Journal of Zoonotic

Diseases and Public Health

2022

Vol 6, S, 4

An Evaluation of Morphine Use in Obstetrics during a National Shortage of Diamorphine: A Re-Audit Highlighting Changes in Practice over time

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Abstract

Introduction: Since the national shortage of diamorphine began in late 2018, preservative-free morphine has been used as an alternative adjunct to local anaesthetics in intrathecal blockade in obstetrics. An initial departmental audit following this enforced change to morphine established a statistically significant increased risk of PONV and reduced patient satisfaction compared with previous diamorphine use. A statistically significant link between intrathecal morphine and reduced post-operative oramorph use was also found. These finding correlate with the different pharmacodynamic profiles of the two drugs. The aim of our re-audit was to evaluate the way in which morphine use changed over time, following our initial audit feedback and with increased familiarity, within our department.

Methods: All obstetric anaesthetic interventions at the Lister Hospital are routinely recorded electronically on the Xentec Epidural Audit System. Data is collected on completion of the procedure and during a post-procedure follow-up 1-3 days later.

Data points collected immediately post-procedure include choice of intrathecal opiod and adequacy of block intra-operatively. On follow-up data collected includes overall patient satisfaction, side-effects experienced (including severe PONV and pruritis) and post-operative oramorph requirement. Parturients undergoing intrathecal blockade with morphine (n=104) between 13/07/18 and 20/09/18 had been previously audited. This data set represented the initial use of intrathecal morphine as an alternative to diamorphine: Morphine 1. Upon completion, these audit findings were presented at a local departmental meeting where results were displayed with no protocolised changes suggested or enforced. Post-presentation and following a period of time, a second data set was taken analysing parturients undergoing intrathecal blockade with morphine between 05/09/19 and 01/03/20 (n=374): Morphine 2. Data from these two audit sets were then analysed for comparison.

Results: Statistical analysis was carried out using Chi-Squared tests and results deemed significant if p < 0.05. There was a statistically significant increase in overall patient satisfaction and regional adequacy in the Morphine 2 group versus Morphine 1, with p values of 0.0006 and 0.0051 respectively. However, no statistically significant change was seen in incidence of severe PONV and pruritis or in post-operative oramorph requirements between the two groups.

Biography

Dr Hana Damirji is an anaesthetics and intensive care trainee currently working at the Lister Hospital in Stevenage, UK. She completed her medical training in London, graduating from University College London in 2015 with distinction and also obtaining first class honors in Neuroscience iBSc. Previous publications include the initiation of a debriefing session for intensive care trainees, which NHS Improvement listed as one of the top 10 quality improvement measures of 2017.