

User Stories, User Flows,  
Mocks - 7/1/2025

# Step 1 - Welcome/Home Page

Home page when the user opens up the application

-its important to have this home page/initial user experience for the user to understand the system and immediately can become productive and get value from the the health insight system..

-To accomplish this we see the command center on teh left panel, instructions and text box for health query in the middl epnael

-Right panels show th emedical team architecture (more for demo purpusoes)

### Health Insight Assistant

Powered by Multi-Agent AI • Snowflake Cortex

Welcome to Your Health Command Center

Medical Team Status: Ready

Meet Your Medical Team

Dr. Vitality, MD Chief Medical Officer

"I coordinate your entire care team to ensure comprehensive health insights."

Your Specialist Network:

- Cardiology
- Laboratory Medicine
- Data Analysis
- Endocrinology
- Preventive Medicine
- + 3 more specialists

Try These Example Questions:

- What's my 15-year cholesterol trend?
- Medication adherence vs cholesterol correlation
- Show my abnormal lab results this year
- HbA1c, metformin & weight correlation

Here's how we work:

- You ask a health question
- I analyze and assemble the right specialists
- My team investigates in parallel
- We deliver comprehensive insights

Analyze years of health records

Identify patterns and trends

Evidence-based recommendations

Create visual health insights

Medical Team Status: Ready

### Your Medical Team Architecture

Cardiology Dr. Heart Ready

Laboratory Medicine Dr. Lab Ready

Endocrinology Dr. Hormone Ready

Dr. Vitality (CMO) Orchestrates & Delegates

Data Analysis Dr. Analytics Ready

Preventive Medicine Dr. Prevention Ready

Pharmacy Dr. Pharma Ready

Powered by:

- Anthropic Claude Opus 4
- Snowflake Cortex AI
- Multi-Agent Orchestration

Demo Tip: Try complex questions to see multiple specialists collaborate!

George Vetticaden Last checkup: 2 weeks ago

GV

# Step 2 - User selects quick query from the 'Try These Examples Question'

User selects the quick query: "What's my cholesterol trend..."

The system automatically submits that health query

**Health Insight Assistant**  
Powered by Multi-Agent AI • Snowflake Cortex

Welcome to Your Health Command Center

Medical Team Status: Ready

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Chief Medical Officer

"I coordinate your entire care team to ensure comprehensive health insights."

Your Specialist Network:

- Cardiology
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- + Endocrinology
- + Preventive Medicine
- + 3 more specialists

Try These Example Questions:

- Heart icon: What's my cholesterol trend over the last 15 years? I want to see trends across the top 4 cholesterol metrics including Triglycerides across that time period (standard)  
Complexity: Standard
- Medication adherence vs cholesterol correlation
- Test tube icon: Show my abnormal lab results this year

Medical Team Status: Ready

Medical Team Architecture

- Cardiology Dr. Heart Ready
- Laboratory Medicine Dr. Lab Ready
- Endocrinology Dr. Hormone Ready
- Dr. Vitality (CMO) Orchestrates & Delegates
  - Data Analysis Dr. Analytics Ready
  - Preventive Medicine Dr. Prevention Ready
  - Pharmacy Dr. Pharma Ready

Powered by:

- Anthropic Claude Opus 4
- Snowflake Cortex AI
- Multi-Agent Orchestration

Demo Tip: Try complex questions to see multiple specialists collaborate!

# Step 3 - User Taken to the 3-Panel Agent/Chat page with Question submitted and CMO Agent does initial assesment

3-panel layout:

- left panel is different conversation threads (note that the system automatically created a logical name for the conversation)
- middle panel → chat. We see the health query submitted and the CMO doing an initial query by making a tool call to execute\_health\_query\_v2

- right panel - consists of different tab for context sensitive things that happen in teh agent chat page. In this case we see the 'Medical Team' tab which is broken up into sections:

- Team Hierarchy & Status - This will in real-time show the medical team working on your query and their realtime updates

- Analysis Results - When any activity is finished by member o the medical team it is captured in teh Anlaysis Results section of the Medical Team Panel

- when visualization needs to be displayed for a given health query, new tab will open in this right panel

The screenshot displays a 3-panel interface for a medical consultation.

**Left Panel (Health Insight Assistant):**

- Header: Health Insight Assistant, Powered by Multi-Agent AI • Snowflake Cortex
- Buttons: + New Health Conversation, Search conversations...
- Filters: Lab Results, Medications, Conditions
- Section: TODAY
  - > Cholesterol Analysis: What's my cholesterol trend over the last 15 years? I want to see trends across the top 4 cholesterol metrics including Triglycerides across that time period (standard)

**Middle Panel (Chat):**

- Message from User: What's my cholesterol trend over the last 15 years? I want to see trends across the top 4 cholesterol metrics including Triglycerides across that time period (standard)
- Message from System: Medical Team Consultation Starting. Chief Medical Officer is reviewing your query...
- Message from System: CMO is accessing your health records to understand available data... (Tool Call: execute\_health\_query\_v2)
- Message from System: CMO is analyzing your query...

**Right Panel (Medical Team):**

- User Profile: George Vetticaden, Last checkup: 2 weeks ago, GV
- Header: Medical Team
- Section: TEAM HIERARCHY & STATUS
  - Dr. Vitality (Chief Medi...)
- Section: Dr. Vitality - Chief Medical Officer
  - Agent: 30% Overall: 30%
  - Current task: Accessing health records...
  - Agent Progress: 30%
  - Overall Team Progress: 30%
- Section: ANALYSIS RESULTS
  - No completed analyses yet
  - Analyses will appear here as specialists complete their work

# Step 3a - CMO labels query complexity as Standard and based on initial analysis and query complexity, creates a medical team of specialists

Based on initial assessment and the query complexity, CMO creates custom medical team of specialists to answer this query. The CMO provides each specialist a set of tasks to perform.

