



ChIRP is a secure chatbot enabling NIH staff to use generative AI for their day-to-day work.

Chat for Intramural Research Program (ChIRP) stores all data locally in the NIH data center and uses a secure NIH STRIDES cloud account to host AI models. This enables staff to use ChIRP Chat for sensitive data workloads including:

- De-identified and anonymized clinical data
- Pre-decisional and draft policy
- Nonpublic data including scientific data and draft manuscripts

Please note that these use cases are specific to ChIRP, which is different than public AI tooling like ChatGPT, Meta.AI, and Google Gemini. When using any public AI tooling, please follow [OCIO Guidance](#), which prohibits these sensitive workloads. Unlike the public tooling, data entered into ChIRP is not shared with Microsoft or OpenAI. This enables the sensitive workloads described above. Any questions, please contact CRISPI-LLM@od.nih.gov via email.

When using ChIRP, you must abide by these following guidelines:

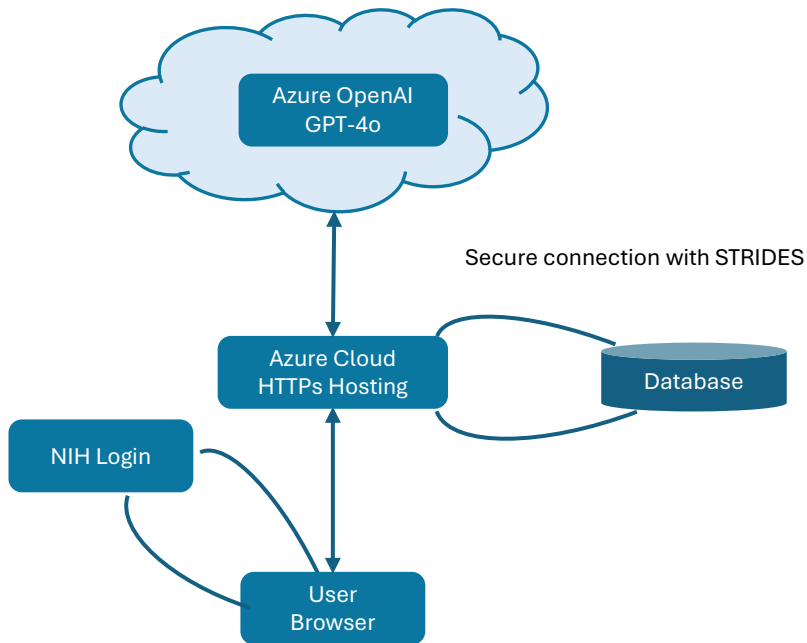
1. **Output Validation:** Review and validate outputs generated by ChIRP to ensure the application remains reliable, ethical, and valuable.
2. **Limitations and Biases:** Identify and report unfair, discriminatory, or inaccurate output patterns by the ChIRP.
3. **Ethical use:** Follow HHS and NIH policies including [OCIO Guidance](#), [HHS policy for Securing Artificial Intelligence \(AI\) Technology](#), [NOT-OD-23-149 prohibiting Generative AI for NIH Peer Review](#), and any other federal requirements.
4. **No PII:** PII is not permitted for use but not limited to genomic data, passport information, social security numbers, driver's license numbers, Military status, bank account information including credit card numbers, photographic identifiers, medical record numbers, & date of birth.
5. **Training Data:** ChIRP uses commercial models. It is not fine-tuned on NIH, OD, or biomedical topics. Do not expect ChIRP to have any internal knowledge of the NIH or OD.
6. **Incident Response:** Report any malicious use or activity during the use of ChIRP immediately.

By clicking on Proceed you are agreeing to the above terms and conditions.

[I Agree](#). Proceed

Process Narrative

- User Prompt ->
- Combining with Context ->
- Sending the Request ->
- LLM Generates the Reply ->
- Reply Sent Back to the Web Server ->
- Saving the Conversation ->
- Displaying the Response



Model or Interface

- Interface –
 - The view in your web browser that takes your message and shows the replies. It doesn't process or generate the response itself—it just sends your message to the model and displays the reply.
- Model –
 - The AI engine that actually generates the response. For NHLBI Chat, we use one of the pre-trained commercial “large language models” (llm) at Azure OpenAI such as GPT-3 or GPT-4.

