

# Health systems invest in robots to abate nursing shortage—but privacy concerns are still an issue

Article

**The news:** Service robot startup **Diligent Robotics** scored **\$30 million** in a Series B raise. **Cedars-Sinai Medical Center** was among investors. The startup has raised **\$50 million** to date.

**How we got here:** Robot assistants are helping health systems contend with worsening nurse and labor shortages.

- Diligent Robotics' flagship robot (**Moxi**) delivers and collects supplies, meds, and lab samples across the hospital, for example.

Last year, Cedars-Sinai introduced Moxi in its neurology, orthopedic, and surgery units.

- Cedars-Sinai nurses can request Moxi via text through hospital-issued phones. Moxi responds within 5 minutes with its estimated time of arrival.
- **Moxi saved nurses over 300 hours of walking, according to Cedars Sinai's website.**
- So, it's unsurprising to see Cedars-Sinai take part in the startup's Series B haul.

**The problem:** 97% of large US hospitals faced a nursing shortage, even a month before the omicron variant blew in, per McKinsey's 2021 Hospital Insights Survey.

- And **92% of healthcare leaders** say the nurse labor shortage will intensify in the next 18 months, per a late 2021 Wolters Kluwer survey of 300 US nurse leaders.
- That means hospital nursing staff will be at higher risk for burnout and need an extra set of hands (like Moxi).

**Robot roadblock:** Most patients like robot healthcare assistants. But privacy issues could be a barrier to widespread hospital implementation.

**93% of patients who interacted with a robot** during their hospital visit said they liked the experience, according to a 2021 US survey of 1,000 adult from MIT and Brigham Women's Hospital.

- Patients are also open to using robots for other health-related tasks. **Most (83%) said their robot-facilitated triage interview was the same quality as with a clinician.**

But cybersecurity vulnerabilities with robots could be costly for health systems.

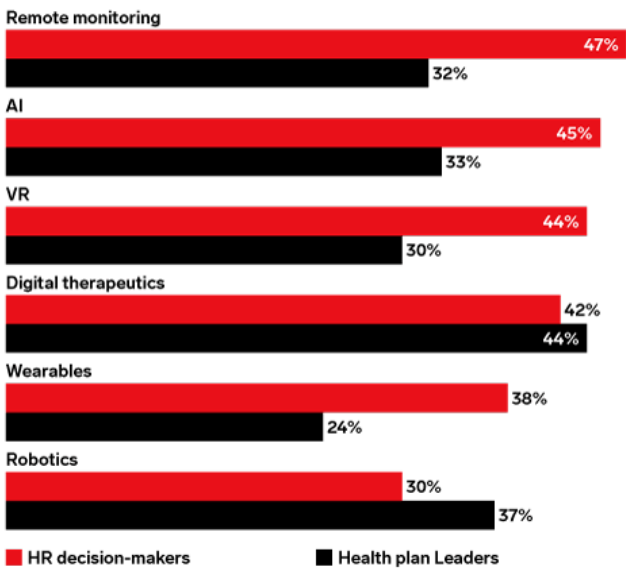
- Researchers found that autonomous healthcare robots (like **Aethon's**) had at least five bugs with the base servers they use to communicate.
- Hackers could create new logins with high-level access to enter restricted areas—or spy on patients using the robot's built-in cameras, per TechCrunch.

Cybersecurity vulnerabilities are bad news for health systems. Especially since privacy threats rack up long-term costs for hospitals.

- **A typical data breach can cost health systems up to \$9.2 million per incident, [according to IBM](#).**

**Emerging Technologies that Will Have the Greatest Impact\* on Healthcare According to US HR Decision-Makers vs. Health Plan Leaders, Nov 2020**

% of respondents



Note: \*In the future

Source: Evernorth, "Health Care in Focus" conducted by Ipsos, March 10, 2021

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