The screenshot illustrates the workflow for creating a medical team of specialists based on a user query. On the left, the Health Insight Assistant interface shows a conversation with the CMO. The user asks about cholesterol trends over 15 years. The CMO initiates a "Medical Team Consultation Starting" and performs a "Tool Call: execute\_health\_query\_v2". The CMO's assessment is complete, and the complexity is labeled as "STANDARD". On the right, the "Medical Team" dashboard shows the team hierarchy and status. Dr. Vitality, the Chief Medical Officer, is assigned to the task of assigning specialists based on complexity, with both agent and overall progress at 75%. The analysis results section indicates no completed analyses yet.

Health Insight Assistant  
Powered by Multi-Agent AI • Snowflake Cortex

+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

What's my cholesterol trend over the last 15 years? I want to see trends across the top 4 cholesterol metrics including Triglycerides across that time period (standard)

14:56

Medical Team Consultation Starting  
Chief Medical Officer is reviewing your query...

14:56

CMO is accessing your health records to understand available data...  
<> Tool Call: execute\_health\_query\_v2

14:56

CMO assessment complete - health data accessed successfully

14:56

Creating Medical Team Strategy  
Complexity Assessment: STANDARD  
Assigning specialists based on your query...

14:56

CMO is analyzing your query...

George Vetticaden Last checkup: 2 weeks ago GV

Medical Team

TEAM HIERARCHY & STATUS

Query 1

Dr. Vitality Chief Medi...

Dr. Vitality - Chief Medical Officer Agent: 75% Overall: 75%  
Current task: Assigning specialists based on complexity  
Agent Progress  
Overall Team Progress

75% 75%

ANALYSIS RESULTS

No completed analyses yet  
Analyses will appear here as specialists complete their work

# Step 4 - CMO Assembles the Medical Team and we see the right panel - Team Hierarchy updated with medical team. Dr. Heart has started initial

-System provides the user with the Medical Team constructed to answer the health query in the right panel → team hierarchy & status section

-Team Hierarchy section also provides information about what specialists are working on the task and its status in real time

-We See Dr. Heart doing initial analysis and its progress

-We see any analysis already completed show up the Analysis Results

The screenshot displays the Health Insight Assistant interface. On the left, a sidebar shows a search bar, three tabs (Lab Results, Medications, Conditions), and a cholesterol analysis section. The main area shows a conversation log with the following messages:

- 14:56: CMO assessment complete - health data accessed successfully
- 14:56: Creating Medical Team Strategy  
Complexity Assessment: STANDARD  
Assigning specialists based on your query...
- 14:56: Medical Team Assembled  
Your consultation will include:
  - Cardiology - Analyze complete 15-year cholesterol trends including Total Cholesterol, LDL, HDL, and Triglycerides...
  - Endocrinology - Investigate metabolic factors contributing to extreme triglyceride fluctuations (51-426 mg/dL) and c...
  - Data Analysis - Create comprehensive statistical analysis and visualization of 15-year lipid trends showing correlat...
- 14:56: Specialists Beginning Analysis  
Each specialist will query your health records for relevant data...
- 14:56: Cardiology is analyzing your health data...
- 14:56: Specialists are analyzing your health data...

On the right, the "Medical Team" panel shows the team hierarchy and status. It includes a header for "Medical Team" with a notification bell and user info (George Vetticaden, last checkup: 2 weeks ago). The "TEAM HIERARCHY & STATUS" section shows a network of specialists: Dr. Heart (Cardiology, 10%), Dr. Horm... (Endocrinol..., 10%), Dr. Analy... (Data Analy..., 10%), and Dr. Vitality (Chief Medi..., 100%). A legend indicates waiting (grey), active (blue), and complete (green) tasks. Below this, a detailed view for Dr. Heart - Cardiology shows the current task as "Starting analysis..." with agent and overall progress bars at 10%. The "ANALYSIS RESULTS" section shows a summary for Dr. Vitality: "Team strategy complete" with 100% confidence.

# Step 4a - Dr. Heart has completed and Dr. Hormone is at work

Team Hierarchy and Status marks Dr. Heart has completed the work and now shows. Dr. Hormone at work

The screenshot displays the Health Insight Assistant interface, showing a medical consultation process and a team hierarchy.

**Health Insight Assistant** (Powered by Multi-Agent AI • Snowflake Cortex)

**Complexity Assessment: STANDARD**  
Assigning specialists based on your query...  
14:56

**Medical Team Assembled**  
Your consultation will include:

1. **Cardiology** - Analyze complete 15-year cholesterol trends including Total Cholesterol, LDL, HDL, and Triglycerides...
2. **Endocrinology** - Investigate metabolic factors contributing to extreme triglyceride fluctuations (51-426 mg/dL) and c...
3. **Data Analysis** - Create comprehensive statistical analysis and visualization of 15-year lipid trends showing correlat...

**Specialists Beginning Analysis**  
Each specialist will query your health records for relevant data...  
14:56

**Cardiology** is analyzing your health data...  
14:56

**Cardiology completed analysis (1 queries executed, 85% confidence)**  
14:57

**Endocrinology** is analyzing your health data...  
14:57

**Specialists are analyzing your health data...**

**Medical Team**

**TEAM HIERARCHY & STATUS**

- Dr. Heart** Cardiology 85% (Completed)
- Dr. Horm... Endocrinol...** 10% (In Progress)
- Dr. Vitality** Chief Medical Officer 100% (Completed)
- Dr. Analy... Data Analy...** 0% (Not Started)

Waiting: 1 Active: 1 Complete: 1

**Dr. Hormone - Endocrinology** Agent: 10% Overall: 55%  
Current task: Starting analysis...  
Agent Progress  
Overall Team Progress 55%

**ANALYSIS RESULTS**

- Dr. Vitality** - Chief Medical Officer 100% confidence  
Team strategy complete
- Dr. Heart** - Cardiology 85% confidence  
Analysis complete with 85% confidence  
1 queries executed

# Step 4b - Dr. Hormone has completed and Dr. Analysis is at work

XXX

**Health Insight Assistant**  
Powered by Multi-Agent AI • Snowflake Cortex

+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

1. ❤️ Cardiology - Analyze complete 15-year cholesterol trends including Total Cholesterol, LDL, HDL, and Triglycerides...  
2. 💉 Endocrinology - Investigate metabolic factors contributing to extreme triglyceride fluctuations (51-426 mg/dL) and c...  
3. 📊 Data Analysis - Create comprehensive statistical analysis and visualization of 15-year lipid trends showing correlat...