Model Details

- Training & cutoff dates –
 - Models used in NHLBI Chat are commercial models, trained by OpenAI on general internet data (websites, forums, Wikipedia, etc.). Models are trained, tested and fine tuned for months or years. Once training is done, the model is frozen. They're not updated or retrained with new information. The “cutoff date” is the last date the training data was collected before training.
 - The model is not connected to the internet in real time. It can't perform searches or look up anything online. It relies entirely on what it already learned during its training period. Your interactions with NHLBI Chat are specific to you and not shared with other users. The model is never trained or fine tuned on your chats.

Random Nature of Responses

- Like Autocomplete –
 - These are probability models that predict the next, most reasonable word for the context.
 - Because it's predicting based on probabilities, there's usually some variation in the responses.
 - You probably won't get the exact same reply every time, even if you enter the same prompt.
- Hallucinations –
 - The data stored in an LLM is not fixed like in a database
 - These models may confidently and assertively generate accurate information.
 - It's always important to review the outputs carefully.

Prompting and Chat History

- What is Context –
 - The model knows nothing since the training cutoff date, so it's orientated to you via the prompt. You submit a message prompt, and the model replies – this is an exchange. To improve the model's understanding and context in the chat, when we send your prompt, we include some of your previous exchanges. The context we add is only from the exchanges of the current chat.
- What is Context LENGTH –
 - There is a context length limit, so working from the most recent exchange back, we only add exchanges up to that limit. That means the model can essentially “forget” what was discussed.
 - In NHLBI Chat, the current context lengths for the GPT-3.5 model is about 8,000 words. For the GPT-4o model the context length is approximately 24,000 words.



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Type your message...



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Let's discuss how to present the clinical trial phases here at NHLBI to high school students in an infographic.

What I would like to do is to pull out the text from the clinical trial phases section, and organize it into a more friendly set of 4 side-by-side, vertical HTML panels with bright colors and appealing design – appropriate for a high school science classroom.

Here below is the text from the public website for general audiences. You may notice that the content-length for the different trial phases is not well balanced. In the final output, please try to keep the text balanced. There is a lot that can be derived from the larger text, and from your own knowledge to fill out gaps.

...

What are clinical trials?

Clinical trials are medical studies that involve people like you. They help find new ways to prevent, detect, or treat diseases that are safe and effective. The National Heart, Lung, and Blood Institute (NHLBI) leads and supports many studies aimed at preventing, diagnosing, and treating heart, lung, blood, and sleep disorders.

Clinical trials are an important part of the research spectrum. The idea for a clinical trial often starts in the lab. After researchers test new treatments or procedures in the lab and in animals, the most promising treatments are moved into clinical trials. As studies about new treatments move through a series of steps called phases, researchers learn more information about the treatment, its risks, and its effectiveness.

Each clinical trial has criteria describing who can join. Children as well as adults, patients and healthy volunteers, and people of a diverse range of ethnic and racial backgrounds can and are encouraged to participate in clinical trials.

Clinical trials follow a protocol, a carefully designed plan to safeguard your health and answer specific research questions. The protocol describes what you will be doing and what you can expect from the research team. It is important to understand the risks and benefits of participation before joining. You also have rights and protections as a participant in clinical trials.

National Institutes of Health (NIH) Institutes and Centers, including the NHLBI, support many types of clinical trials that contribute to medical knowledge and practice. Clinical trials can be described in a number of different ways, including by their purpose or by phase.

Purpose of clinical trials



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Your message contains some special characters that might cause issues. Click OK to send the modified message or Cancel to edit your message.

Cancel OK



Become a new standard of medical practice in many cases, if you participate in a clinical or machine study, you will get information about the treatment, services

Ask the research team members if the study results have been or will be published. Published study results are also available by searching for the study's official name or Protocol ID number in the National Library of Medicine's PubMed® database.

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Phase I: Safety First

Researchers test a new medicine or treatment in a small group of people for the first time. The goal is to find the best dosage and to learn about any side effects.

Phase II: Effectiveness

In this phase, the treatment is given to a larger group to see if it works and to further study its safety. This phase helps determine how effective the treatment is.

Phase III: Large-Scale Testing

The new treatment is given to a much larger group of people to confirm its effectiveness, monitor side effects, and compare it with standard treatments or a placebo. This phase collects detailed information for safe use.

