and educate their patients to ensure best outcomes. Expand

Save

Dermatology on YouTube.

L. BoyersTyler L QuestC. KarimkhaniJessica ConnettR. Dellavalle

Medicine

[Dermatology online journal](#)

- 2014

TLDR

As one of the most trafficked global sites on the Internet, YouTube is a valuable resource for dermatologists, physicians in other specialties, and the general public to share their dermatology-related content and gain subscribers, however, challenges of accessing and determining evidence-based data remain an issue. Expand

•

32

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Dissemination of Misinformative and Biased Information about Prostate Cancer on YouTube.

S. LoebS. Sengupta+8 authors Aisha T. Langford

Medicine

[European urology](#)

- 2019

YouTube as a source of chronic obstructive pulmonary disease patient education

M. StellefsonB. Chaney+5 authors J. Bernhardt

Medicine, Education

[Chronic respiratory disease](#)

- 2014

TLDR

It is suggested that COPD education via YouTube has the potential to reach and inform patients; however, existing video content and quality varies significantly. Expand

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