PriMera Scientific Surgical
Research and Practice
Volume 7 Issue 1 January 2026
ISSN: 2836-0028

PriMera Scientific Publications

The Impact of Personalized Medicine on Modern Healthcare

Type: Editorial
Received: September 15, 2025
Published: December 18, 2025

Citation:
Kavita Dhinsa. "The Impact of Personalized Medicine on Modern Healthcare". PriMera Scientific Surgical Research and Practice 7.1 (2026): 01.

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Personalized medicine, also known as precision medicine, is revolutionizing the way we approach healthcare and treatment. By tailoring medical care to individual genetic, environmental, and lifestyle factors, personalized medicine offers more effective and targeted therapies, minimizing adverse effects and improving outcomes.

Advancements in genomics and molecular diagnostics enable healthcare providers to identify specific biomarkers associated with various diseases, such as cancer, cardiovascular conditions, and autoimmune disorders. This allows for the development of customized treatment plans that are more likely to succeed for each patient.

Moreover, personalized medicine enhances drug efficacy and reduces trial-and-error prescribing, ultimately saving time and resources. It also opens new avenues for early diagnosis and prevention, shifting the focus from reactive to proactive healthcare.

Despite its promising potential, challenges such as cost, ethical considerations, and the need for extensive data integration remain. Nonetheless, the ongoing evolution of personalized medicine promises a future where treatments are more precise, effective, and aligned with individual patient profiles, heralding a new era in medical science.