

Methods for evaluating the quality of information on health websites: Systematic Review (2001-2014)

Métodos para avaliar a qualidade das informações nos websites de saúde: Revisão Sistemática (2001-2014)

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ABSTRACT

The Internet is a major source of health information, but the poor quality of the information has been criticized for decades. We looked at methods for assessing the quality of health information, updating the findings of the first systematic review from 2002. We searched 9 Health Sciences, Information Sciences, and multidisciplinary databases for studies. We identified 7,718 studies and included 299. Annual publications increased from 9 (2001) to 53 (2013), with 89% from developed countries. We identified 20 areas of knowledge. Six tools have been used worldwide, but 43% of the studies did not use any of them. The methodological framework of criteria from the first review has been the same. The authors were the evaluators in 80% of the studies. This field of evaluation is expanding. No instrument simultaneously covers the evaluation criteria. There is still a need for a methodology involving experts and users and evidence-based indicators of accuracy.

Keywords: Methods, Standards, Evaluation, Internet, Systematic Review.

1 INTRODUCTION

The Internet has contributed to technological changes in the 20th and 21st centuries (CONTI et al., 2012), especially in the search for information (BARBOSA, 2013). The Internet is one of the main sources of health information (DEL GIGLIO et al., 2012; GUARDIOLA-WANDEN-BERGHE; SANZ-VALERO; WANDEN-BERGHE, 2012). However, the quality of online information is often insufficient or unsatisfactory (DEL GIGLIO et al., 2012; GUARDIOLA-WANDEN-BERGHE; SANZ-VALERO; WANDEN-BERGHE, 2012;). The average citizen can be affected by this problem as they have difficulty judging the quality of information (GUARDIOLA-WANDEN-BERGHE;

SANZ-VALERO; WANDEN-BERGHE, 2012). Faced with this problem, it is recommended that each interest group does its filtering of reliable sources (LÉVY, 2001). Assessing the quality of health information on the Internet is a challenge (DEL GIGLIO, A. et al. 2012).

A systematic review (EYSENBACH et al., 2002) of evaluation studies was published in 2002. It compiled evaluation criteria and established a methodological framework for evaluation processes. The time that has passed since its publication may justify the need for a new review and indicate the outdatedness of the evidence gathered. The Web has witnessed significant changes over the years, both in the way websites are built and located, and in the new patterns of relationships established through social networks.

While undertaking our systematic review, Zhang, Sun, and Xie (2015) prepared a review on the same topic. However, their sample only included studies published in English. In our review, there was no restriction on language. This feature made our sample reach almost twice as many studies as the sample compiled Zhang, Sun, and Xie (2015). Besides, our review followed the methodology proposed by The Cochrane Collaboration, while the one published by Zhang, Sun, and Xie (2015) did not follow the same methodological rigor. In this sense, our article updates the knowledge of this field of study with greater rigor, even though our search was included publications up to June 2014. Finally, it should be noted that there is no other systematic review on the topic containing articles published after the year 2014.

The aim of the present review was therefore to identify methods for evaluating the quality of information on health websites, updating the systematic review on this topic published in 2002.

2 METHODOLOGY

This review followed the methodology proposed by the Cochrane Collaboration (HIGGINS; GREEN, 2011).

The inclusion criteria were studies published from 2001 to June 2014, in any language and that (1) evaluated the quality of health information on the Web; (2) evaluated information on pages, websites, or portals; and (3) applied criteria for assessing the quality of information or compared it with other media.

As exclusion criteria, we removed studies that did not exclusively evaluate the quality of health information on the Web; also investigated this issue in social networks and applications; or that did not present the criteria used in the evaluations.

We conducted our search for studies between May 8 and June 10, 2014, in the following bibliographic bases: "Medical Literature Analysis and Retrieval System Online" (MEDLINE), by "PubMed"; "Web of Science"; the "Latin American and Caribbean Center on Health Sciences

Information" (BIREME); "Cochrane Library"; "Current Nursing and Allied Health Literature" (CINAHL); "Library and Information Science Abstracts" (LISA); "Library, Information Science & Technology Abstracts" (LISTA); the first 10 pages of "Google Acadêmico" and in "Scientific Electronic Library Online" (SciELO).

The search strategy was composed of three concepts: (quality or reliability or accuracy or readability or evaluation or assessment) AND (information or education or advice) – Title only - AND (internet or web or site* or website* or homepage* or online OR "online" or www or "World Wide Web" or health or "e-health").

We used the Mendeley software for managing references. Two reviewers classified the studies into included, excluded, or doubtful by reading the titles and abstracts. They then assessed eligibility through an online form. We calculated Kappa (κ) to monitor these two steps due to the high number of studies identified (HIGGINS; GREEN, 2011). Disagreements were resolved in consensus meetings.

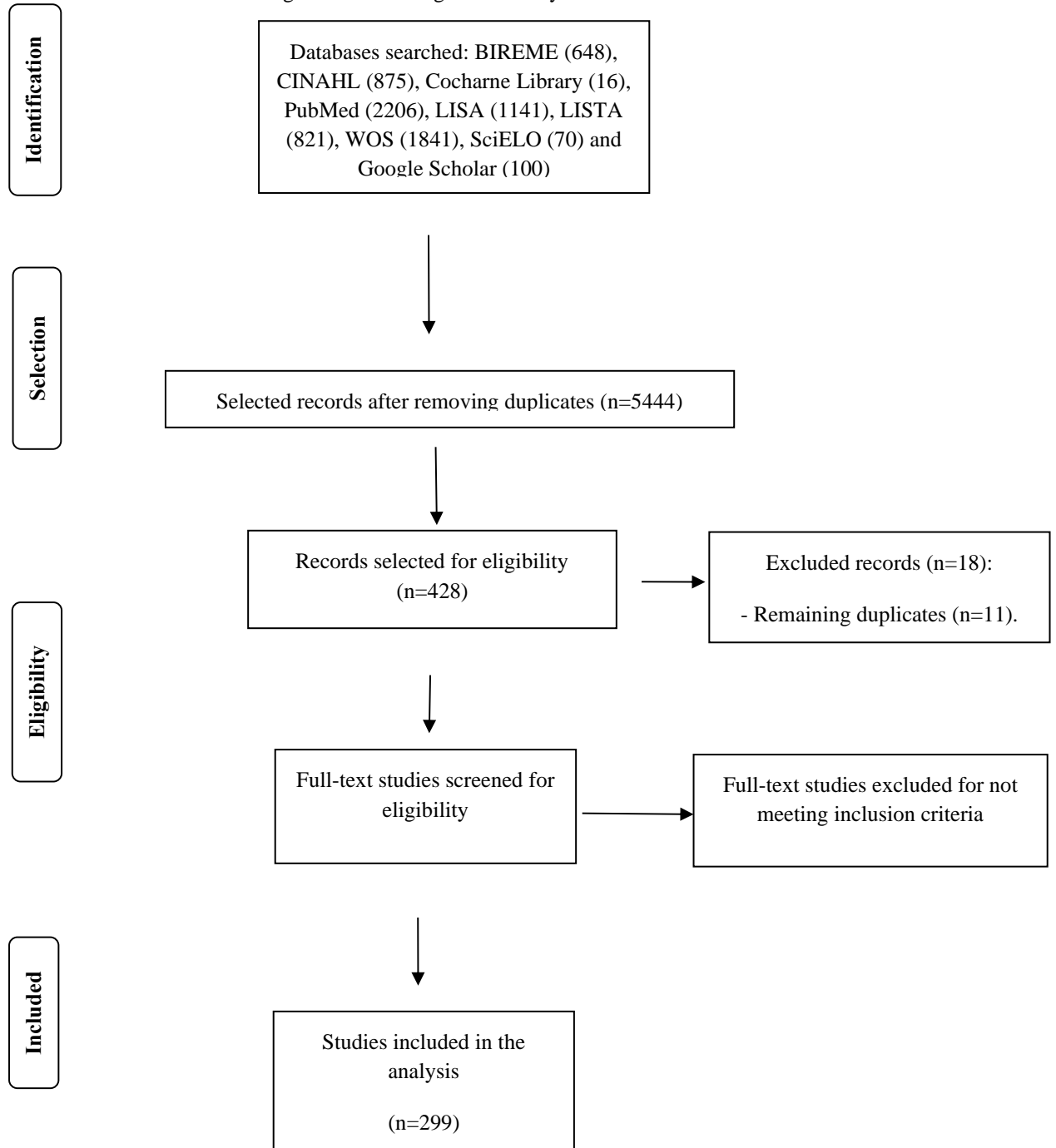
We collected the following characteristics of the studies using an online form: country; area of knowledge; method for selecting sites; evaluated sites reported ; quality criteria; description of evaluation indicators; evaluators; technological processes for assessing readability; and use of a reliable sources as references in the evaluation. Data were not collected on the results of the evaluations performed by the studies, but rather on the methods. Our goal was to verify which criteria were used, whether or not users and professionals participated in evaluating the sites and other methodological aspects. For this reason, the use of a bias risk assessment tool was not necessary.

In the analysis, we included characteristics present in at least 3 studies and with κ greater than or equal to 0.6 to ensure the relevance of the evidence found.

