Improving health outcomes with precision insights

We're in a new age of healthcare, and it's both exciting and challenging, as all stakeholders must learn to evolve and adapt to an ever-expanding body of data. But not all innovations create meaningful benefits, and the impact associated with care that's not clinically appropriate creates a burden on our entire health system. **With so many different sources of medical information, we need a way to harness it and ultimately provide better care and better experiences.**

The speed of medical knowledge

73 days

73 days is the estimated amount of time it takes for available medical knowledge to double.[1]

For 2020 graduates

what's learned in the first 3 years of medical school will be just 6% of what is known at the end of the decade.[2]

4x

is how often that medical knowledge doubled while 2020 medical student graduates were in school.[1]

More than 600,000

articles are published in biomedical literature every year.[2]

Industry innovation

90%

of acute kidney injuries can be predicted by machine learning 48 hours earlier than traditional methods.[3]

161.7%

is the growth rate of artificial intelligence (AI) in healthcare from 2019 to 2021.[4]

84.1%

of cardiac arrests can be identified by AI based on descriptions provided by 911 callers.[5]

60%

more new drugs were approved for sale in the last 10 years than in the previous decade.[6]

Administrative overload

16 min, 4 sec

is the average time a doctor spends using electronic medical records per patient, which is longer than the average appointment time of 15 minutes.[7]

27%

Only 27% of physicians time is spent interacting with patients.[3]
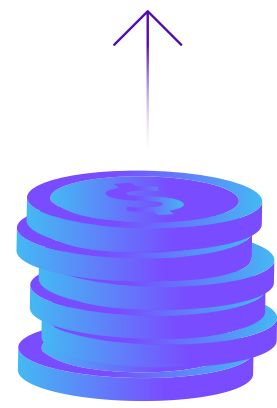
1 in 20

people are misdiagnosed because of data errors.[9]

47%

of physicians feel burned out.[1]

The cost of less-than-optimal care

18.3%

of the U.S. gross domestic product is spent on healthcare.[4]

10%

of all U.S. deaths are caused by communication-related medical errors.[12]

More than 100,000

people report medication errors to the U.S. Food and Drug Administration every year.[13]

20–25%

of U.S. healthcare spending is wasteful.[14]

Our perspective:
Research and data hold the keys to health outcomes

It takes a deep understanding of medical science and real-world clinical practices to provide effective care. Health plans need to make that knowledge easily accessible for health professionals through next-generation data and technology — all while ensuring that patients are receiving affordable, quality care.

Carelon can help health plans navigate this ever-changing landscape by developing and automating clinical pathways. This helps inform care, create new insights to improve care, and leverage data and technology to pinpoint care and improve workflows.

1 National Library of Medicine: Challenges and Opportunities Facing Medical Education (accessed September 2023):
https://bit.ly/46Fkyn2
2 National Library of Medicine: Challenges and Opportunities Facing Medical Education (accessed September 2023):
https://bit.ly/46Fkyn2
3 Annals of Internal Medicine: Allocation of Physician Time in Ambulatory Practice: A Time and Motion Study in 4 Specialties: (accessed September 2023):
https://bit.ly/3RVmh3Q
4 Centers for Medicare & Medicaid Services: National Health Expenditure Data Fact Sheet, 2021 (accessed September 2023):
https://bit.ly/3ZPoxfa
5 Accenture: The Hidden Cost of Healthcare System Complexity: (accessed September 2023):
https://bit.ly/46FvYbb
6 National Center for Health Statistics: Health Insurance Coverage: Early Release of Estimates From the National Health Interview Survey, 2021 (accessed September 2023):
https://bit.ly/3RVwME6
7 Gallup: Record High in U.S. Put Off Medical Care Due to Cost in 2022: (accessed September 2023):
https://bit.ly/3PVhNd8
8 Gallup: Record High in U.S. Put Off Medical Care Due to Cost in 2022: (accessed September 2023):
https://bit.ly/3PVhNd8
9 The Commonwealth Fund: Mirror, Mirror 2021: Reflection Poorly. Health Care in the U.S. Compared to Other High-income Countries: (accessed September 2023):
https://bit.ly/3QeoV3o
10 American Medical Association: Policy Research Perspectives: (accessed September 2023):
https://bit.ly/3PK47PG
11 JAMA Network: Waste in the US Health Care System, Estimated Costs and Potential for Savings: (accessed September 2023):
https://bit.ly/45sSzWW
12 JAMA Network: Waste in the US Health Care System, Estimated Costs and Potential for Savings: (accessed September 2023):
https://bit.ly/45sSzWW
13 American Medical Association: Practice Transformation: Research: (accessed September 2023):
https://bit.ly/3rPaOw
14 Guidehouse: Healthcare Consumer Digital Experience Analysis: (accessed September 2023):
https://bit.ly/407Tipz

carelon