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Clinical Decision Support Systems (CDSS) Market by Component (Services, Software), Delivery (On-premise, Cloud), Product (Standalone, Integrated), Application (Advanced, Therapeutic, Diagnostic), Interactivity (Active, Passive) - Global Forecasts to 2028

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Abstracts

The global clinical decision support systems (CDSS) market is projected to reach USD 2.5 billion by 2028 from USD 1.7 billion in 2023, at a CAGR of 7.5% during the forecast period. The growth of this market is primarily driven by the implementation of government regulations and initiatives to promote the adoption of HIT solutions, increasing adoption of CDSS-enabled EHRs, growing collaborations and partnerships between stakeholders, rising incidence of medication errors, and the development mHealth and big data tools.

However, high investment requirements for the implementation of CDSS and inadequate interoperability coupled with rising data security concerns are factors expected to restrain the growth of this market during the forecast period.

“Software segment is expected to grow at the highest rate from 2023 to 2028”

By component, the clinical decision support systems market is divided into services, software, and hardware. The services segment accounted for the largest share of this market in 2022 The demand for services is expected to grow rapidly in the coming years due to the introduction of complex software, integration, and software interoperability, which requires extensive training and upgrades.

"The On-premise CDSS segment is estimated to account for the largest share of the Clinical decision support systems market in 2023"

By delivery mode, the clinical decision support systems market is divided into on-premise and cloud-based modes. In 2023, the on-premise CDSS segment is projected to hold the largest share of the clinical decision support systems market.Factors such as lower capital expenses and operational costs incurred in this model, together with its scalability, flexibility, and low-cost are driving the market growth.

"In 2022, conventional CDSS segment accounted for the largest share of the global Clinical decision support systems market, by application"

By application, the clinical decision support systems market is divided into conventional CDSS and advanced CDSS. The conventional CDSS segment accounted for the largest share of the market in 2022. Factors such as healthcare organizations are adopting conventional decision support systems to provide guidance and reminders to caregivers at the point-of-care are driving the market growth.

"In 2022, Integrated CDSS segment accounted for the largest share of the global Clinical decision support systems market"

By product, the clinical decision support systems market is divided into integrated CDSS and standalone CDSS. The integrated CDSS segment accounted for the largest share of the market in 2022. The large share of this segment can be attributed to the reduce medication errors by healthcare providers and increased usage of integrated CDSS to improve the health outcomes and quality of care .

"The therapeutic CDSS segment is expected to grow with the highest CAGR from 2023 to 2028"

By type, the clinical decision support systems market is divided into therapeutic CDSS and diagnostic CDSS. The therapeutic CDSS segment dominated this market in 2022 This highest growth rate of this segment can be attributed to factors such as as therapeutic CDSS is equipped with a high computational capacity and a wealth of medical knowledge, making it plausible for clinicians to make informed therapeutic decisions (based on patient-specific medical facts).

"Knowledge-based CDSS segment accounted for the largest share of the global Clinical decision support systems market, by model"

The clinical decision support systems market is categorized into two main models: knowledge-based CDSS and non-knowledge-based CDSS. In 2022, the knowledge-based CDSS segment held the largest market share. This particular segment is projected to experience substantial growth throughout the forecast period. This growth can be attributed to the escalating need for personalized and evidence-based medicine, alongside the growing prevalence of chronic ailments.

“The Active CDSS segment is expected to grow with the highest CAGR during the forecast period”

The clinical decision support systems market can be categorized based on interactivity level into active CDSS and passive CDSS. In 2022, the active CDSS segment dominated the market share, and it is anticipated to exhibit the most rapid growth rate during the forecast period. Strong governmental efforts aimed at fostering clinical IT solutions, including EHR, CDSS, and CPOE, along with the increasing imperative to control healthcare expenditures, contribute to the advancement of this specific market segment.

