

United States Smart Hospitals Market By Component (Hardware, Software System, Services) By Technology (Cloud Computing, Artificial Intelligence, Wearable Technologies, Others) By Connectivity (Wired, Wireless) By Application (Remote Medicine Management, Medical Connected Imaging, Medical Assistance, Electronic Health Record, Others) By Services Offered (General Services, Specialty, Super Specialty), By Region, Competition, Forecast and& Opportunities, 2018-2028F

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Abstracts

United States Smart Hospitals Market is anticipated to project steady growth in the forecast period. Smart hospitals are cutting-edge medical facilities that leverage advanced technology, data analytics, and automation to revolutionize patient care, operational efficiency, and overall healthcare delivery. These institutions go beyond traditional healthcare settings by integrating a wide range of digital solutions, including electronic health records, real-time location systems, and Internet of Things (IoT) devices. By harnessing the power of these technologies, smart hospitals streamline and optimize various processes, such as patient registration, resource allocation, and treatment planning. For instance, electronic health records enable seamless access to patient information, facilitating accurate diagnosis and personalized treatment plans. Real-time location systems enhance staff coordination and asset management, ensuring that medical equipment and supplies are readily available when needed. Moreover, smart hospitals embrace the concept of remote patient monitoring, enabling healthcare professionals to remotely track patients' vital signs and health conditions.

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This proactive approach allows for early detection of potential health issues and timely intervention, leading to improved patient outcomes and reduced hospital readmissions.

Through intelligent monitoring and data analysis, smart hospitals gain valuable insights into patient trends, resource utilization, and overall operational performance. This datadriven approach empowers healthcare providers to make informed decisions, optimize workflows, and allocate resources more effectively. By embracing these innovative approaches, smart hospitals strive to establish a higher standard of healthcare, where patient well-being is prioritized, and efficiency is maximized. Ultimately, these advancements in technology and data-driven healthcare pave the way for a future where medical services are more personalized, accessible, and effective.

Key Market Drivers

Modernization of Healthcare Infrastructure

The modernization of healthcare infrastructure is anticipated to significantly boost the demand for smart hospitals in the United States. As the digital revolution sweeps across the healthcare sector, hospitals are increasingly pivoting towards smart technologies to provide enhanced patient care. These advancements include the incorporation of artificial intelligence (AI), machine learning, Internet of Things (IoT), and big data analytics into healthcare services. Smart hospitals represent a convergence of these technologies, creating an interconnected environment that optimizes healthcare delivery and patient outcomes.

In smart hospitals, the implementation of predictive analytics can aid in early detection of diseases, thereby improving treatment efficacy. Through AI-powered virtual assistants, administrative tasks can be streamlined, freeing up healthcare professionals to focus more on patient care. Furthermore, the adoption of IoT devices enhances remote patient monitoring, reducing hospital readmissions. The push for healthcare infrastructure modernization, coupled with the growing recognition of the benefits of digital health technologies, is expected to spur the growth of smart hospitals in the United States. With these technological advancements, patients can experience more personalized and efficient healthcare services, leading to improved overall well-being and outcomes.

Increasing Penetration of Connected Devices and Instruments in Hospitals



The burgeoning penetration of connected devices and instruments within hospitals marks a significant stride towards the transformation of traditional healthcare facilities into smart hospitals, particularly in the United States. This trend is largely driven by the increasing demand for efficient and quality care, coupled with the necessity of integrating advanced technologies to streamline operations. Smart hospitals utilize connected devices to create a digitized environment that optimizes resource utilization and enhances patient care. These devices supplement the efforts of medical professionals through precision and automation, thereby reducing human errors. Furthermore, the integration of Artificial Intelligence (AI), Internet of Things (IoT), and data analytics enables predictive analysis, remote patient monitoring, and personalized treatment plans, thereby elevating patient outcomes and experience.

With the increasing penetration of connected devices in hospitals, healthcare providers can access real-time patient data, enabling timely interventions and proactive care management. This data-driven approach enhances the accuracy of diagnoses and treatment decisions, leading to improved patient outcomes. Additionally, the seamless communication among medical devices and systems facilitates efficient coordination among healthcare teams, enhancing collaboration and reducing response times. Moreover, smart hospitals embrace innovative technologies such as telemedicine and wearable devices, enabling remote patient monitoring and virtual consultations. This not only expands access to healthcare services but also empowers patients to actively participate in their own care. Patients can conveniently track their vital signs, receive medication reminders, and access educational resources, promoting self-management and preventive care. In conclusion, the increasing penetration of connected devices in hospitals signifies a promising future for the growth of smart hospitals in the United States. By leveraging advanced technologies and data analytics, smart hospitals are revolutionizing healthcare delivery, ensuring efficient and personalized care for patients while enhancing overall health outcomes.