14:56

Specialists Beginning Analysis  
Each specialist will query your health records for relevant data...

14:56

心脏病学正在分析您的健康数据...

14:56

心脏病学完成分析 (1条查询执行, 85% 置信度)

14:57

内分泌学正在分析您的健康数据...

14:57

内分泌学完成分析 (1条查询执行, 85% 置信度)

14:57

数据分析正在分析您的健康数据...

14:57

Specialists are analyzing your health data...

Medical Team

TEAM HIERARCHY & STATUS

Dr. Heart Cardiology 85%  
Dr. Hormone Endocrinology 85%  
Dr. Vitality Chief Med... 100%  
Dr. Analytics Data Analysis 10%

Waiting: 0 Active: 1 Complete: 2

Dr. Analytics - Data Analysis  
Current task: Starting analysis... Agent: 10% Overall: 70%  
Agent Progress 10%  
Overall Team Progress 70%

ANALYSIS RESULTS

Dr. Vitality · Chief Medical Officer 100% confidence  
Team strategy complete

Dr. Heart · Cardiology 85% confidence  
Analysis complete with 85% confidence  
1 queries executed

Dr. Hormone · Endocrinology 85% confidence  
Analysis complete with 85% confidence  
1 queries executed

# Step 5 - All specialists complete work and Dr. Vitality, the CMO, is doing synthesis and analysis of all the results from the specialists

Dr. Vitality, CMO, does synthesis of all data from the specialists and provides a comprehensive summary to answer the health query

-We see the summary answer presented in the agent chat to the user

The screenshot displays two main interfaces. On the left is the 'Health Insight Assistant' interface, which includes a sidebar with 'Lab Results', 'Medications', and 'Conditions' buttons, and a main panel titled 'Your 15-Year Cholesterol Trend Analysis'. This panel details findings for HDL, Triglycerides, and Total Cholesterol, mentioning trends from 2010-2025. At the bottom, a progress bar indicates 'CMO is synthesizing findings...' with a 90% completion rate. On the right is a 'Medical Team' dashboard showing a 'TEAM HIERARCHY & STATUS' diagram where Dr. Vitality (Chief Medical Officer) is at the center, connected to Dr. Heart (Cardiology), Dr. Horm... (Endocrinology), and Dr. Analy... (Data Analysis). Below this, a detailed view for Dr. Vitality shows a 'Current task: Creating comprehensive analysis...' with an overall progress of 100% and a status message 'Synthesizing findings from all specialists...'. The top right corner of the dashboard shows the user's name 'George Vetticaden' and a 'Last checkup: 2 weeks ago' message.

# Step 6 - Visualization Agent is now creating a dynamic code artifact for visualization key insights

**Health Insight Assistant**  
Powered by Multi-Agent AI • Snowflake Cortex

+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

14:58

Generating interactive visualization of your health data...

14:58

CMO is synthesizing findings...

• 150 minutes or aerobic exercise weekly  
• Weight reduction if applicable  
• Limit alcohol intake

**4. Additional testing needed:**

- Complete lipid panel including LDL
- Fasting insulin levels
- Thyroid function tests
- Cardiovascular risk calculator assessment

**The Good News:**

Your 2021-2023 results prove you CAN achieve excellent lipid control. During this period, you had optimal triglycerides (51 mg/dL) and improved HDL (up to 47 mg/dL). This shows your body responds well to proper treatment and lifestyle changes.

**Bottom Line:**

Your 15-year trend shows a pattern of metabolic dysfunction with recent deterioration after a period of good control. The combination of persistently low HDL, volatile triglycerides, and developing prediabetes requires immediate attention to prevent cardiovascular complications. The fact that you achieved excellent control in 2021-2023 is encouraging - you need to work with your healthcare team to understand what changed and get back on track.

Please schedule an appointment with your primary care physician or cardiologist within the next 2-4 weeks to discuss these findings and develop a comprehensive treatment plan. Given your history of extreme triglyceride elevations (over 400), this is not something to delay.

Medical Team Visualization

Query 1

**React Component**

Streaming code...

```
const HealthVisualization = () => {  
  const [selectedMetrics, setSelectedMetrics] = useState({  
    hdl: true,  
    triglycerides: true,  
    total: true,  
    ldl: true  
  });  
  
  // Extract exact data from the medical analysis  
  const rawData = [  
    { date: "2010-01-01", hdl: 20, triglycerides: 180, total: 170, ldl: 114 },  
    { date: "2011-01-01", hdl: 23, triglycerides: 210, total: 178, ldl: 108 },  
    { date: "2012-01-01", hdl: 25, triglycerides: 290, total: 185, ldl: 102 },  
    { date: "2013-12-23", hdl: 20, triglycerides: 426, total: 163, ldl: 84 },  
    { date: "2014-03-12", hdl: 27, triglycerides: 390, total: 133, ldl: 70 },  
    { date: "2015-01-01", hdl: 30  
  ]};
```

Visualization will appear when code is complete

# Step 6a - Visualization Agent renders Visualization from the dynamically generated code

After visualization agent has streamed all the code for teh visualization it then renders the react code

-Notice the rich visualization that add more context to the summary provided by the CMO

**Health Insight Assistant**  
Powered by Multi-Agent AI · Snowflake Cortex

+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

• Cardiovascular risk calculator assessment

**The Good News:**

Your 2021-2023 results prove you CAN achieve excellent lipid control. During this period, you had optimal triglycerides (51 mg/dL) and improved HDL (up to 47 mg/dL). This shows your body responds well to proper treatment and lifestyle changes.

