



CONGRESS PROGRAM November 16, 2018

Kangaroo Mother Care and Neuroprotection of the premature brain

IMMEDIATE KMC STUDY (iKMC)

KMC as a tool for stabilization of the preterm infant immediately after birth: research protocols of a multi-center and multi-country study.



Dr Nils Bergman MB ChB, DCH, MPH, MD Cape Town, RSA

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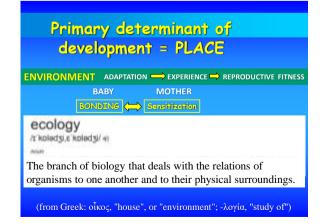
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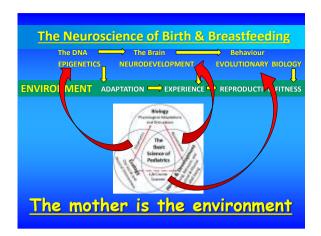
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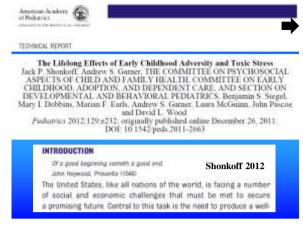


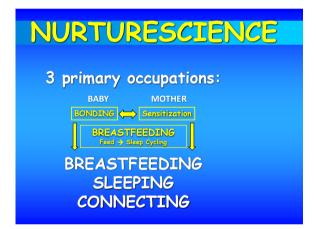
UNDERLYING SCIENTIFIC RATIONALE

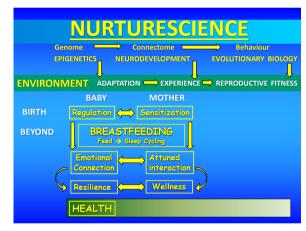




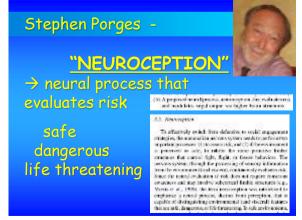


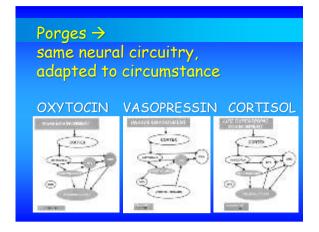


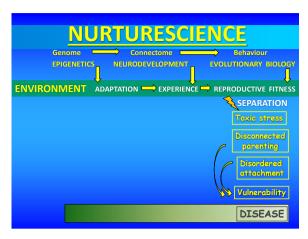




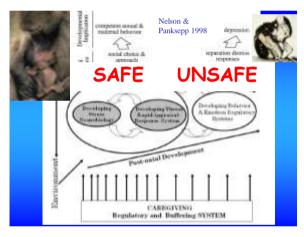




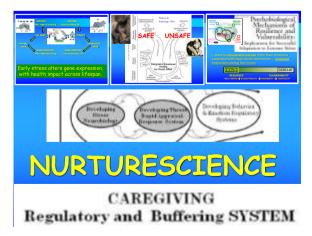








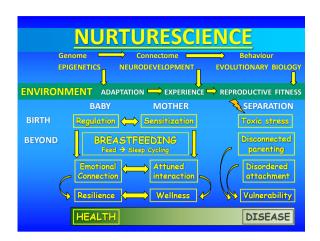


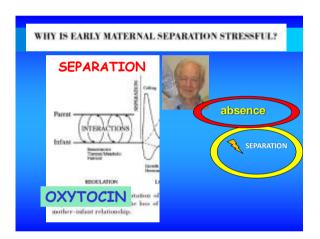


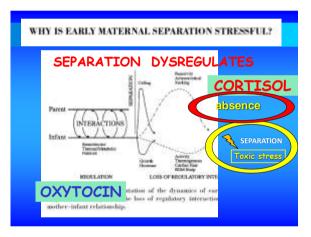


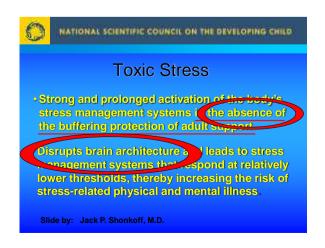
NURTURESCIENCE

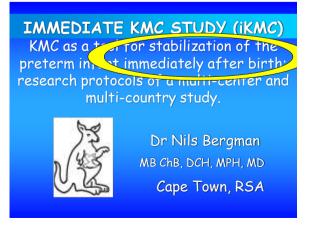
CAREGIVING Regulatory and Buffering SYSTEM











Clinical evidence 2015 Newly born low birthweight linears stabilize better in skin-to-skin contact than when separated from their mothers a randomised controlled trial that the skin to-skin Contact to stabilize low birth weight infants at birth. Luong Kim Chi, Nguyen Tien Long, Huynh Thi Duy Huong, Nils Bergman

Ho Chi Minh CITY, Vietnam 60,000 deliveries per year Obstetric beds: 1200 Neonatal beds: 180 16,200 neonatal cases /year 2012 in neonatal department Low birth weight rate Vietnam 9%, this hospital 12,5 %

