



# Prompts for Medical and Science Writing

*Here are several prompts for medical writing and editing.*

- *Adapt each prompt for your specific use case.*
- *As always, check the output very carefully against any abstract or other material, as if you were responsible for any and all errors (because you are).*
- *Take any security precautions and adhere to any guidelines as needed.*
- *Be sure to tailor each prompt by specifying the subject area and intended audience.*
- *Try using a program such as TextExpander, so that you can type a single abbreviation and then generate an entire prompt.*

## General

### Outlines

#### Role

You are a world-class medical writer.

#### Objective

Your overall goal is to create a detailed and structured outline for a review article tailored to a clinician audience on the topic of [treatment] for [disease state].

#### Task

Specifically, you need to design the outline in a **list format** with several subheadings, keeping the word count limited to approximately [1000] words. When creating the outline, account for recent advancements and controversies that may impact clinical decision-making or patient care.

#### Elaboration

Here is additional information:

- The article should provide a comprehensive but concise overview of the treatment, addressing the core elements clinicians need to know.
- Include subheadings to organize the content logically (e.g., Introduction, Mechanism of Action, Clinical Efficacy, Adverse Events, Comparisons with Existing Treatments, Guidelines & Recommendations, Ongoing Controversies).
- Make sure to highlight any recent breakthroughs or unresolved debates in the field.
- The outline should conclude with Future Directions or Research Gaps, encouraging continued discussion or exploration.

**IMPORTANT:** *use ChatGPT with the above prompt for the overall structure and layout, but then go into Perplexity and/or PubMed to make sure you have captured the latest and most accurate information and to add references.*

## Summarize a single PubMed abstract

### ##Role

You are a world-class medical writer.

### ##Objective

Your overall goal is to craft a concise and accurate summary of a PubMed abstract for a clinician audience, ensuring it is easily digestible and includes key statistical measures where relevant (such as confidence intervals and/or P values).

### ##Task

Summarize the following scientific abstract in a 3-4 sentence paragraph designed for clinicians, incorporating any statistical measures or relevant data points provided.

### ##Elaboration

Here is additional information:

#The summary must convey the core findings and clinical relevance in a clear, professional tone.

#Ensure that technical jargon is minimized or clarified for rapid comprehension by clinicians.

#If the abstract includes statistical measures such as confidence intervals, P values, or effect sizes, integrate them to enhance the summary's precision and credibility.

#Structure the paragraph logically, starting with the study's purpose or main finding, followed by critical results and their implications.

#Do not output as a bulleted list. Create a paragraph.

Here is the abstract:

**[Attach or paste abstract]**

## Summarize several paragraphs of an article

### ##Role

You are a world-class medical writer.

### ##Objective

Your overall goal is to summarize complex medical information in a concise and clear way for a clinician audience, focusing on the most important concepts to aid quick comprehension and practical application.

### ##Task

Specifically, you need to summarize the provided text in a **paragraph format** of about **250 words**, emphasizing the most critical points that are relevant to clinicians.

### ##Elaboration

Here is additional information:

The summary should focus on clinically relevant insights, including key findings, outcomes, or therapeutic implications. If the text contains statistical measures (e.g., confidence intervals or P

values), they should be incorporated for completeness and credibility. The tone should be professional and succinct, avoiding excessive jargon while ensuring medical accuracy. Aim to structure the paragraph logically, with a smooth flow from the most critical points to supporting details.

*[insert several paragraphs here]*

## Pulling out important information from a full-text PDF

### ##Role

You are a world-class medical writer and researcher.

### ##Objective

Your overall goal is to extract key insights from the attached document to identify critical information, such as study findings and clinical practice implications.

### ##Task

Specifically, you need to list key pieces of information in bullet points, indicating the section they originate from (e.g., methods, results, discussion). Each piece of information should be paraphrased and condensed to 2–4 sentences to capture the essence of the content accurately.

### ##Explanation

Here is additional information for your task: Do not include content directly from the abstract. Focus on synthesizing the data into concise bullet points to highlight the main takeaways from the text. Your summary should cover only the most relevant information within the context of the document's sections to facilitate quick understanding.

*Attach the PDF*

## Generate a summary from a PubMed search

*First, save the abstracts from PubMed into a text file using the save button in PubMed and the format set to "abstract (text)."*

### ##Role

You are a world-class medical writer.

### ##Objective

Your overall goal is to analyze and summarize abstracts from PubMed about [medical topic] to create a coherent synthesis of the available research.

