

Poster 16: Helping Patients Understand Cervical and Ovarian Cancer: Does AI Make the Grade?**Presenting Author:** Mia Ramirez, McGovern Medical School at UT Health Houston

Topic

Other: Cervical and Ovarian

Objectives

As the public increasingly interacts with artificial intelligence (AI) chatbots, we sought to compare answers to standardized questions patients might pose on various aspects of ovarian and cervical cancer provided by five popular AI chatbots.

Methods

Five AI chatbots (ChatGPT 3.5, Google Gemini, Reddit, Bootcamp, DeepSeek) were queried with fifteen frequently asked questions (FAQ) on cervical cancer and twelve FAQs on ovarian cancer published by the American College of Obstetricians and Gynecologists (ACOG). Each question was asked independently in a new session to minimize influence from prior questions. In a blind and randomized survey, each de-identified answer was individually assessed by three gynecologic oncologists on a 4-point scale (1: accurate and comprehensive, 2: accurate but inadequate, 3: accurate and inaccurate/outdated, 4: completely inaccurate). The Flesch-Kincaid readability score and word count of each answer were obtained using Microsoft Office Word Software.

Results

For cervical cancer FAQs, on average, ChatGPT 3.5, Google Gemini, Reddit, Bootcamp, and DeepSeek received scores of 1.4, 1.6, 2.7, 1.5, and 1.5, respectively. For ovarian cancer FAQs, on average, ChatGPT 3.5, Google Gemini, Reddit, Bootcamp, and DeepSeek answers received scores of 1.3, 1.4, 2.5, 1.2, and 1.4, respectively. See Table 1 for the breakdown by rating. All five AI chatbots averaged above an 11th-grade reading level. Qualitative review by gynecologic oncologists revealed that answers often lacked focus and applicability in most situations. For example, although the AI platforms listed correct treatment regimens, they lacked consideration of individual patient concerns. However, the answers by AI were accurate and applicable regarding cancer staging, possibly because staging guidelines are globally standardized.

Conclusions

AI chatbot answers to cervical and ovarian cancer FAQs are difficult to read for the average American. Although overall rated to be fairly accurate and adequate, the answers were often off-topic and not generalizable. AI chatbots are currently not a substitute for counseling by medical professionals. Healthcare providers should be aware of misinformation unintentionally provided by AI chatbots, particularly when individualized patient care is needed.

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Abstract Table or Graph

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