Foundational Articles and Reports

**Communities in Action: Pathways to Health Equity – Report Highlights**
This summary shares highlights from the first report in a series of consensus reports from the NAM Culture of Health Program. In this report, health equity is defined as the state in which everyone has the chance to attain their full health potential, and no one is disadvantaged from achieving this potential because of social position or any other defined circumstance. It details the root causes and linkages between ongoing health inequities and external factors outside individual behaviors and choices. The summary emphasizes the importance of eliminating health inequities and offers suggestions for elevating communities and incorporating community-based solutions for system-level changes.

**Artificial intelligence in healthcare: An essential guide for health leaders**
This article provides definitions for different components of AI technology, such as ML, natural language processing (NLP), and AI voice technology assistants. Examples of the use of AI technologies in health care to help support system capabilities are described, such as monitoring population health, providing clinical decision support at the point of care, and improving operational efficiency. The article explains how AI-powered automation can work in collaboration with people and health care organizations when AI technologies are thoughtfully embedded into workflows, and provides further recommendations for the development and implementation of AI in health care.

**Artificial Intelligence in Health Care: The Hope, the Hype, the Promise, the Peril – Summary**
This summary is an excerpt of the NAM Special Publication of the same name, which is a part of an initiative to explore and gain further understanding of barriers that should be addressed to advance the use of artificial intelligence (AI) and machine learning (ML) in health care settings. The summary presents an overview of key themes and opportunities for considerations to ensure the responsible use of AI tools. These themes call out the importance of using high-quality datasets that are representative of diverse populations; prioritizing ethical care, equity, and inclusivity; promoting trust; providing education and training on the development and deployment of AI tools; and identifying and leveraging existing frameworks and best practices within the learning health care system.

**The Shortest Guide to Artificial Intelligence / Episode 29 - The Medical Futurist**
In this video, Dr. Bertalan Mesko explains how artificial intelligence (AI) plays an active role in daily living, whether a person uses Amazon, Spotify, Uber, or any streaming service. Dr. Mesko provides a breakdown of what AI is, how it works, and how end-users could benefit from it using various examples. After sharing common AI functionalities, Dr. Mesko introduces AI in healthcare and advocates for the responsible capitalization of AI to advance and revolutionize medicine.

Topic-specific Articles and Reports

**Power and Progress in Algorithmic Bias**
This report synthesizes the work of the Data Stewardship for Good, an initiative of the Aspen Institute and Center for Inclusive Growth. The mission of this effort is to elevate voices and ideas of inclusion, equity, and justice, particularly in the digital domain. In working towards this mission, the Data Stewardship for Good Initiative highlights the harmful impacts of algorithmic bias on historically excluded communities. This work included conducting an extensive literature review, interviewing scholars and experts across disciplines, and convening key stakeholders to discuss recommendations for solutions. The report summarizes findings, outlines persistent challenges, and introduces a digital bill of rights for consideration to support low-income, marginalized communities that may be negatively impacted by automated systems.
Algorithmic Bias Playbook

This playbook was designed by Berkeley Public Health Professor, Ziad Obermeyer, and a team of researchers at the University of Chicago Booth School of Business to help health care organization leaders, technical teams in health care, policymakers, and regulators identify and address biased algorithms that can lead to errors in decision-making. The authors describe a framework for adoption to find and mitigate biased algorithms, which involves listing the inventory of algorithms being used or developed, screening each one for bias, improving or suspending the use of biased algorithms, and putting structures in place to prevent future bias. The playbook works through concrete examples and break down each step to help guide end-users.