The effect of cuddling on crying duration to pain of vaccination in preterm neonates

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Introduction

Preterm newborn are very vulnerable and frequently admit to NICU. They get much invasive painful procedure. These painful stresses have poor outcome in consciousness, stress and irritability. They cause changes in physiology such as pulse rate and oxygen saturation, crying duration and behavioral action.

Objectives

The aim of study was to compare cuddling and incubator care on response to pain by pulse rate, and crying duration.

Materials & Methods

Forty preterm newborn randomly divided in two groups. In case group (N=20) baby get cuddling 30 minutes before intervention and control group (N=20) were laid on incubator. Two groups were compared in pulse rate and crying duration. Pulse rate was checked by monitoring two minutes before intervention, during intervention and three minutes after intervention. Crying duration determine by chronometer.

Results

There were no significant differences between two groups in pulse rate and crying duration before, during and post intervention. But increasing in heart rate in case group was significantly lower than control group (p=0.01).

Conclusion

Increasing heart rate was significantly low in case group, therefore tolerance of pain in cuddling is less painful.

Keywords: cuddling- crying duration -preterm neonate - pulse rate

Poster