3 RESULTS

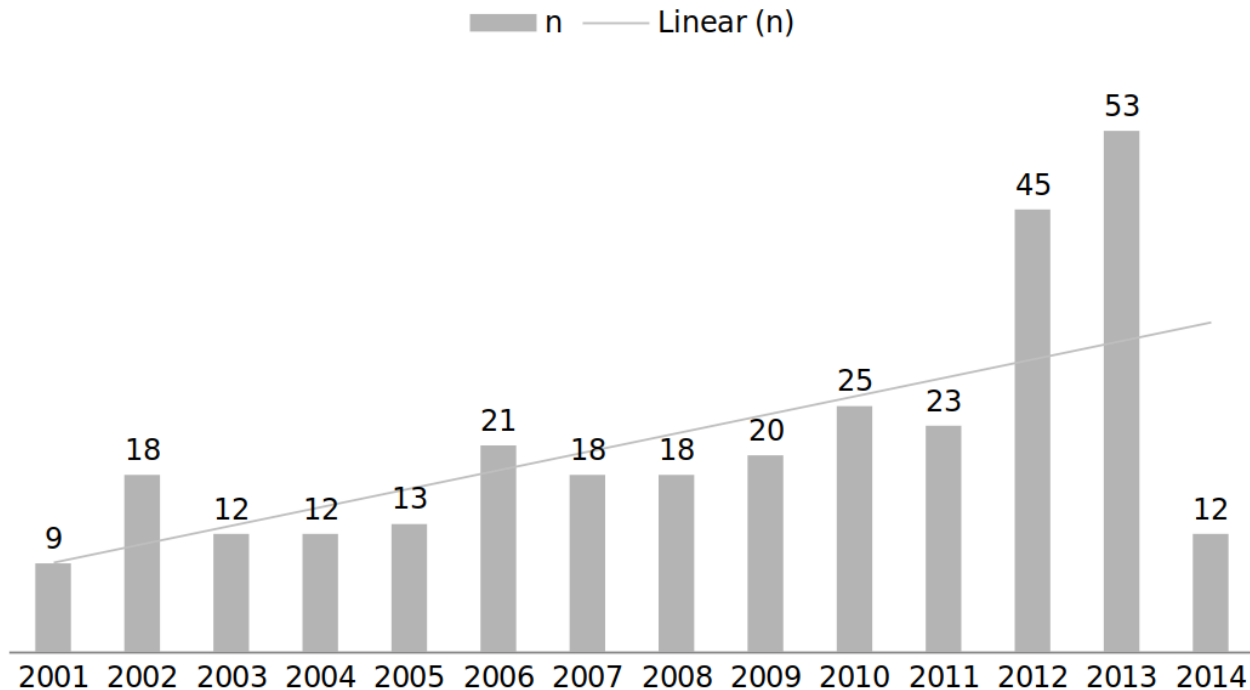
We identified 7,718 studies and arrived at 5,444 records after removing duplicates. We selected 410 potential eligible studies ($\kappa=0.6$) and assessed eligibility through the full texts ($\kappa=0.61$). Thus, we included 299 distinct studies in the analysis (Appendix A). Figure 1 presents the steps taken in the selection process.

Figure 1. Flow Diagram of Study Inclusion



Regarding the characteristics of the studies (complete list in Appendix B), we found 9 studies published in 2001 and 53 in 2013. There was a progressive growth of studies evaluating the quality of health information on the Web, accentuated in the last years of the analyzed period (Figure 2).

Figure 2. Studies by year of publication



Twenty fields of knowledge were included either by the health theme of the study or by the field of the first author. Otherwise, the reviewers interpreted it according to the text.

Overall, we identified 20 subject areas in the Health Sciences. The three areas with the highest number of studies were Oncology (7.7%), Orthopedics (7%), and Psychiatry (6.4%), while Nutrition (2.3%) and Infectious and Parasitic Diseases (2%) had lower representation. We also grouped by medical areas (49%), related to clinical practice, and non-medical areas (19%). The areas considered non-medical related to research on Nursing, Pharmacy, Physiotherapy, and Occupational Therapy, Nutrition, Dentistry, and Public Health.

We identified two methods of site selection used in the studies: type of search engine (83%), samples obtained through sites such as Google, Bing, and Ask; and arbitrary (9%), samples chosen according to a specific criterion. Most of the studies (54%) did not report the name or address of the sites evaluated. Only 36% of the studies presented this information.

Regarding the quality criteria, we collected the data in two ways.

The first concerns the tools developed by website evaluation initiatives that are linked to established and recognized institutions in academia and associations. The 6 tools included in the

analysis were DISCERN (23%), HONcode (18%), JAMA Benchmarks (5%), LIDA (4%), IQ-Tool (3%), and Michigan Score (1%). Just like the number of publications, the use of these tools has grown over the years. When grouping them by continent of origin, the two most used along with the fourth come from Europe. The others are from North America. DISCERN and HONcode ~~is~~ are present in studies in different places around the world; ~~;~~ , even North American authors themselves have used the European tools more than the North American tools.

The second way we collected data comprised the 5 criteria summarized in the first systematic review (EYSENBACH et al., 2002): technical (T), the general and domain-independent criterion about the way information is presented, as well as its meta-information, i.e. authorship, source of information, date of publication, etc.; design (D), criterion related to the visual aspect of a site; readability (L), a criterion that covers the reading level of a document, that is, whether it is easy or difficult to understand; accuracy (AC), criterion about the degree to which information agrees with the best medical evidence or that which is generally accepted; comprehensiveness (AB), a criterion for checking information covered by sites. During our analysis, we interpreted the criteria used by the studies according to these definitions by Eysenbach et al. (2002), even if this criteria used other names. The proportion of each criterion in our sample was AC (63%), L (39%), AB (27%), T (26%), and D (17%).

However, 43% of the studies used only these criteria and explicitly presented the indicators employed in their evaluations. Among these, 79% of the reported indicators are AC; 41%, AB; 38%, T; 23%, D; and 6%, L.

A relevant characteristic of evaluation processes is who evaluated the information. We divided the evaluators into 3 categories: author - when there was no mention of who played this role; specialist - when the participation of other professionals besides the authors was mentioned; and users - when a patient, relative, or an ordinary citizen participated. Most studies (80%) had the authors themselves as reviewers. The participation of experts (8%) and users (5%) was minimal. We also broke down the profiles of these two last categories of reviewers.

The users, for their part, were categorized into 5 groups. First, the patient group consists of people who were experiencing or had experienced the health problems evaluated in the studies. The number of participants in these studies varied considerably (n=15), from 1 (BREAKEY et al., 2009) to 324 (BENOTSCH; KALICHMAN; WEINHARDT, 2004) participants. The second group of non-specialists is made up of individuals without training in the health topic and who have not been affected by the health problems evaluated. They involved a "non-expert observer" (AUVIN; DUPONT, 2013), four "undergraduate students" (IRWIN et al., 2011), and two "people with no medical training but a bachelor's degree" (LEVEQUE et al., 2007). We did not find any criteria that would justify the choice of these evaluators. The third group, parents of patients, participated together with patients in one of

the studies (KNIJNENBURG et al., 2013) and alone in another (MONTOYA et al., 2013). The caregiver's group, comprised people who worked or had worked in this role, was present in only 1 study (BERK et al., 2013). The fifth group of consumers did not follow any specific criteria for the choice of participants and was found in 2 studies (MAK et al., 2012; OERMANN; PASMA, 2001).

The experts were grouped according to the number of participants in the studies (n=25). Most studies (n=15) had 2 to 3 experts involved. Three studies had a slightly larger number of participants. Five studies did not report the number of participants.

It is important to highlight that 7 (2.5%) studies combined both users and experts to evaluate the information from both perspectives (BAILEY et al., 2013; BENOTSCH; KALICHMAN; WEINHARDT, 2004; BREakey et al., 2009; LEVEQUE et al., 2007; MAKAR et al., 2008; MCGILL JF et al., 2009; MONTOYA et al., 2013). The only study that featured significant participation from both categories of raters, 16 experts and 35 users, was conducted by Montoya et al. (2013).

We identified the evaluation processes used for determining the readability criterion. Among the 116 (39%) studies, only eleven did not use technological processes, that is, computer programs and mathematical formulas to calculate the readability level of written texts. The two most used technologies were the Flesch-Kincaid Grade Level (64%) and the Flesch Reading Ease (50%). They were originally developed for the English language but can be modified for other languages (ALBA-RUIZ et al., 2013).

For the accuracy criterion, we identified whether the evaluation of the quality of the information was carried out employing the judgment of evaluators with professional backgrounds appropriate to the areas of study or by comparison with bibliographic material considered reliable. In the latter case, the material can be a book, an article, a guide, a primer, or a manual. Therefore, we collected whether the study used (39%) or not (40%) any bibliography in the evaluation process.

4 DISCUSSION

Eysenbach et al. (2002) searched for studies published through 2001 and came up with a sample of 79 studies. Our sample, from a search from 2001 to May 2017, found 299 studies. Our objectives were similar. The main difference was that we limited ourselves to the evaluation methods, while they also aimed to obtain a result regarding the quality of the evaluated sites.

We observed a substantial increase in publications on this topic from 2011 (n=23) to 2012 (n=45) and 2013 (n=53). This growth may be related to increased Internet access and, consequently, the academic-scientific concern with the quality of information.

There are studies from all continents but Europe (41.5%) and North America (39.8%) have the largest number of publications, and 89% of the studies come from developed countries, with high HDI and better socioeconomic conditions, showing a greater concern with online information.

The most common health issues in the sites evaluated were cancer and osteoporosis. Infectious and parasitic diseases such as tuberculosis and dengue, typical of poor societies, were identified in only 6 studies (2%). We can say that this field of evaluation has not prioritized health issues that affect disadvantaged populations.

Most of the identified areas are medical (n=148). Physicians usually evaluate sites about subjects in their field and publish in related journals (n=94).

4.1 METHODS FOR SELECTING WEBSITES

The most common method was a search engine (83%) that employs statistical methods and inclusion criteria for selecting results appearing on the sites of search engines likely to be accessed by the public. These sites present results limited by the “filter bubble” (PARISER, 2012), which are algorithms that combine information about the users, i.e. their Web profile, to optimize and personalize the results. In this way, what is outside the bubble is invisible. Therefore, we recommend that site samples be obtained on the devices accessed by the target audience of the information, or on devices with a similar usage profile.

Transparency in the presentation of the names and electronic addresses of the sites evaluated is a relevant step in the evaluation processes for the public to know which sources are reliable or of low quality. Most studies did not present the sites (54%) and many reported only those that were well evaluated.

4.2 QUALITY CRITERIA

The criteria of accuracy, readability, comprehensiveness, technical, and design, compiled by Eysenbach et al. (2002), can be considered up-to-date because they were the most present criteria in the studies. We highlight the sharp growth of readability (39%) since 2002 (14%) (EYSENBACH et al., 2002). It went from the fifth to the second most used criterion, demonstrating greater concern with easy comprehension of the information.

We also identified the need for modifying how accuracy is defined. Eysenbach et al. (2002) defined accuracy as the degree to which information agrees with the best evidence or with generally accepted medical practice. However, generally accepted medical practice is often not based on the best scientific evidence (PRASAD; GALL; CIFU, 2011). Therefore, we propose that the accuracy criterion be defined as the degree to which the information agrees with the best scientific evidence available at

the time (STRAUS et al., 2011). This proposal answers calls by Eysenbach and colleagues, who, at the end of their review, focus on the discrepancies that exist between evidence-based medicine and health information on the Internet (EYSENBACH et al., 2002).

Next, we observed the explicitness of quality indicators in less than half of the studies that did not adhere to the international tools, that is, those that used the criteria to construct their indicators (43%). Except for accuracy (79%), all other criteria had low indicator explicitness (<42%). Without indicators, it is difficult to know what exactly was evaluated.