**Bottom Line:**

Your 15-year trend shows a pattern of metabolic dysfunction with recent deterioration after a period of good control. The combination of persistently low HDL, volatile triglycerides, and developing prediabetes requires immediate attention to prevent cardiovascular complications. The fact that you achieved excellent control in 2021-2023 is encouraging - you need to work with your healthcare team to understand what changed and get back on track.

Please schedule an appointment with your primary care physician or cardiologist within the next 2-4 weeks to discuss these findings and develop a comprehensive treatment plan. Given your history of extreme triglyceride elevations (over 400), this is not something to delay.

[Visualization rendered in side panel]

14:58 Generating interactive visualization of your health data...

14:58

Medical Team Consultation Summary

Team Composition: 3 medical specialists Data Queries Executed: 3 targeted health queries Overall Confidence: 88% Key Recommendations: 10 Areas of Concern: 14 Your medical team has completed a thorough analysis of your health data.

14:59

Ask about your health data... Send

George Vetticaden Last checkup: 2 weeks ago GV

Medical Team

Visualizations

Query 1

### 15-Year Cholesterol Trend Analysis

Tracking your top 4 cholesterol metrics from 2010-2025

HDL Cholesterol: 33 mg/dL (Target: <40 (men), <50 (women)) Good Cholesterol - Consistently Low

Triglycerides: 153 mg/dL (Target: <150) Extreme Volatility

Total Cholesterol: 149 mg/dL (Target: <200) Variable but Improving

LDL Cholesterol: N/A (Target: <100) No Recent Data

### Cholesterol Trends Over Time

Legend: HDL Cholesterol (blue), Triglycerides (orange), Total Cholesterol (green), LDL Cholesterol (red)

Dec 2010 Dec 2013 Dec 2014 Dec 2016 Dec 2018 Dec 2020 Dec 2022 Apr 2025

Legend: HDL (Good) Triglycerides Total Cholesterol LDL (Bad)

# Step 7 - User submits a second/follow up query in the same conversation

In the agent chat page, user submits a follow up query question:

Analyze cholesterol relevant medication adherence patterns over that time period and how do they correlate with these cholesterol lab results.

**Health Insight Assistant**  
Powered by Multi-Agent AI - Snowflake Cortex

+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

• Cardiovascular risk calculator assessment

**The Good News:**

Your 2021-2023 results prove you CAN achieve excellent lipid control. During this period, you had optimal triglycerides (51 mg/dL) and improved HDL (up to 47 mg/dL). This shows your body responds well to proper treatment and lifestyle changes.

**Bottom Line:**

Your 15-year trend shows a pattern of metabolic dysfunction with recent deterioration after a period of good control. The combination of persistently low HDL, volatile triglycerides, and developing prediabetes requires immediate attention to prevent cardiovascular complications. The fact that you achieved excellent control in 2021-2023 is encouraging - you need to work with your healthcare team to understand what changed and get back on track.

Please schedule an appointment with your primary care physician or cardiologist within the next 2-4 weeks to discuss these findings and develop a comprehensive treatment plan. Given your history of extreme triglyceride elevations (over 400), this is not something to delay.

[Visualization rendered in side panel]

14:58 Generating interactive visualization of your health data...

14:58 Medical Team Consultation Summary

Team Composition: 3 medical specialists Data Queries Executed: 3 targeted health queries Overall Confidence: 88% Key Recommendations: 10 Areas of Concern: 14 Your medical team has completed a thorough analysis of your health data.

14:59 Analyze cholesterol relevant medication adherence patterns

Send

The screenshot shows the Health Insight Assistant interface. On the left, a sidebar lists 'Lab Results', 'Medications', and 'Conditions'. A main panel displays a 'Cholesterol Analysis' card with a message about achieving excellent lipid control. Below it is a 'Medical Team Consultation Summary' card detailing the team composition (3 specialists), data queries (3), overall confidence (88%), key recommendations (10 areas of concern), and a note that the medical team has completed a thorough analysis. At the bottom, a message box contains the query 'Analyze cholesterol relevant medication adherence patterns' with a 'Send' button. On the right, a separate window titled 'Medical Team' shows a team hierarchy with four members: Dr. Heart (Cardiology, 85%), Dr. Hormone (Endocrinology, 85%), Dr. Vitality (Chief Medical Officer, 100%), and Dr. Analytics (Data Analysis, 95%). The status bar indicates 'Waiting: 0', 'Active: 0', and 'Complete: 3'.

# Step 8 - CMO analyzes the query, does initial analysis, and classifies Query as Complex

CMO does initial analysis by making a tool call: execute\_ehealth\_query that calls Snowflake Cortex and executes SQL generated from Cortex and executes it against the Snowflake Warehouse

CMO classifies the query as complex that will dictate the type of medical team that is constructed (larger team)

The screenshot displays two main components: the Health Insight Assistant interface on the left and a Medical Team dashboard on the right.

**Health Insight Assistant (Left):**

- Header:** Health Insight Assistant, Powered by Multi-Agent AI • Snowflake Cortex
- Actions:** + New Health Conversation, Search conversations..., Lab Results, Medications, Conditions
- Timeline:**
  - 14:58: Medical Team Consultation Summary  
Team Composition: 3 medical specialists Data Queries Executed: 3 targeted health queries  
Overall Confidence: 88% Key Recommendations: 10 Areas of Concern: 14  
Your medical team has completed a thorough analysis of your health data.
  - 14:59: Analyze cholesterol relevant medication adherence patterns over that time period and how do they correlate with these cholesterol lab results.
  - 15:01: Medical Team Consultation Starting  
Chief Medical Officer is reviewing your query...
  - 15:01: CMO is assessing your health records to understand available data...  
<> Tool Call: execute\_health\_query\_v2
  - 15:02: CMO assessment complete - health data accessed successfully
  - 15:02: Creating Medical Team Strategy  
Complexity Assessment: **COMPLEX**  
Assigning specialists based on your query...
  - 15:02: CMO is analyzing your query...

