Neonatal Phototherapy Devices Market to Grow at 4.3% CAGR, Says Persistence Market Research

The Neonatal Phototherapy Devices Market is steadily growing with rising neonatal jaundice cases and advanced technology adoption.

Neonatal Phototherapy Devices Market Growth Analysis

BRENTFORD, ENGLAND, UNITED KINGDOM, October 8, 2025 /EINPresswire.com/ -- The neonatal phototherapy devices market plays a crucial role in treating newborns with hyperbilirubinemia, a common condition causing jaundice. These devices, which use specific wavelengths of light to reduce bilirubin levels in the blood, are extensively utilized in hospitals, neonatal intensive care units (NICUs), and clinics worldwide. Phototherapy devices help prevent severe complications such as kernicterus and neurodevelopmental disorders, making them indispensable in neonatal care. According to the latest study by Persistence Market Research, the global neonatal phototherapy devices market size is anticipated to value at US$ 110.4 Mn in 2025 to reach US$147.9 Mn with a CAGR of 4.3% by 2032. Growth is mainly fueled by the rising prevalence of neonatal jaundice, increasing preterm births, and greater awareness of early interventions to prevent severe health complications.

Market expansion is further supported by technological advancements, such as LED-based phototherapy units, fiber-optic blankets, and portable devices, which enhance treatment efficiency, reduce side effects, and improve patient outcomes. Among the product types, LED phototherapy devices are emerging as the leading segment due to their energy efficiency, longer lifespan, and uniform light distribution. Geographically, North America and Asia Pacific dominate the global market, attributed to the rising adoption of advanced healthcare technologies and growing hospital infrastructure. Countries like the United States, China, and India are central to this dominance due to increasing neonatal care facilities and high demand for non-invasive treatment options.

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Key Market Insights

• The market size is anticipated to value at US$ 110.4 Mn in 2025 to reach US$ 147.9 Mn
• LED-based phototherapy devices remain the leading product type due to superior performance and energy efficiency.
• North America and Asia Pacific dominate the market, driven by strong healthcare infrastructure and technological adoption.
• Increasing awareness of neonatal care and early jaundice intervention is shaping market growth.
• Portable and fiber-optic phototherapy solutions are creating new opportunities in home healthcare and outpatient settings.

What are the main drivers of the neonatal phototherapy devices market?

The primary drivers include the growing incidence of neonatal jaundice, rising preterm birth rates, and the expansion of neonatal care facilities. Phototherapy is the most effective non-invasive treatment for hyperbilirubinemia, driving demand for advanced devices that ensure safe and efficient treatment. Technological innovations, such as LED devices and fiber-optic blankets, are further propelling market growth. Additionally, increasing healthcare expenditure and rising awareness among caregivers and hospitals are key contributors to the expanding market.

Market Dynamics

Drivers: Increasing neonatal jaundice prevalence, growth of NICUs, rising adoption of LED and portable phototherapy devices.

Restraints: High costs of advanced devices, lack of skilled healthcare personnel in certain regions, and limited awareness in rural areas.

Key Market Opportunity: The development of portable, energy-efficient, and home-use phototherapy devices offers significant opportunities for market players. Companies investing in innovative neonatal care solutions can gain a competitive edge while addressing unmet needs.

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Market Segmentation

The neonatal phototherapy devices market can be segmented by product type and end-use. By product type, the market includes LED phototherapy devices, fluorescent phototherapy devices,

fiber-optic phototherapy devices, and conventional units. LED phototherapy devices dominate due to their enhanced efficacy, reduced heat emission, and lower maintenance costs. Fiber-optic blankets and portable units are gaining traction for use in homecare and outpatient settings.

By end-use, the market is categorized into hospitals, clinics, and homecare. Hospitals account for the largest market share due to the high volume of neonatal patients and advanced treatment facilities. Clinics and smaller healthcare centers are gradually adopting compact and portable phototherapy solutions. Homecare adoption is expected to increase as awareness grows and portable devices become more affordable and user-friendly.

Regional Insights

North America remains a key region due to advanced healthcare infrastructure, widespread NICU availability, and high adoption of innovative phototherapy solutions. Europe follows closely, driven by supportive healthcare policies and rising awareness of neonatal health. Asia Pacific is experiencing rapid growth, fueled by increasing preterm birth rates, expanding hospital networks, and rising investments in neonatal care technology. Meanwhile, Latin America and the Middle East & Africa are emerging regions, where rising awareness of neonatal care and improving hospital infrastructure create growth opportunities.

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Competitive Landscape
The neonatal phototherapy devices market is competitive, with manufacturers investing in product innovation, technological advancements, and regional expansion to strengthen market presence.

Company Insights
- Natus Medical Incorporated
- GE Healthcare
- Philips Healthcare
- Drägerwerk AG & Co. KGaA
- Atom Medical Corporation
- Mennen Medical
- Phoenix Medical Systems
- Bilimetrix Inc.
- Fanem Ltd.
- Air Liquide Medical Systems

Key Industry Developments

In recent years, several players have focused on developing energy-efficient and portable phototherapy devices to meet growing neonatal care demands. Companies are integrating LED

technology and fiber-optic solutions to enhance treatment safety and effectiveness. Collaborations with hospitals and neonatal care centers are helping companies expand their reach and ensure consistent demand. Expansion of manufacturing facilities in Asia Pacific to cater to the rising demand for neonatal devices is becoming a common strategy among leading players.

Innovation and Future Trends

The future of the neonatal phototherapy devices market lies in portable and smart phototherapy solutions. Companies are exploring devices with integrated monitoring systems and AI-enabled light intensity adjustments to improve treatment outcomes. Development of energy-efficient and lightweight devices for homecare is also a significant trend, providing flexibility for caregivers and improving accessibility. These innovations position the market for sustained long-term growth, catering to the increasing need for safe and effective neonatal care solutions.

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Hip Resurfacing Implants Market - The global hip resurfacing implants market size is expected to be valued at US$5.4 billion in 2025. It is projected to reach US$6.5 billion in 2032, growing at a CAGR of 2.7% during the forecast period of 2025-2032.

Gamma Knife Market - The global gamma knife market size is likely to be valued at US$468.0 Mn in 2025. It is estimated to reach US$692.0 million by 2032, growing at a CAGR of 5.7% during the forecast period of 2025 -2032.

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