Taking kangaroo mother care forward in South Africa: The role of district clinical specialist teams

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The global agenda for improved neonatal care includes the scale-up of kangaroo mother care (KMC) services. The establishment of district clinical specialist teams (DCSTs) in South Africa (SA) provides an excellent opportunity to enhance neonatal care at district level and ensure translation of policies, including the requirement for KMC implementation, into everyday clinical practice. Tshwane District in Gauteng Province, SA, has been experiencing an increasing strain on obstetric and neonatal services at central, tertiary and regional hospitals in recent years as a result of growing population numbers and rapid up-referral of patients, with limited down-referral of low-risk patients to district-level services. We describe a successful multidisciplinary quality improvement initiative under the leadership of the Tshwane DCST, in conjunction with experienced local KMC implementers, aimed at expanding the district's KMC services. The project subsequently served as a platform for improvement of other areas of neonatal care by means of a systematic approach.
Low birth weight (LBW) and prematurity are significant contributors to neonatal mortality and have become major barriers in reaching child mortality targets.[56] Kangaroo mother care (KMC) is a high-impact, low-tech, cost-effective intervention to reduce neonatal mortality and morbidity.[57] It has proven advantages in terms of infant feeding and weight gain and reduced infection risks, as well as improved maternal physical and psychological health, with an accompanying reduction in health institution utilisation.[58-71] The KMC components include securing infants skin-to-skin to their mothers' chests in an upright position by means of a cloth or wrap, exclusive breastfeeding, early hospital discharge and adequate support of the mother-infant pair by health workers and family members.[57]

The current global implementation and research agenda for improved newborn care includes accelerated KMC scale-up.[55,72] KMC has also become part of South African (SA) health policy through initiatives such as the Tshwane Declaration[73] and the Campaign on Accelerated Reduction of Maternal and Child Mortality in Africa.[74] The primary healthcare re-engineering process currently under way in SA is an excellent opportunity to enhance neonatal care and ensure translation of these policies into practice.[75] The district clinical specialist teams (DCSTs), comprising senior medical and nursing personnel in the fields of primary, maternal, paediatric and emergency care, form one of the pillars of this health system improvement initiative.[75-77] Their roles include training, supportive supervision, clinical governance and helping to establish the necessary linkages between hospital-based neonatal units, primary healthcare facilities, district-based health programme staff and community-based organisations, all of which can potentially greatly enhance the neonatal care continuum. DCSTs are not facility based and are therefore not constrained by systems boundaries between the different levels of healthcare, which enables the members to move between the various health facilities in order to facilitate care networks, with an anticipated impact at health systems level.

This article describes a quality improvement process undertaken in the Tshwane District, Gauteng Province, in which strengthening of KMC was used as an entry point for the improvement of neonatal care under the supervision of the DCST. The district, which covers the northern part of Gauteng and has an urban and rural population of about three million people, has undergone major changes in the past 15 years with new boundary demarcations adding two district levels of healthcare, which enables the members to move between the various health facilities in order to facilitate care networks, with an anticipated impact at health systems level.

Making KMC work in practice

Initial KMC training and implementation initiatives in Gauteng[78] had limited impact at scale as various factors hindered full KMC implementation in all hospitals. By 2013 Tshwane District had 45 KMC beds at tertiary institutions, 5 beds at the regional hospital and only 20 KMC beds for down-referrals at district hospital level. The district’s expanding population, with a resultant increase in deliveries, was placing a strain on obstetric and neonatal services at the large hospitals. The growing neonatal bed shortages were compounded by rapid up-referral of patients from district hospitals to higher levels of care, with very few patients reversely down-referred to district hospitals. The DCST, in conjunction with experienced local KMC implementers, identified this gap and jointly embarked on a quality improvement initiative from 2013 to 2015 to facilitate KMC scale-up. The activities included three workshops and one walk-through visit to each hospital to provide support and assess the level of facility-based KMC implementation.

Lessons learned: The role of DCSTs in KMC implementation

The project-type approach to advancing a specific aspect of neonatal care – in this case KMC implementation – was an excellent vehicle for implementing health systems improvements. Ongoing monitoring and evaluation of neonatal healthcare was already in place, but a focused intervention was required to strengthen KMC services at all hospitals through a team-orientated approach, with subsequent expansion
to other neonatal care issues. This quality improvement initiative was introduced without additional funding, which demonstrates how resources can be mobilised to effect change. The process was furthermore enabled by national and provincial priority setting, with existing policies and guidelines strengthening the DCST’s ability to encourage all hospitals to participate, with the necessary support of the hospital management.

**Empowerment of staff** in the participating hospitals was achieved through workshops and on-site visits, with accompanying mentoring through a non-hierarchical approach. The equal empowering relationships helped promote ownership at hospital and district level, with mutual benchmarking visits leading to a high degree of transfer of learning.

Insights that emerged from the process included:

- The importance of the non-separation of mother-infant pairs to encourage bonding and give babies a ‘voice’ through their mothers.
- The empowerment of mothers to take responsibility for the care for their LBW and preterm babies under medical and nursing supervision, with a focus on ‘special-needs groups’ with social or medical risk factors.
- The need for onsite protocols and guidelines.
- The integration of KMC with other maternal and child health programmes at facility level (e.g., family planning, HIV prevention and immunisation services), with the KMC environment providing the time and space for services to be delivered to these high-risk populations.
- The need to provide KMC wraps to ensure continued KMC practice after discharge.

