

NexusCare

MedBrief

Doctor's shortcut to Comprehensive Patient Overviews

SUJAY SRIVASTAVA • 7TH JULY 2024

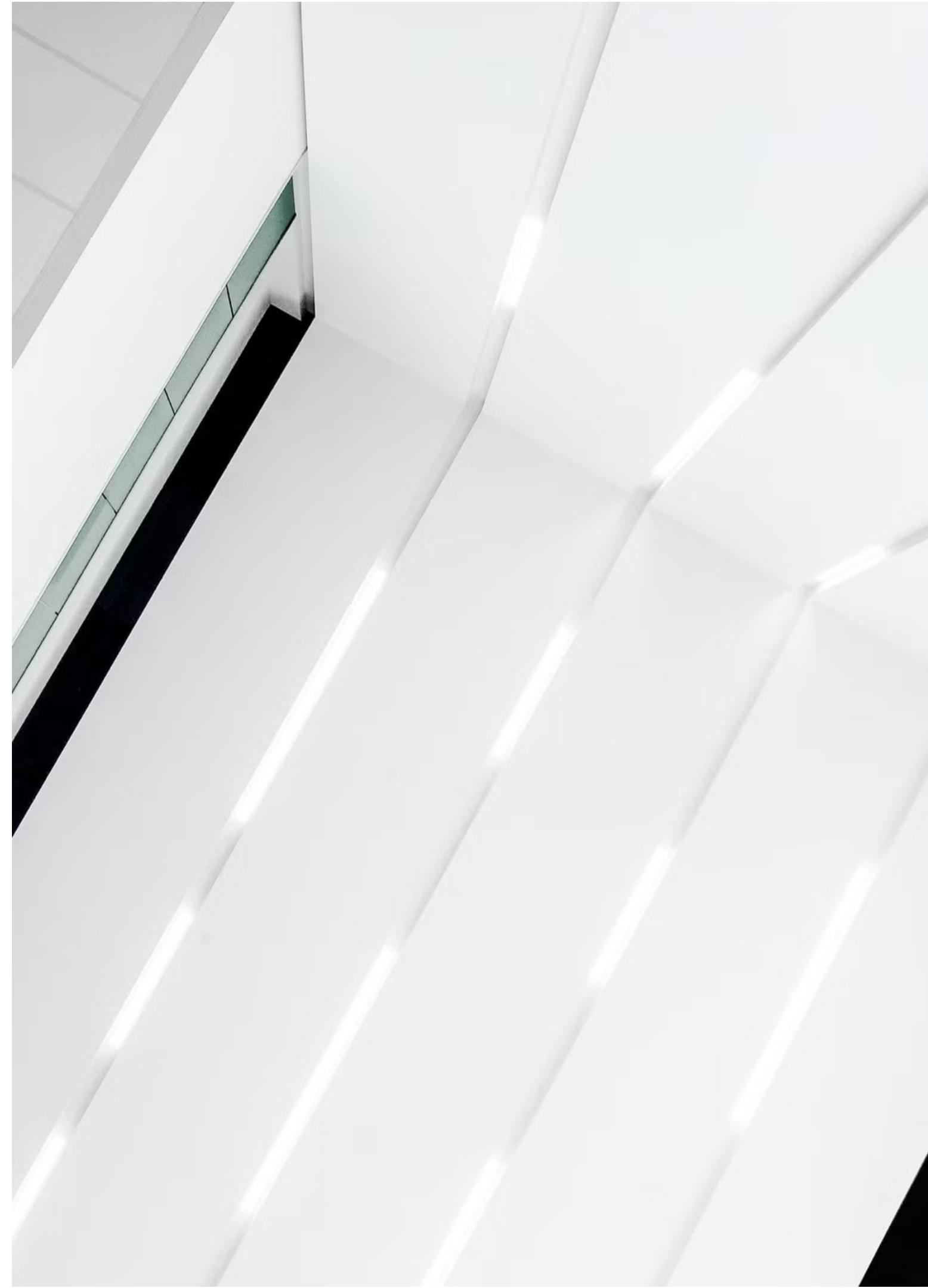
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PROBLEM

