

ONLINE TOOLS AND PLATFORMS FOR SCHOLARLY ACTIVITIES SHOULD BE CONTINUOUSLY DEVELOPED

Received: Dec. 29, 2020

Accepted: Dec. 31, 2020

Edward Barroga^{1*} <https://orcid.org/0000-0002-8920-2607>

¹Department of General Education, Graduate School of Nursing Science, St. Luke's International University, Tokyo, Japan



***Corresponding author:**

Edward Barroga, PhD, Professor, Department of General Education, Graduate School of Nursing Science, St. Luke's International University, 10-1 Akashi-cho, Chuo-ku, Tokyo 104-0044, Japan

Twitter handle: @BarrogaEdward; **E-mail:** edward-barroga@slcn.ac.jp

Keywords: Research designs, Methodology, Writing, Social media

How to cite: Barroga E. Online tools and platforms for scholarly activities should be continuously developed. Cent Asian J Med Hypotheses Ethics 2020;1(2):118-121. <https://doi.org/10.47316/cajmhe.2020.1.2.02>

The perspective article by M. Yessirkepov and co-authors [1] is timely as it examines indispensable online tools and platforms used to support research, teaching-learning activities, and efforts to solve public health issues, particularly during the current COVID-19 pandemic. Understandably, the recent focus has been on finding ways to prevent or treat COVID-19 infection. Nevertheless, considerable attention should also be given to addressing the disrupted scholarly activities of educators, researchers, and authors.

With the inevitable shifts in education, research, and healthcare practice to virtual platforms [2], M. Yessirkepov and co-authors call our attention to crucial initiatives for sustaining and enhancing disrupted scholarly activities. Numerous online tools and platforms have been developed to aid educators and researchers in maintaining their research and scholarly activities [2, 3]. Traditional research and learning is now embracing digital platforms for emergency activities [4, 5]. These platforms are crucial for conducting clinical trials [6] and augmenting shifts in research designs, data collection, and ethical standards.

The index perspective article highlights the importance of analyzing health information from previously archived

clinical data and digitized health statistics, conducting online surveys, and using social media for scholarly activities. All these online activities are critical for overcoming the curtailment of participatory education and research by providing alternatives to accessing research sites, generating knowledge, and establishing emergency networks [7, 8].

The COVID-19 pandemic has made it imperative to change health information processing and establish advanced online repositories, social media aggregators, and clinical databases [9]. With these changes, the quality and rigor of scholarly activities should be maintained at the highest level. Collection and sharing of standardized data in accordance with global guidelines is also recommended [10].

In terms of conducting online surveys, the authors of the perspective aptly describe the efficiency of using SurveyMonkey and Google Forms. These platforms may ensure the continuity of scholarly activities despite the constraints on operational and participatory research. In addition to online surveys, online interviews, image/video articles, and social media analyses can be used for ensuring the continuity of research reporting and scholarly publishing [11].

The authors have called our attention to significant opportunities of scholarly activities through Twitter, Facebook, and Instagram. These social media provide an insight into the societal implications of online networking and post-publication communication [12, 13, 14]. Additionally, social media (altmetric) analyses allow researchers to visualize trending articles in their fields [15, 16]. Tweets and other professional social media

postings widen researchers' scope of activities and contribute to the global science growth.

To sum up, digital proficiency and awareness of emerging and advanced online tools are becoming mandatory for research and educational activities worldwide [17, 18]. The integration of emerging online tools and platforms into scholarly activities should become a standard in the foreseeable future.

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**ЗЕРТТЕУ ҚЫЗМЕТІ ҮШІН ОНЛАЙН-ҚҰРАЛДАР МЕН ПЛАТФОРМАЛАР ҮНЕМІ ДАМЫП
ОТЫРУЫ КЕРЕК**

Дәйексөз үшін: Э.Баррога. Зерттеу қызметі үшін онлайн-құралдар мен платформалар үнемі дамып отыруы керек. Медициналық гипотеза мен этиканың Орта Азиялық журналы. 2020; 1(2): 118–121. <https://doi.org/10.47316/cajmhe.2020.1.2.02>

**ОНЛАЙН-ИНСТРУМЕНТЫ И ПЛАТФОРМЫ ДЛЯ НАУЧНОЙ ДЕЯТЕЛЬНОСТИ ДОЛЖНЫ
ПОСТОЯННО РАЗВИВАТЬСЯ**

Для цитирования: Э.Баррога. Онлайн-инструменты и платформы для научной деятельности должны постоянно развиваться. Центральноеазиатский журнал медицинских гипотез и этики. 2020; 1(2): 118–121. <https://doi.org/10.47316/cajmhe.2020.1.2.02>