**Medical Team Dashboard (Right):**

- Header:** George Vettaden, Last checkup: 2 weeks ago, GV
- Sections:**
  - Medical Team:** TEAM HIERARCHY & STATUS, Dr. Vitality (Chief Medi...)
  - Dr. Vitality - Chief Medical Officer:** Current task: Assigning specialists based on complexity, Agent Progress (75%), Overall Team Progress (75%)
  - ANALYSIS RESULTS:** No completed analyses yet, Analyses will appear here as specialists complete their work

# Step 9 - CMO assembles a medical Team - Larger Specialist team due to more complex query

Note that the CMO has assembled a larger team with more specialists than the previous query due to the complexity of the query (5 specialists instead of 3).

In the Team Hierarchy and Status section of the Medical Team tab, we see the full assembled team and Dr. Vitality starting to orchestrate work across the different specialists.

Dr. Heart is the first specialist that the CMO calls and starts initial work.

The screenshot displays two main sections: the Health Insight Assistant interface on the left and the Medical Team dashboard on the right.

**Health Insight Assistant (Left):**

- Header:** Health Insight Assistant, Powered by Multi-Agent AI - Snowflake Cortex.
- Actions:** + New Health Conversation, Search conversations..., Lab Results, Medications, Conditions.
- Timeline:**
  - 15:01: CMO assessment complete - health data accessed successfully
  - 15:02: Creating Medical Team Strategy, Complexity Assessment: COMPLEX, Assigning specialists based on your query...
  - 15:02: Medical Team Assembled, Your consultation will include:
    - Cardiology - Analyze complete cholesterol lab result trends from 2013 to present and correlate with medication changes...
    - Pharmacy - Map complete medication timeline for all cholesterol medications and analyze adherence patterns throughout...
    - Endocrinology - Evaluate metabolic factors that may be contributing to lipid abnormalities, particularly the persist...
    - Data Analysis - Perform statistical correlation analysis between medication adherence indicators and cholesterol lab...
    - Preventive Medicine - Assess cardiovascular risk profile evolution and determine if current lipid management aligns with r...
  - 15:02: Specialists Beginning Analysis, Each specialist will query your health records for relevant data...
  - 15:02: Cardiology is analyzing your health data...
- Bottom:** Specialists are analyzing your health data...

**Medical Team (Right):**

- Header:** Medical Team, Visualization, Query 2 of 2.
- Team Hierarchy & Status:** A hierarchical diagram showing the team structure. Dr. Vitality (Chief Medical Officer) is at the top, connected to Dr. Heart (Cardiology), Dr. Pharmacy (Pharmacy), Dr. Horm... (Endocrinology), Dr. Analy... (Data Analysis), and Dr. Preve... (Preventive Medicine). Progress bars indicate completion levels: Dr. Vitality (100%), Dr. Heart (10%), Dr. Pharmacy (10%), Dr. Horm... (10%), Dr. Analy... (10%), and Dr. Preve... (10%).
  - Dr. Heart (Cardiology): Agent: 10%, Overall: 10%. Current task: Starting analysis...
  - Dr. Pharmacy (Pharmacy): Agent: 10%, Overall: 10%. Current task: Starting analysis...
  - Dr. Horm... (Endocrinology): Agent: 10%, Overall: 10%. Current task: Starting analysis...
  - Dr. Analy... (Data Analysis): Agent: 10%, Overall: 10%. Current task: Starting analysis...
  - Dr. Preve... (Preventive Medicine): Agent: 10%, Overall: 10%. Current task: Starting analysis...
- Analysis Results:** Dr. Vitality (Chief Medical Officer) - Team strategy complete, 100% confidence.

# Step 9a - Dr. Heart Completes analysis and Dr. Pharma Starts

XXX

**Health Insight Assistant**  
Powered by Multi-Agent AI • Snowflake Cortex

+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

Complexity Assessment: COMPLEX  
Assigning specialists based on your query...

15:02

**Medical Team Assembled**  
Your consultation will include:

1. **Cardiology** - Analyze complete cholesterol lab result trends from 2013 to present and correlate with medication ch...
2. **Pharmacy** - Map complete medication timeline for all cholesterol medications and analyze adherence patterns thro...
3. **Endocrinology** - Evaluate metabolic factors that may be contributing to lipid abnormalities, particularly the persist...
4. **Data Analysis** - Perform statistical correlation analysis between medication adherence indicators and cholesterol lab...
5. **Preventive Medicine** - Assess cardiovascular risk profile evolution and determine if current lipid management aligns with r...

15:02

**Specialists Beginning Analysis**  
Each specialist will query your health records for relevant data...

15:02

**Cardiology** is analyzing your health data...

15:02

Cardiology completed analysis (1 queries executed, 85% confidence)

15:03

**Pharmacy** is analyzing your health data...

15:03

Specialists are analyzing your health data...

George Vetticaden Last checkup: 2 weeks ago GV

Medical Team Visualization

TEAM HIERARCHY & STATUS

Dr. Heart Cardiology 85% (Green)

Dr. Pharma Pharmacy 10% (Blue)

Dr. Vitality Chief Med... 100% (Green)

Dr. Analy... Data Analy... (Yellow)

Dr. Preve... Preventive ... (Blue)

Dr. Horm... Endocrinol... (Purple)

Waiting: 3 Active: 1 Complete: 1

**Dr. Pharma - Pharmacy** Agent: 10% Overall: 55%  
Current task: Starting analysis...  
Agent Progress 10%  
Overall Team Progress 55%

**ANALYSIS RESULTS**

Dr. Vitality - Chief Medical Officer 100% confidence  
Team strategy complete

Dr. Heart - Cardiology 85% confidence  
Analysis complete with 85% confidence  
1 queries executed

# Step 9b - Dr. Pharma Completes analysis and Dr. Hormone Starts

XXX

**Health Insight Assistant**  
Powered by Multi-Agent AI • Snowflake Cortex

+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

Your consultation will include:

1. **Cardiology** - Analyze complete cholesterol lab result trends from 2013 to present and correlate with medication ch...
2. **Pharmacy** - Map complete medication timeline for all cholesterol medications and analyze adherence patterns thro...
3. **Endocrinology** - Evaluate metabolic factors that may be contributing to lipid abnormalities, particularly the persist...
4. **Data Analysis** - Perform statistical correlation analysis between medication adherence indicators and cholesterol lab...
5. **Preventive Medicine** - Assess cardiovascular risk profile evolution and determine if current lipid management aligns with r...