Integration Of IoT Devices Within Healthcare Systems

The integration of Internet of Things (IoT) devices within healthcare systems is revolutionizing the landscape of hospitals in the United States, giving rise to the concept of 'Smart Hospitals'. These hospitals leverage the power of IoT to enhance patient care, optimize clinical operations, and improve overall efficiency. Through the deployment of intelligent devices, such as wearable sensors, connected medical equipment, and remote patient monitoring systems, Smart Hospitals enable real-time patient data collection and analysis. This data-driven approach empowers healthcare providers to make informed decisions promptly, leading to improved patient outcomes. Moreover,



the integration of IoT in healthcare settings enables the automation of workflows, predictive maintenance of devices, and improved resource allocation. These advancements significantly contribute to cost savings and enhanced patient satisfaction. By streamlining operations and allocating resources more effectively, Smart Hospitals can address challenges such as escalating costs, resource constraints, and rising patient expectations.

As the healthcare sector continues to navigate the complexities of the modern era, the advantages offered by IoT are likely to fuel the demand for Smart Hospitals. Industry forecasts predict a substantial surge in this demand, propelled by the ongoing digital healthcare transformation and increased focus on patient-centric care models. This transformation represents a promising opportunity for technology providers, healthcare institutions, and patients alike, fostering a more effective, personalized, and sustainable healthcare ecosystem. The integration of IoT devices in healthcare is reshaping the hospital landscape, ushering in a new era of Smart Hospitals. With their ability to improve patient care, optimize operations, and enhance resource allocation, Smart Hospitals hold great potential for transforming the healthcare industry.

Increased Investment in E-Health

The United States is witnessing an escalating trend towards increased investment in E-Health, a development expected to significantly amplify the demand for smart hospitals in the country. E-Health is the utilization of information and communications technology in healthcare to enhance healthcare delivery, patient care, and health education. As investments surge, the adoption of E-Health technologies in hospitals is expected to rise considerably, driving the demand for the integration of these technologies into a comprehensive, smart hospital system. Smart hospitals harness advanced digital technologies to create an interconnected and efficient healthcare environment, improving patient outcomes and operational efficiency. They employ E-Health technologies such as Electronic Health Records (EHR), telemedicine services, and Aldriven diagnostic tools, transforming the traditional hospital experience into a more streamlined, patient-centric one. With increased financial backing, the potential for E-Health to revolutionize healthcare infrastructure is immense. The U.S, being a leading player in healthcare innovation, stands at the forefront of this transformation. The surge in E-Health investment, therefore, represents a powerful catalyst for the expansion of smart hospitals across the nation, promising a future of enhanced healthcare delivery and improved patient experiences.

Key Market Challenges



High Cost of Connected Systems

The proliferation of Smart Hospitals in the United States is plagued by the high costs associated with implementing connected systems. These cutting-edge technologies, such as Internet of Things (IoT)-enabled devices and Artificial Intelligence (AI)-driven software, bring about transformative changes in healthcare delivery. However, the initial investment required for infrastructure overhaul, the ongoing expenses for software upgrades and security patches, and the cost of training the existing workforce to adapt to these new technologies all contribute to the financial burden. These substantial expenses may deter smaller healthcare facilities and those in economically challenged regions from transitioning to a Smart Hospital model, thus negatively impacting nationwide adoption rates. Furthermore, the recurrent costs of data storage, system integrations, and potential cybersecurity threats pose additional financial risks to healthcare organizations. These financial implications must be carefully considered and managed to ensure the sustainability and success of Smart Hospital initiatives. While the benefits of connected systems in terms of improved patient care, operational efficiency, and data analytics are undeniable, the high cost of implementation remains a significant challenge.

Addressing the financial barriers associated with Smart Hospital adoption is crucial to accelerate the progress of healthcare digitization in the United States. Innovative approaches, such as public-private partnerships, government funding initiatives, and cost-sharing models, can help alleviate the financial burden on healthcare organizations. By encouraging collaboration and providing financial support, the barriers to entry for Smart Hospitals can be lowered, enabling a broader range of healthcare facilities to embrace these advanced technologies and improve patient outcomes. While the high costs of implementing connected systems pose challenges to the widespread adoption of Smart Hospitals in the United States, proactive measures and collaborative efforts can mitigate these barriers. By addressing the financial implications and promoting innovative funding models, the healthcare industry can pave the way for a future where Smart Hospitals are accessible to all, driving forward the digitization of healthcare and ultimately improving patient care.

Data Security Concerns

Data security concerns are expected to significantly impact the demand for smart hospitals in the United States. As the healthcare sector increasingly adopts digital innovation and interconnected devices, the vulnerability to data breaches also rises.