“Inpatient settings accounted for the largest share of the global Clinical decision support systems market in 2022”

In terms of setting, the clinical decision support systems market is categorized into inpatient and ambulatory care settings. In 2022, the inpatient settings dominated the CDSS market share. This dominance can be attributed to the substantial accumulation and analysis of extensive patient data within inpatient settings, consequently driving the heightened uptake of integrated healthcare IT modules.

“North America to dominate the Clinical decision support systems market in 2023”

North America accounted for the largest share of the global clinical decision support systems market in 2022.

Elements including the existence of major industry participants, regulatory directives that support CDSS adoption, and the rise in medication errors in the US and Canada contribute to these trends.

Forecasts indicate that the Asia Pacific region will witness the most significant compound annual growth rate (CAGR) throughout the projected timeframe. This is due

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to factors such as the escalating prevalence of chronic illnesses and the growing attention of diverse market stakeholders toward emerging Asian nations. These factors are anticipated to propel the expansion of the clinical decision support systems market in the Asia Pacific region.

Breakdown of supply-side primary interviews, by company type, designation, and region:

By Company Type: Tier 1 (45%), Tier 2 (35%), and Tier 3 (20%)

By Designation: C-level (26%), Director-level (17%), and Others (57%)

By Region: North America (40%), Europe (20%), Asia Pacific (30%), and Latin America (6%), MEA(4%)

Prominent players operating in the clinical decision support systems market are Wolters Kluwer N.V. (Netherlands), Oracle (US), Merative (US), Change Healthcare (US), Veradigm Inc. (US), athenahealth (US), Epic Systems Corporation (US), Elsevier B.V. (Netherlands), Zynx Health (US), Koninklijke Philips N.V. (Netherlands), Medical Information Technology, Inc. (US), NextGen Healthcare, Inc. (US), CureMD Healthcare (US), Siemens Healthineers (Germany), EBSCO Information Services (US), GE HealthCare (US), eClinicalWorks (US), The Medical Algorithms Company (UK), RAMPmedical (Germany), Hera-MI (France), CareCloud, Inc. (US), VisualDx (US), Premier, Inc. (US), First Databank, Inc. (US), and Strata Decision Technology (US).

Research Coverage

The report studies the Clinical decision support systems market based on component, delivery mode, product, model, interactivity level, application, setting, type, and region

The report analyzes factors (such as drivers, restraints, opportunities, and challenges) affecting the market growth

The report evaluates the opportunities and challenges in the market for stakeholders and provides details of the competitive landscape for market leaders

The report studies micro-markets with respect to their growth trends, prospects, and contributions to the total Clinical decision support systems market

The report forecasts the revenue of market segments with respect to four major regions

Reasons to Buy the Report

The report will enrich established firms as well as new entrants/smaller firms to gauge the pulse of the market, which in turn would help them, garner a more significant share of the market. Firms purchasing the report could use one or any combination of the below-mentioned strategies to strengthen their position in the market.

This report provides insights into the following pointers:

Analysis of key drivers (implementation of government regulations & initiatives to promote the adoption of HCIT solutions, increasing adoption of cdss-enabled ehrs,growing collaborations & partnerships between stakeholders, growing incidence of medication errors ,development of big data and mhealth tools), restraints (data security concerns related to cloud-based cdss, inadequate interoperability), opportunities (growth potential of emerging markets, social media integration and rising technological advancements), challenges (requirement of high investments for the implementation of CDSS infrastructure ,shortage of skilled IT professionals in the healthcare industry).

Market Penetration: Comprehensive information on product portfolios offered by the top players in the global Clinical decision support systems Market. The report analyzes this market by component, delivery mode, product, model, interactivity level, application, setting, type.

Service Enhancement/Innovation: Detailed insights on upcoming trends in the global Clinical decision support systems

Market Development: Comprehensive information on the lucrative emerging markets by component, delivery mode, product, model, interactivity level, application, setting, type.

Market Diversification: Exhaustive information about new services or service enhancements, growing geographies, recent developments, and investments in the global Clinical decision support systems Market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, product offerings, company evaluation quadrant, and capabilities of leading players in the global Clinical decision support systems Market.

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*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

17 APPENDIX

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