

PRECISION MEDICINE: Four Trends Make It Possible

1 DECISION SUPPORT METHODS HARNESS THE POWER OF THE HUMAN GENOME



Precision medicine uses genomic information (in addition to medical histories and patients' self-reported experiences) to determine the best care for each individual.

2 HEALTHCARE LEVERAGES BIG DATA ANALYTICS AND MACHINE LEARNING TECHNOLOGIES

In precision medicine, researchers and clinicians will need analytical tools (e.g., machine learning) that can turn vast amounts of complex data into insights about care.



3 REIMBURSEMENT METHODS INCENTIVIZE HEALTH SYSTEMS TO KEEP PATIENTS WELL



The shift in reimbursement incentivizes health systems to take the types of actions that create the data precision medicine requires.

4 EMERGING TOOLS ENABLE MORE DATA, MORE INTEROPERABILITY

Precision medicine needs more methods to get more data; Some researchers are proposing using blockchain to pay patients for their clinical data, internet-of-things data, or genomic data.

