

# Discovering health insights. Accelerating healthcare transformation.

AMIA is a community committed to the vision of a world where informatics transforms people's care. Every day, millions benefit from informaticians' ability to accelerate healthcare's transformation by collecting, analyzing and applying data directly to care decisions.

Data produced throughout health and healthcare is the driving force of informatics and its ability to innovate critical advancements to improve the lives of people who seek support at their most vulnerable moments.

AMIA's members are critical to discovering these insights, which is why AMIA is the professional home for the informaticians of today and the driver of informatics' future.

## 5,400 Informaticians from 65+ Countries

Our members are always thinking about how to make healthcare better, more effective and more efficient. They are curious and dream about finding answers to seemingly unsolvable problems. They are:

- Clinicians delivering informed, quality care
- Researchers advancing discovery and developing cures
- Public health experts managing diseases and improving populations
- Educators teaching the next generation of health practitioners
- Analysts and scientists developing the most innovative health technology

## Transforming Health Through Informatics Education, Science and Practice

The solutions to today's healthcare challenges are out there. AMIA and its members are finding them and transforming the future of healthcare through informatics.



**Translational bioinformatics:** Applying informatics to optimize biomedical and genomic data into predictive, preventive and participatory health.



**Consumer health informatics:** Applying informatics from the perspective of multiple consumer or patient views, such as health literacy and consumer education.



**Clinical research informatics:** Applying informatics to discover and manage new knowledge related to health and disease, such as patient safety and clinical trials.



**Public health informatics:** Applying informatics to the areas of public and population health, such as surveillance, reporting and health promotion.



**Clinical informatics:** Applying informatics to delivering healthcare services in care facilities, such as hospitals and community health centers.



# Accelerating the Power of Healthcare Artificial Intelligence through Informatics

Healthcare has always been a data intense exercise and the healthcare industry has rapidly been increasing its investment in health information technology over the last two decades.

In some health sectors, results already show the acceleration of investment in data sciences. In some areas like drug development, advances are quickening because the data can be easily structured and artificial intelligence (AI) can do many of the computational research processes faster and more consistently. In other areas, like hospital care, it will take longer to achieve breakthroughs based on AI because large amounts of the data being generated are unstructured and many hospitals are under-investing in informatics. As machine learning improves concurrently, and natural language processing is able to review the unstructured data, which are mostly doctors' notes, and categorize the information, AI will support informatics to pull better insights from the vast amounts of data.

## To scale AI investments effectively, the healthcare industry must prioritize tools and resources that:

- Integrate seamlessly in the practice of medicine
- Require expertise in and connection with doctors and nurses
- Utilize the science and practice of health informatics to collect, analyze and apply the data from the technology to care decisions

## With this, the hospital industry will be able to:

- Predict and prevent common infections in every hospital and health system
- Address key social determinants of health for all vulnerable populations
- Help people better manage all health behaviors

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