

LifeOmic AI Consult™ improves clinician efficiency by leveraging large language models

A groundbreaking solution for medical summarization that automatically generates concise and accurate summaries of patient medical history and current status.



Burnout amongst health system professionals in 2022 reached an all time high of

63%

Empower healthcare professionals

A study funded by the American Medical Association found that for every hour a physician spends with a patient, an additional two hours is spent on administrative tasks such as patient chart review.

LifeOmic AI Consult™ is a groundbreaking offering within the HITRUST certified, HIPAA compliant LifeOmic Platform. It is designed to leverage the power of Large Language Models (LLM) to curate patient summaries of vast datasets saving clinicians time and minimizing burnout.

Empower clinicians to more efficiently understand the patient's history and current health status by summarizing:



Sources:

ama-assn.org/practice-management/digital/allocation-physician-time-ambulatory-practice

ama-assn.org/practice-management/physician-health/pandemic-pushes-us-doctor-burnout-all-time-high-63

LifeOmic AI Consult / Subjects / Mr. Wyatt Mayert ✎ Layout: Cardiology ▾ 🗨

Age: 41 years Gender: Male DOB: 2/9/1982 MR: 00000004

Date Range: Jul 17 2010 — Jul 14 2023

Subject Summary

Conditions ⓘ

The patient has a history of significant cardiovascular disease, including a myocardial infarction and congestive heart failure in November, 2011. At that time, they underwent percutaneous coronary intervention complicated by dissection of the left anterior descending artery, with emergent conversion to coronary artery bypass grafting. They have subsequently ha...

[↓ Read more](#)

Observations ⓘ

The patient has a history of high cholesterol, with LDL levels reaching 190 mg/dL in 2011. Most recent lipid panel is notable for: total cholesterol 169mg/dL, LDL cholesterol 99mg/dL, HDL 46mg/dL, triglycerides 118mg/dL. Apolipoprotein B was 98mg/dL. BNP peaked at 863; NTproBNP in June, 2023 was 321. Left ventricular ejection fraction was 37% in 2011, but improved t...

[↓ Read more](#)

Medications ⓘ

- Atorvastatin
- Ezetimibe
- Alirocumab
- Sacubitril/Valsartan
- Spironolactone
- Carvedilol...

[↓ Read more](#)

Procedures

The patient underwent percutaneous coronary intervention complicated by dissection of the left anterior descending artery, with emergent conversion to single-vessel coronary artery bypass graft of the saphenous vein to mid-LAD in November 2011. They had an appendectomy in February 2012. They have had multiple echocardiograms, with the most rec...

[↓ Read more](#)

Notes ⓘ

Allergies: Penicillin - anaphylaxis
Influenza vaccine 2022
No complaints reported

AI Conditions to Consider ⓘ

- Hypertension
- Acute or Chronic kidney disease
- Transaminitis
- Hypertrophic Cardiomyopathy
- Arrhythmia
- Metabolic syndrome...

[↓ Read more](#)

Summary of complete patient EHR dataset configured with clinician guidance.

The future of patient summarization is here

Whether you prefer a comprehensive overview or a specific section of the patient's medical history, LifeOmic AI Consult's advanced technology has the ability to tailor summaries to meet your individual needs.

LifeOmic AI Consult was designed to be LLM-agnostic and can deploy the latest medical-grade LLM technologies as soon as they are made available. This flexibility enables the platform to keep pace with the speed of change.



Expedite decision-making processes

- **Real-Time Accessibility**

Reduce the risk of oversight and expedite decision-making processes with access to crucial patient data frequently buried in patient records. LifeOmic AI Consult helps minimize the chance of missing critical details.

- **Seamless Integrations**

LifeOmic AI Consult's robust EHR integration ensures a comprehensive overview without the need for additional software or complex workflows.

- **Customization & Flexibility**

Different healthcare settings demand unique requirements. LifeOmic AI Consult can be customized to cater to specific specialties, patient populations and stakeholder teams.

- **Targeted Patient Record Query**

Using LLM technology, LifeOmic AI Consult enables clinicians to ask specific clinical questions which analyze and summarize patient data to inform customized care strategies to that specific patient.

Based on a clinician question, the platform narrows, summarizes, and contextualizes the patient's EHR data.

AI Timeline

What is the patient's history of congestive heart failure?

Lightbulb Icon: The patient is a 41-year-old man who had their first episode of congestive heart failure at age 29 in 2011 following a myocardial infarction in the LAD distribution. Echocardiography revealed LV dyskinesia with an ejection fraction of 37%. They underwent percutaneous coronary angiography which revealed global LV dysfunction with 70% stenosis of the mid-LAD. Attempted stent placement was complicated by LAD dissection and conversion to emergent single-vessel CABG.