Healthcare professionals are often starved for time

Compounded by multiple duties, means to rushed appointments

New Doctors visit means long time getting to know the patient

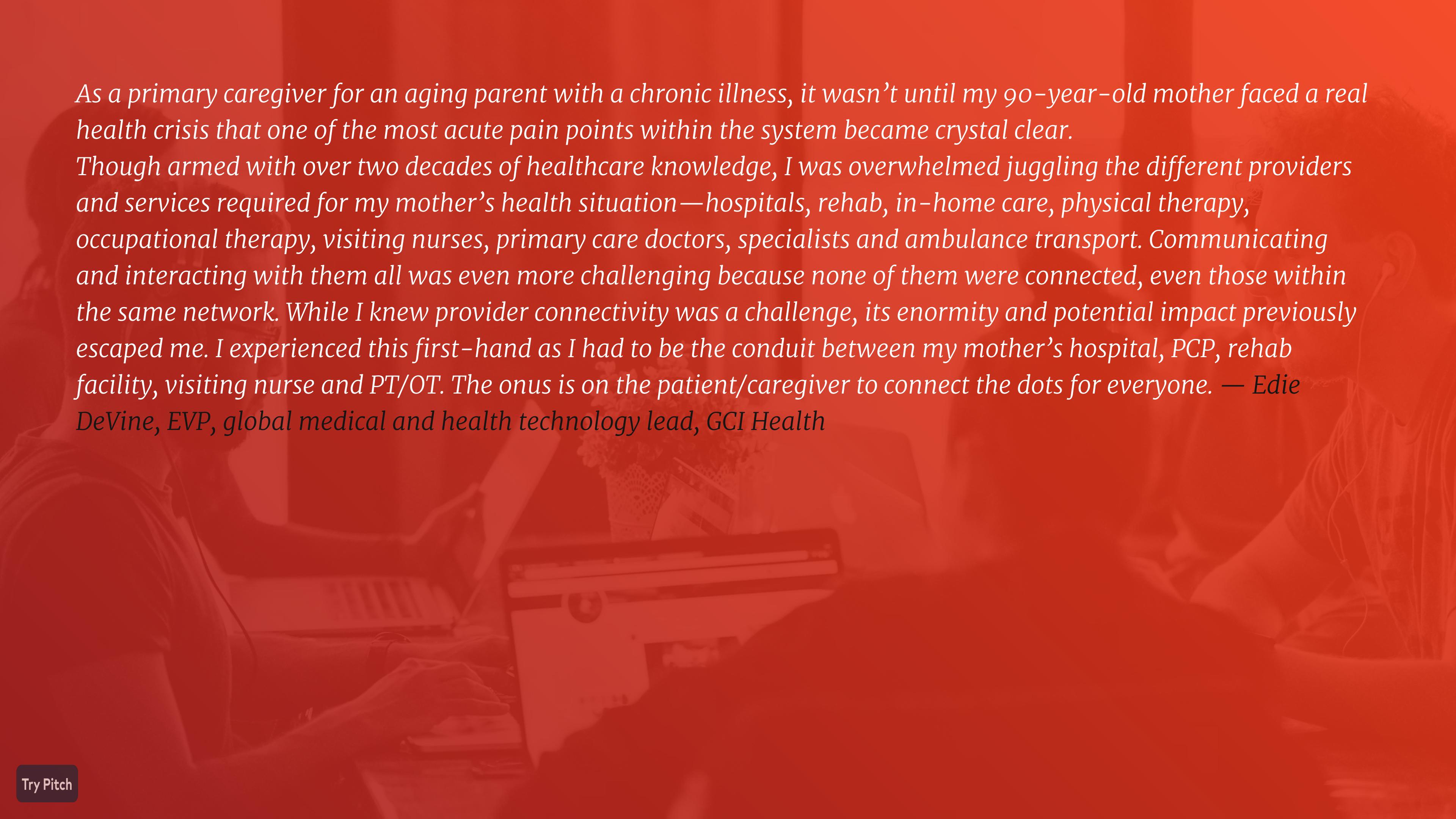
Takes long time and still lead to overlooked details

