

CLINICAL COURSE AND PROGNOSIS AT ONE YEAR OF CORRECTED AGE OF 4247 COLOMBIAN LOW BIRTH WEIGHT (LBW) INFANTS COHORT DISCHARGED HOME IN KANGAROO POSITION WITH AMBULATORY OXYGEN .

Sylvia Fernandez MD¹, Nathalie Charpak, MD^{2,3}, on behalf of the KMCP research group

Objective:

To evaluate clinical course and prognosis at one year of corrected age of a cohort of 4247 oxygendependent preterm infants cared in our ambulatory KMC program between 2002 and 2012.

Patients and design:

Prospective cohort of 4247 oxygendependent (OD) preterm infants discharged home in kangaroo position (KP) with periodical follow-up until 12 months of corrected age to determine survival, growth, development and morbidity.

Intervention: 1) Continuous KP (skin-to-skin contact 24 hours), 2) Exclusive breastfeeding whenever possible and 3) Early discharge in KP with close monitoring and follow-up (dynamic oxymetry each week up the weaning)

Results:

12564 eligible infants (≤ 37 weeks of gestational age or weight ≤ 2000 at birth) were admitted in the ambulatory KMC program during this period. 4247 were discharged home with supplementary use of oxygen. Weight at birth for 41,9% of infants was under 1500g and for 11,7% was under 1000g, 24,5% weighted more than 2000g. 30,7% of patients were less than 30 weeks of GA, 22,3% were less than 32 and even 4,2% were more than 37 weeks of GA. Post-natal age at entry was between 1-15 days for 26,6%, 15-30 days for 30,2% and more than 1 month for 43,2% of them. 65,7% were NICU graduates and 86,1% of them have been ventilated. 40,3% were diagnosed with BPD at entry and 14,4% had intraventricular hemorrhage. 15,0% had history of nosocomial infection at entry. Loss of follow up was 15,7% from entry into KMC to one year of corrected age. Overall mortality in the cohort was 1,7% up to one year, with 1,3% of deaths occurring between discharge and 3 months. 32,4% of infants were readmitted at least once. Main causes of readmission before 40 weeks GA were anemia (40,7%) and main cause of readmission before 3 months was acute respiratory infection (70,6%). In average, oxygen was discontinued at 4155 g of weight. 42,9% received exclusive breastfeeding up to term, 24,7% up to three months, and 14,0% up to 6 months. Average weight, length and head circumference were 2874g, 46,5cm, 34,6cm at term and 8587g, 71,5 and 45,6 cm at one year of

1 Coordinator, Integral Kangaroo Mother Care Program, San Jose Infantil teaching hospital, FUCS, Bogota, Colombia, silvifer75@hotmail.com
2 Integral Kangaroo Mother Care Program, San Ignacio teaching hospital, Javeriana University, Bogota, Colombia
3 Kangaroo Foundation, Bogota, Colombia

