



In order to evaluate safety and usefulness of peripherally inserted double lumen central catheter (PIDLCC) in very low birth weight (VLBW) infants, outcomes of VLBW infants who had PIDLCC was studied” Cheong et al (2016).

Abstract:

OBJECTIVE: In order to evaluate safety and usefulness of peripherally inserted double lumen central catheter (PIDLCC) in very low birth weight (VLBW) infants, outcomes of VLBW infants who had PIDLCC was studied.

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SUBJECTIVE: Thirty-nine VLBW infants who were admitted to our NICU in 2013 were retrospectively analyzed.

RESULTS: Mean birth weight and gestational age was 1042.7 gram and 28.5 weeks, respectively. Total duration of indwelling PIDLCC was 1121 days (mean 28.5+18.2 days) with 85 PIDLCCs used. Dressing at the insertion site was done twice weekly with 10% povidone iodine. Four (10.3% with mean of 48 days) infants had catheter-related blood stream infection (CRBSI), with a 3.57 infection per 1000 catheter-day. The mean for days of PIDLCC

in 35 infants without CRBSI was 26.5 days. Organisms isolated were Staphylococcus epidermidis, Staphylococcus aureus and Staphylococcus capitis ureolytic. Our study showed significant difference in the duration of indwelling catheter ( $p=0.023$ ) and intraventricular hemorrhage ( $p=0.043$ ) between the CRBSI group and non-CRBSI group. Five (12.8%) infants had abnormal thyroid function test, in which two infants required thyroxine supplementation upon discharge. However, duration of PIDLCC and abnormal thyroid function test was not statistically significant ( $p=0.218$ ). One (2.5%) infant died (death was not related to CRBSI). There was no serious adverse effects secondary to PIDLCC.

**CONCLUSION:** It is concluded that the use and maintenance of PIDLCC is safe for VLBW infants, but close monitoring should be observed to detect early signs of infection.

Reference:

Cheong, S.M., Totsu, S., Nakanishi, H., Uchiyama, A. and Kusuda, S. (2016) Outcomes of peripherally inserted double lumen central catheter in very low birth weight infants. Journal of Neonatal-Perinatal Medicine. March 12th. .

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