Phase IV: Post-Approval Monitoring

After the treatment is approved by the FDA and available to the public, researchers continue to track its safety and gather more information on its benefits and optimal use in the general population.



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Clinical Trial Infographic Plan

```
<div class="panel phase2">
  <h2>Phase II: Effectiveness</h2>
  <p>In this phase, the treatment is given to a larger group to see if it works and to further study its safety. This phas
</div>

<div class="panel phase3">
  <h2>Phase III: Large-Scale Testing</h2>
  <p>The new treatment is given to a much larger group of people to confirm its effectiveness, monitor side effects, and c
</div>

<div class="panel phase4">
  <h2>Phase IV: Post-Approval Monitoring</h2>
  <p>After the treatment is approved by the FDA and available to the public, researchers continue to track its safety and
</div>

</body>
</html>
```

This HTML structure organizes the clinical trial phases into four panels, each with a distinct background color to make them visually appealing. The content is concise and to the point, making it easy for high school students to understand the purpose and progression of each phase in clinical trials.

[Copy Raw Reply](#)



Actually I meant, a set of 4 side-by-side, vertical HTML panels.]



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Got it! Here's an example of how you can present the clinical trial phases in a set of 4 side-by-side, vertical HTML panels. I've added some CSS to make it visually appealing and appropriate for a high school science classroom.

```
HTML Copy Code
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Clinical Trial Phases</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f0f0f0;
      margin: 0;
      padding: 20px;
    }
    .container {
      display: flex;
      justify-content: space-around;
      flex-wrap: wrap;
    }
  </style>
</head>
<body>
  <div class="container">
    <div class="panel">
      <h3>Phase 1</h3>
      <p>Phase 1 description</p>
    </div>
    <div class="panel">
      <h3>Phase 2</h3>
      <p>Phase 2 description</p>
    </div>
    <div class="panel">
      <h3>Phase 3</h3>
      <p>Phase 3 description</p>
    </div>
    <div class="panel">
      <h3>Phase 4</h3>
      <p>Phase 4 description</p>
    </div>
  </div>
</body>
</html>
```



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Clinical Trial Phases

Phase 1

Phase 1 trials test a new treatment in a small group of people for the first time. The goal is to learn about the treatment's safety and identify any side effects.

Phase 2

Phase 2 trials focus on the effectiveness of the treatment. They involve more people than Phase 1 and gather preliminary data on whether the treatment works in people with a certain disease or condition.

Phase 3

Phase 3 trials involve large groups of people to confirm the treatment's effectiveness, monitor side effects, compare it to commonly used treatments, and collect information that will allow the treatment to be used safely.

Phase 4

Phase 4 trials take place after the treatment has been approved for use by the FDA. These studies continue testing the treatment to collect information about its effects in various populations and any side effects associated with long-term use.

Clinical Trial Phases

Phase 1

Phase 1 trials test a new treatment in a small group of people for the first time. The goal is to learn about the treatment's safety and identify any side effects.

Phase 2

Phase 2 trials focus on the effectiveness of the treatment. They involve more people than Phase 1 and gather preliminary data on whether the treatment works in people with a certain disease or condition.

Phase 3

Phase 3 trials involve large groups of people to confirm the treatment's effectiveness, monitor side effects, compare it to commonly used treatments, and collect information that will allow the treatment to be used safely.

Phase 4

Phase 4 trials take place after the treatment has been approved for use by the FDA. These studies continue testing the treatment to collect information about its effects in various populations and any side effects associated with long-term use.

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Document types accepted include PDF, XML, JSON, Word, Text, JPG, JPEG, PNG, GIF, and Markdown. At this time we do not support Excel or CSV files.



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- iCloud Dri...
- Network
- Tags
- Red
- Orange
- Yellow
- Green
- Blue

Choose Files to Upload

Test Uploads

Name	Date Modified	Size	Kind
ClinicalTrials.pdf	Today at 2:11 PM	272 KB	PDF Document
History_Textbook_100k_tokens.txt	Dec 23, 2024 at 12:24 PM	396 KB	text
History_Textbook.pdf	Dec 23, 2024 at 12:00 PM	483 KB	PDF Document
History_Textbook.txt	Dec 23, 2024 at 12:31 PM	447 KB	text
Physics_Textbook_100k_tokens.txt	Dec 23, 2024 at 12:55 PM	309 KB	text
Physics_Textbook.pdf	Dec 23, 2024 at 11:08 AM	28.4 MB	PDF Document

Cancel Upload



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Please summarize this file, and make sure to pull out any important facts we should discuss in preparation for my presentation on the topic tomorrow. |



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- These designs help collect scientifically accurate data.