Patient records, including sensitive personal and medical information, are stored in these systems, which if compromised, can lead to serious violation of privacy and trust. The technological advancements in smart hospitals, while offering improved efficiency and patient care, also pose new challenges in terms of cybersecurity. High-profile cases of data breaches in healthcare have already raised alarm. According to a study by the Ponemon Institute, healthcare organizations are 74% more likely to experience a data breach. It is this fear of security breaches and the associated costs in terms of financial penalties, patient trust, and brand reputation that might dampen the enthusiasm for smart hospitals. In an era where data security is of paramount importance, the demand for smart hospitals could indeed decrease unless robust security measures are implemented to protect sensitive patient data.

Key Market Trends

Adoption of Telemedicine

The shift towards telemedicine is anticipated to significantly boost the demand for smart hospitals in the United States. As the pandemic has accelerated the adoption of digital health services, telemedicine has emerged as an essential player in delivering patient care, especially for those who are unable to attend in-person appointments. This development is contributing to the rise of smart hospitals, which leverage state-of-the-art technologies such as artificial intelligence, the Internet of Things (IoT), and data analytics to optimize patient care and enhance operational efficiency. With telemedicine playing a crucial role in these digital health ecosystems, remote patient monitoring becomes more accessible, reducing the strain on hospital resources and freeing up crucial bed space. Moreover, the integration of telemedicine promotes data-driven decision making, enabling healthcare providers to deliver personalized care and improve patient outcomes. By leveraging advanced technologies, smart hospitals can ensure seamless connectivity between patients and healthcare professionals, facilitating remote consultations, real-time monitoring, and efficient data management.

The escalating demand for telemedicine, driven by its convenience and efficacy, is thus expected to spearhead the proliferation of smart hospitals in the U.S., transforming the healthcare landscape and ushering in a new era of digital health. With continuous advancements in technology and the increasing need for accessible and efficient healthcare services, smart hospitals are poised to revolutionize patient care, while also addressing the evolving healthcare challenges of the future.

Growing Demand for Efficient and Cost-effective Healthcare

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The burgeoning demand for efficient and cost-effective healthcare systems is expected to significantly drive the growth of smart hospitals in the United States. As healthcare costs continue to rise at an alarming rate, there is an urgent need for innovative solutions that can streamline processes, reduce waste, and most importantly, improve patient outcomes. Smart hospitals, leveraging advanced technologies such as the Internet of Things (IoT), Artificial Intelligence (AI), and big data analytics, provide a comprehensive and apt solution to these challenges. By integrating these cutting-edge technologies, smart hospitals can enhance operational efficiency through automated workflows, predictive diagnostics, and personalized patient care.

For instance, AI can be utilized in diagnostic procedures, greatly reducing the potential for human errors and expediting patient treatment. Through AI-powered algorithms, medical professionals can have access to accurate and timely insights, enabling them to make more informed decisions for their patients. Moreover, the use of IoT devices for remote patient monitoring enables continuous care even outside the hospital premises, reducing the need for hospital readmissions and thus lowering healthcare costs.

Furthermore, the utilization of big data analytics enables the handling and analysis of vast amounts of patient data. By leveraging this valuable resource, healthcare providers can gain valuable insights into patient trends, treatment effectiveness, and overall hospital management. This data-driven approach allows for personalized patient treatment plans, ensuring that each individual receives the most appropriate and effective care. Smart hospitals are poised to play a pivotal role in meeting the growing demand for efficient and cost-effective healthcare in the United States. By harnessing the power of advanced technologies, these hospitals can revolutionize the way healthcare is delivered, ultimately improving patient outcomes and reducing healthcare costs.

Segmental Insights

Component Insights

Based on the Component, The Software Systems segment is poised to dominate the United States Smart Hospitals Market due to several key factors. With the rising demand for connected networks that enable efficient data management, real-time patient monitoring, and streamlined hospital operations, this segment has a clear advantage. Furthermore, the advancements in artificial intelligence and machine learning are expected to play a crucial role in further propelling the growth of this



segment. By leveraging these cutting-edge technologies, software systems in smart hospitals can not only enhance efficiency and optimize workflows but also significantly improve patient outcomes. This trend highlights the increasing importance of robust and advanced software solutions in the rapidly evolving healthcare industry, where the need for seamless integration and intelligent monitoring is paramount. The ability of these software systems to provide comprehensive and real-time insights empowers healthcare professionals to make informed decisions, leading to a higher quality of care and improved patient satisfaction. As the demand for smart hospitals continues to grow, the Software Systems segment is well-positioned to capitalize on this opportunity and revolutionize the healthcare landscape.

