KANGAROO MOTHER CARE AND BREASTFEEDING

Rekha Udani, Suman rao, Ashish Satpathy, Kiran Kumar B V. Ruchi Nanavati, NS Kabra, Aloke VR Prof & Head, Dept. Neonatology, D Y Patil Medical College, Navi Mumbai,

Ex Prof & Head, Professor Emeritus, Kangaroo Care, Dept of Neonatology, KEM Hospital & Seth G S Medical College, Mumbai, INDIA

Rationale- Nearly 4 million newborns die each year; 75% of these deaths occur in South Asia and sub Saharan Africa. Approximately 2.5 million newborn deaths could be prevented annually by improving access to low-tech interventions.

Indian Scenario - Approximately 27 million babies are born every year in India and 9 million (30%) are low birth weight (LBW) and are responsible for 75% neonatal mortality.

Kangaroo Mother Care(KMC) – is an effective means of meeting babies' need for warmth, nutrition, protection from infection, safety and love.

Researches conducted from 2002 to 2008 at Mumbai revealed:

- 1) Randomized Control Trial Kangaroo Mother Care v/s Conventional Method Care (2002-2004) Exclusive breastfeeding rate in KMC 98% v/s CMC 76%, Hypothermia, Hypoglycemia, Apnea, Sepsis significantly reduced, Wt gain/day, significantly increased in KMC, Babies reached full feeds & breastfeeding earlier and significant decrease in use of MCT oil & cow's milk in KMC babies
- 2) Kangaroo Mother C are (KM C): A cohort study on impact of duration of KM C on mortality, morbidity, duration of hospital stay and breastfeeding (2004-2005)

Follow up rate was 95.5%; 95% gave exclusive breastfeeding and 5 % gave mixed breastfeeding. Major and minor illnesses were seen most often in the \geq 20 hr group. Two babies died in \leq 20 hrs KMC before reaching CDOB, Statistically significant (p=0.001) decrease in the duration of hospital stay 6.2 days in babies receiving KMC in 2005, as compared with that of 1999, when KMC was not practiced.

- 3) KM C, Breastfeeding & Growth and Development NICU graduates (2005-2007) Exclusive Breastfeeding at CDOB 100%, at 3 months 94%, at 6 months 88% and 9-12 months 100% BF+CF, regained BW earlier & Intrauterine accretion rate of >15g/kg/day noted in both, but more no. of times in longer duration KMC 227v/s169. Head growth at 3 months was significantly higher in longer KMC. Growth parameters, Neuro motor, psychomotor development & Neuro Sensory outcome were comparable.
- 4) Effect of SSC & Breast milk on Pain related behavior in Preterm during Heel-lancing (2005-

PP38

2007) - Prospective RCT

60 Stable Preterm with postnatal age <4 weeks- Significant decrease in the duration of Cry and Grimace in Skin-to-Skin Contact and EBM groups as compared to controls.(p<0.05); SSC – more effective than EBM.

Conclusions- BF rate at CDOB 95-100% & Exclusive BF of 6 months 88% & BF along with CF at 1 yr 100% & reduction in requirement of MCT oil & cow's milk. KMC babies regained birth wt. earlier & attained IU accretion of >15g/kg/day, morbidity, hospital stay & mortality reduced, with improved Growth & Development.