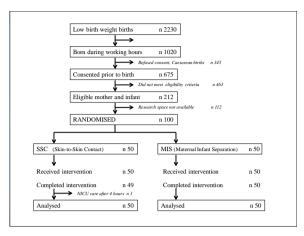


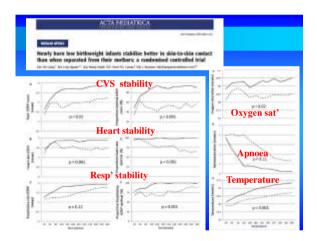








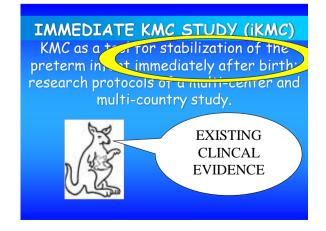


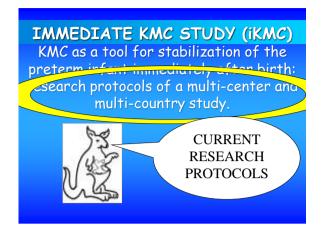


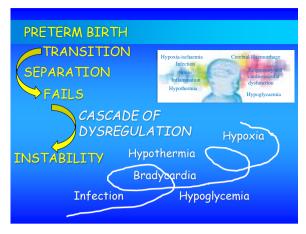


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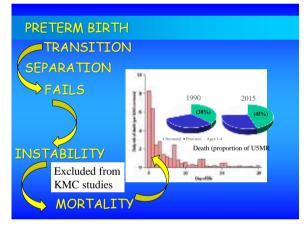
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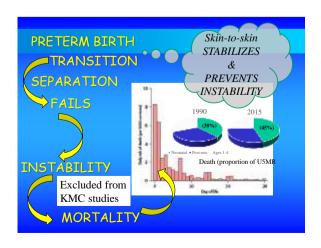


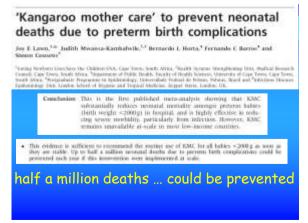


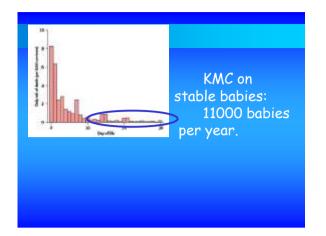














SCIENTIFIC SUMMARY:

- 1. There is necessary stress at birth
- 2. Maternal skin-to-skin contact is primary physiologial stabilizer
- Separation delays stabilization, may also cause harm 'toxic stress'
- 4. Preterm infants have less resilience: tolerate separation even less

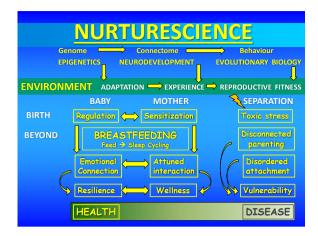
400 000 deaths ... could be prevented ... ONLY IF ... KMC starts at birth

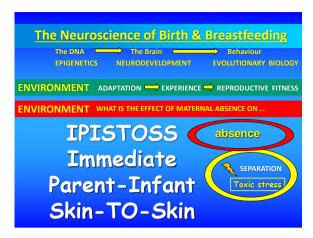
IMMEDIATE KMC STUDY Immediate Parent-Infant Skin-TO-Skin Study (IPISTOSS)

Dr Nils Bergman Karolinska Institute Consultants Feam: Bjorn Westrup, Jill Bergman, Siren Rettedal and Agnes Linner



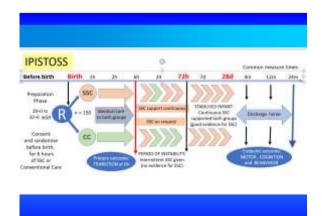


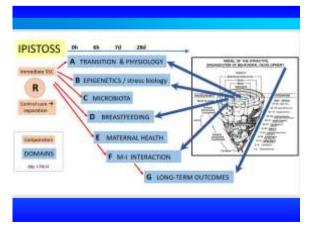


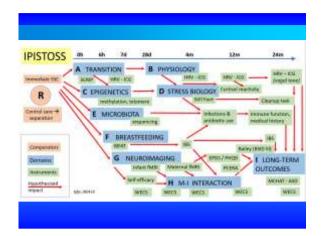


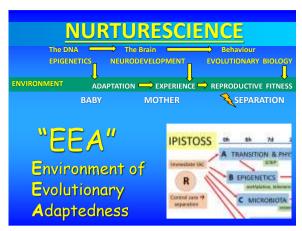






















Stabilized with his aunt, after cesarean, since the father did not make it from work. Periferal line inserted SSC. At term age the boy still sleeps very well in his aunt's arms.









