

US Emergency Department Information System Market Size and Forecasts (2020 - 2030), Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: By Type (Best-of-Breed Solutions and Enterprise Solutions); Application (Order Entry, Clinical Documentation, Patient Tracking, E-Prescribing, and Others), End User (Small Hospitals, Medium-Sized Hospitals, and Large Hospitals), and Country

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Abstracts

The US Emergency Department Information System Market is projected to reach US\$ 0.763 billion by 2030 from US\$ 0.281 billion in 2022; it is expected to grow at a CAGR of 13.31% from 2022 to 2030.

Factors such as increased patient flow at emergency departments and the adoption of emergency department information systems propel are expected to drive the US emergency department information system market growth. However, the huge investments and lack of skilled healthcare may hinder the US emergency department information system market growth.

Emergence of Cloud-Based EDIS Services to Boost the US Emergency Department Information System Market in Future

The use of cloud-based healthcare information services to increase the cost-efficiency of care services is gaining traction among healthcare providers due to an increased focus on patient-centered health services and system interoperability. For instance,

Shannon Health introduced 'RI Triage' for use in emergency rooms in December 2021 after deploying the most recent clinical decision support technology from PeraHealth. Cloud computing has become an 'emerging paradigm' in information technology for scalable, internet-based, real-time applications and resources to satisfy end users' needs. Cloud-based healthcare applications meant to serve patients in emergency conditions involve centralized cloud databases fed with individuals' medical histories mentioned in a single summarized document. The patient's medical history can be retrieved from the cloud database before starting any crucial operation in any accident or emergency. Such systems can also be integrated with state-owned unique identification number systems. Emergency departments can then access the data, view upcoming patient arrival times, and update patient arrival statuses.

Based on type, the US emergency department information system market is segmented into enterprise solutions and best-of-breed solutions. The best-of-breed solutions segment will likely hold the market's largest share in 2022. The enterprise solutions segment is likely to hold the largest share of the market in 2022 and the same segment is anticipated to register the highest CAGR in the market during the forecast period.

Enterprise solutions integrate a provider's branches and multiple legal entities through a centralized and distributed architecture in which data is synchronized to create a single database. The solution complies with the WHO, healthcare legal requirements, and insurance requirements. It is a cloud-based system that allows users to access real-time data from anywhere at any time. A centralized system manages all legal and financial entities in the enterprise solution, which makes business productive. The expanding usage of big data in healthcare, increasing acceptance of EHR/EMR, regulatory mandates, and financing for the preservation of electronic patient health records are propelling the enterprise solutions segment growth.

The US emergency department information system market, by application, is segmented into computerized physician order entry (CPOE), clinical documentation, patient tracking, e-prescribing, and others. The computerized physician order entry (CPOE) segment held the largest share of US emergency department information system market in 2022 and same segment is anticipated to register the highest CAGR during 2022–2030. Computerized physician order entry (CPOE) is a software tool that assists doctors in entering medical orders into computer systems in ambulatory and inpatient settings. Many old ways of enlisting medicine orders, including spoken (in person or over the phone), written (paper prescriptions), and fax, are being replaced by CPOE. Users can define prescription orders and laboratory, referral, admission, imaging, and treatment orders electronically using these platforms. Government

attempts to upgrade the IT infrastructure and information technology that aids in lowering healthcare expenses are driving the market for the CPOE segment.

US emergency department information system market by end user is segmented into small hospitals, medium-sized hospitals, and large hospitals. The medium-sized hospitals segment will likely lead the US emergency department information systems market in 2022. The same segment is expected to dominate during the forecast period 2022–2030. Hospitals invest in information technology such as EDIS and EHR to lower expenses and improve care quality. Hospitals classified as medium-sized have between 94 and 277 general and surgical beds. The removal of decision support or patient level from the model resulted in insignificant correlations between all postulated paths, according to further study of the EHR construct. Further research revealed that the presence of these two variables alone resulted in a statistically meaningful association with general safety, whereas all other routes were found to be insignificant. As a result, medium-sized hospitals should think about investing in emergency department information systems or electronic health record technologies that focus on decision support and patient-level data. According to the research, these applications can improve overall safety in medium-sized hospitals.

The World Health Organization (WHO), Centers for Disease Control and Prevention (CDC), US Food and Drug Administration (FDA), Emergency Department Information Systems (EDIS), Digital Healthcare Research (DHR) and Ministry of Food and Drug Safety (MFDS) are among some of the primary and secondary sources referred to while preparing the report on the US emergency department information system market.

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