Following hospital discharge, they were treated initially with lisinopril, metoprolol, and spironolactone, with furosemide as needed. They are currently on a heart failure regimen consisting of sacubitril/valsartan, spironolactone, carvedilol and dapagliflozin. Subsequent echocardiography has revealed ejection fraction consistently >40%, with most recent EF in June, 2023 of 44%. Cardiolute stress test in June, 2022, was normal. A coronary CT angiogram was performed in June 2023, demonstrating patent graft and mixed calcified/noncalcified plaque.

Their KCCQ-12 scores have ranged from 45 in 2011 to 86 in June, 2023. They had NYHA class III symptoms during an episode of HF decompensation requiring hospitalization in November, 2018 (KCCQ-12 score of 50). BNP peaked at 863; NTproBNP in June, 2023 was 321.

Their dry weight is 83.7kg. Their most recent vitals are notable for pulse 66, BP 110/64, SpO2 98%, weight 83.9kg. They currently report NYHA class I symptoms.

MEDICATION

D W M 6M Y 5Y

7/14/2023

6/7/2023

DAP AIM CAR SPI N04 E1M ABM

EVENT

Labs

Recent Activity

Medications

- Atorvastatin 80 MG [Lipitor] Start Date Apr 19
- Ezetimibe 10 MG [Zetia] Start Date Jun 30

LifeOmic AI Consult / Subjects / Mr. Wyatt Mayert Layout: Cardiology

Age: 41 years Gender: Male DOB: 2/9/1982 MR: 00000004

Date Range: Jul 17 2010 — Jul 14 2023

Subject Summary

Conditions

The patient has a history of significant cardiovascular disease, including a myocardial infarction and congestive heart failure in November, 2011. At that time, they underwent percutaneous coronary intervention complicated by dissection of the left anterior descending artery, with emergent conversion to coronary artery bypass grafting. They have subsequently ha...

[Read more](#)

Observations

The patient has a history of high cholesterol, with LDL levels reaching 190 mg/dL in 2011. Most recent lipid panel is notable for: total cholesterol 169mg/dL, LDL cholesterol 99mg/dL, HDL 46mg/dL, triglycerides 118mg/dL. Apolipoprotein B was 98mg/dL. BNP peaked at 863; NTproBNP in June, 2023 was 321. Left ventricular ejection fraction was 37% in 2011, but improved t...

[Read more](#)

Medications

- Atorvastatin
- Ezetimibe
- Alirocumab
- Sacubitril/Valsartan
- Spironolactone
- Carvedilol...

[Read more](#)

Procedures

The patient underwent percutaneous coronary intervention complicated by dissection of the left anterior descending artery, with emergent conversion to single-vessel coronary artery bypass graft of the saphenous vein to mid-LAD in November 2011. They had an appendectomy in February 2012. They have had multiple echocardiograms, with the most rec...

[Read more](#)

Notes

Allergies: Penicillin - anaphylaxis
Influenza vaccine 2022
No complaints reported

AI Conditions to Consider

- Hypertension
- Acute or Chronic kidney disease
- Transaminitis
- Hypertrophic Cardiomyopathy
- Arrhythmia
- Metabolic syndrome...

[Read more](#)

Provides a list of potential disease or syndromes for the clinician to consider.

Convenient. Comprehensive. Collaborative.

- Save Valuable Time**

With the automation of patient summaries, clinicians no longer need to be burdened by the manual review of extensive medical records and can allocate more time to direct patient care, leading to more productivity.
- Enhance Clinical Decision-Making**

Empower healthcare professionals by providing concise, accurate, and relevant summaries that enables them to quickly grasp a patient's medical history, current conditions, and treatment plans.
- Improve Patient Safety**

Minimize the risk of errors and oversights by automating patient summarization. Accurate and succinct summaries help reduce the chances of missing critical details, resulting in enhanced patient safety and care quality.
- Collaborate Seamlessly**

By providing a standardized format, LifeOmic AI Consult fosters effective communication between multidisciplinary teams allowing them to effortlessly collaborate and share patient summaries.



LifeOmic AI Consult equips healthcare providers with the comprehensive knowledge needed to make well-informed decisions in a fraction of the time.

By streamlining the entire process, we're giving them more time to do what matters most—caring for their patients.”



Dr. Don Brown
Founder and CEO of LifeOmic



Improve clinician efficiency with the LifeOmic AI Consult solution

Founded in 2016, LifeOmic is a healthcare technology company solving the industry's largest problems — connecting, consolidating, and visualizing complex health data to improve patient outcomes.

lifeomic.com
info@lifeomic.com
855-LIFEOMIC