In addition to the aforementioned factors, the Software Systems segment can further solidify its dominance by focusing on key areas such as interoperability, cybersecurity, and scalability. By ensuring seamless integration with existing hospital systems, prioritizing data security and privacy, and offering scalable solutions that can adapt to evolving needs, these software systems can establish themselves as the go-to choice for smart hospitals nationwide. Moreover, it is worth noting that the Software Systems segment can also contribute to cost savings and operational efficiency within smart hospitals. By automating various processes, optimizing resource allocation, and enabling predictive analytics, these software solutions can help hospitals streamline their operations and reduce unnecessary expenses.

Technology Insights

Based on the Technology, among the diverse technological trends that are shaping the future, Artificial Intelligence (AI) stands out as a transformative force in the United States' smart hospitals market. With its remarkable ability to streamline healthcare processes, enhance patient care, and revolutionize clinical decision-making, AI has the potential to redefine the entire healthcare landscape. By leveraging AI, smart hospitals can not only predict patient trajectories but also personalize treatment plans based on individual needs, taking into account a wide range of factors such as medical history, genetic data, and lifestyle choices. Moreover, the automation of routine tasks through AI can significantly improve operational efficiency, freeing up healthcare professionals to focus on more complex and critical aspects of patient care. Furthermore, AI-powered systems can analyze vast amounts of data in real-time, detecting patterns and anomalies that may not be immediately apparent to human caregivers, thereby enabling early intervention and preventive measures. This integration of AI in the healthcare industry is poised to bring about unprecedented advancements, paving the way for a more connected and intelligent future where technology seamlessly supports and



enhances the delivery of healthcare services.

Regional Insights

The Western region of the United States, particularly California, is currently leading the Smart Hospitals Market. This dominance is driven by its advanced infrastructure, which includes state-of-the-art medical facilities equipped with cutting-edge technology. Additionally, the region has witnessed a significant increase in investment in healthcare technology, with a focus on developing innovative solutions for smart healthcare. Moreover, California boasts a high concentration of key market players, including renowned medical institutions and industry leaders. This collaborative ecosystem fosters a culture of innovation, where ideas are exchanged, and groundbreaking solutions are developed. The state's strategic location on the West Coast also provides easy access to international markets and facilitates collaboration with global healthcare organizations. In addition to its robust healthcare ecosystem, California benefits from a favorable regulatory environment that encourages the adoption of smart technologies in healthcare. The state government has implemented supportive policies and initiatives to promote digitalization and the integration of smart healthcare solutions. Furthermore, California's strong collaboration between industry and academia plays a pivotal role in driving its leadership position in the Smart Hospitals Market. The synergy between research institutions, universities, and healthcare organizations facilitates the development and implementation of cutting-edge technologies, ensuring that California remains at the forefront of healthcare innovation.

The continuous influx of talent to California further strengthens its position as a frontrunner in revolutionizing healthcare through smart technologies. The state attracts top-notch professionals and researchers who contribute to the development of advanced healthcare solutions. Additionally, the research and development initiatives undertaken by various organizations in California drive continuous innovation in the field of smart healthcare. California benefits from strong government support for healthcare innovation and digitalization. The state government allocates resources and funding to support research, development, and implementation of smart technologies in healthcare. This support enables California to stay ahead in the Smart Hospitals Market and drive the transformation of healthcare through digitalization and smart technologies. California's leadership position in the Smart Hospitals Market is attributed to its advanced infrastructure, increased investment in healthcare technology, and a high concentration of key market players. The state's robust healthcare ecosystem, strategic location, favorable regulatory environment, collaboration between industry and academia, influx of talent, and government support all contribute to its success in



revolutionizing healthcare through smart technologies and digitalization.

Key Market Players

GE Healthcare

Honeywell International Inc.

Stanley Healthcare USA

Medtronic PLC

SAP America, Inc.

Microsoft Corporation

Allscripts Healthcare Solutions Inc.

Cerner Corporation

McKesson Corporation

Schneider Electric Healthcare

Report Scope:

In this report, the United States Smart Hospitals Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

United States Smart Hospitals Market, By Component:

Hardware

Software System

Services

United States Smart Hospitals Market, By Technology:

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Cloud Computing

Artificial Intelligence

Wearable Technologies

Others

United States Smart Hospitals Market, By Connectivity:

Wired

Wireless

United States Smart Hospitals Market, By Application:

Remote Medicine Management

Medical Connected Imaging

Medical Assistance

Electronic Health Record

Others

United States Smart Hospitals Market, By Services Offered:

General Services

Specialty

Super Specialty

United States Smart Hospitals Market, By Region:

Northeast Region



Midwest Region

West Region

South Region

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the United States Smart Hospitals Market.

Available Customizations:

United States Smart Hospitals Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).



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