AVOID early cord clamping
Immediate WARM CHAIN
Immediate CPAP
Immediate MONITORING

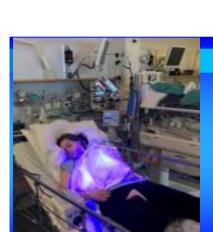
PARENTS are present / central
Immediate CONNECTION



Immediate

Thea, born at GA 29+4, BW 1180 g

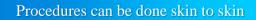




Continuous >20 h/day

Thea, 48h old On CPAP, Phototherapy, IV lines Trophic feeds etc









Clinical care must be the same – only place of care differs



Thea, born at GA 29+4, BW 1180 g

Here (180417) 12 months











KMC:

Evidence, gaps and ongoing research

RAJIV BAHL

Department of Maternal, Newborn, Child and Adolescent Health WHO, Geneva



KMC:

Evidence, gaps and ongoing research

RAJIV BAHL

Department of Maternal, Newborn, Child and Adolescer

Support team: Sachiyo

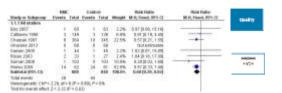




Evidence: mortality

REQUESTORS IN PROPERTY AND ADDRESS.

KMC improves survival of small babies by 40% compared with conventional newborn care



Evidence: mortality



Survival benefit clea for continuous KMC. Insufficient evidence for intermittent KMC.

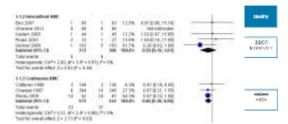


Figure 1. Forest plot of comparison: I Kangaros mother care versus convectional neonatal care, outcome: (.) Mortality at discharge or 45-41 weeks' postmenutrual age.

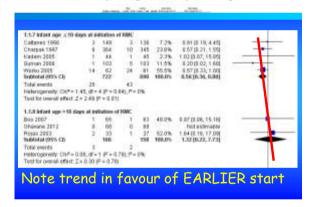
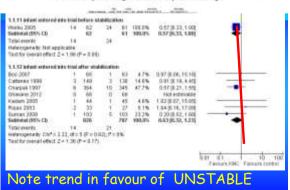


Figure 3. Forest plot of comparison: I Kangaros mother care versus conventional neonatal care, outcome: (.1 Mortality at discharge or 43-41 weeks' postmenstrual age.





Evidence gaps: key research priorities

- How can facility based initiation of effective KMC for stable small babies be scaled up?
- Can community-based initiation of KMC reduce neonatal mortality of clinically stable small babies?
- Does initiation of KMC immediately after birth, even for unstable babies, improve survival?

KMC scale up study



- In Ethiopia and India, 7 populations of about a million each in different geographic regions
- Understanding barriers to implementation and addressing them systematically
- Accurate weighing of all newborns, referral, implementing KMC in health facilities, supporting continued KMC at home
- · Independent population-based evaluation of coverage

Home-initiated KMC study



- Individually randomized controlled trial in India. Sample size 10,500
- Low birth weight infants <48 hours old, born at home or discharged from health facilities without KMC
- Families allocated to intervention group supported to provide skin to skin contact, exclusive breastfeeding
- Primary outcome mortality to 1 and 6 months of age
- Early learnings: almost universal acceptance, average KMC duration about 9.5 hours per day achieved.

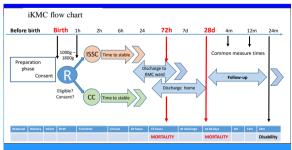
Immediate KMC study



- Individually randomized controlled trial: hospitals in Ghana, India, Malawi, Nigeria and Tanzania. Sample size 4,200
- Newborns <1.8 kg will be allocated to intervention or control group
- Those allocated to intervention receive skin to skin care starting immediately after birth, and continued thereafter
- Those allocated to control receive conventional care until considered stable, KMC initiated after that
- · Primary outcome neonatal mortality

Immediate Kangaroo Mother Care Study (iKMC) -

A Multicenter Randomized Controlled Trial Comparing Skin-to-Skin Contact Initiated Within First 60 Minutes of Life and Continued Until Stabilization with Separation (Conventional Care) in Neonates with Birth Weight of 1000-1800g.

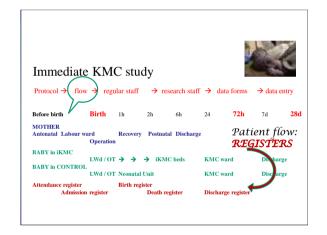


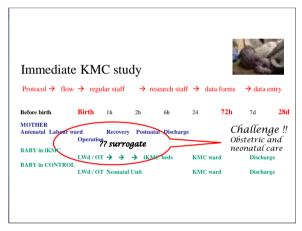
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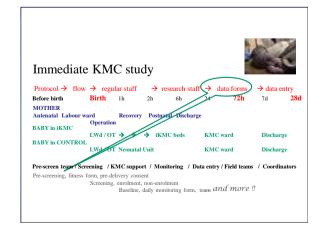
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WHO «Minimum package of care for small babies»

- Study sites harmonized, both control and intervention patients recieve WHO «minimal package of care for small babies»
- Any difference in the two study arms may not be attributed to a lack of standard care.













Immediate after Caesarean, surrogate

> First enrolmen in India.



KMC by definition has several components, includes breastfeeding support.

All subjects (intervention and control) get early milk expression.

Intervention subjects support is:

'put at breast' - recorded once an hour
Actual breastfeeding is an outcome



