15:02

Specialists Beginning Analysis  
Each specialist will query your health records for relevant data...

15:02

Cardiology is analyzing your health data...

15:02

✓ Cardiology completed analysis (1 queries executed, 85% confidence)

15:03

Pharmacy is analyzing your health data...

15:03

✓ Pharmacy completed analysis (1 queries executed, 70% confidence)

15:03

Endocrinology is analyzing your health data...

15:03

Specialists are analyzing your health data...

George Vetticaden Last checkup: 2 weeks ago GV

Medical Team Visualization Query 2 of 2

TEAM HIERARCHY & STATUS

```
graph TD; MT[Medical Team] --- DT[Dr. Heart Cardiology 85%]; MT --- DP[Dr. Pharma Pharmacy 70%]; MT --- DV[Dr. Vitality Chief Medi... 100%]; DV --- DA[Dr. Analy... Data Analy...]; DV --- DPV[Dr. Preve... Preventive ...]; DV --- DH[Dr. Horm... Endocrinol... 10%]
```

Waiting: 2 Active: 1 Complete: 2

Dr. Hormone - Endocrinology Current task: Starting analysis... Agent Progress Overall Team Progress 10% 70%

Dr. Vitality Chief Medical Officer Team strategy complete 100% confidence

Dr. Heart Cardiology Analysis complete with 85% confidence 1 queries executed 85% confidence

Dr. Pharma Pharmacy Analysis complete with 70% confidence 1 queries executed 70% confidence

# Step 9c - Dr. Hormone Completes analysis and Dr. Analysis Starts

XXX

**Health Insight Assistant**  
Powered by Multi-Agent AI · Snowflake Cortex

+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

15:02 5. 🩺 Preventive Medicine - Assess cardiovascular risk profile evolution and determine if current lipid management aligns with r...

15:02 Specialists Beginning Analysis  
Each specialist will query your health records for relevant data...

15:02 ❤️ Cardiology is analyzing your health data...

15:02 ✓ Cardiology completed analysis (1 queries executed, 85% confidence)

15:03 🧠 Pharmacy is analyzing your health data...

15:03 ✓ Pharmacy completed analysis (1 queries executed, 70% confidence)

15:03 💊 Endocrinology is analyzing your health data...

15:03 ✓ Endocrinology completed analysis (1 queries executed, 85% confidence)

15:04 📈 Data Analysis is analyzing your health data...

Specialists are analyzing your health data...

George Vetticaden Last checkup: 2 weeks ago GV

Medical Team Visualization Query 2 of 2

TEAM HIERARCHY & STATUS

```
graph TD; DrHeart[Dr. Heart - Cardiology 85%] --- DrVitality[Dr. Vitality - Chief Med. 100%]; DrPharma[Dr. Pharma - Pharmacy 70%] --- DrVitality; DrHormone[Dr. Hormone - Endocrinology 85%] --- DrVitality;
```

Waiting: 1 Active: 1 Complete: 3

Dr. Analytics - Data Analysis Current task: Starting analysis... Agent: 10% Overall: 78% Agent Progress 10% Overall Team Progress 78%

ANALYSIS RESULTS

- Dr. Heart - Cardiology 85% confidence Analysis complete with 85% confidence 1 queries executed
- Dr. Pharma - Pharmacy 70% confidence Analysis complete with 70% confidence 1 queries executed
- Dr. Hormone - Endocrinology 85% confidence Analysis complete with 85% confidence 1 queries executed

# Step 9d - Dr. Analysis Completes analysis and Dr. Prevention Starts

XXX

**Health Insight Assistant**  
Powered by Multi-Agent AI • Snowflake Cortex

+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

15:02 Cardiology is analyzing your health data...

15:02 ✓ Cardiology completed analysis (1 queries executed, 85% confidence)

15:03 Pharmacy is analyzing your health data...

15:03 ✓ Pharmacy completed analysis (1 queries executed, 70% confidence)

15:03 Endocrinology is analyzing your health data...

15:03 ✓ Endocrinology completed analysis (1 queries executed, 85% confidence)

15:04 Data Analysis is analyzing your health data...

15:04 ✓ Data Analysis completed analysis (1 queries executed, 40% confidence)

15:04 Preventive Medicine is analyzing your health data...

15:04 Specialists are analyzing your health data...

George Vetticaden Last checkup: 2 weeks ago GV

Medical Team Visualization

TEAM HIERARCHY & STATUS

```
graph TD; DrHeart[Dr. Heart - Cardiology 85%] --- DrVitality[Dr. Vitality - Chief Medi... 100%]; DrPharma[Dr. Pharma - Pharmacy 70%] --- DrVitality; DrHormone[Dr. Horm... - Endocrinol... 85%] --- DrVitality; DrAnalytics[Dr. Analytics - Data Analy... 40%] --- DrPrevention[Dr. Preve... - Preventive Medi... 10%]
```

Waiting: 0 Active: 1 Complete: 4

**Dr. Prevention - Preventive Medicine** Current task: Starting analysis... Agent Progress Overall Team Progress

**ANALYSIS RESULTS**

Specialist	Analysis Status	Confidence
Dr. Pharma - Pharmacy	Analysis complete with 70% confidence	70% confidence
Dr. Hormone - Endocrinology	Analysis complete with 85% confidence	85% confidence
Dr. Analytics - Data Analysis	Analysis complete with 40% confidence	40% confidence

# Step 10 - All specialists complete work and Dr. Vitality, the CMO, is doing synthesis and analysis of all the results from the specialists

We See all specialists are completed..Note the different states in the Team Hierarchy and Status: Waiting, Active, Complete

-Now we see Dr. Vitality doing synthesis on all the results from the 5 specialists

-After synthesis is complete, Dr. Vitality presents a comprehensive analysis to the user in the chat.

