

# AI's Role in Healthcare

## 10 New AI Developments To Keep You in the Know

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### 1. AI Frees Up Doctors' Time—Helping Physicians See More Patients per Day

“With AI taking care of my notes, I feel like I can focus on my patients again,” says Dr. Smith from Northwestern Medicine. By using Microsoft's DAX Copilot, Northwestern Medicine, is slashing clinical documentation time by 24%, giving doctors more time for patients. On average, physicians are seeing 11 more patients daily thanks to this tool [1]. DAX Copilot and similar other tools can record encounters and automatically convert them into clinical documentation in seconds.

### 2. Less Admin, More Care—AI Tackles the Paperwork Burden

AI is tackling administrative headaches in healthcare—from scheduling to billing and prior authorizations—so doctors can spend more time with patients and less on paperwork [1].

### 3. Improved Patient Records & Communication

AI can pull data from medical records instantly, improving patient forms and communication, which is a significant step toward reducing clinician burnout [5].

### 4. AI Supercharging Cancer Detection

AI-driven deep learning is transforming how medical imaging is analyzed, helping pathologists and oncologists make more informed decisions with unprecedented accuracy in cancer diagnostics [2].

### 5. Can AI Predict How Long You'll Live?

The **Death Clock app** uses AI to predict your “death day” based on details you provide about your lifestyle: diet, exercise, stress levels, sleep. Supposedly, the app was trained on data from over 1,200 life expectancy studies and 53 million participants. It analyzes personal health markers and lifestyle choices to predict lifespan, providing actionable recommendations for healthier living [3][6].

### 6. Cardiac Imaging in a Single Heartbeat

Imagine completing a heart scan in a single heartbeat—that's now possible thanks to AI. AI has transformed medical imaging by making cardiac imaging 12 times faster, benefiting patients with arrhythmias by removing the need for repetitive breath holds [4]. Patients no longer have to hold their breath repeatedly during cardiac imaging, thanks to faster AI scans. Imagine how much stress this alleviates for those with arrhythmias.

### 7. AI Moves to Prevention—A New Era in Healthcare

AI is evolving to focus on preventative care by analyzing genetics and family history, allowing for better prediction and prevention of diseases before they even manifest [1].

### 8 AI Tackles Neurodegenerative Diseases

AI is accelerating the development of treatments for Alzheimer's and Parkinson's, with new AI-discovered drugs expected to reach clinical trials as early as 2024-2025. This brings hope to millions suffering from these conditions [1].

### 9. AI Designing Proteins

Google DeepMind has unveiled an AI system called AlphaProteo that can design novel proteins that successfully bind to target molecules. This system successfully designed a protein binder for VEGF-A, significant in cancer and diabetes research. AlphaProteo's binders exhibit improved binding affinities, outperforming existing methods by up to 300 times. AlphaProteo holds potential for various fields, including drug development, disease understanding, and agriculture [7].

### **10. Enhanced AI Vision Capabilities**

AI can now process images and videos to extract valuable information. For example, The AI watching a video can count players on the soccer field or identify specific events in the video search, such as when a goal is scored, and generate a description of the visual content. Additionally, these advanced AI visual systems can interpret, analyze, and act on visual information in real time, operating at the intersection of AI and spatial computing.[8]

#### **Citations:**

[1] <https://www.linkedin.com/pulse/ais-impact-healthcare-2023-review-2024-predictions-santosh-kaveti-a3v6c>

2] <https://paige.ai/blog/a-year-of-breakthroughs-in-ai-for-healthcare-reflections-and-achievements-from-paige/>

[3] <https://timesofindia.indiatimes.com/technology/tech-news/death-clock-ai-app-with-1-25-lakh-downloads-can-predict-date-of-your-death/articleshow/115885555.cms>

[4] <https://www.healthdatamanagement.com/articles/why-ai-driven-advances-will-revolutionize-patient-care-in-2024>

[5] <https://www.whitehouse.gov/briefing-room/blog/2023/12/14/delivering-on-the-promise-of-ai-to-improve-health-outcomes/>

[6] <https://www.gadgets360.com/ai/news/death-clock-app-android-ios-predicts-life-expectancy-when-will-you-die-7153328>

[7] <https://www.artificialintelligence-news.com/news/alphaproteo-google-deepmind-protein-design-system/> [8] <https://www.youtube.com/watch?v=R2M7PvrpVmE> Visual AI Agents-Powered XR in Healthcare