Like Eysenbach and colleagues, we also identified the same 6 international tools used as quality criteria. For example, both European tools DISCERN and HONcode have become international references, as they are present in at least one study on each continent. However, none of the 6 tools simultaneously addresses the 5 criteria compiled by Eysenbach et al. (2002) and validated in our update of this review. This is a problem because all 5 cover different dimensions of information quality and the absence of one compromises a methodologically rigorous assessment.

4.3 HEALTH INFORMATION EVALUATORS

The authors of the studies were mainly themselves the evaluators. The participation of experts and users is negligible. Participation does not follow any standards because the number and criteria for choice are variable. Most studies included 2 or 3 experts, and some studies did not even inform the number of experts.

We found the simultaneous participation of experts and users in only 7 studies (2.3%). There is no relationship between the numbers in each category. Only 1 (MONTOYA et al., 2013) Spanish study had a balanced quantity: 16 experts and 35 users. However, among the users, 70% had higher education and 80% were between 30 and 50 years old. These users did not represent the profile of the majority of the Spanish population as 30% fit this profile (INE, 2015).

4.4 LEGIBILITY ASSESSMENT

According to Eysenbach et al. (2002), none of the studies relied on real consumers or experts in readability assessments. They assessed readability using technological processes that disregard medical jargon, writing styles, and cultural factors of language (EYSENBACH et al., 2002). We found that 105 out of 116 readability studies did the same.

Of the remaining 11, 7 had the authors themselves as reviewers who are experts affiliated with institutions in medical fields (EL-ZAMMAR; GFELLER-INGLEDEW, 2010; KHAZAAL et al., 2007; MALAFAIA; RODRIGUES, 2010; MAZZOLENI et al., 2001; MULHALL; ROJAZ-CRUZ; MULLER, 2010; SCALI; INGLEDEW, 2011; TOUCHET et al., 2007). The other 4 studies had users

as evaluators of the information: patients, consumers, or non-specialists (GLENTON; NILSEN; CARLSEN, 2006; LEVEQUE et al., 2007; MAK et al., 2012; NICOLSON et al., 2011). These studies applied different methods. We did not find a validated instrument for this criterion.

Therefore, the statement by Eysenbach et al. (2002) can be considered current if we compare the quantities of studies with users and technological processes evaluating readability.

4.5 USE OF BIBLIOGRAPHICAL REFERENCE

We found strong evidence that the use of bibliographic references is likely incorporated in the evaluation criterion adopted. Usage is highest in studies with the accuracy criterion (score-z 4.0) and lowest with the readability criterion (score-z -6.7). Since accuracy serves to verify that information is following the best scientific evidence, bibliographic use is a must. We did not identify any studies supporting their evaluations of accuracy in systematic reviews. The failure to incorporate the evidence from systematic reviews in the construction of evaluation indicators is a serious gap in this field of evaluation.

5 CONCLUSION

We did not identify any studies supporting their evaluations of accuracy in systematic reviews. To date, there is no instrument simultaneously containing evaluation indicators for the criteria accuracy, readability, comprehensiveness, technical, and design, and that has been validated by psychometric techniques to measure the construct of information. There is still the need to structure a methodology that, among other characteristics, involves specialists and users in judging the quality of the information and building accuracy indicators based on the best scientific evidence, preferably from systematic reviews.

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APPENDIX A - References of the studies included in the analysis

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APPENDIX B - Study Characteristics

#	Study	Country	Area	Coincidence of Study/Author/Journal areas	Evaluation criteria	Quality indicators reported	Evaluators	Technology to assess Readability	Use of bibliographic material in the evaluation	Methods for selecting websites	Evaluated sites reported
1	(CORPRON; LELLI, 2001)	USA	Surgery	Study, Author and Journal	Accuracy, Technical	No	Author	None	Discordant	Search engine	No
2	(D'ALESSANDRO DM et al., 2001)	USA	Pediatrics	Study, Author and Journal	Readability	Discordant	Author	Discordant	No	Arbitrary	No
3	(DIERING; PALMER, 2001)	USA	Nursing	Study, Author and Journal	Accuracy, Design, Technical	Yes	Expert	None	Discordant	Search engine	Yes
4	(GRIFFITHS; CHRISTENSEN, 2001a)	Australia	Psychiatry	Study, Author and Journal	Comprehensiveness, Accuracy, Technical	Yes	Author	None	Yes	Search engine	No
5	(GROOT et al., 2001)	Netherlands	Orthopedics	Study and Journal	Accuracy, Technical	Yes	Discordant	None	Yes	Search engine	No
6	(MAZZOLENI et al., 2001)	Italy	Public Health	Study, Author and Journal	Accuracy, Design, Readability, Technical	Discordant	Discordant		No	Discordant	No
7	(MERIC et al., 2001)	USA	Cancerology	Study, Author and Journal	Accuracy, HONCode, Technical	Yes	Author	None	No	Search engine	No
8	(OERMANN; PASMA, 2001)	USA	Nursing	Discordant	Accuracy	Discordant	User	None	No	Arbitrary	Yes
9	(POSANI, 2001)	USA	Nursing	Study, Author and Journal	Readability	No	Author	Discordant	Discordant	Search engine	Discordant
10	(ADEMILUYI; REES; SHEARD, 2002)	United Kingdom	Psychiatry	Study e Author	DISCERN, IQ-Tool	Yes	Author	None	No	Search engine	No

11	(ALLEN et al., 2002)	USA	Surgery	Study, Author and Journal	Comprehensiveness, Accuracy	Yes	Author	None	No	Search engine	No
12	(CHESTNUT, 2002)	United Kingdom	Dentistry	Study, Author and Journal	Comprehensiveness, Accuracy, Design, Technical	Yes	Discordant	None	Yes	Search engine	No
13	(COOKE A; GRAY L, 2002)	Discordant	Alternative Medicine	No coincidence	Accuracy	No	Expert	None	Discordant	Search engine	No
14	(CROFT DR; PETERSON MW, 2002)	USA	Allergology and Clinical Immunology	Study and Journal	Comprehensiveness, Accuracy, HONCode, Readability	Yes	Author	Discordant	Yes	Search engine	Yes
15	(FALLIS; FRICKE, 2002)	USA	Pediatrics	No coincidence	Comprehensiveness, Accuracy, Technical	Yes	Author	None	Yes	Search engine	No
16	(GRIFFITHS; CHRISTENSEN; EVANS, 2002)	Australia	Pharmacy	No coincidence	Accuracy	Yes	Author	None	Yes	Discordant	Yes
17	(JEJURIKAR et al., 2002)	USA	Surgery	Study, Author and Journal	Accuracy	Yes	Discordant	None	Yes	Search engine	No
18	(KARP; MONROE, 2002)	USA	Public Health	Discordant	Comprehensiveness, Accuracy	Discordant	Author		No	Search engine	Yes
19	(KUNST et al., 2002)	United Kingdom	Discordant	No coincidence	Accuracy	Yes	Author	None	Yes	Discordant	No
20	(KUNST; KHAN, 2002)	United Kingdom	Pneumology	Discordant	Comprehensiveness, Accuracy	Yes	Discordant	None	Yes	Search engine	Yes
21	(KUSEC et al., 2002)	Croatia	Endocrinology	No coincidence	Readability	Yes	Author	SMOG	No	Search engine	No

22	(MARTIN-FACKLAM M et al., 2002)	Germany	Pharmacy	Study e Author	Accuracy	Yes	Author	None	Yes	Search engine	No
23	(MARTIN-FACKLAM; KOSTRZEWA; HAEFELI, 2002)	Germany	Pharmacy	Study, Author and Journal	Comprehensiveness, Accuracy	No	Author	None	No	Search engine	No
24	(MERIC et al., 2002)	USA	Cancerology	Study e Author	Comprehensiveness, Design, HONCode, JAMA Benchmarks	Yes	Discordant	None	Discordant	Search engine	No
25	(NOLLAN, 2002)	USA	Cardiology	No coincidence	Comprehensiveness, Technical	No	Author		Discordant	Arbitrary	Yes
26	(REED; ANDERSON, 2002)	United Kingdom	Discordant	Discordant	Accuracy, Design, Readability, Technical	Yes	Author	Discordant	Discordant	Search engine	Yes
27	(SOUDER; O'SULLIVAN; VANPELT, 2002)	USA	Neurology	Discordant	Readability	Discordant	Author	Flesch-Kincaid Grade Level	No	Search engine	No
28	(ADEMILUYI; REES; SHEARD, 2003)	United Kingdom	Psychiatry	Study e Author	DISCERN, IQ-Tool	Yes	Author	None	No	Search engine	No
29	(BARTELS et al., 2003)	Canada	Discordant	Study, Author and Journal	DISCERN	Yes	Author	Flesch Reading Ease	No	Search engine	Discordant
30	(BATH; BOUCHIER, 2003)	United Kingdom	Neurology	No coincidence	Comprehensiveness, Accuracy, Design, Technical	Yes	Author	None	No	Search engine	Yes

31	(ELLIS; THOMSON, 2003)	United Kingdom	Podiatry	Study, Author and Journal	Accuracy, HONCode	Yes	Author	None	Yes	Search engine	No
32	(HARGRAVE et al., 2003)	Discordant	Cancerology	Study, Author and Journal	DISCERN, Readability	Yes	Author	Flesch Reading Ease	Discordant	Search engine	Yes
33	(KISELY; ONG; TAKYAR, 2003)	Canada	Psychiatry	Study, Author and Journal	Accuracy, Readability, Technical	Yes	Author	Flesch-Kincaid Grade Level	Yes	Search engine	Yes
34	(KRONES et al., 2003)	Discordant	Discordant	Discordant	Comprehensiveness, Accuracy	Yes	Author	None	Discordant	Search engine	No
35	(LEE CT et al., 2003)	USA	Urology	Study, Author and Journal	Comprehensiveness, Accuracy	Yes	Discordant	None	Yes	Search engine	Yes
36	(MADAN; FRANTZIDES; PESCE, 2003)	USA	Surgery	Study, Author and Journal	Comprehensiveness, Accuracy	Yes	Author	None	No	Search engine	No
37	(OERMANN et al., 2003)	USA	Nursing	No coincidence	Accuracy, Readability	Yes	Author	Flesch-Kincaid Grade Level	Yes	Search engine	Yes
38	(SEIDMAN; STEINWACHS; RUBIN, 2003)	USA	Endocrinology	No coincidence	Comprehensiveness, Accuracy, Technical	Yes	Author, Expert	None	Yes	Search engine	Yes
39	(TATSIONI A et al., 2003)	Greece	Discordant	Discordant	Accuracy	Discordant	Author	None	Discordant	Search engine	No
40	(BENOTSCH; KALICHMAN; WEINHARDT, 2004)	USA	Infectious and Parasitic Diseases	No coincidence	Comprehensiveness, Accuracy, Technical	Yes	Expert, User	None	No	Discordant	Discordant
41	(COOPER; FEDER, 2004)	USA	Infectious and Parasitic Diseases	Study and Journal	Comprehensiveness, Accuracy	Yes	Author	None	Discordant	Search engine	Yes