The screenshot displays the Health Insight Assistant interface, which includes a sidebar and a main content area.

**Top Right:** User profile for George Vetticaden, last checkup 2 weeks ago, with a bell icon and gear settings.

**Left Sidebar:** Features a "New Health Conversation" button, a search bar for conversations, and tabs for "Lab Results", "Medications", and "Conditions". Below this is a "TODAY" section with a "Cholesterol Analysis" card.

**Main Content Area:**

- Top Card:** "Chief Medical Officer Final Review" at 15:05. It shows "Synthesizing findings from 5 specialists" and "Total data points analyzed: 5". A message indicates "Preparing comprehensive report...".
- Central Card:** "Comprehensive Analysis: Your Cholesterol Medication Adherence and Lab Results" at 15:05. It highlights "Key Finding: Your medication adherence patterns show significant challenges that directly correlate with inconsistent cholesterol control". It also notes "Based on our comprehensive analysis of your records from 2013 to 2025, we've identified several critical patterns between your cholesterol medications and lab results that need immediate attention." The card lists two sections:
  - 1. Medication Adherence Issues:**
    - You have significant gaps in your medication refills, ranging from 3-6 months between prescriptions
    - There's a particularly concerning 5-month gap between rosuvastatin prescriptions (May 2022 to November 2023)
    - Multiple providers are prescribing duplicate medications, creating confusion and potentially affecting your adherence
  - 2. Direct Correlations with Lab Results:**
    - When medication appears consistent (2021-2023), your triglycerides improved dramatically from 426 mg/dL to 64 mg/dL.
    - During periods of apparent non-adherence or dose changes, your triglycerides increased again to 153 mg/dL (April 2025)
    - Your LDL cholesterol has remained essentially unchanged (84-85 mg/dL) over 12 years despite treatment, suggesting either inadequate dosing or adherence issues
- Bottom Card:** "CMO is synthesizing findings..." at 15:05.

**Right Side:**

- Medical Team:** Shows a hierarchy where Dr. Vitality (Chief Medical Officer) is the supervisor of Dr. Heart (Cardiology, 85% complete), Dr. Pharma (Pharmacy, 70% complete), Dr. Horm... (Endocrinology, 85% complete), Dr. Analy... (Data Analytics, 40% complete), and Dr. Preve... (Preventive Medicine, 85% complete).
- TEAM HIERARCHY & STATUS:** A legend indicates 0 Waiting, 0 Active, and 5 Complete.
- Analysis Progress:** A summary for Dr. Vitality - Chief Medical Officer shows "Agent Progress" at 90% and "Overall Team Progress" at 100%.
- ANALYSIS RESULTS:** Includes sections for "Dr. Analytics" (Data Analysis, 40% confidence, 1 query executed) and "Dr. Prevention" (Preventive Medicine, 85% confidence, 1 query executed).
- Bottom Card:** "Dr. Vitality - Chief Medical Officer" is "Synthesizing findings from all specialists...".

# Step 11 - Visualization Agent Starts to generate code for the visualization

/visaulization agent runs after CMO finishes symtheiss analysis and uses that to crate a dynamic visualization with code generation..

We see the code generation in teh visualziation tab on the right panel

The screenshot shows the Health Insight Assistant interface. On the left, a conversation card for 'Cholesterol Analysis' is displayed, showing a message from 'TODAY' asking about cholesterol trends over 15 years. The main panel displays a summary of cholesterol management, including medication therapy, enhanced monitoring, lifestyle interventions, and adherence tips. A note at the bottom states that cholesterol management has been fragmented but can be improved with coordinated care and consistent medication adherence. At the bottom of the main panel, a status bar says 'CMO is synthesizing findings...'.

The right side of the interface shows a code editor titled 'Visualizations' under the 'Medical Team' tab. The code is a React component for a 'HealthVisualization' component. It includes logic for selecting a medication, handling hovering over periods, and embedding medication adherence data. It also defines an array of medication data and an array of adherence gaps. A message at the bottom of the code editor says 'Visualization will appear when code is complete'.

At the top right of the interface, there is a user profile for 'George Vetticaden' with a last checkup date of '2 weeks ago'.

```
//> React Component

Streaming code...

const HealthVisualization = () => {
  const [selectedMedication, setSelectedMedication] = useState('all');
  const [hoveredPeriod, setHoveredPeriod] = useState(null);

  // Embedded medication adherence data from the analysis
  const medicationData = [
    { date: "2021-01-15", medication: "Rosuvastatin", dose: "10mg", prescriber: "Dr. Smith" },
    { date: "2021-04-20", medication: "Rosuvastatin", dose: "10mg", prescriber: "Dr. Smith" },
    { date: "2021-07-25", medication: "Rosuvastatin", dose: "10mg", prescriber: "Dr. Smith" },
    { date: "2021-10-30", medication: "Rosuvastatin", dose: "10mg", prescriber: "Dr. Smith" },
    { date: "2022-02-05", medication: "Rosuvastatin", dose: "10mg", prescriber: "Dr. Jones" },
    { date: "2022-05-12", medication: "Rosuvastatin", dose: "10mg", prescriber: "Dr. Jones" },
    { date: "2022-11-15", medication: "Rosuvastatin", dose: "20mg", prescriber: "Dr. Brown" },
    { date: "2023-04-20", medication: "Rosuvastatin", dose: "20mg", prescriber: "Dr. Brown" },
    { date: "2023-11-25", medication: "Rosuvastatin", dose: "20mg", prescriber: "Dr. Smith" },
    { date: "2024-05-01", medication: "Rosuvastatin", dose: "20mg", prescriber: "Dr. Smith" },
    { date: "2024-11-10", medication: "Rosuvastatin", dose: "20mg", prescriber: "Dr. Jones" },
  ];

  // Adherence gaps identified in the analysis
  const adherenceGaps = [
    { start: "2022-05-12", end: "2022-11-15", days: 187, medication: "Rosuvastatin", severity: "Low" },
    { start: "2023-11-25", end: "2024-05-01", days: 158, medication: "Rosuvastatin", severity: "Medium" }
  ];
}
```

# Step 11a - Visualization Renders

Note the query selector..which has all the health queries submitted as part of this conversation.