6. Post-Trial Process:

- After a trial, researchers analyze the data to determine the significance and decide on further testing or implementation.
- Results are often published in scientific journals, featured in the news, and discussed at scientific meetings.

7. Participant Rights and Information:

- Participants have rights and protections, including being fully informed before consenting to join a trial.
- They may receive information about the treatment they received if they were part of a blinded study.

Important Discussion Points for Your Presentation:

- Emphasize the importance of clinical trials in medical advancements.
- Highlight the different phases and their specific purposes.
- Discuss the participant experience and the importance of informed consent.
- Explain the role of protocols and IRBs in ensuring safety.
- Describe the different trial designs and their significance in reducing bias.
- Mention the process of analyzing and publishing trial results.
- Stress the rights and protections of participants throughout the trial process.

These points should provide a comprehensive overview of how clinical trials work and their significance in medical research.

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Do you know anything about how HIPPA protections are supported in this context?



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Do you know anything about how HIPAA protections are supported in this context?



Yes, HIPAA (Health Insurance Portability and Accountability Act) protections are crucial in the context of clinical trials to ensure the privacy and security of participants' personal health information (PHI). Here are some key points on how HIPAA protections are supported in clinical trials:

- Informed Consent:**
 - Participants must be fully informed about how their PHI will be used and disclosed during the clinical trial. This is typically outlined in the informed consent form, which participants must review and sign before joining the trial.
- Authorization:**
 - Participants often need to provide specific authorization for the use and disclosure of their PHI for research purposes. This authorization is separate from the general consent to participate in the trial.
- De-identification:**
 - Researchers may de-identify PHI to protect participants' privacy. De-identified data lacks personal identifiers, making it more difficult to trace back to individual participants. This process involves removing specific identifiers such as names, addresses, and social security numbers.
- Limited Data Sets:**
 - Researchers may use "limited data sets" that exclude direct identifiers but may still include some potentially identifying information (e.g., dates of service, geographic information). In such cases, a data use agreement must be in place to ensure the recipient will protect the data and use it only for specific purposes.
- Minimum Necessary Standard:**



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- Participants often need to provide specific authorization for the use and disclosure of their PHI for research purposes. This authorization is separate from the general consent to participate in the trial.

3. **De-identification:**

- Researchers may de-identify PHI to protect participants' privacy. De-identified data lacks personal identifiers, making it more difficult to trace back to individual participants. This process involves removing specific identifiers such as names, addresses, and social security numbers.

4. **Limited Data Sets:**

- Researchers may use "limited data sets" that exclude direct identifiers but may still include some potentially identifying information (e.g., dates of service, geographic information). In such cases, a data use agreement must be in place to ensure the recipient will protect the data and use it only for specific purposes.

5. **Minimum Necessary Standard:**

- Under HIPAA, researchers must use or disclose only the minimum necessary PHI needed to achieve the research objectives. This standard helps limit the exposure of participants' PHI to only those who need it for the research.



Do HIPPA protections differ for the different phases?



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Do HIPAA protections differ for the different phases?



HIPAA protections for participants' personal health information (PHI) generally remain consistent across all phases of clinical trials. However, the implementation and focus on certain protections might vary slightly depending on the specific activities and data requirements of each phase. Here's a closer look at how HIPAA protections are applied across different phases of clinical trials:

1. Phase I:

- o **Focus:** Safety and dosage.
- o **HIPAA Protections:** Since this phase involves a small number of participants and focuses on safety, PHI such as medical history and detailed health assessments are collected and protected. Informed consent and authorization for PHI use are critical at this stage.

2. Phase II:

- o **Focus:** Efficacy and side effects.
- o **HIPAA Protections:** More participants are involved, and researchers collect detailed health data to evaluate the treatment's effectiveness. Protection measures, including de-identification and secure data handling, are emphasized to manage the increased volume of PHI.