Going through complete medical history and deriving inference is hard

Eats up the appointment time and meaning subpar treatment

One of the major pain points is a lack of individualized knowledge based on limited time for insight-gathering between physician and patient. The patient most likely has 20 things to share, questions to ask that could help with the holistic understanding of their wellness and health issues, but the physician has their own templated Q&A and may spend the entire time working through their list before ever getting to the real challenges. – Cheryl Maher, managing director, Ritual

The greatest pain point is a lack of connectivity between health care professionals and their systems. The process of sharing, transferring, and connecting the dots across disparate medical records is an impossible task left to the consumer. In addition, healthcare professionals are starved for time, which often leads to rushed patient visits, as they are bogged down with administrative paperwork, economic pressure to run their business, and many are just burnt out – Amanda Powers-Han, chief marketing officer, Greater Than One

A soft-focus photograph of a woman with long dark hair, wearing a patterned top, holding a small child in her arms. They are both looking down at a smartphone she is holding. The background is blurred, suggesting an indoor setting.

As a primary caregiver for an aging parent with a chronic illness, it wasn't until my 90-year-old mother faced a real health crisis that one of the most acute pain points within the system became crystal clear.

Though armed with over two decades of healthcare knowledge, I was overwhelmed juggling the different providers and services required for my mother's health situation—hospitals, rehab, in-home care, physical therapy, occupational therapy, visiting nurses, primary care doctors, specialists and ambulance transport. Communicating and interacting with them all was even more challenging because none of them were connected, even those within the same network. While I knew provider connectivity was a challenge, its enormity and potential impact previously escaped me. I experienced this first-hand as I had to be the conduit between my mother's hospital, PCP, rehab facility, visiting nurse and PT/OT. The onus is on the patient/caregiver to connect the dots for everyone. — Edie DeVine, EVP, global medical and health technology lead, GCI Health