### ##Task

Specifically, you need to:

1. **Part 1:** Summarize each study provided in the attached summary file of PubMed abstracts, referencing each abstract with the first author's last name and the year of publication (e.g., (Name, 2023)). Deliver this in a list or individual study summary format.

- Part 2:** Review your summarized output from Part 1 and construct a cohesive paragraph or two synthesizing the research on the [medical topic]. Reference each study in parentheses (e.g., (Name, 2023)) throughout. Identify and highlight patterns, discrepancies, or emerging trends. If applicable, include any limitations or research gaps you identify.

### ##Explanation

Ensure that your summary and synthesis maintain clarity and conciseness for easy readability. Highlight key findings and insights where relevant. The final summary should provide both a comprehensive overview and actionable insights into the research field.

OR

**Use Google NotebookLM.** Save the PubMed output as a single PDF and upload [here](#). Use the “briefing doc” button to summarize the information.

## Annotation formatter

### ##Role

You are a world-class medical writer.

### ##Objective

Your overall goal is to convert specific textual references into the correct annotation style for seamless academic consistency.

### ##Task

Specifically, you need to convert the following description [page 41, col 2, para 5, lines 20-26, Jackson 2023] into the annotation style: Author Last name, 20xx, pxx, col1, parax, lnx-x.

### ##Explanation

Here is additional information: In this task, ensure that each element—author, year, page number, column, paragraph, and line range—aligns precisely with the new format's guidelines. For example, the entry [page 41, col 2, para 5, lines 20-26, Jackson 2023] should become: Jackson, 2023, p41, col2, para5, l20-26.

## News

### News piece

#### ##Role

You are a world-class medical writer and journalist.

#### ##Objective

Your overall goal is to generate a concise, engaging, and informative news piece tailored for a clinician audience using a specific format.

## ##Task

Specifically, you need to:

Review the provided PDF of a new study and write a news piece for a clinician audience in the provided example news piece format.

Ensure the news piece includes relevant background information to set the stage for readers unfamiliar with the topic.

*Attach an “example news piece” that you have written and that is in the format of the desired output. For clarity call the file “example news piece”. Also attach the PDF about which you want the news piece written. Call that file “new study.”*

## Questions for an author about their study

### ##Role

You are a world-class medical writer and journalist.

### ##Objective

Your overall goal is to write a news article tailored for a clinician audience based on the provided study. To enhance the article, you need to gather relevant insights and direct quotes from the study author.

### ##Task

Specifically, you need to:

List 4-5 thoughtful questions to ask the author that will generate meaningful quotes for the article.

Write a succinct, professional email to the study author including these questions to request their input.

Ensure that both the questions and the email reflect professionalism, clarity, and respect for the author’s time.

### ##Explanation

Here is additional information to guide you:

Use the study abstract provided below to formulate the questions. Focus on areas clinicians might be particularly interested in, such as the implications of the study, unexpected findings, and practical applications.

The email should be polite, professional, and concise, with a clear introduction, the list of questions, and a polite closing. This will help you gather responses efficiently while maintaining a good rapport with the study author.

*Insert study abstract or attach full text PDF.*

## Questions for an expert about someone else’s study

### ##Role

You are a world-class medical writer and journalist.

### ##Objective

Your overall goal is to craft insightful questions for an expert about a specific study, allowing you to generate informative quotes for a news article tailored to a clinician audience.

## ##Task

Specifically, you need to:

Review the attached study abstract.

Create 4-5 questions to ask an expert who is knowledgeable about the topic to elicit relevant, high-quality quotes.

Draft a succinct and professional email to the expert, incorporating the questions into the message.

## ##Explanation

Here is additional information:

The questions should be designed to highlight key insights, clarify complex aspects of the study, and provide clinical context for readers.

The tone of the email should be professional but approachable, ensuring that the expert feels valued and encouraged to respond.

Example questions might include:

"How does this study's finding align with the existing body of literature?"

"What implications do you see for clinical practice based on this research?"

Ensure the email introduction clearly explains your role and the purpose of the interview, making it easy for the expert to understand how their responses will contribute to your article.

*Insert study abstract or attach full text PDF*

## Deciding which presentations to report on from a conference

### ##Role

You are a world-class medical writer and journalist.

### ##Objective

Your overall goal is to identify and highlight the most significant and impactful clinical trials presented at a medical conference.

### ##Task

Specifically, you need to analyze the attached document and compile a **list** of the studies that appear to be the largest and most important clinical trials.

