**ADTA 5770: MIDTERM**

**Prompts & Responses Summary**

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**Student: Yog Chaudhary**

**IMPORTANT NOTES:**

*--) Prompts must be closely relevant to the student’s selected domain expertise field.*

*--) The LLM must be* ***Google Gemini 2.0 Flash Thinking Experimental.***

* *For the consistency and accuracy of the prompt response evaluation, the student can* ***only use one******LLM****, Google Gemini 2.0 Flash Thinking Experimental*

**IMPORTANT NOTES:**

*--) The student* ***must use the template*** *posted on Canvas to submit their prompts & responses summary*

*--) The template file name:* ***ADTA\_5770\_prompts\_responses\_summary\_template\_MIDTERM****.docx*

*--) The student must* ***rename*** *the file by* ***replacing*** *the text of “****ADTA\_5770****” with the* ***student’s name*** *and remove “template.”*

* ***For example:*** *John Smith\_ prompts\_responses\_summary\_MIDTERM.docx*

Student Name: Yog Chaudhary

Domain Expertise Field: Healthcare for Clinical Knowledge Assistant

**LLM**: **Google Gemini 2.0 Flash Thinking Experimental**

# SUMMARY I: Confirm Prompt Domain

The student must answer the following question to confirm that the prompts they designed, created, and used to prompt the LLM to get responses are in the medical domain.

Are the questions or prompts did you design, create, and use to prompt the LLM are in the **medical** domain? (YES/NO)

ANSWER:YES

# SUMMARY II: Medical Questions Created Following Provided Examples

List of **10 medical questions** that the student has created as required in the **MIDTERM: PART I & II** following provided examples listed in the provided list of medical questions.

1. How can a clinical knowledge assistant help patients understand and manage their daily health habits, such as diet, exercise, and sleep, to improve overall well-being?
2. How can I differentiate between the flu, a cold, and seasonal allergies, and what are the best ways to manage symptoms for each condition?
3. What are the most effective ways to maintain overall health through preventive care, including vaccinations, immune system support, and regular checkups?
4. How can I safely and effectively manage my medications, including understanding when antibiotics are necessary, proper storage, disposal of expired drugs, and recognizing signs of addiction or adverse reactions?
5. What are the most common health concerns for different stages of life, including children, adults, and the elderly, and how can individuals and caregivers address these issues effectively?
6. How can individuals and caregivers address the unique health challenges faced by specific populations, such as children, the elderly, men, and women, to promote overall well-being and prevent common health issues?
7. How can individuals effectively access, manage, and utilize health information and resources, including reliable online health information, drug safety updates, and personal medical records, to make informed healthcare decisions?
8. How can individuals maintain a healthy diet that supports digestion, provides essential nutrients, and fits within a budget, while also incorporating satisfying and nutritious snacks?
9. What are the potential long-term effects of chronic sleep deprivation on brain health?
10. What is a health savings account (HSA), and how can it be used to manage healthcare costs?
11. What is the role of a physician assistant (PA), and how does it differ from that of a nurse practitioner (NP)?

# SUMMARY III: Medical Prompts Created Based on Medical Questions

List of **10 medical prompts** that the student has designed, created, and used to prompt the LLM to get responses as required in the **MIDTERM: PART I & II**.

## Medical Prompt 1

**Promat: : Healthcare for Clinical Knowledge Assistant**

Analyze a healthcare consultant and explain how someone can determine if they are getting enough vitamins and minerals. Discuss common signs of deficiencies, the role of blood tests, and how to interpret results. Provide practical advice on how to ensure adequate intake through diet or supplements and highlight the importance of consulting a healthcare provider for personalized recommendations.

## Medical Prompt 2

**Prompt: Fle**

Analyze a medical educator and explain the key differences between a cold and the flu. Discuss the symptoms, severity, and duration of each condition, and provide practical tips for managing symptoms at home. Use simple language to make the information accessible to a general audience.

## Medical Prompt 3

**Prompt: Immune system**

Analyze a nutritionist and explain how to strengthen the immune system through diet, exercise, sleep, and stress management. Provide specific examples of immune-boosting foods, types of exercise, and relaxation techniques. Discuss the science behind how these practices support immune function.

## Medical Prompt 4

**Prompt: Expired medications**

Analyze a pharmacist and explain the best practices for storing medications. Discuss the importance of proper storage conditions, such as temperature and humidity, and provide specific recommendations for common medications. Highlight safety tips to prevent accidental ingestion by children or pets.

## Medical Prompt 5

**Prompt: kids from getting sick at school**

Analyze a school health consultant and explain how parents can protect their children from getting sick at school. Discuss the role of vaccinations, hygiene practices, and nutrition in preventing illnesses. Provide actionable tips for parents to implement at home and communicate with schools.

## Medical Prompt 6

**Prompt: Common women's health issues**

Analyze a women’s health specialist and explain common health issues in women, such as reproductive health, breast cancer, and osteoporosis. Discuss the symptoms, risk factors, and prevention strategies. Provide practical advice for women to prioritize their health at different life stages.

## Medical Prompt 7

**Prompt: Health information online**

Analyze as a healthcare consultant and explain how to find reliable health information online. Discuss the characteristics of trustworthy sources, such as government

## Medical Prompt 8

**Prompt: Vitamins and Minerals**

Analyze a healthcare provider and explain how individuals can determine if they are getting enough vitamins and minerals. Discuss common signs of deficiencies, the role of blood tests, and how to ensure adequate intake through diet or supplements.

## Medical Prompt 9

**Prompt: Sleep apnea**

Analyze a sleep specialist and explain what sleep apnea is, including its types (obstructive and central), symptoms, and treatment options. Discuss the risks of untreated sleep apnea and provide practical advice for managing the condition

## Medical Prompt 10

**Prompt: Referral to a specialist?**

Analyze a Referrals to specialists are often required by health insurance plans. Can you explain how the referral process works, including when a referral is needed, how to request one, and what role a primary care physician plays in the process? Please provide a detailed, accurate, and easy-to-understand response suitable for someone seeking specialist care.

## Medical Prompt 11

**Prompt: Doctor during a checkup**

Analysis to Preparing questions for a doctor’s appointment can help ensure you get the most out of your checkup. Can you provide a list of important questions to ask your doctor during a routine checkup, including questions about test results, medications, and preventive care? Please provide a detailed, accurate, and easy-to-understand response suitable for someone preparing for a medical appointment.