



# AI and the Evolving Role of Medical Writers

Based on: Chamberlain James L, Cooper J.  
AMWA Journal. 2025;40(2):4–6

# Background

- Medical writers ensure clarity, consistency, and compliance in regulatory submissions.
- 2021 AMWA survey:
  - - 87% of reviewers: poor-quality documents hinder assessments.
  - - 77%: delays due to poor writing quality.
- Growing demand + shortage of trained medical writers = AI opportunity.

# Purpose of Article

- Explore how AI can:
  - - Improve document quality.
  - - Support medical writers in regulatory submissions.
  - - Be integrated safely while preserving compliance and scientific integrity.

# Benefits of AI

- Consistency – check terminology, grammar, formatting.
- Clarity – reduce redundancy, improve conciseness.
- Automation – generate tables, summaries, cross-references.
- Quality Control – flag regulatory inconsistencies.

# Challenges & Risks

- Data security: sensitive clinical trial data must be protected.
- Ethics & bias in AI-generated content.
- Risk of misinformation, plagiarism, outdated content.
- AI cannot contextualize or provide strategic insight.

# Regulatory Agencies & AI

- Some agencies exploring AI for document review and data analysis.
- Emphasis on transparency and traceability in AI-assisted submissions.
- Writers must stay updated on evolving AI-related regulations.

# Convergence of AI & Writers

- AI handles drafting/administrative tasks; humans provide context and strategy.
- Writers focus on:
  - - Strategic messaging.
  - - Regulatory compliance.
  - - Synthesizing complex data into clear narratives.
- New skills: AI literacy, prompt engineering, interdisciplinary collaboration.

# Future Directions

- AI adoption is inevitable – a tool, not a replacement.
- Supports efficiency and reduces redundancy.
- Critical thinking, strategy, and regulatory expertise remain irreplaceable.
- Writers must adapt and adopt to thrive.

# Critical Appraisal

- Strengths:
  - - Timely, relevant topic.
  - - Balanced view of opportunities and risks.
  - - Practical insights for writers and regulators.
  
- Limitations:
  - - Limited quantitative data beyond 2021 survey.
  - - Predictions may quickly be outdated.
  - - Limited discussion on training and costs.

# Discussion Questions

- 1. How comfortable should regulators be with AI-assisted submissions?
- 2. What training should medical writers prioritize to remain competitive?
- 3. How do we balance efficiency with accuracy and ethics in AI use?
- 4. Could over-reliance on AI weaken core writing skills?