3. Phase III:

- o **Focus:** Confirmation of effectiveness, monitoring side effects, and comparison with standard treatments.
- o **HIPAA Protections:** This phase involves a large number of participants, so robust data security measures are crucial. Researchers ensure that PHI is used and disclosed only for necessary purposes, maintaining rigorous adherence to the minimum necessary standard.



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I need a MariaDB database that can help my team quickly lookup HIPAA regs closely associated with specific trial phases. We'll need a table to store the regs, and a basic table for associated phases, and then a one-to-many table to join them. Once we settle on the schema, then we can look at presentation.



Certainly! Below is a schema for a MariaDB database that you can use to store and look up HIPAA regulations associated with specific trial phases. This schema includes three tables: one for storing regulations, one for storing trial phases, and a join table to associate regulations with phases.

1. Table: **hipaa_regulations**

This table will store the details of the HIPAA regulations.

SQL

Copy Code

```
CREATE TABLE hipaa_regulations (  
  reg_id INT AUTO_INCREMENT PRIMARY KEY,  
  reg_name VARCHAR(255) NOT NULL,  
  reg_description TEXT NOT NULL  
);
```

2. Table: **trial_phases**

This table will store the details of the trial phases.

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 Can you give me a PHP include file that can act on the basic CRUD requirements for this lookup?



Certainly! Below is a PHP include file that provides basic CRUD (Create, Read, Update, Delete) functionality for managing HIPAA regulations and their association with trial phases in your MariaDB database. This file assumes that you have already set up your database and tables as described above.

```
PHP Copy Code
<?php
// Database connection settings
$servername = "localhost";
$username = "your_username";
$password = "your_password";
$dbname = "your_database";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
```



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Please draft an email announcement to the team about the new application. We'll launch on January 23rd. This will be a real game changer for them.



Certainly! Below is a draft email announcement to your team about the new application launch:

Subject: Exciting News! New HIPAA Regulation Lookup Application Launching Soon!

Dear Team,

I am thrilled to announce that we will be launching our new HIPAA Regulation Lookup Application on [Launch Date]!

This new application is designed to streamline our workflow and provide quick and easy access to HIPAA regulations associated with specific clinical trial phases. Here are some of the key features that you can look forward to:

- **Efficient Data Retrieval:** Quickly look up HIPAA regulations related to various trial phases, making your research and compliance tasks faster and more efficient.
- **User-Friendly Interface:** Intuitive design to ensure that you can navigate and utilize the application with ease.
- **Comprehensive Database:** Access a robust database of HIPAA regulations and trial phases, all in one place.
- **Secure and Reliable:** Built with security in mind to protect sensitive information and ensure reliable performance.

We believe this application will be a real game changer for our team, enhancing our ability to manage and comply with HIPAA regulations effectively.

We encourage you to familiarize yourself with the application once it goes live. Training sessions and support materials will be provided to help you get started and make the most out of this new tool



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I should have mentioned that this is the NHLBI Clinical Trials Communications Team. We'll begin training on January 12.



Got it! Here's the revised email announcement tailored for the NHLBI Clinical Trials Communications Team, including details about the training:

Subject: Exciting News! New HIPAA Regulation Lookup Application Launching Soon!

Dear NHLBI Clinical Trials Communications Team,

I am thrilled to announce that we will be launching our new HIPAA Regulation Lookup Application on [Launch Date]!

This new application is designed to streamline our workflow and provide quick and easy access to HIPAA regulations associated with specific clinical trial phases. Here are some of the key features that you can look forward to:

- **Efficient Data Retrieval:** Quickly look up HIPAA regulations related to various trial phases, making your research and compliance tasks faster and more efficient.
- **User-Friendly Interface:** Intuitive design to ensure that you can navigate and utilize the application with ease.
- **Comprehensive Database:** Access a robust database of HIPAA regulations and trial phases, all in one place.
- **Secure and Reliable:** Built with security in mind to protect sensitive information and ensure reliable performance.

We believe this application will be a real game changer for our team, enhancing our ability to manage and comply with HIPAA regulations effectively.

To ensure that everyone is well-prepared to use the new application, we will begin training on [Training Start Date]. Training sessions will provide an overview of the application's features,



Type your message...



Select Model: GPT-4o

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Thank you

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