42	(ENGLAND; NICHOLLS, 2004)	United Kingdom	Nutrition	Study, Author and Journal	Accuracy, Technical	Yes	Author	None	Yes	Search engine	No
43	(FRIEDMAN; HOFFMAN-GOETZ; AROCHA, 2004)	Canada	Cancerology	Study and Journal	Readability	Discordant	Author	Flesch Reading Ease, Flesch- Kincaid Grade Level, SMOG	No	Search engine	No
44	(GIVRON et al., 2004)	France	Discordant	Discordant	Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	Yes
45	(LUKIC; COJBASIC; SPASIC, 2004)	Serbia	Neurology	Study, Author and Journal	Accuracy	Yes	Author	None	No	Search engine	No
46	(MARTIN- FACKLAM M et al., 2004)	Germany	Pharmacy	Study, Author and Journal	Accuracy	Yes	Author	None	No	Search engine	No
47	(MOSHIRFAR et al., 2004)	USA	Orthopedics	Study, Author and Journal		Yes					No
48	(MURPHY et al., 2004)	United Kingdom	Psychiatry	Study, Author and Journal	Accuracy, Technical	Yes	Discordant	None	Yes	Search engine	Yes
49	(PÉREZ-LÓPEZ FR; PEREZ-LOPEZ, 2004)	Spain	Gynecology and Obstetrics	Study, Author and Journal	Accuracy	Yes	Author	None	Yes	Search engine	Yes
50	(RAPP et al., 2004)	France	Infectious and Parasitic Diseases	Discordant	Accuracy	No	Author	None	Yes	Search engine	No
51	(ZUN et al., 2004)	USA	Medical Clinic	Study, Author and Journal	Accuracy, HONCode	Discordant	Author	None	Yes	Search engine	Yes
52	(ANSANI et al., 2005)	USA	Rheumatology	Study and Journal	Comprehen siveness, Accuracy	Yes	Author	Discordant	Yes	Search engine	No
53	(ASLAM et al., 2005)	United Kingdom	Orthopedics	Study, Author and Journal	Accuracy, Technical	Yes	Author		Discordant	Search engine	No

								Flesch Reading Ease, Flesch-Kincaid Grade Level			
54	(BOULOS, 2005)	United Kingdom	Endocrinology	Study and Journal	Readability	No	Author		No	Search engine	Yes
55	(EKMAN; HALL; LITTON, 2005)	Sweden	Cancerology	Study and Journal	Technical	Yes	Author	None	Discordant	Search engine	Yes
56	(EWIS; AFIFI; AL-ABDALLA, 2005)	Qatar	Endocrinology	Study, Author and Journal	Comprehensiveness, Accuracy	Discordant	Author	None	Discordant	Search engine	No
57	(FRICKE et al., 2005)	USA	Orthopedics	Discordant	Comprehensiveness, Accuracy	Yes	Expert	None	Discordant	Search engine	Discordant
58	(GREENE et al., 2005)	USA	Orthopedics	Study, Author and Journal	Accuracy	Yes	Author	None	Yes	Search engine	Yes
59	(LUKIC; COJBASIC; SPASIC, 2005)	Serbia	Neurology	Study, Author and Journal	Accuracy	Yes	Author	None	No	Search engine	No
60	(MARTINS; MORSE, 2005)	Discordant	Ophthalmology	Study, Author and Journal	Accuracy, Design, HONCode, Readability, Technical	Yes	Author	Flesch-Kincaid Grade Level	Discordant	Search engine	No
61	(MATHUR et al., 2005)	USA	Orthopedics	Study, Author and Journal	Accuracy	Yes	Expert	Discordant	Yes	Search engine	Yes
62	(NICHOLS; OERMANN, 2005)	USA	Discordant	Discordant	Accuracy	Yes	Author	Discordant	Yes	Search engine	Yes
63	(SHAIKH U; SCOTT BJ, 2005)	USA	Discordant	Study, Author and Journal	Accuracy, HONCode	Yes	Author	None	Yes	Search engine	Yes
64	(SILVA LV; MELLO JF; MION O, 2005)	Brazil	Discordant	Study, Author and Journal		Yes	Author	None	Yes	Search engine	No
65	(BABIO et al., 2006)	Spain	Public Health	Discordant	Comprehensiveness	Yes	Author	None	Yes	Discordant	Yes

66	(BLACK; PENSON, 2006)	USA	Urology	Study, Author and Journal	Comprehensiveness, Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	No
67	(BREMNER et al., 2006)	USA	Discordant	Discordant	Comprehensiveness, Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	No
68	(CHEUNG et al., 2006)	Australia	Intensive Care Medicine	Study, Author and Journal	Comprehensiveness, Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	Yes
69	(DEGRAEVE; VAN HEERINGEN; AUDENAERT, 2006)	Belgium	Psychiatry	Study, Author and Journal	Comprehensiveness, Design, Technical	Yes	Author	None	Yes	Search engine	No
70	(DORNAN; OERMANN, 2006)	Discordant	Nursing	Study, Author and Journal	Accuracy	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Yes	Search engine	Yes
71	(FARRELL et al., 2006)	Canada	Gynecology and Obstetrics	Study, Author and Journal	Comprehensiveness, Accuracy, Design, Readability, Technical	Yes	Expert	Discordant	Yes	Search engine	Yes
72	(GHOSHAL; WALJI, 2006)	USA	Pharmacy	Study, Author and Journal	Accuracy, Readability	Yes	Expert	Gunning Fog Index	Yes	Arbitrary	Yes

73	(GLENTON; NILSEN; CARLSEN, 2006)	Norway	Discordant	No coincidence	Design, Readability	Yes	User	None	No	Discordant	Discordant
74	(HANIF et al., 2006)	United Kingdom	Surgery	Study e Author	Comprehen siveness, Accuracy	Yes	Author	None	Yes	Search engine	Yes
75	(HARGRAVE; HARGRAVE; BOUFFET, 2006)	Canada	Cancerology	Study, Author and Journal	Accuracy, DISCERN	Yes	Author	Discordant	Yes	Search engine	Yes
76	(LABOVITCH; BOZIC; HANSEN, 2006)	USA	Orthopedics	Study, Author and Journal	Comprehen siveness, Accuracy	Yes	Author	None	Discordant	Search engine	No
77	(LANGILLE et al., 2006)	Canada	Discordant	Discordant	Accuracy, Readability	No	Author	Flesch-Kincaid Grade Level	Discordant	Search engine	No
78	(LAU et al., 2006)	Canada	Cancerology	Study e Author	Comprehen siveness, Accuracy, DISCERN	Yes	Author	None	Yes	Search engine	Yes
79	(LIU et al., 2006)	China	Discordant	Discordant	Comprehen siveness, Accuracy, Technical	Yes	Author	None	Discordant	Search engine	Yes
80	(MISHRA; YENTIS, 2006)	United Kingdom	Anesthesiology	Study, Author and Journal	HONCode	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Yes	Discordant	Discordant
81	(MOORTHY et al., 2006)	United Kingdom	Rheumatology	Study, Author and Journal	Accuracy, Design, DISCERN, Readability	No	Discordant	None	No	Search engine	Yes

82	(PENNEKAMP PH et al., 2006)	Germany	Orthopedics	Discordant	Accuracy	Yes	Author	None	Yes	Search engine	No
83	(PÉREZ-LÓPEZ FR et al., 2006)	Spain	Gynecology and Obstetrics	Study, Author and Journal	Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	Yes
84	(TILLER et al., 2006)	Australia	Dermatology	Study, Author and Journal	Accuracy, HONCode	Yes	Discordant	None	Yes	Search engine	No
85	(WAYNE et al., 2006)	USA	Anesthesiology	Study and Journal	Accuracy	No	Expert	None	Discordant	Search engine	No
86	(BARBOSA; MARTINS, 2007)	Brazil	Ophthalmology	Study, Author and Journal	Comprehensiveness, Design, Readability, Technical	Yes	Author	Flesch-Kincaid Grade Level	No	Search engine	No
87	(BERGMAN; KONIJETI; LERMAN, 2007)	USA	Discordant	Discordant	Comprehensiveness, Accuracy, Design, Readability, Technical	No	Author	Flesch-Kincaid Grade Level	No	Search engine	Yes
88	(CARON; BERTON; BEYDON, 2007)	France	Anesthesiology	Study, Author and Journal	Comprehensiveness, Accuracy, Design, Technical	No	Author	None	No	Search engine	Discordant
89	(CENGOTITABENGOA et al., 2007)	Spain	Pharmacy	Study e Author	Accuracy	No	Author	None	Discordant	Discordant	Yes
90	(DELUCA; SCHIFANO, 2007)	United Kingdom	Discordant	Study, Author and Journal	Comprehensiveness	Yes	Author	None	No	Search engine	No
91	(EWIS; AFIFI; ABAD, 2007)	Qatar	Endocrinology	Study, Author and Journal	Comprehensiveness, Accuracy	Discordant	Author	None	Yes	Search engine	No
92	(HANIF et al., 2007)	United Kingdom	Surgery	Study, Author and Journal	Comprehensiveness, Accuracy	Yes	Author	None	Yes	Search engine	Yes

93	(HARLAND; BATH, 2007)	United Kingdom	Neurology	No coincidence	Comprehensiveness, Accuracy, HONCode, IQ-Tool	Yes	Author	None	Discordant	Search engine	Yes
94	(IPSER; DEWING; STEIN, 2007)	South Africa	Psychiatry	Study, Author and Journal	DISCERN, Readability	Yes	Author	Flesch-Kincaid Grade Level	Yes	Search engine	No
95	(KELLY et al., 2007)	USA	Forensic Medicine and Deontology	Discordant	Readability	No	Author	Discordant	Yes	Discordant	No
96	(KHAZAAL et al., 2007)	Switzerland	Psychiatry	Study, Author and Journal	Accuracy, DISCERN, HONCode, Readability, Technical	No	Author		No	Search engine	No
97	(LEVEQUE et al., 2007)	Discordant	Neurology	Study, Author and Journal	Accuracy, DISCERN, Readability	Yes	Expert, User	None	Yes	Search engine	Yes
98	(MINZER-CONZETTI et al., 2007)	USA	Dermatology	Study, Author and Journal	Accuracy	Yes	Author	None	Discordant	Search engine	Yes
99	(NEMOTO et al., 2007)	Japan	Psychiatry	Study, Author and Journal	Accuracy, DISCERN	Discordant	Author	None	Discordant	Search engine	No
100	(OERMANN; MCINERNEY, 2007)	USA	Infectious and Parasitic Diseases	No coincidence	Accuracy, HONCode, Readability	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Discordant	Search engine	Yes
101	(RICHARD et al., 2007)	France	Endocrinology	Study, Author and Journal	Accuracy	Yes	Discordant	None	Yes	Search engine	Yes