### ##Explanation

The attached document contains abstracts from a medical conference. Pay special attention to high-impact clinical trials—those with large sample sizes, major findings, or clinical relevance.

*Attach a PDF of the abstract book—note: when I tried this, it worked for a 650-page PDF!*

## Needs Assessments and Medical Education

### Educational gaps

#### # Role

You are an expert medical writer who creates medical education materials for clinicians.

#### # Objective

Your overall goal is to identify key areas within clinical practice that present educational opportunities for clinicians in the area of [disease state].

#### # Task

Specifically, you need to summarize current areas of educational need in the area of [disease state]. Present this information as a list of several bullet points, with each bullet consisting of 2-3 sentences.

#### # Explanation

Here is additional information: Focus on areas where there are recent advancements, knowledge gaps, or evolving clinical guidelines in the area of [disease state]. Highlight topics that may require updated clinician training, such as new treatment protocols, patient management strategies, or the use of innovative therapies.

*Note: Be sure to replace the 3 instances of [disease state] in the prompt. Make sure you have updated the output with the latest information from Perplexity and Google search.*

Type the following into Perplexity. This will ensure you have current information:

*“What are some educational gaps for clinicians in the area of [treatment] for [disease state]?”*

## Writing learning objectives

#### ##Role

You are an expert medical writer who creates medical education materials for clinicians.

#### ##Objective

Your overall goal is to provide learning objectives that address specific educational gaps, ensuring these objectives are clear, measurable, and aligned with Bloom's taxonomy.

#### ##Task

Specifically, you need to provide a learning objective linked to each educational gap in a **list** format.

[Insert your educational gaps]

#### ##Explanation

Here is additional information:

- Use Bloom's taxonomy to create learning objectives, focusing on measurable outcomes.
- Ensure that each objective reflects a different cognitive level (e.g., knowledge, comprehension, application).
- Example of a measurable objective: "By the end of this session, clinicians will be able to analyze patient symptoms to diagnose early-stage diabetes."

*Insert your educational gaps from the educational gap prompt above*

# Agenda for an educational program

## ##Role

You are an expert medical writer who creates medical education materials for clinicians.

## ##Objective

Your overall goal is to design a comprehensive agenda for a [xx]-minute educational session that aligns with the provided learning objectives and caters specifically to a clinician audience.

## ##Task

Specifically, you need to create a detailed outline in a structured format. The agenda should break the session into sections, including an introduction, main topics, and conclusion, with each section allocated specific time blocks that sum to [xx] minutes in total.

Here are the learning objectives

[Insert learning objectives].

## ##Explanation

Here is additional information to guide your work: The agenda should align with the learning objectives provided and be practical for a clinician audience. Ensure the introduction sets the stage for learning, the main sections cover the core content in a logical flow, and the conclusion reinforces key takeaways. Make sure the agenda is easy to follow and accommodates the busy schedules of clinicians.

*Insert your learning objectives and number of minutes from the educational gap prompt above*

# Titles for a medical education program

## ##Role

You are an expert medical writer who creates medical education materials for clinicians.

## ##Objective

Your overall goal is to generate engaging and relevant program titles aligned with the provided learning objectives.

## ##Task

Specifically, you need to create **10 titles** for this program in a **list** format. Each title should align with the learning objectives of the program, which focuses on [therapy] in [disease state]. Ensure the titles are clear, concise, and appealing to a clinical audience.

## ##Explanation

Here are the learning objectives for this program:

[Insert learning objectives]

These titles should reflect the primary goals and outcomes of the program, highlighting its relevance and clinical value.

*Insert your learning objectives from the educational gap prompt above*

## Case study

*Note: In the explanation section, format the case in the structure that you want.*

### ##Role

You are an expert medical writer who creates medical education materials for clinicians.

### ##Objective

Your overall goal is to create a realistic, informative, and privacy-compliant medical case study that provides educational value to a clinician audience.

### ##Task

Specifically, you need to use the provided case study format to write a detailed case about [patient age, gender, disease state] in a step-by-step format, ensuring each section logically flows to the next.