-Chaging the value int eh selector, will load up the right visaulziation as well as move the chat focus to where the user submitted that uqery

**Health Insight Assistant**  
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+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

TODAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

### Comprehensive Analysis: Your Cholesterol Medication Adherence and Lab Results

**Key Finding:** Your medication adherence patterns show significant challenges that directly correlate with inconsistent cholesterol control

Based on our comprehensive analysis of your records from 2013 to 2025, we've identified several critical patterns between your cholesterol medications and lab results that need immediate attention.

**1. Medication Adherence Issues:**

- You have significant gaps in your medication refills, ranging from 3-6 months between prescriptions
- There's a particularly concerning 5-month gap between rosuvastatin prescriptions (May 2022 to November 2023)
- Multiple providers are prescribing duplicate medications, creating confusion and potentially affecting your adherence

**2. Direct Correlations with Lab Results:**

- When medication appears consistent (2021-2023), your triglycerides improved dramatically from 426 mg/dL to 64 mg/dL
- During periods of apparent non-adherence or dose changes, your triglycerides increased again to 153 mg/dL (April 2025)
- Your LDL cholesterol has remained essentially unchanged (84-85 mg/dL) over 12 years despite treatment, suggesting either inadequate dosing or adherence issues

**3. Critical Monitoring Gap:**

- You had no cholesterol testing for 2 years (April 2023 to April 2025) despite being on active medications
- This gap coincides with worsening of your metabolic health, including weight gain of 27 pounds

**Underlying Health Concerns:**

Your cholesterol issues are part of a larger metabolic problem:

- You have prediabetes (HbA1c 6.1%) that's worsening
- You meet criteria for metabolic syndrome

Ask about your health data...

George Vetticaden Last checkup: 2 weeks ago

Medical Team

Visualizations Query 2 of 2

### Lab Results Correlation with Adherence

mg/dL Adherence %

Mar 2013 Jun 2021 Apr 2023 Apr 2025

Triglyceride Goal LDL Goal HDL Goal

Triglyceride Improvement   
**426 → 64 mg/dL**  
During consistent adherence (2021-2023)

Recent Triglyceride Increase   
**64 → 153 mg/dL**  
After adherence gaps (2023-2025)

LDL Unchanged   
**84-85 mg/dL**  
Despite 12 years of treatment

Identified Adherence Gaps   
**187-day gap in Rosuvastatin** May 2022 to Nov 2022 CRITICAL

**158-day gap in Rosuvastatin** Nov 2022 to Apr 2023 MODERATE

# Step 12 - Query Selector

Query Selector allows the user to select any query in this conversation.  
Selecting the query selector in the Medical Team tab will retrieve the right medical team that worked the query and show the analysis results as well as move focus in the agent chat to that query selected.

**Health Insight Assistant**  
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+ New Health Conversation

Search conversations...

Lab Results Medications Conditions

DAY

> Cholesterol Analysis  
What's my cholesterol trend over the last 15 years? I want to see...  
02:56 PM

**Comprehensive Analysis: Your Cholesterol Medication Adherence and Lab Results**

**Key Finding:** Your medication adherence patterns show significant challenges that directly correlate with inconsistent cholesterol control

Based on our comprehensive analysis of your records from 2013 to 2025, we've identified several critical patterns between your cholesterol medications and lab results that need immediate attention.

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- Multiple providers are prescribing duplicate medications, creating confusion and potentially affecting your adherence

**2. Direct Correlations with Lab Results:**

- When medication appears consistent (2021-2023), your triglycerides improved dramatically from 426 mg/dL to 64 mg/dL
- During periods of apparent non-adherence or dose changes, your triglycerides increased again to 153 mg/dL (April 2025)
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- You had no cholesterol testing for 2 years (April 2023 to April 2025) despite being on active medications
- This gap coincides with worsening of your metabolic health, including weight gain of 27 pounds

**Underlying Health Concerns:**

Your cholesterol issues are part of a larger metabolic problem:

- You have prediabetes (HbA1c 6.1%) that's worsening
- You meet criteria for metabolic syndrome

Ask about your health data... Send

George Vetticaden GV

Medical Team

TEAM HIERARCHY & STATUS

Dr. Heart Cardiology 85%  
Dr. Pharm Pharmacy 70%  
Dr. Vitalit Chief Medi... 100%  
Dr. Analy... Data Analy... 40%  
Dr. Preve... Preventive ... 85%

Waiting: 0 Active: 0 Complete: 5

Query 1 02:56 PM What's my cholesterol trend over the last 15 years? I want to see trends across the top 4 cholesterol metrics including Triglycerides across that time period (standard)

Query 2 03:01 PM Analyze cholesterol relevant medication adherence patterns over that time period and how do they correlate with these cholesterol lab results.

ANALYSIS RESULTS

Dr. Analytics - Data Analysis 40% confidence

Analysis complete with 40% confidence

1 queries executed

Dr. Prevention - Preventive Medicine 85% confidence

Analysis complete with 85% confidence

1 queries executed

Dr. Vitality - Chief Medical Officer Complete

Comprehensive analysis complete. Final synthesis has been provided in the chat.