## 366eP

# PosterLens: an Al-powered tool for rapid summarisation of oncology congress posters

Nick Lamb; Medcopywriter Ltd, Chipping Norton, United Kingdom

#### Introduction

- Oncology congresses present thousands of posters, creating information overload for Medical Science Liaisons (MSLs) and researchers
- Extracting key findings quickly is challenging due to limited time and overlapping sessions
- PosterLens is a mobile app that uses AI to generate concise summaries, designed to improve efficiency and accessibility

#### **Methods**

- PosterLens extracts text from poster images using optical character recognition (OCR) and generates structured summaries with a large language model (LLM; Figure 1)
- In addition to generating summaries, the app can suggest questions to ask the author, identify related research, highlight future research directions, and enable interactive chat with the poster content
- For evaluation, recent oncology congress posters (n=10) were processed with PosterLens. Word counts were compared between original and summarised text
- Each summary was evaluated for accuracy in four elements:
   objective, population, primary endpoint and conclusion. A selftimed assessment estimated the time required to identify the key
  findings using original posters versus PosterLens summaries

#### **PosterLens Workflow**



**MEDCOPYWRITER** 

#### Results

- Across 10 oncology congress posters, PosterLens reduced text length by 78% (IQR 68–89; Table 1, Figure 2)
- Summaries retained essential information with a median fidelity score of 4/4 (IQR 3–4); 90% of summaries preserved the objective, population and conclusion; 80% preserved the primary endpoint (Figure 3)
- In a self-timed assessment, the median time to identify each poster's key finding decreased from 23 s to 11 s

Figure 1. PosterLens app interface and summary output





Table 1. Evaluation of PosterLens summarisation performance

Metric	Median (IQR)
Original words	868 (590–1216)
Summary words	172 (150–190)
Reduction (%)	78% (68–89)
Fidelity (0–4)	4 (3-4)
Time to key finding – Poster (s)	23 (6)
Time to key finding – Summary (s)	11 (4)

Figure 2. Word count reduction

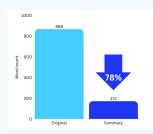


Figure 3. Fidelity of summaries

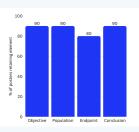


Figure 4. Al-powered interactive features of PosterLens









### **Conclusions**

- PosterLens is a novel digital oncology tool to address information overload at major congresses
- Al-driven summarisation reduces time burden while preserving accuracy of key findings
- Further validation is required in a broader set of posters and user contexts
- Larger-scale evaluation will clarify its role in supporting oncology researchers, clinicians, and trainees
- Future work will explore integration with congress apps for realtime summarisation