### ##Explanation

Here is additional information on the required structure for the case study:

- **Introduction and Background:** Start with a brief introduction to the medical condition or scenario. Provide context about the relevance of the case and why it is of clinical interest.
- **Patient Information:** Describe the patient's demographics (age, sex, and relevant medical history). Ensure compliance with HIPAA or equivalent non-U.S. privacy guidelines by excluding any personally identifiable information.
- **Clinical Presentation:** Outline the patient's symptoms, including how long they were present before the patient sought medical care, and any preliminary assessments or observations by healthcare professionals.
- **Diagnostic Evaluation:** Detail the diagnostic tests conducted, such as laboratory results or imaging findings, along with relevant results.
- **Treatment:** Explain the treatment plan, including medications, surgical interventions, therapy, or other strategies used.
- **Outcome and Follow-Up:** Discuss the patient's progress in response to the treatment, including symptom changes and any modifications made during follow-up care.
- **Discussion:** Provide insights into the clinical significance and uniqueness of the case. Compare the approach and outcome to standard protocols or other similar cases.
- **Conclusion:** Summarize the main takeaways and lessons from the case, offering practical recommendations for similar future cases.

## Test questions

### ##Role

You are an expert medical writer who creates medical education materials for clinicians.

### ##Objective

Your overall goal is to design a clinically relevant multiple-choice question to test the understanding of key concepts based on the provided information.

### ##Task

Specifically, you need to create a multiple-choice question with four answer options, one correct answer, and three incorrect answers. Additionally, you must provide a clear explanation for the correct answer to ensure it reinforces the key learning points.

### ##Explanation

Here is additional information:

[The attached document OR the text below].

Please use this text to extract essential concepts, ensuring the question aligns with clinicians' knowledge requirements. Keep the answer explanations concise but educational.

*Attach or paste in information on which you want to test. You can also add an example format for the test question.*

## Faculty formatter

### ##Role

You are an expert medical writer who creates medical education materials for clinicians.

### ##Objective

Your overall goal is to format the presenter's information in a consistent and professional way for medical education materials.

### ##Task

Specifically, you need to take the faculty information found online [paste information] and format it in the following structure:

- **First Name Last Name, Degree**
- **Title**
- **Institution Name**
- **City, State**

## Advisory Boards

### Advisory board summaries

*Note: Take security precautions as needed. Ad board summaries are typically highly confidential. Also, be sure to review the transcript against the audio to ensure accuracy of transcript before using. The prompt can be adjusted to your format as needed.*

### ##Role

You are an expert medical writer.

### ##Objective

Your overall goal is to review the provided transcript of an advisory board meeting and extract relevant information so that key stakeholders can glean insights from the proceedings.

### ##Task

Specifically, you need to:

1. Create a **list of attendees** from the transcript.
2. Provide a **summary** of the main points discussed, including an analysis of areas of consensus and divergent opinions.
3. Assign the names of attendees to specific viewpoints expressed during the discussion.
4. Extract **key statements** by attendees using direct quotes with quotation marks and identify who made each quote.
5. Present the output using the following structure:
  - **List of Attendees**
  - **Summary**
  - **Key Statements**

### ##Explanation

Here is additional information to guide you:

- The list of attendees should be comprehensive, including all individuals mentioned in the transcript.
- In the summary, focus on capturing both the key agreements and disagreements. Use brief analysis to explain the significance of differing opinions when relevant.
- For each key statement, use accurate quotes from the transcript and correctly attribute them to the respective attendee.
- Organizing the information clearly will ensure that clinicians can quickly grasp the essence of the meeting for use in decision-making or follow-up actions.

## Other

### Converting scientific text to a patient-friendly version

#### ##Role

You are an expert medical writer adept at explaining complex topics to a general audience.

#### ##Objective

Your overall goal is to convert scientifically dense content into clear and engaging text, making it understandable and relatable for non-expert audiences such as patients.

#### ##Task

Specifically, you need to rewrite the following scientific paragraph in a concise, patient-friendly format. Use metaphors or analogies where appropriate to simplify complex medical terms and concepts. Present the information as a cohesive paragraph that informs the patient without overwhelming them.

[paste abstract or paragraphs here]

## ##Explanation

Here is additional information: The goal is to make sure that the revised version is easy to understand for someone without a scientific background but still provides essential medical insights. For example, instead of saying “myocardial infarction,” you might say “a heart attack happens when the blood supply to the heart muscle is blocked, like a clogged pipe stopping water from flowing to a faucet.”

## Additional Tips

- Consider asking ChatGPT to “explain its thinking.”
- Consider adding the phrase, “ask me any followup questions before responding.”
- If your first answer didn’t give you the output you wanted, consider putting in a followup prompt.

For more information about implementing AI, visit “[AI in Medical Writing and Editing: Blueprint for Success in a Changing World.](#)”