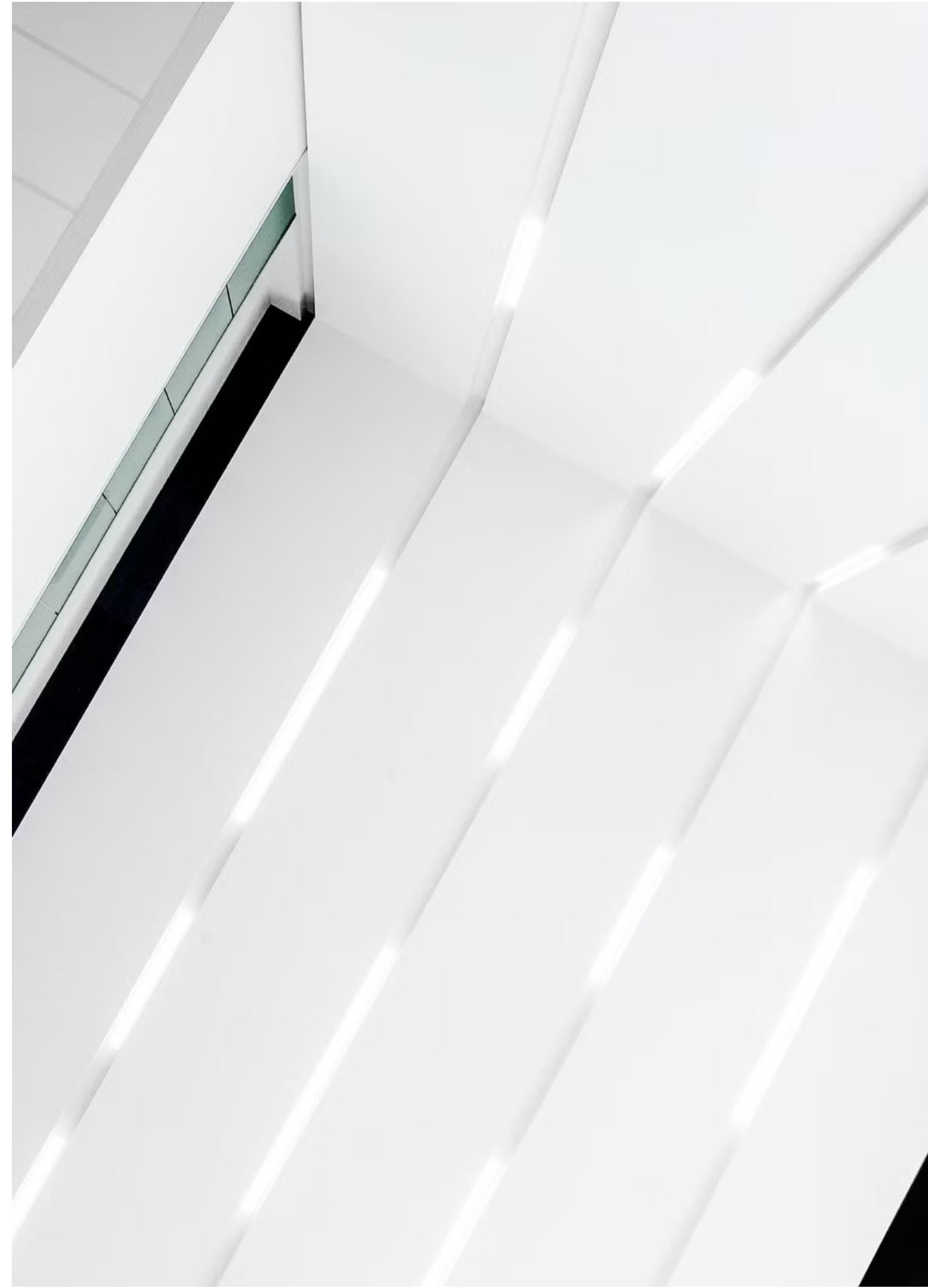
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SOLUTION

**MedBrief retrieves and summarizes
patient's previous medical records
for you so you can skip reading files
and focus on the important part:
saving lives**

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Our Product

Gets summary of the previous records keeping the current reason of visit in mind

Persona: Acts as agentic doctor which goes through the Electronic Health Records(EHR) and find Patient's data

- Summarizes relevant medical information
- Chatbot for doctor to ask anything more!

Tools Used:

LlamaIndex for Agentic, RAG application & document parsing

OpenAI's ChatGPT-4o as foundation model

Streamlit for creating and deploying webpage



Dr. Bruce Wayne, Cardiologist

Enter Patient name

Nancy Dew

Reason for Visit

She went unconscious at noon in her office



Get Medical Summary

Medical History

Nancy Dew, a 45-year-old female, has been diagnosed with hypotension. She experiences frequent weakness, unconsciousness, and low blood pressure. She has allergies to penicillin and pollen. Her prescribed medications include Fludrocortisone 0.1 mg tablets (1 tablet daily in the morning) and Midodrine 2.5 mg tablets (1 tablet three times a day). Additional recommendations for her include increasing salt intake, drinking plenty of fluids, avoiding sudden changes in body position, and wearing compression stockings. She is advised to schedule a follow-up appointment in one month to monitor her progress.

Relevant Tests

The blood test report for Nancy Dew, dated 6th July 2024, shows the following results:

- Hemoglobin (Hb): 11.0 g/dL (Normal Range: 12.0 - 15.5 g/dL)
- Hematocrit (Hct): 33% (Normal Range: 35% - 47%)

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FUTURE DIRECTION AND FEATURES

Add Reliability

Provide reference to source from where the data is presented for cross-checking

Integrate Human-in-the-Loop

Add a like\dislike button next to information provided to ask doctor if the information shown is relevant and improve the agent on this basis

Add more tools to Agent

Ability to perform more tasks like rescheduling appointments, booking tests/scans for patients via single prompt/ voice-based command



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