AngelEye Health Unveils Vision for AI-Driven NICU of Tomorrow

Ongoing development of bedside camera software to provide rich clinical insights lays the groundwork for comprehensive neonatal care

Nashville, TN – September 10, 2024 – AngelEye Health, a leader in neonatal and pediatric family engagement services, announced today a strategic vision to maximize the potential of its bedside camera systems, integrating leading-edge AI, machine learning and computer vision to redefine the delivery of neonatal care and further position AngelEye at the forefront of NICU technology.

With an existing network of almost 10,000 bedside cameras in more than 250 hospitals nationwide, AngelEye is working to expand the capabilities of its platform. The already established infrastructure provides a unique opportunity to put these new solutions into practice at an accelerated pace. By leveraging advanced technologies, the company is designing a comprehensive platform that not only strengthens family connections but also enhances safety and clinical decision-making.

"AngelEye has a longstanding commitment to driving innovation in the NICU," said Christopher Rand, chief executive officer of AngelEye Health. "We are currently in the process of integrating AI and computer vision technologies into our camera systems to give them a more active role in patient care. This is just the beginning, as we continue to explore new ways to push the boundaries of what's possible in neonatal care, paving the way for cutting-edge solutions that will define the future of the NICU."

AngelEye's recent acquisition of the Early Detection Neuromotor Assessments (EDNA) portfolio is a key element in advancing its camera capabilities. These solutions open the door to developing proprietary clinical insights from the data collected through its camera network empowering data-driven care. EDNA's AI-driven movement analysis technology is in the process of integration into the existing camera network, providing the foundation for more advanced monitoring tools in the NICU. This integration will allow AngelEye to track early neuromotor risks and other key health indicators in newborns, supporting earlier intervention and better long-term outcomes.

In addition to neuromotor risk detection, the company is also exploring a range of future applications through its own research and development and collaborations with third-party researchers. These applications will empower clinicians with a deeper understanding of neonatal health, enabling more informed decision-making and personalized care plans.

NICU of Tomorrow

"Between the complementary nature of our solution base and the diversity of our collected data, AngelEye has a unique opportunity to revolutionize NICU care from birth through discharge and beyond. Leveraging our well-established camera infrastructure in NICUs nationwide, we can expedite every component of the traditional AI/ML pipeline, from data collection to model training and deployment," said Patrick Tinsley, PhD, manager of medical technology at AngelEye Health. "Our vision for the NICU of Tomorrow encompasses many different objectives, all of which we believe can be realized through the incorporation of computer vision and machine learning techniques. With access to vastly different types of data, our efforts to introduce AI into the NICU will support personalized feeding schedules, assess neuromotor function and plan proper discharge courses, directly benefiting NICU nurses, patients and families."

In addition to robust clinical insights, both safety and workflow efficiency remain central to AngelEye's vision for the future of NICU care. As core tenants executed over the last 10 years, safety is the cornerstone of the company's NICU initiatives. Leveraging the power of its camera network, AngelEye plans to introduce innovative monitoring capabilities to analyze video feeds to detect any signs of distress or unsafe conditions, enabling clinicians to respond swiftly and effectively.

The high-stakes environment of the NICU creates a critical need for efficiency. AngelEye is exploring the capabilities of AI and machine learning to develop cutting-edge tools that will optimize workflow, reduce administrative burdens and enable clinicians to focus more time on patient care. By integrating real-time data from bedside cameras, these tools will help streamline communication, decision-making and documentation processes.

The enhancements to AngelEye's camera system mark just the beginning of a larger vision, as the company is also exploring ways to further develop its other solutions, such as discharge coordination and feeding management, through the integration of advanced technologies. By connecting these platforms and ensuring that data from each system works seamlessly together, AngelEye is working toward a more holistic, interconnected solution for the NICU of tomorrow. This unified approach will empower clinicians with a comprehensive view of each patient's journey, enabling better care coordination and ultimately improving outcomes for infants and their families.

As part of its commitment to innovation in neonatal care, AngelEye is seeking collaborations with researchers, clinicians and developers who share a similar vision for the future of NICU technology. Together, AngelEye aims to develop the next generation of neonatal care tools. To learn more about ongoing innovations, visit angeleyehealth.com.

About AngelEye Health

AngelEye Health is advancing NICU care by equipping care teams with tools that optimize workflow while empowering families through a comprehensive suite of technologies. We go beyond camera engagement solutions by providing a robust platform that integrates families into the care team more effectively. Our trusted solutions enable a powerful ecosystem that fosters a collaborative family-centered approach, focusing on the patient's well-being throughout the NICU journey. This holistic methodology, driven by cutting-edge technology, has a proven track record of improving family experiences, care delivery workflows, and patient outcomes.

Our live-stream cameras, feeding management system, and new discharge planning software support care teams and families from admission to discharge, delivering tangible benefits for hospital staff and patients. Since 2013, AngelEye has partnered with hundreds of hospitals across the US, Canada, EU, and Australia and boasts a retention rate of over 98% since our founding in 2013. We are committed to continuous innovation, shaping the NICU of the future where technology empowers families, optimizes care, and leads to the best possible outcomes for neonates.