102	(SAMBANDAM et al., 2007)	United Kingdom	Discordant	Study and Journal	Accuracy, Technical	Yes	Author	None	Discordant	Search engine	Yes
103	(TOUCHET et al., 2007)	USA	Discordant	Discordant	Accuracy, Design, Readability, Technical	Yes	Author	None	Yes	Search engine	Yes
104	(BEATON et al., 2008)	United Kingdom	Surgery	Study, Author and Journal	Accuracy	Yes	Expert	None	Yes	Search engine	No
105	(CLAUSON et al., 2008)	USA	Pharmacy	Study, Author and Journal	Comprehensiveness, Accuracy	Yes	Author	None	Yes	Discordant	Yes
106	(DE SOUZA; LUZ; RABELLO, 2008)	Brazil	Discordant	Study, Author and Journal	Accuracy	Yes	Author	None	Yes	Search engine	Yes
107	(DOLLAR; MIX; KOZLOWSKI, 2008)	USA	Public Health	Discordant	Comprehensiveness, Accuracy, Readability	Yes	Author	Discordant	No	Discordant	Yes
108	(KHAZAAL et al., 2008a)	Switzerland	Psychiatry	Study, Author and Journal	Accuracy, Design, DISCERN, HONCode, Readability, Technical	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Yes	Search engine	No
109	(KHAZAAL et al., 2008b)	Switzerland	Psychiatry	Study, Author and Journal	Accuracy, Design, DISCERN, HONCode, Readability, Technical	Yes	Author	Discordant	Yes	Search engine	Yes
110	(KHAZAAL et al., 2008c)	Switzerland	Psychiatry	Study, Author and Journal	Accuracy, Design, DISCERN, HONCode, Readability, Technical	Yes	Author	Flesch Reading Ease, Flesch-Kincaid	Yes	Search engine	No

								Grade Level			
111	(KHAZAAL Y et al., 2008)	Switzerland	Psychiatry	Study e Author	Accuracy, Design, DISCERN, HONCode, Readability, Technical	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Yes	Search engine	No
112	(MAKAR et al., 2008)	France	Surgery	Study, Author and Journal	Accuracy	Yes	Expert, User	None	No	Search engine	No
113	(MOREL et al., 2008)	Switzerland	Psychiatry	Study, Author and Journal	Accuracy, Design, DISCERN, HONCode, Readability, Technical	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Discordant	Search engine	No
114	(OSTRY; YOUNG; HUGHES, 2008)	Canada	Nutrition	No coincidence	Accuracy	Yes	Author	None	Yes	Arbitrary	Discordant
115	(PETERLIN et al., 2008)	USA	Neurology	Study, Author and Journal	Design, Readability, Technical	Yes	Author	Discordant	Yes	Search engine	No
116	(RAHNAVARDI et al., 2008)	Iran	Gynecology and Obstetrics	Study and Journal	Accuracy	Yes	Expert	None	Discordant	Search engine	Yes
117	(SABHARWAL; BADARUDEEN; UNES KUNJU, 2008)	USA	Orthopedics	Study, Author and Journal	Readability	Yes	Author	Flesch-Kincaid Grade Level	No	Arbitrary	Discordant
118	(SAITHNA; AJAYI; DAVIS, 2008)	United Kingdom	Discordant	Discordant	DISCERN, JAMA Benchmarks	No	Author	None	No	Search engine	No

119	(VAN DER MAREL; FIDDER; HOMMES, 2008)	Netherlan ds	Gastroenterology	Discordant	DISCERN, Readability	Yes	Author	Flesch Reading Ease, Flesch- Kincaid Grade Level	No	Search engine	No
120	(WALSH; VOLSKO, 2008)	USA	Medical Clinic	No coincidence	Readability	Yes	Author	Flesch- Kincaid Grade Level, Gunning Fog Index, SMOG	No	Arbitrary	Yes
121	(YICK, 2008)	USA	Public Health	No coincidence	Readability	Yes	Author	Flesch Reading Ease, Flesch- Kincaid Grade Level, SMOG	No	Arbitrary	Discordant
122	(BARTON, 2009a)	USA	Neurology	Study and Journal	Readability	No	Author	Flesch- Kincaid Grade Level	No	Search engine	No
123	(BARTON, 2009b)	USA	Neurology	Study, Author and Journal	Accuracy, HONCode, Readability	Discordant	Author	Flesch- Kincaid Grade Level	No	Search engine	No
124	(BERGLUND et al., 2009)	Canada	Urology	Study, Author and Journal	HONCode, Technical	No	Author	None	No	Search engine	No
125	(BLUMAN; FOLEY; CHIDO, 2009)	USA	Orthopedics	Study, Author and Journal	Readability	Yes	Author	Flesch- Kincaid Grade Level	No	Arbitrary	Yes

								Flesch Reading Ease, Flesch-Kincaid Grade Level			
126	(BREAKEY et al., 2009)	Canada	Hematology	Discordant	Accuracy, DISCERN, Readability	No	Expert, User		Yes	Search engine	No
127	(CORCORAN et al., 2009a)	Australia	Anesthesiology	Study, Author and Journal	Comprehensiveness, Accuracy, Technical	Yes	Author	None	No	Search engine	No
128	(CORCORAN et al., 2009b)	Australia	Anesthesiology	Study, Author and Journal	Comprehensiveness, Accuracy, Design, Technical	Yes	Author	None	No	Search engine	No
129	(GARCIA; MESSERSCHMITT; AHN, 2009)	Discordant	Orthopedics	Study, Author and Journal	Accuracy, Design, Technical	Yes	Author	None	Discordant	Search engine	No
130	(KNIJNENBURG et al., 2009)	Netherlands	Discordant	Discordant	Design	Yes	Discordant	Discordant	Yes	Discordant	No
131	(LOPEZ-JORNET; CAMACHO-ALONSO, 2009)	Spain	Dentistry	Study, Author and Journal	DISCERN, HONCode, JAMA Benchmarks	Yes	Author	None	No	Search engine	No
132	(MALAFAIA, 2009)	Brazil	Infectious and Parasitic Diseases	Study e Author	Accuracy	Yes	Author	None	Yes	Search engine	No
133	(MAYER; LEIS; SANZ, 2009)	Spain	Discordant	No coincidence	Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	Yes
134	(MCGILL JF et al., 2009)	USA	Discordant	Discordant	Accuracy	Yes	Expert, User	None	Discordant	Search engine	No

135	(PANDOLFINI; CLAVENNA; BONATI, 2009)	Italy	Congenital Diseases	Discordant	Accuracy	Yes	Discordant	None	Yes	Search engine	Yes
136	(PARK et al., 2009)	South Korea	Gastroenterology	Study and Journal	Comprehen siveness, Accuracy, Design, HONCode, Technical	Yes	Author	None	Yes	Search engine	No
137	(REAM et al., 2009)	United Kingdom	Cancerology	No coincidence	Comprehen siveness, Accuracy, Design	Yes	Author	None	Discordant	Search engine	Yes
138	(SZUMILAS; KUTCHER, 2009)	Canada	Psychiatry	Study, Author and Journal	Accuracy	Yes	Author	None	Discordant	Discordan t	Yes
139	(TALLGREN et al., 2009)	Finland	Anesthesiology	Study, Author and Journal	DISCERN, Readability	Yes	Author	Discordant	No	Search engine	Yes
140	(TAN BH et al., 2009)	United Kingdom	Cancerology	Study, Author and Journal	Accuracy, JAMA Benchmark s	Yes	Author	None	Discordant	Search engine	No
141	(VAN DER MAREL et al., 2009)	Netherlan ds	Gastroenterology	Study, Author and Journal	Accuracy, DISCERN, Readability	Discordant	Author	Flesch Reading Ease, Flesch- Kincaid Grade Level	Yes	Search engine	Yes
142	(BAZAZ; GREEN; GREEN, 2010)	United Kingdom	Discordant	Study, Author and Journal	Comprehen siveness, Accuracy	No	Author	None	No	Discordan t	Yes
143	(BUHI et al., 2010)	USA	Public Health	Discordant	Comprehen siveness, Accuracy, Design, Technical	Yes	Discordant	None	Yes	Search engine	No



144	(DA SILVA; GUBERT, 2010)	Brazil	Nutrition	Discordant	Comprehen siveness, Accuracy	Yes	Author	None	Yes	Search engine	No
145	(DEOL et al., 2010)	United Kingdom	Surgery	Study, Author and Journal	Readability	No	Author	Flesch Reading Ease	No	Search engine	No
146	(EL-ZAMMAR; GFELLER- INGLEDEW, 2010)	Canada	Discordant	Study, Author and Journal	Comprehen siveness, Accuracy, Design, DISCERN, HONCode, JAMA Benchmark s, Readability, Technical	Discordant	Discordant	None	No	Search engine	No
147	(FITZSIMMONS et al., 2010)	United Kingdom	Neurology	No coincidence	Readability	No	Author	Flesch- Kincaid Grade Level, SMOG	No	Search engine	No
148	(GUARDIOLA- WANDEN-BERGHE; SANZ-VALERO; WANDEN-BERGHE, 2010)	Spain	Discordant	Discordant	Accuracy, Technical	Yes	Author	None	Discordant	Search engine	No
149	(HOPPE, 2010)	USA	Cancerology	Study and Journal	Readability	Yes	Author	Flesch- Kincaid Grade Level, SMOG	No	Arbitrary	Yes
150	(HOPPE; SCHUCHAT; VANDERFORD, 2010)	USA	Discordant	Study and Journal	Readability	No	Author	Flesch- Kincaid Grade Level, SMOG	No	Arbitrary	Yes

