

Study finds K2 INFANT® software halves poor birth outcomes at Australia's largest maternity service

PLYMOUTH, UK, August 5, 2021 /EINPresswire.com/ -- [K2 Medical Systems](#) (K2), a UK-based company providing specialised [maternity](#) software solutions and business unit of [Harris](#), welcomes the publication of a paper detailing a recent study undertaken at Mater Mothers' hospital Brisbane, Australia using the K2 INFANT-Guardian® (INFANT) system. (<https://www.k2ms.com/blog/2020/mater-mothers-infant-paper.aspx>)

The Mater Mothers' hospital is Australia's largest maternity service delivering over 12,000 babies per annum.

In May 2018, the Mater Mothers' hospital upgraded their K2 Guardian intrapartum fetal monitoring platform to the INFANT system. Their study aimed to report perinatal outcomes before and after the introduction of INFANT decision support software for cardiotocograph use in labour. This study was designed to measure the impact of using INFANT on poor birth outcomes.

The results have shown that the introduction of K2's INFANT software almost halved poorest birth outcomes (0.57% vs. 1.00%; OR 0.57, 95%CI 0.37-0.88; P = 0.01) and reduced NICU admission > 48hours by a factor of 6 times (0.05% vs. 0.30%; OR 0.18, 95%CI 0.05-0.60; P = 0.002).

The authors concluded:

"The results of our study reflect real-world outcomes of the INFANT-Guardian® software system –



we showed a significant reduction in the primary composite outcome, which was driven mainly by a reduction in NICU admission rates. We postulate that the consistent and constant vigilance provided by INFANT likely helped reduce the chances of a hypoxic FHR pattern being missed.”

The INFANT (INtelligent Fetal Assessment) system is real time decision support software to interpret and alert clinicians to patterns of fetal heart rate (FHR) of concern during labour. INFANT is integrated within the Guardian[®] electronic CTG system (INFANT-Guardian[®]) also developed by K2. This software analyses the FHR pattern (baseline, variability, accelerations, characteristics of decelerations: type and timing, depth, duration, and area) as well as the contraction frequency, and raises concerns of fetal wellbeing to caregivers throughout the hospital and remotely.



About K2 Medical Systems

K2 Medical Systems is a multi-award winning innovation and technology company, dedicated to improving maternity care for all. Initially starting as a perinatal research group within a busy maternity department in 1989 and formed a decade later, it is now a global organization with offices in the UK, Australia, and America, and agents based in the Middle East. The research, which began over 29 years ago, continues today to provide an ever-increasing and comprehensive portfolio of innovative and pioneering solutions to support clinicians, improve care, and reduce poor birth outcomes.

K2 Medical Systems did not participate in any aspect of the reported study, it did not solicit, fund nor partner. K2 was not aware of the results until publication. This independent initiative was entirely undertaken by Mater Mothers’ Hospital, Queensland Australia.

About N. Harris Computer Corporation (Harris)

K2 Medical Systems is a business unit of Harris. Harris acquires vertical market software businesses, manages them using industry best practices, and builds them for the future. Through acquisitions, Harris has grown extensively from its roots in the utilities, local

government, education, and healthcare sectors to operate over 160 businesses globally across more than twenty industries. Harris is an operating group of Constellation Software Inc., one of North America's most active acquirers of software businesses.

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