Successful KMC implementation requires partnerships between neonatal and obstetric care workers, family physicians and primary healthcare nurses, illustrating the importance of a **multidisciplinary team** approach to effect change, with team members from different disciplines complementing each other. Collaboration between tertiary and district hospitals was additionally enabled. The workshops provided an egalitarian platform for dealing with weaknesses in the system in a relatively formal way, with discussions around particular index patients leading to further discussion on systems improvements.

The **partnerships** stretched beyond the DCST and included MNCWH and Nutrition staff members, as well as other clinical and management experts working at health institutions within the district boundaries. This provided the potential for the combination of clinical expertise, mentoring and health systems improvements. Within any given DCST the required expertise to address particular clinical issues may not be available, but project implementation may benefit greatly from the inclusion of local experts. KMC units in the Tshwane hospitals additionally strengthened their collaboration with the in-facility allied health workers.

The permanent presence of the DCST in the district ensures **continuous supportive supervision**, thereby enabling accountability, mentoring and follow-up with encouragement of the onsite staff members beyond a once-off project. Relationships of trust and local ownership were identified as the basic characteristics of supportive supervision in a context in which home-grown solutions can be promoted successfully. Local initiative with the development of protocols and guidelines was supported, but the DCST also had sufficient authority to implement and monitor the use of protocols and guidelines in hospitals showing slow progress.

The chosen team approach, together with appropriate supportive supervision, had the **potential ability to influence or effect change**. Improvements included appropriate medical care for late preterm infants, correct use of a breastmilk fortifier, and improved breastfeeding by mothers after hospital discharge. Infrastructure constraints were highlighted with an emphasis on the provision of a thermoneutral environment in all areas designated for neonatal care. While the project was being implemented the number of KMC beds in the district hospitals increased from 20 to 39, thereby almost doubling the KMC capacity. Additionally, improved cross-referrals were observed between hospitals in terms of specialised neonatal follow-up services. Staff morale and enthusiasm visibly improved in the period during which the workshops and support visits were held, and the DCST members had the authority to work with clinicians and facility management in order to address local KMC barriers that appeared insurmountable at times.

**Conclusion**

Mortality and morbidity in preterm and LBW infants can be reduced through healthcare interventions for the mother-infant pair before and during pregnancy and after birth.[14] The service provision of the relevant healthcare focus areas needs to be institutionalised and not individually driven, in order to reduce fluctuation in service delivery with staff mobility. At the same time the maintenance of the neonatal care continuum relies on teamwork between the different care providers. The KMC implementation project described here was successful in improving KMC services in the Tshwane district, and it served as a platform from which to improve other areas of neonatal care by using a systematic approach.

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Freezing healthcare posts “counter-productive,” say doctors

The freezing of critical physician and nursing posts in at least five provinces is “dangerously short-sighted” and will hurt vulnerable patient populations, boost billion rand litigation costs and aggravate working conditions, the SA Medical Association warned yesterday.

Introduced as austerity measures in stark contrast to the mushrooming of middle and senior management placements in recent years, the freezing of these critical service delivery posts this December and January comes exactly when most doctors and nurses are seeking them. Chairman of SAMA, Dr Mzukisi Grootboom said this would result in lost opportunities and chronic staffing shortages for 2016 – with multiple negative knock-on effects.

“Although mention is made of a process whereby critical posts can be unfrozen and advertised, the reality is that this is a long bureaucratic procedure which may require approval from the premier’s office. Over the last few years we have seen a mushrooming of middle and senior management positions in the various provincial departments of health at district and provincial level, with a net decrease in service level posts at institution level,” Grootboom added.

The provinces that have frozen the healthcare staff posts are; the North West, Eastern Cape, KwaZulu-Natal, Mpumalanga and Free State.

The SAMA chairperson said many provincial departments of health had received qualified audits by the auditor general, indicating irregular and fruitless expenditure as the primary cause for not achieving a clean audit. Many of their problems were caused by dismal supply chain management, a major contributor to their financial woes.

The SAMA believed that the freezing of critical posts would have a negative impact, not only on patient care, but on working conditions and adverse events in health care. Litigation against departments of health have shown an alarming upward spiralling trend over the last few years with national health minister, Dr Aaron Motsoaledi, calling a summit to deal with this in March and the biggest private sector risk underwriter, the Medical Protection Society (MPS), appealing for legal reforms at a similar seminar held in November. Grootboom said this litigation trend was set to continue unless the root causes were effectively dealt with.

Training more doctors pointless if you can’t employ them

In addition, the recent drive by the National Health Department to increase the number of medical graduates seemed pointless “if conditions on the floor prevent recruitment and retention of staff.” Many qualified doctors and specialists were forced to seek employment in the well-resourced private sector or emigrate because of the lack of available posts in the public sector. In addition, the training of medical students was often compromised as the burden of service delivery commitments prevented the more experienced doctors from being available to teach and train them.

Grootboom said that when austerity measures were introduced the first posts to be targeted were the medical ones, because there were always medical vacancies in the public sector due to the mobility of doctors. All public healthcare institutions had workloads which needed to be serviced by a defined staffing level. “The freezing of medical officer, specialist and registrar posts is very short sighted and will only serve to further compromise the quality of care being rendered by the public healthcare service to the most vulnerable populations in South Africa,” he concluded.

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