								Flesch-Kincaid Grade Level			
151	(KAICKER et al., 2010)	Canada	Discordant	Discordant	DISCERN, Readability	Yes	Author		No	Search engine	No
152	(KIERAN et al., 2010)	Ireland	Otorhinolaryngology	Study, Author and Journal	Accuracy, Technical	Yes	Author	None	Yes	Search engine	Yes
153	(LEITHNER et al., 2010)	Austria	Discordant	Discordant	Comprehensiveness, Accuracy	Yes	Discordant	None	Yes	Arbitrary	Yes
154	(LIEU et al., 2010)	USA	Pharmacy	Study, Author and Journal	Comprehensiveness, Accuracy	No	Expert	None	No	Search engine	No
155	(LOPEZ-JORNET; CAMACHO-ALONSO, 2010a)	Spain	Dentistry	Study, Author and Journal	DISCERN, HONCode, JAMA Benchmarks	Yes	Author	None	No	Search engine	No
156	(LOPEZ-JORNET; CAMACHO-ALONSO, 2010b)	Spain	Discordant	Study e Author	DISCERN, HONCode, JAMA Benchmarks	Yes	Author	None	No	Search engine	No
157	(MALAFAIA; RODRIGUES, 2010)	Brazil	Discordant	Discordant	Comprehensiveness, Accuracy, Design, Readability, Technical	Yes	Author		Discordant	Search engine	No
158	(MALLAPPA SAROJA; HANJI CHANDRASHEKAR, 2010)	United Kingdom	Gynecology and Obstetrics	Study, Author and Journal	Accuracy	Yes	Author	None	Yes	Search engine	Yes
159	(MEADOWS-OLIVER; BANASIAK, 2010)	USA	Discordant	No coincidence	Accuracy	Yes	Author	None	Yes	Search engine	Discordant



160	(MORR S et al., 2010)	USA	Orthopedics	Study, Author and Journal	Accuracy	Yes	Discordant	None	Discordant	Search engine	Yes
161	(MULHALL; ROJAZ-CRUZ; MULLER, 2010)	Discordant	Urology	Study, Author and Journal	Accuracy, Readability	Yes	Author	None	No	Arbitrary	Discordant
162	(POST; MAINOUS, 2010)	USA	Endocrinology	No coincidence	Accuracy	Yes	Author	None	Yes	Search engine	No
163	(RAJAGOPALAN et al., 2010)	USA	Cancerology	Study, Author and Journal	Accuracy, Readability	Discordant	Expert	Flesch-Kincaid Grade Level	Yes	Arbitrary	Discordant
164	(SCHALNUS et al., 2010)	Germany	Ophthalmology	Study, Author and Journal	Comprehensiveness, Accuracy	Yes	Expert	None	Yes	Search engine	No
165	(STARMAN et al., 2010)	USA	Orthopedics	Study, Author and Journal	Accuracy, HONCode	Yes	Author	None	Yes	Search engine	No
166	(ZERMATTEN et al., 2010)	Switzerland	Psychiatry	Study, Author and Journal	Accuracy, Design, DISCERN, HONCode, Readability	Discordant	Author	Flesch-Kincaid Grade Level	Yes	Search engine	Yes
167	(BAILEY et al., 2011)	United Kingdom	Surgery	Study, Author and Journal	Accuracy, Readability	Yes	Author	Flesch Reading Ease	No	Search engine	Discordant
168	(CHONG et al., 2011)	Canada	Cancerology	Study, Author and Journal	Comprehensiveness, Accuracy, Design, DISCERN, Readability, Technical	No	Discordant	Flesch Reading Ease, SMOG	No	Search engine	No
169	(COQUARD et al., 2011)	Switzerland	Psychiatry	Discordant	Comprehensiveness, Design, DISCERN,	No	Author	Flesch Reading Ease, Flesch-	Discordant	Discordant	No

					Readability, Technical			Kincaid Grade Level			
170	(FUENTES-TIRADO et al., 2011)	Puerto Rico	Physiotherapy and Occupational Therapy	Study, Author and Journal	Accuracy, DISCERN	Yes	Author	Discordant	Discordant	Search engine	No
171	(GKOUSKOU et al., 2011)	Greece	Nutrition	Study e Author	DISCERN	Discordant	Author	None	No	Search engine	Yes
172	(HALLINGBYE; SERAFINI, 2011)	USA	Anesthesiology	Study, Author and Journal	DISCERN, HONCode, JAMA Benchmarks	Yes	Author	None	Yes	Search engine	No
173	(IRWIN et al., 2011)	USA	Dentistry	Study, Author and Journal	Comprehensiveness, Accuracy, IQ-Tool	Yes	User	None	Yes	Search engine	Yes
174	(JOSHI; BHANGOO; KUMAR, 2011)	USA	Discordant	Discordant	Comprehensiveness, Accuracy	Yes	Author	None	Yes	Search engine	No
175	(KAR; NEFFENDORF; MAYER, 2011)	United Kingdom	Urology	Study, Author and Journal	HONCode, Readability, LIDA	Yes	Author	Discordant	No	Search engine	No
176	(KILLEEN et al., 2011)	Ireland	Discordant	Discordant	Comprehensiveness, Accuracy, Readability	Yes	Author	Flesch-Kincaid Grade Level	Yes	Search engine	No
177	(KUPFERBERG; PROTUS, 2011)	USA	Pharmacy	Discordant	Comprehensiveness, Accuracy	Yes	Author	None	Yes	Arbitrary	Yes
178	(LEBANOVA; BLLEVA; GETOV, 2011)	Bulgaria	Pharmacy	Study, Author and Journal	Accuracy	No	Author	None	Discordant	Search engine	No
179	(LEITE; CORREIA, 2011)	Portugal	Dentistry	Discordant	HONCode	Yes	Author	None	No	Search engine	No

180	(LIU; SASSON, 2011)	USA	Cardiology	Discordant	Accuracy	Yes	Author	None	Discordant	Search engine	No
181	(MINAGLIA et al., 2011)	USA	Discordant	Discordant	Comprehensiveness, Accuracy, Technical	No	Discordant	None	No	Search engine	No
182	(NICOLSON et al., 2011)	United Kingdom	Pharmacy	No coincidence	Design, Readability	Yes	User	None	No	Arbitrary	Yes
183	(PATEL et al., 2011)	USA	Surgery	Study, Author and Journal	Readability	Yes	Author	Flesch-Kincaid Grade Level, SMOG, New Dale-Chall Test	No	Arbitrary	Discordant
184	(PATEL; COBOURNE, 2011)	United Kingdom	Dentistry	Study, Author and Journal	Readability, LIDA	Yes	Author	Flesch Reading Ease	No	Search engine	Yes
185	(SAN NORBERTO et al., 2011)	Spain	Discordant	Discordant	Readability, LIDA	Yes	Author	Discordant	No	Search engine	Yes
186	(SCALI; INGLEDEW, 2011)	Canada	Cancerology	Study e Author	Comprehensiveness, Accuracy, Readability, Technical	Discordant	Author		No	Discordant	No
187	(TANGRI; CHANDE, 2011)	Discordant	Gastroenterology	Study, Author and Journal	DISCERN	Yes	Author	None	No	Search engine	Yes
188	(THAKOR et al., 2011)	Australia	Alternative Medicine	Study and Journal	Accuracy, DISCERN, Readability	Yes	Discordant	Discordant	No	Search engine	No
189	(VAONA et al., 2011)	Italy	Endocrinology	Study and Journal		Yes	Expert	None	Discordant	Arbitrary	Yes
190	(AHMED et al., 2012)	New Zealand	Physiotherapy and Occupational Therapy	Study, Author and Journal	Accuracy, HONCode, Readability	Yes	Author, Expert	Flesch Reading Ease, Flesch-	No	Discordant	Yes

191	(ALDAIRY; LAVERICK; MCINTYRE, 2012)	United Kingdom	Discordant	Study, Author and Journal	DISCERN	Yes	Author	None	No	Search engine	Yes
192	(BAILEY MA et al., 2012)	United Kingdom	Discordant	Study, Author and Journal	Readability	No	Discordant	Flesch Reading Ease	No	Search engine	Discordant
193	(CARRILLO-LARCO et al., 2012)	Peru	Gynecology and Obstetrics	No coincidence	Comprehen siveness, Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	No
194	(CHAN et al., 2012)	United Kingdom	Cancerology	Study and Journal	Accuracy, Michigan Score, Technical	No	Author	None	Yes	Search engine	No
195	(CUBAS; FELCHNER, 2012)	Brazil	Mastologia	No coincidence	HONCode	Yes	Author	None	Discordant	Search engine	No
196	(DASH et al., 2012)	India	Discordant	Discordant	Comprehen siveness, Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	No
197	(DEL GIGLIO et al., 2012a)	Brazil	Discordant	No coincidence	Comprehen siveness, Accuracy, DISCERN, HONCode	Yes	Author	None	Yes	Search engine	No
198	(DUNCAN; DUNCAN, 2012)	United Kingdom	Infectious and Parasitic Diseases	Study and Journal	Comprehen siveness	Yes	Author	None	Discordant	Search engine	No
199	(ELLIMOOTTIL et al., 2012)	USA	Urology	Discordant	Readability	No	Author	Flesch Reading Ease,	No	Search engine	No

200	(FACKRELL et al., 2012)	United Kingdom	Discordant	Discordant	Comprehensiveness, Accuracy, DISCERN, Technical	Yes	Author	None	Yes	Discordant	Yes
201	(FAST et al., 2012)	Discordant	Urology	Study, Author and Journal	HONCode	Yes	Author	None	No	Search engine	No
202	(FELLER et al., 2012)	USA	Orthopedics	Study e Author	Comprehensiveness, Accuracy	Yes	Author	None	Discordant	Search engine	Discordant
203	(GONDIM; WEYNE; FERREIRA, 2012a)	Brazil	Pharmacy	Discordant	Technical	Yes	Author	None	Yes	Search engine	No
204	(GORDON et al., 2012)	USA	Discordant	Study, Author and Journal	Accuracy, Readability, Technical	Yes	Author	Discordant	Yes	Search engine	Yes
205	(HENDRICK et al., 2012)	New Zealand	Physiotherapy and Occupational Therapy	Study, Author and Journal	Accuracy, HONCode	Yes	Author	Flesch-Kincaid Grade Level	Yes	Search engine	Yes
206	(HIRASAWA et al., 2012)	Japan	Nutrition	Study and Journal	Comprehensiveness, DISCERN, HONCode, JAMA Benchmarks, Readability	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Discordant	Search engine	No
207	(KULASEGARAH et al., 2012)	Ireland	Otorhinolaryngology	Study e Author	Comprehensiveness, Accuracy	Yes	Author	None	Yes	Search engine	No

