



AI IN PUBLIC HEALTH



Leveraging AI for Literature Review and Background Research in Public Health Grant Proposals

Conducting thorough literature reviews and background research is a critical step in preparing public health grant proposals. ChatGPT can assist public health professionals by identifying, summarizing, and organizing relevant studies, reports, and best practices to support the grant narrative. This guide provides practical steps and example prompts for using ChatGPT to streamline literature reviews while ensuring accuracy and reliability.

Disclaimer: Ensure compliance with your organization's policies and grant requirements when using AI tools, as some may restrict or require disclosure of AI-assisted content. It is the user's responsibility to ensure compliance with all applicable guidelines.

<p>Generating Research Summaries</p> <ul style="list-style-type: none"> • "Summarize key findings from studies on [topic], such as reducing childhood lead exposure in urban areas. Include publication dates and sources." • "What are the primary public health strategies for increasing EPSDT screening rates based on recent research? Ensure sources are from peer-reviewed journals or reputable organizations." • "Provide an overview of evidence-based interventions for [specific health issue, e.g., decreasing obesity rates among children under 5], including any noted limitations." • "What are the best practices in community outreach for [specific health topic, e.g., vaccine uptake]? Include examples from recent studies or reports."
<p>Ensuring Sources Are Credible and Real</p> <ul style="list-style-type: none"> • "List studies published in peer-reviewed journals about [topic] within the last five years. Include journal names, authors, and publication years." • "Provide examples of verified reports on [topic] from organizations such as CDC, WHO, or NIH, and specify where they can be accessed." • "Can you suggest verified reports or studies that discuss the effectiveness of [specific intervention]? Cross-check these against PubMed or other trusted databases." • "Double-check if the source titled '[study/report name]' is a real publication and provide its citation details, including authors and journal names."
<p>Identifying Gaps in Research</p> <ul style="list-style-type: none"> • "What gaps in research exist regarding [specific health issue or intervention]? Include examples of areas where evidence is currently limited." • "Are there any under-researched populations or demographics in [specific topic]? Provide sources or context for this claim." • "What are emerging areas of focus in public health research on [topic], and how are they being addressed in recent studies?" • "Highlight areas where evidence is inconclusive or contradictory for [specific intervention], citing relevant research findings."
<p>4. Summarizing Background Context</p> <ul style="list-style-type: none"> • "Summarize the current state of childhood lead poisoning in the U.S., focusing on prevalence rates and recent CDC guidelines." • "What are the historical trends in EPSDT screening rates among Medicaid-enrolled children over the past decade? Include references to national and state-level data."





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- "Draft a background section on how community health worker programs have impacted maternal health outcomes in rural Kansas."
- "What social determinants are most associated with vaccine hesitancy in low-income communities, and how have public health campaigns addressed them? Use examples from the past five years."
- "Provide a summary of global efforts to reduce childhood obesity, highlighting interventions that have been scaled successfully in middle-income countries."

