Definitive Healthcare AI study

Between May and June 2022, Definitive Healthcare surveyed healthcare providers and executives to learn more about the use of artificial intelligence (AI) at healthcare organizations and its potential to affect patient care. Below are key highlights of the study.
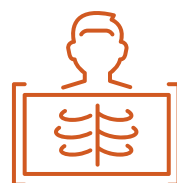
AI usage and plans

31%
Currently use AI

42%
Have plans to use AI in the future

Top uses of AI in healthcare

37%
Computer-aided image detection for oncology
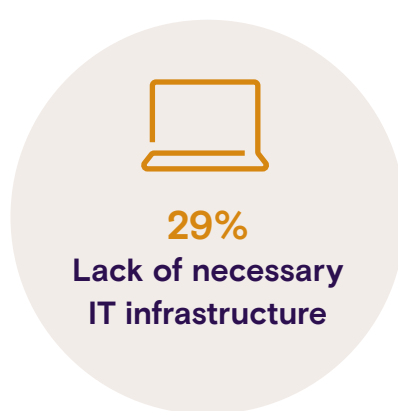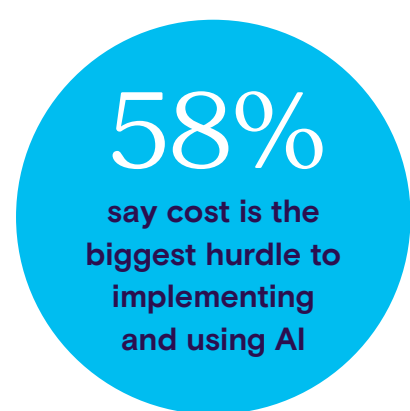
37%
Process or workflow improvement

34%
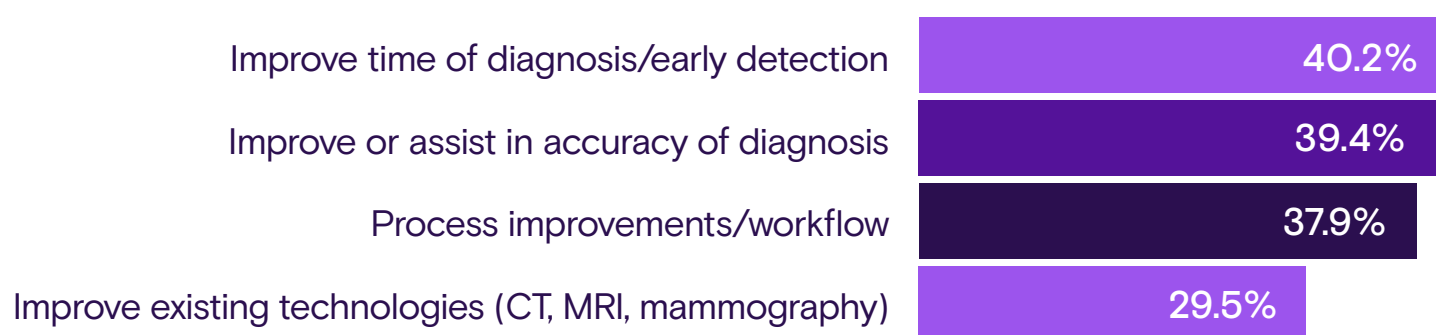Care guideline consultation/ suggestive care options

Organizations currently use AI for two areas on average and have plans to expand AI usage to four areas in the future, including process/workflow improvement and suggestive care options.

Barriers to using AI in healthcare

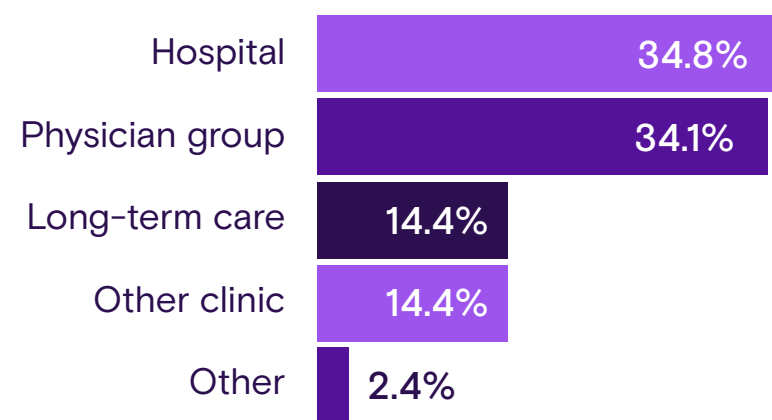### ADDITIONAL HURDLES HEALTHCARE ORGANIZATIONS FACE

58%
say cost is the biggest hurdle to implementing and using AI

33%
Lack of strategic direction

29%
Lack of necessary IT infrastructure

29%
Lack of technical expertise

Greatest impact of AI use

Improve time of diagnosis/early detection	40.2%
Improve or assist in accuracy of diagnosis	39.4%
Process improvements/workflow	37.9%
Improve existing technologies (CT, MRI, mammography)	29.5%

About the respondents

ORGANIZATION TYPE

Hospital	34.8%
Physician group	34.1%
Long-term care	14.4%
Other clinic	14.4%
Other	2.4%

TOP ROLES/SPECIALTIES

Medical/Quality/Care management	20.5%
Radiology	16.7%
Operations	14.4%
Chief executive/President/Administrator	12.9%
Information technology	8.3%
Sales/Marketing/Business development	8.3%
Laboratory	5.3%

REGION

Midwest	Northeast	Southeast	West	Southwest
28%	23.5%	21.2%	15.2%	12.1%
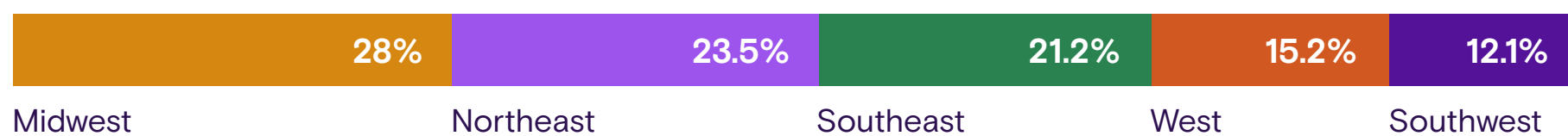
What it all means

AI has applicability across healthcare functions from patient care to business operations. Process and workflow improvements are areas of high AI use and plans, while early disease detection and improving the accuracy of diagnoses are areas where AI can have the biggest impact. Healthcare organizations are limited by financial and infrastructure barriers to adopting AI for healthcare more broadly. For more information, read the full AI in healthcare report.

DEFINITIVE HEALTHCARE