

Global AI In Cancer Diagnostics Market 2023

<https://marketpublishers.com/r/G539A812B372EN.html>

Date: November 2023

Pages: 89

Price: US\$ 2,550.00 (Single User License)

ID: G539A812B372EN

Abstracts

Description

Artificial intelligence is increasingly permeating cancer diagnostics through sophisticated algorithms capable of deriving insights from vast, multifaceted medical datasets. AI leverages machine learning to recognize patterns across imaging, genomic sequencing, electronic health records and related clinical sources to support medical decision making.

Traditional diagnostic methods often struggle to keep pace with today's deluge of aggregated cancer data and evolving disease complexities. AI assists physicians by sifting through minutiae humans may overlook and quantifying subtle anomalies. Through automated image analysis, genomic pattern identification and biomarker correlation, AI enhances detection capabilities at early treatable stages.

Recent projections anticipate the global market value of AI in cancer diagnostics to surge approximately \$508.8 million by 2029. This represents a robust compound annual growth rate of 22.3% over the forecast period, underscoring burgeoning opportunities in therapeutic advancement through AI-driven precision.

Chief market drivers relate to escalating cancer prevalence in tandem with rising awareness of early detection's impact on prognosis. Integrating AI into diagnostic workflows has demonstrated accuracy improvements and optimized clinical workflows. As algorithms continue learning from expanded real-world evidence, diagnostic consistency and reliability increases.

Further expansion momentum stems from AI's role in tailoring individualized treatment plans. By discerning intricate molecular subtypes and biomarker interactions across heterogeneous patient populations, AI guides targeted therapies with enhanced

likelihood of success. AI also monitors treatment responses, facilitating timely modifications maximizing outcomes.

Market Segmentation

This comprehensive industry report provides market estimates and forecasts, accompanied by a detailed examination of the component, cancer type, end user, and region aspects. It delivers a quantitative analysis of the market, empowering stakeholders to leverage existing market opportunities. Furthermore, the report identifies key segments for potential opportunities and strategies, drawing insights from market trends and the approaches of leading competitors.

- Component: software, hardware, services
- Cancer type: breast cancer, lung cancer, prostate cancer, colorectal cancer, brain cancer, others
- End user: hospitals, surgical centers, others
- Region: Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America

The global AI in cancer diagnostics market can be analyzed based on cancer subtype, where breast cancer currently dominates as the principal application. Various AI technologies are being leveraged at accelerated rates to augment breast tumor detection capabilities through non-invasive imaging interpretation. Automated image segmentation and lesion identification aided by deep convolutional neural networks support pathologists in analyzing vast archives of mammographic data.

While breast cancer maintains leadership in terms of current market share, brain cancer profiles as the fastest growing segment over the coming years according to available projections. As the prevalence of brain and central nervous system malignancies rises in step with aging populations, needs escalate for enhanced diagnostic precision guiding neuro-oncological management. MRI and PET scan integration with AI exhibits promising potential to recognize subtle abnormalities and discern tumor margins obscured on conventional reads.

Additionally, the complexity of brain cancer histologies confounds even experienced practitioners. AI shows early promise aiding histopathological classification and grading

which directly impact targeted therapeutic selections. As algorithms continue training on accumulated neuro-imaging datasets, specificity and sensitivity gains could bolster early intervention strategies crucial for this devastating disease entity.

Geographically, North America holds the largest share of the global AI in cancer diagnostics market currently, representing nearly half of total revenues as of 2022. Several complementary factors have positioned the region at the forefront, including widespread digitization across healthcare sectors and supportive policies incentivizing innovation.

Established medical infrastructure in nations like the United States has facilitated data aggregation integral to AI algorithm training on vast diagnostic troves. Considerable public and private investments from major technological players have accelerated research translating insights into clinical applicability.

North America also suffers disproportionately from cancer incidence attributable to lifestyle and environmental variables. Rising disease prevalence amid aging demographics correspondingly bolsters adoption incentives. Patient awareness of AI benefits meanwhile encourages consent to aggregated longitudinal records fortifying technological progress.

Meanwhile, Asia Pacific emerges as the fastest growing regional market, projected to expand over 26.2% annually through 2029. Government-led initiatives established to encourage healthcare systems modernization and enable preventative community care models drive related technology transfers.

Population giants India and China pouring resources into digital health infrastructure development establish robust platforms for scaled AI integration moving forward. Private corporations and philanthropic groups alike recognize immense return on investment potentials by empowering medical practitioners with augmented decision support tools.

Major Companies and Competitive Landscape

The report has also analyzed the competitive landscape of the global AI in cancer diagnostics market with some of the key players being Alphabet Inc., Beijing Deepwise Science And Technology Co., Ltd., Cancer Center Sp. z o.o., Flatiron Health, Inc., Ibx Medical Analytics Ltd., IBM Corporation, Kheiron Medical Technologies Limited, Medial EarlySign Ltd., Microsoft Corporation, Mindpeak GmbH, Paige AI, Inc., PathAI, Inc., SkinVision B.V., Tempus Labs, Inc., Therapixel SA, Vysioneer Inc., among others. In

this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

Scope of the Report

To analyze and forecast the market size of the global AI in cancer diagnostics market.

To classify and forecast the global AI in cancer diagnostics market based on component, cancer type, end user, region.

To identify drivers and challenges for the global AI in cancer diagnostics market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global AI in cancer diagnostics market.

To identify and analyze the profile of leading players operating in the global AI in cancer diagnostics market.

Why Choose This Report

Gain a reliable outlook of the global AI in cancer diagnostics market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

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