								Flesch Reading Ease, Flesch-Kincaid Grade Level, SMOG			
208	(LAPLANTE-LEVESQUE et al., 2012)	Sweden	Otorhinolaryngology	Discordant	DISCERN, HONCode, Readability	Yes	Discordant		No	Search engine	Yes
209	(LAWRENTSCHUK et al., 2012)	Australia	Cancerology	Discordant	HONCode	Yes	Author	None	Discordant	Search engine	No
210	(MAK et al., 2012)	Australia	Public Health	Study, Author and Journal	Design, Readability, Technical	Yes	Discordant		No	Discordant	Discordant
211	(MIN WOO; JEONG HWAN; JI WOON, 2012)	South Korea	Dentistry	Study, Author and Journal	Accuracy, DISCERN, HONCode, JAMA Benchmarks	Yes	Author	None	Discordant	Search engine	No
212	(MINAGLIA et al., 2012)	USA	Discordant	Study, Author and Journal	Accuracy	Yes	Discordant	None	Discordant	Search engine	No
213	(MISRA et al., 2012)	USA	Cancerology	Study and Journal	Readability	Yes	Author	Discordant	No	Search engine	Yes
214	(MUTHUKUMARASAMY S et al., 2012)	Discordant	Discordant	Study, Author and Journal	Readability, LIDA	Yes	Author	Flesch Reading Ease	No	Search engine	No
215	(NEUMARK et al., 2012)	Israel	Public Health	Discordant	Comprehensiveness, Accuracy, Design, HONCode, Michigan Score	Yes	Author	None	Yes	Discordant	No
216	(POLISHCHUK; HASHEM; SABHARWAL, 2012)	USA	Discordant	Study and Journal	Readability	Yes	Author	Flesch-Kincaid	No	Arbitrary	Yes

217	(POSCIA et al., 2012)	Italy	Public Health	Discordant	Comprehensiveness	Yes	Author		No	Search engine	No
218	(PRUSTI et al., 2012)	Finland	Pharmacy	Study, Author and Journal	Comprehensiveness, Accuracy, Design, DISCERN	Yes	Author	None	Yes	Search engine	No
219	(PUSZ; BRIETZKE, 2012)	USA	Otorhinolaryngology	Study, Author and Journal	DISCERN	Yes	Author	None	No	Search engine	Discordant
220	(QUINN et al., 2012)	Ireland	Cancerology	Study and Journal	Accuracy	Yes	Discordant	None	Yes	Search engine	No
221	(QURESHI et al., 2012)	USA	Orthopedics	Study, Author and Journal	Accuracy	Yes	Author	None	Discordant	Search engine	No
222	(RAO et al., 2012)	India	Public Health	Study e Author	Accuracy, DISCERN	Yes	Discordant	None	No	Search engine	No
223	(REAVLEY et al., 2012)	Australia	Discordant	Discordant	Comprehensiveness, Accuracy, Readability, Technical	Yes	Expert	Flesch-Kincaid Grade Level	Discordant	Search engine	Yes
224	(RISOLDI COCHRANE; GREGORY; WILSON, 2012)	USA	Public Health	No coincidence	Readability	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level, SMOG	No	Search engine	No
225	(SILVEIRA; COSTA; DE LIMA, 2012)	Brazil	Speech Therapy	Study, Author and Journal	Accuracy, HONCode	Yes	Author	None	No	Search engine	No
226	(SMITH et al., 2012)	USA	Orthopedics	Study, Author and Journal	Accuracy, HONCode	Yes	Discordant	None	Yes	Search engine	No

227	(SOM; GUNAWARDANA, 2012)	United Kingdom	Cancerology	Study and Journal	DISCERN	Discordant	Author	None	No	Search engine	No
228	(SOOBRAH; CLARK, 2012)	United Kingdom	Discordant	Discordant	HONCode, Readability, LIDA	Discordant	Author	Flesch Reading Ease	No	Search engine	No
229	(TAVARE; ALSAFI; HAMADY, 2012)	United Kingdom	Discordant	Study and Journal	HONCode, Readability, LIDA	Yes	Author	Flesch Reading Ease	No	Search engine	Yes
230	(TEJWANI et al., 2012)	Discordan t	Cancerology	Study and Journal	Readability	Yes	Author	Flesch Reading Ease, Flesch- Kincaid Grade Level	No	Search engine	No
231	(VOLSKY et al., 2012)	USA	Otorhinolaryngolo gy	Study, Author and Journal	Accuracy, Readability	Discordant	Author	Flesch Reading Ease, Flesch- Kincaid Grade Level	Yes	Search engine	Yes
232	(WARD; LEACH, 2012)	United Kingdom	Surgery	Study and Journal	Accuracy, Michigan Score	No	Author	None	Discordant	Search engine	No
233	(WHITEHEAD et al., 2012)	United Kingdom	Public Health	Study e Author	Accuracy, HONCode	Yes	Author	None	Yes	Search engine	Yes
234	(YEUNG; MORTENSEN, 2012)	USA	Discordant	Discordant	Accuracy, DISCERN, Technical	Yes	Author	None	No	Search engine	No
235	(ADRIAN et al., 2013)	USA	Gynecology and Obstetrics	Discordant	Accuracy	Yes	Author		No	Search engine	No
236	(ALBA-RUIZ et al., 2013)	Spain	Cancerology	Discordant	DISCERN, HONCode,	Yes	Author	Discordant	No	Search engine	Yes

					JAMA Benchmark s, Readability						
237	(ALSAFI et al., 2013)	United Kingdom	Medical Radiology	Study e Author	Readability, LIDA	No	Author	Flesch Reading Ease	No	Search engine	Yes
238	(ANDEV et al., 2013)	United Kingdom	Discordant	Discordant	DISCERN, HONCode	No	Author		No	Search engine	No
239	(AUVIN; DUPONT, 2013)	France	Neurology	Study, Author and Journal	DISCERN	Yes	Author, User	None	No	Search engine	Yes
240	(BAILEY et al., 2013)	Canada	Discordant	Discordant	DISCERN	Yes	Expert, User	None	No	Search engine	Yes
241	(BAILEY SD et al., 2013)	USA	Pediatrics	Study, Author and Journal	Comprehensiveness, Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	Yes
242	(BERK et al., 2013a)	Australia	Psychiatry	Study e Author		Yes	User	None	No	Discordant	Discordant
243	(BRUCE-BRAND et al., 2013)	Ireland	Discordant	Study, Author and Journal	Comprehensiveness, Accuracy, DISCERN, JAMA Benchmark s	No	Author	None	Yes	Search engine	Yes
244	(CHEN et al., 2013)	Australia	Urology	Study, Author and Journal	Technical	Yes	Author	None	No	Search engine	No
245	(CHONG YM et al., 2013)	Australia	Orthopedics	Study and Journal	DISCERN	Yes	Author	None	No	Search engine	Yes
246	(COLACO et al., 2013)	USA	Urology	Study, Author and Journal	Readability	No	Author	Coleman-Liau Index, Flesch Reading	No	Discordant	Yes

Ease,
Flesch-
Kincaid
Grade
Level,
FORCAST
Formula,
Fry Graph,
Gunning
Fog Index,
New Fog
Count,
Raygor
Readability
Estimate,
SMOG,
New Dale-
Chall Test

247	(CONESA-FUENTES; AGUINAGA-ONTOSO; HERNANDEZ-MORANTE, 2013)	Spain	Nursing	Discordant		No					Discordant
248	(DUNCAN IC et al., 2013)	USA	Surgery	Study, Author and Journal	Comprehensiveness, Accuracy, Design, Technical	Discordant	Author	None	No	Search engine	No
249	(DUNNE et al., 2013)	Ireland	Pharmacy	No coincidence	Accuracy, Readability	Yes	Author	Discordant	No	Search engine	Yes
250	(EDMUNDS; BARRY; DENNISTON, 2013)	United Kingdom	Ophthalmology	Study, Author and Journal	Readability	No	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level,	No	Search engine	No

251	(EICHENBERG; BLOKUS; MALBERG, 2013)	Germany	Psychology	Study e Author	Comprehen siveness, Accuracy, Design, Technical	Yes	Author	None	Yes	Search engine	Discordant
252	(FABRICANT et al., 2013)	USA	Orthopedics	Study, Author and Journal	Comprehen siveness, Accuracy, Readability	Yes	Expert	Flesch- Kincaid Grade Level	Yes	Search engine	No
253	(FERRARI CC et al., 2013)	Italy	Surgery	Study, Author and Journal	DISCERN, Readability, Technical	No	Author	Flesch Reading Ease, Flesch- Kincaid Grade Level	No	Search engine	Discordant
254	(FERREIRA et al., 2013)	Portugal	Cancerology	No coincidence	Accuracy, Readability	Yes	Author	Discordant	Yes	Search engine	No
255	(GORCZYNSKI; PATEL; GANGULI, 2013)	Canada	Discordant	Study, Author and Journal	Accuracy, Readability, Technical	Yes	Discordant	Discordant	Yes	Discordan t	Yes
256	(GREWAL; ALAGARATNAM, 2013)	United Kingdom	Cancerology	No coincidence	Readability, LIDA	Discordant	Author	Flesch Reading Ease, Flesch- Kincaid Grade Level, Gunning Fog Index	No	Search engine	Discordant
257	(HANSBERRY et al., 2013)	USA	Neurology	Study, Author and Journal	Readability	Yes	Author	Flesch Reading Ease,	Discordant	Discordan t	Yes

258	(HIRASAWA et al., 2013)	Japan	Nutrition	Discordant	Comprehensiveness, Accuracy, Technical	Yes	Author		Yes	Search engine	No
259	(JOSHI et al., 2013)	USA	Discordant	Discordant	Accuracy, DISCERN	Yes	Author	None	No	Search engine	Discordant
260	(KEARNEY et al., 2013)	USA	Pediatrics	Study and Journal	Accuracy	Yes	Discordant	None	Yes	Search engine	No
261	(KLILA et al., 2013)	Switzerland	Psychiatry	Study, Author and Journal	Accuracy, Design, DISCERN, HONCode, Readability, Technical	Yes	Author	Flesch-Kincaid Grade Level	Yes	Search engine	Yes
262	(KNIJNENBURG et al., 2013)	Netherlands	Discordant	Study, Author and Journal	Design, Technical	Yes	User	None	Discordant	Arbitrary	Discordant
263	(LIVAS; DELLI; REN, 2013)	Switzerland	Dentistry	Study, Author and Journal	Accuracy, Readability, LIDA	Yes	Author	Flesch Reading Ease	Yes	Search engine	Yes
264	(LUTSKY; BERNSTEIN; BEREDJIKLIAN, 2013)	USA	Orthopedics	Study, Author and Journal	Accuracy	Yes	Author	None	Yes	Search engine	No
265	(MCKEARNEY et al., 2013)	United Kingdom	Otorhinolaryngology	Study and Journal	DISCERN, Readability	Yes	Author	Discordant	No	Search engine	No
266	(MILLER et al., 2013)	USA	Discordant	Discordant	Comprehensiveness, Accuracy	Yes	Discordant	None	Yes	Discordant	No
267	(MIRA et al., 2013)	Spain	Pharmacy	Study and Journal	DISCERN, Readability	No	Author	Discordant	Discordant	Search engine	No



