



AI IN PUBLIC HEALTH



This guide is tailored to assist public health professionals in using AI tools for data and evidence, in order to effectively conduct a community needs assessments to address health challenges. It is designed for those with little to no AI experience. Keep in mind that all data entered into AI tools must comply with privacy and security regulations to protect Personally Identifiable Information (PII) and sensitive data.

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.

Gather and Organize Data

- **Summarize Large Documents:**
 - "Summarize the key findings from this epidemiological report on childhood obesity in Kansas."
 - "What are the main takeaways from the Sedgwick County report on diabetes prevention?"
 - "Provide a concise summary of this 30-page community health trends document for rural Kansas."
- **Epidemiological Data:**
 - "Identify trends in diabetes prevalence over the past five years in [location]."
 - "What is the most recent data on hypertension rates in [location]?"
 - "Summarize changes in childhood obesity rates in [location] over the past decade."
- **Surveys and Focus Groups:**
 - "Summarize the main concerns raised in this focus group report on access to mental health services in [location]."
 - "What themes emerged from survey responses about healthcare affordability in [location]?"
 - "Analyze focus group discussions about barriers to transportation in [location]."
- **Health Equity Reports:**
 - "Highlight health disparities affecting Hispanic populations in [location]."
 - "What does this health equity report indicate about access to maternal health services for African American populations in [location]?"





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- "Provide a summary of socioeconomic factors contributing to health disparities in [location]."
- **Public Health Dashboards:**
 - "Explain the most critical health metrics displayed on the Kansas Health Rankings dashboard."
 - "What do the public health dashboards reveal about smoking rates in western Kansas counties?"
 - "Identify key trends in opioid-related deaths from the state public health dashboard."

Assess Community Needs: AI can help consolidate data into actionable insights while ensuring sensitive information is protected:

- **Highlight Health Needs:**
 - "What are the most pressing health needs for low-income populations in [location], based on this data?"
 - "Identify critical healthcare gaps for elderly populations in rural Kansas communities."
 - "What are the primary health concerns for children under six in [location]?"
- **Identify Service Gaps:**
 - "What gaps in mental health services exist for adolescents in [location]?"
 - "Which areas in [location] lack access to affordable primary care services?"
 - "Where are dental care services for low-income families underutilized in Kansas?"
- **Describe Disparities:**
 - "Explain health disparities affecting African American populations in [location]."
 - "What factors contribute to higher asthma rates in Hispanic children in [location]?"
 - "How do socioeconomic factors influence cancer screening rates in rural Kansas counties?"

Engage the Community

- **Design Surveys:**
 - "Create survey questions to assess community perceptions of healthcare accessibility in rural Kansas."
 - "What are the best survey questions to identify barriers to vaccination in [location]?"





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- "Draft a community survey to understand transportation needs for medical appointments in [location]."
- **Summarize Feedback:**
 - "Summarize and theme community feedback from these survey responses regarding food insecurity in [location]."
 - "Summarize survey findings on healthcare satisfaction among senior citizens in [location]."

Draft a Community Needs Assessment Report

- **Executive Summary:**
 - "Attached are the findings of our community needs assessment. Review and draft an executive summary of the key health needs identified for [location]."
 - "Write a concise executive summary for a community health report focused on childhood obesity in [location]."
- **Data Interpretation:**
 - "Review the attached report. Summarize the data to explain the primary drivers of health disparities in [location]."
 - "Attached are the findings of our community needs assessment. What does the data reveal about barriers to accessing healthcare for low-income populations in rural Kansas?"
 - "Interpret survey results to highlight gaps in mental health services in [location]."
- **Recommendations:**
 - "Based on this data, recommend interventions to address opioid misuse in [location]."
 - "What strategies can be implemented to improve access to primary care in rural Kansas?"
 - "Provide recommendations for reducing smoking rates among teens in [location]."

Refine and Share Findings

- "What edits can make this report on maternal health disparities in [location] more compelling?"
- "Revise this summary to make it concise and impactful for stakeholders in [location]. Our stakeholders include [list stakeholders]."





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- "How can this assessment of mental health gaps in [location] be made more actionable?"

Create Stakeholder Briefs:

- "Develop a one-page brief highlighting the key findings from the community needs assessment in [location]."
- "Write a summary brief on disparities in healthcare access for rural Kansas counties."

