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### **ABOUT COVER**

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LETTER TO THE EDITOR

# Trochanteric bursitis information on the internet; can we trust the information presented?

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# **Abstract**

Trochanteric bursitis is one of the most common causes of lateral hip pain in adults. The prevalence of unilateral trochanteric bursitis is 15.0% in women and 8.5% in men. Access to internet based information has increased dramatically and health related information is now one of the most popular searches in online activity, despite this the quality of information can vary. The objective of this paper is to examine the quality and readability of internet based information of trochanteric bursitis. Overall, we have found a high variability among not only the quality but also the readability of information published. Websites that appeared first on each search engine for trochanteric bursitis did not necessarily score better, demonstrating the importance of providing patients with high quality resources. Future articles should use more critical appraisal tools in order to provide the reader with more high quality and readable information.

Key Words: Internet; Quality; Readability; DISCERN; Journal of American Medical Association; Flesh Reading Ease

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**Core Tip:** From this study, we note that there is a large variance in the information available on the internet, health care workers should be aware of this, should educate patient's about the large variance of quality of medical information on the internet and should direct patients who are looking for further information to the relevant websites.

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# TO THE EDITOR

The internet's usage has massively increased in the last number of years with over 85% of the American population having access to it[1]. In this modern age with the rise of the internet, we face an ever growing population of self-educated patients. This presents a new challenge for doctors as the quality of information on the internet is variable and could lead to misinformed patients.

We recently reviewed the quality of internet-based information of a commonly encountered hip pathology: Trochanteric bursitis. We used this search term to look at the first 50 websites from the top five search engines. A total of 107 websites were analysed after removing duplicates and inaccessible sites. We used three quality scoring systems: The DISCERN scoring system, the Journal of American Medical Association (JAMA) and HON code certification<sup>[2-4]</sup>. The readability of each website was also assessed using the Flesh Reading Ease (FRE) score and the Flesh Kincaid grade

When analysing sites about Trochanteric bursitis, the mean DISCERN score was 49.3 (SD 13.7), JAMA was 1 (SD 1.39). The websites with the highest DISCERN and JAMA scores were the Academic and Physician led websites which showed a significant difference in the quality when compared to commercial or discussion/social media websites (P < 0.001). A stark contrast was also seen in the readability of each website with the commercial/social media websites being significantly easier to read with mean FRE score being 57 (SD 11.3) and FKGL score being 7.6 (SD 1.7) when compared to the academic or physician led websites which had a significant lower readability (P < 0.001).

Notably only 14 of the 107 websites looked at had HON code certifications and these were the academic or physician led websites. We noticed that there was a correlation between increased JAMA and DISCERN scores and sites with HON code certifications therefore leading us to believe that sites with HON code certification were of a higher quality.

Amante et al<sup>[5]</sup> demonstrated that people experiencing trouble accessing health care are more likely obtain health information from the Internet. This is particularly worrying when you look at the results of our study as patients who chose nonacademic and non-physician led websites as their source of information are more likely to get lower quality information.

In conclusion, we propose that surgeons and clinicians recommend a select number of websites to that are of high quality and also have a high readability in order for patients who are interested be able to expand their understanding of their condition with high quality resources.

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