268	(MONTROYA et al., 2013)	Spain	Discordant	Discordant	Accuracy, DISCERN, Readability	Yes	Expert, User	None	Discordant	Search engine	Yes
269	(NASON; TAREEN; QUINN, 2013)	Ireland	Urology	Study, Author and Journal	Accuracy, DISCERN, HONCode, JAMA Benchmarks	Yes	Discordant	None	Discordant	Search engine	Yes
270	(NEILL et al., 2013)	Ireland	Discordant	Study e Author	Readability, LIDA	Discordant	Author	Flesch Reading Ease, Gunning Fog Index	No	Search engine	No
271	(OBERLIN et al., 2013)	USA	Urology	Discordant	Accuracy	Discordant	Discordant	None	No	Discordant	No
272	(ORLOWSKI; OERMANN; SHAW-KOKOT, 2013)	USA	Discordant	Discordant	Accuracy, HONCode, Readability	Discordant	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Yes	Search engine	Yes
273	(OW et al., 2013)	Australia	Discordant	Study, Author and Journal		Discordant					No
274	(PATEL et al., 2013)	USA	Discordant	Discordant	Readability	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level, Gunning Fog Index, SMOG	No	Search engine	Discordant



275	(RHEE et al., 2013)	USA	Rheumatology	Study, Author and Journal	Readability	Discordant	Author	Flesch-Kincaid Grade Level	Discordant	Discordant	Discordant
276	(SHAH et al., 2013)	USA	Discordant	Study, Author and Journal	Accuracy, DISCERN, JAMA Benchmarks	Yes	Author	None	Yes	Search engine	Discordant
277	(SHAHAR; SHIRLEY; NOAH, 2013)	Malaysia	Nutrition	Study e Author	Accuracy, Design, HONCode, Readability, Technical	Yes	Author	Flesch Reading Ease	Yes	Search engine	No
278	(SHARMA et al., 2013)	United Kingdom	Discordant	Study, Author and Journal	Readability	Yes	Author	Flesch-Kincaid Grade Level, SMOG	No	Search engine	No
279	(SHUKLA et al., 2013)	USA	Medical Radiology	Study, Author and Journal	Readability	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level, Gunning Fog Index, SMOG	Discordant	Discordant	No
280	(SOBOTA; OZAKINCI, 2013)	United Kingdom	Gynecology and Obstetrics	Study and Journal	DISCERN, HONCode, JAMA Benchmarks, Readability, Technical	No	Author	Flesch Reading Ease	No	Search engine	No



281	(SURMAN; BATH, 2013)	United Kingdom	Discordant	No coincidence	DISCERN, HONCode, Readability	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Yes	Search engine	No
282	(SVIDER et al., 2013)	USA	Otorhinolaryngology	Study, Author and Journal	Readability	Yes	Author	Coleman-Liau Index, Flesch Reading Ease, Flesch-Kincaid Grade Level, FORCAST Formula, Fry Graph, Gunning Fog Index, New Fog Count, Raygor Readability Estimate, SMOG, New Dale-Chall Test	No	Arbitrary	Discordant
283	(TIRLAPUR; LEIU; KHAN, 2013)	United Kingdom	Discordant	Study, Author and Journal	Accuracy, DISCERN, Readability	Yes	Author	Discordant	Yes	Search engine	Yes
284	(WEISS; MOLLON; LEE, 2013)	USA	Geriatrics	Study, Author and Journal	Readability	Discordant	Author	Discordant	No	Arbitrary	Yes
285	(WHITTEN; NAZIONE; LAUCKNER, 2013)	USA	Cancerology	Discordant	Comprehensiveness, Design,	No	Author	Discordant	No	Search engine	No



					Readability, Technical						
286	(WONG LM et al., 2013)	Canada	Urology	Study, Author and Journal	DISCERN, HONCode, LIDA	Yes	Author	None	Discordant	Discordant	No
287	(YEUNG; D'SOUZA, 2013)	United Kingdom	Surgery	Discordant	Accuracy, DISCERN	Discordant	Author	None	Discordant	Search engine	No
288	(AVRAHAM et al., 2014)	Israel	Gynecology and Obstetrics	Study, Author and Journal	Comprehensiveness, Accuracy, Technical	Yes	Author	None	Yes	Discordant	No
289	(GROHOL; SLIMOWICZ; GRANDA, 2014)	USA	Psychology	Study, Author and Journal	Comprehensiveness, Accuracy, DISCERN, Readability	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	Yes	Search engine	No
290	(HANSBERRY et al., 2014)	USA	Medical Radiology	Study e Author	Readability	Yes	Author	Discordant	No	Arbitrary	Yes
291	(HANSBERRY et al., 2014a)	USA	Discordant	Study e Author	Readability	Yes	Author	Coleman-Liau Index, Flesch Reading Ease, Flesch-Kincaid Grade Level, FORCAST Formula, Fry Graph, Gunning Fog Index, New Fog Count, Raygor	No	Arbitrary	Discordant



Readability Estimate, SMOG, New Dale-Chall Test

292	(JAFFE; TONICK; ANGELL, 2014)	USA	Gynecology and Obstetrics	Discordant	DISCERN	No	Author	None	No	Search engine	No
293	(KEOGH et al., 2014)	Ireland	Surgery	Study, Author and Journal	Readability, LIDA	Yes	Author	Discordant	No	Search engine	Yes
294	(KUMAR et al., 2014)	India	Orthopedics	Study, Author and Journal	DISCERN	Yes	Author		No	Search engine	No
295	(LIU; HAUKOOSA; SASSON, 2014)	USA	Cardiology	Study, Author and Journal	Comprehensiveness, Accuracy, Technical	Yes	Author	None	Yes	Search engine	Yes
296	(MEYER et al., 2014)	Germany	Otorhinolaryngology	Study, Author and Journal	Readability	Yes	Author	Discordant	No	Discordant	No
297	(NICHOLSON et al., 2014)	United Kingdom	Ophthalmology	Study, Author and Journal	Design, Michigan Score	Discordant	Discordant	None	Discordant	Search engine	No
298	(ONEILL et al., 2014)	Ireland	Orthopedics	Study, Author and Journal	DISCERN, HONCode, JAMA Benchmarks, Readability	No	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level, Gunning Fog Index	No	Search engine	No
299	(TING; HU, 2014)	USA	Otorhinolaryngology	Study, Author and Journal	DISCERN, Readability	Yes	Author	Flesch Reading Ease, Flesch-Kincaid Grade Level	No	Search engine	No

APPENDIX C - Characteristics found in at least 3 studies with Kappa ≥ 0.6

Characteristic	Yes	No	Disagreements	Kappa
Country				
United States	101	193	5	0.96
United Kingdom	52	244	3	0.97
Canada	18	278	3	0.92
Australia	14	285	0	1
Spain	14	285	0	1
Switzerland	10	287	2	0.91
Brazil	10	288	1	0.95
Ireland	10	289	0	1
Germany	7	290	2	0.87
France	6	290	3	0.79
Netherlands	5	294	0	1
Italy	5	294	0	1
Japan	3	296	0	1
India	3	296	0	1
Area				
Cancerology	23	268	8	0.84
Orthopedics	21	270	8	0.83
Psychiatry	19	274	6	0.85
Surgery	16	267	16	0.64
Pharmacy	15	280	4	0.88
Public Health	12	279	8	0.74
Urology	12	284	3	0.88
Neurology	12	284	3	0.88
Gynecology and Obstetrics	10	283	6	0.76
Otolaryngology	9	287	3	0.85
Dentistry	8	288	3	0.84
Endocrinology	8	289	2	0.89
Nutrition	7	288	4	0.77
Anesthesiology	7	291	1	0.93
Nursing	6	289	4	0.74
Infectious and Parasitic Diseases	6	289	4	0.74
Ophthalmology	5	293	1	0.91
Medical Radiology	3	294	2	0.75
Rheumatology	3	296	0	1
Physiotherapy and Occupational Therapy	3	296	0	1
Coincidence				
Study, Author and Journal	152	104	43	0.71
Study and Journal	31	245	23	0.69

No coincidence	30	237	32	0.6
Study and Author	24	249	26	0.6
Established Criteria				
Nenhum	128	126	45	0.7
DISCERN	69	227	3	0.97
HONCode	54	213	32	0.7
JAMA Benchmarks	16	281	2	0.94
LIDA	12	287	0	1
IQ Tool	4	294	1	0.89
Michigan Score	4	293	2	0.8
HITI	4	295	0	1
Interpreted Criteria				
Accuracy	187	78	34	0.74
Legibility	116	161	22	0.85
Comprehensiveness	82	159	58	0.6
Technical	77	168	54	0.61
Design	52	210	37	0.66
None	23	275	1	0.98
Indicators reported				
Yes	224	44	31	0.68
No	44	224	31	0.68
Evaluation process (Evaluators)				
Author	239	30	30	0.62
Specialist	25	249	25	0.62
User	15	276	8	0.78
Technology to assess readability				
None	186	97	16	0.88
Flesch-Kincaid Grade Level	74	212	13	0.89
Flesch Reading Ease	58	231	10	0.9
SMOG	24	274	1	0.98
Gunning Fog Index	14	283	2	0.93
Fry Graph	6	292	1	0.92
New Dale-Chall Test	5	293	1	0.91
New Fog Count	5	294	0	1
Raygor Readability Estimate	5	294	0	1
Coleman-Liau Index	5	294	0	1
FORCAST Formula	4	294	1	0.89
Reference-Based Assessment				
No	121	117	61	0.6
Yes	117	121	61	0.6

Method for selecting website

Search Engine	249	25	25	0.62
Arbitrary	27	244	28	0.61

Evaluated sites reported

No	160	108	31	0.79
Yes	108	160	31	0.79