Newborn Survival in India – Challenges and Priorities for Andhra Pradesh

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Abstract

Around a quarter of global neonatal deaths. According to Sample Registration Survey (SRS) 2009 report neonatal mortality contributes to about two thirds of all infant deaths and about half of all under five deaths in the country. The state of Andhra Pradesh has a Neonatal mortality rate of 33/1000 live births. The major challenge for the state of Andhra Pradesh has been a stagnating Infant Mortality Rate at 53/1000 Live Births (National Family Health Survey-3), 70% of which is contributed by Neonatal Mortality. The common causes responsible for newborn deaths are sepsis (50%), prematurity & low birth weight (35%) and birth asphyxia (23%). Maternal healths in general and perinatal care in particular are important determinants of neonatal survival. Maternal malnutrition, inadequate antenatal care, high proportion of unsupervised home deliveries, suboptimal care during institutional deliveries and high proportion of low birth weight newborns are other factors responsible for high neonatal mortality. We need to have a well designed programme with specific objectives and timeframes with a fast track approach to improve the New born survival. A well designed package of interventions, ranging from the immediate priority of providing quality neonatal services to a long term approach targeted to improve the health status of the girl child is the need of the hour. Improving quality of life, provision of universal access to healthcare, strengthening health care systems, creating perinatal/neonatal centres of excellence in all Government medical colleges are highly essential to improve the newborn care. Effective utilization of Information technology to network peripheral health centres with tertiary centres will facilitate mentoring and supportive supervision for better outcomes.

Factors Responsible for High Neonatal Mortality

The common causes responsible for newborn deaths are sepsis (50%), prematurity, low birth weight (35%) and birth asphyxia (23%) [4]. Low birth weight directly or indirectly contributes to 60-80% of the neonatal deaths. All these causes influenced by perinatal care. Maternal health in general and perinatal care in particular is important determinants of neonatal survival. Neonatal outcomes are affected by health throughout the girl child's lifecycle, starting from infancy through adolescence and pregnancy.

Introduction

Globally, one of the major challenges in health sector has been an unacceptably high neonatal mortality. Only five countries account for more than half of the world's 3.3 million newborn deaths – India, Nigeria, Pakistan, China and Democratic Republic of Congo [1]. India carries the highest share of neonatal deaths in the world and contributes to around a quarter of global neonatal deaths (Figure 1) [2]. Of the 26 million babies born in India every year nearly one million babies die before the age of one month. According to SRS 2009 report, neonatal mortality (Neonatal Mortality Rate – 34/1000 live births) contributes to about two thirds of all infant deaths (Infant Mortality Rate - 50/1000 live births) and about half of all under five deaths in the country (Under Five Mortality Rate- 64/1000). 56 per cent of all newborn deaths in INDIA occur in five states: Uttar Pradesh, Madhya Pradesh, Bihar, Rajasthan and Andhra Pradesh (Figure 2).

Status of Newborn Health in Andhra Pradesh

The state of Andhra Pradesh has Neonatal mortality rate of 33/1000 live births. Around 50,000 babies die in this state every year. The major challenge for the state of Andhra Pradesh has been a stagnating Infant Mortality Rate at 53/1000 Live Births (NFHS-3), 70% of which is contributed by Neonatal Mortality [3]. Most of the newborn deaths occur in the first one week of life [3]. There is a huge urban to rural difference in the death rates. The neonatal mortality in rural areas is almost two times that of urban areas.

Keywords: Maternal malnutrition; Neonatal mortality rate; Perinatal care

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only 2 out of 14 existing Newborn Units in the state are fully fledged sanctioned units. The available infrastructure, staff and equipment in most of these units is not consistent with the standards recommended by National Neonatology Forum of INDIA [9] and is grossly disproportionate to the patient load. There was overcrowding in all the facilities. On the other hand, there is a very robust private health sector in this state providing level II and level III neonatal care especially in cities like Hyderabad, Vijayawada and Vishakhapatnam [10].

Strategies to Improve Newborn Survival

To improve New born survival we need to have a well-designed programme with specific objectives and timeframes with a fast track approach. A well designed package of interventions, ranging from the immediate priority of providing quality neonatal services to a long term approach targeted to improve the health status of the girl child is the need of the hour.

Under National Rural Health Mission (NRHM) a three tier system of newborn care has been planned and is being implemented all over the country which includes establishment of I). Newborn Care Corners (NBCCs) in all Primary health centres to provide routine care to all the babies and for prompt referral of sick babies. II). Newborn Care Corners in labour Rooms & Operation Theatres and Newborn stabilization (NBSUs) units in all the community health centres where sick babies can be stabilized. III). Newborn Care Corners in labour Rooms & Operation Theatres and Special Newborn Care Units (SNCUs) in all the District and Medical college hospitals [10].

Government of Andhra Pradesh has taken various initiatives to overcome the challenge of high neonatal mortality by strengthening the maternal and newborn health care delivery services in a bigway. Janani suraksha yojana (JSY-funded by Govt of INDIA) and sukhshama scheme (funded by state govt.) aim at encouraging the rural BPL (Below Poverty Line) women to approach government institutions for deliveries, to limit the number of pregnancies to two, and to enhance the age of child bearing to 19 yrs by giving Rs1000 cash incentive per delivery [3]. In addition, Janani Shishu Suraksha Karayakram (JSSK) provides for completely free and cashless services to pregnant women (including normal & caesarean deliveries) and sick new born care in Government health institutions in both rural and urban areas.

Institutional deliveries in Andhra Pradesh have increased from 12.78 lakhs (2006-2007) to 14.2 lakhs (2008-09). Two districts are implementing Integrated Management of Neonatal and Childhood Illnesses (IMNCI) approach for managing common and 1,555 Medical officers were trained in IMNCI approach so far. The state of Andhra Pradesh has pioneered the Emergency Management and Research Institute (EMRI-108) referral transport system facilitating quick transport of pregnant women and sick newborns from their homes to health facilities [3].
Academic Initiatives and Strengthening of Institutions

Andhra Pradesh Government in collaboration with Dr NTR University of Health sciences has initiated implementation of inclusion of Integrated Management of Neonatal and childhood Illnesses in undergraduate medical and nursing curriculum to empower the young medical and nursing graduates with skills to manage neonatal illnesses in an effective manner. All the medical and nursing professionals in the government health care system are being trained in newborn care programmes like Navajat sishu suraksha yojana (NNSK), and Facility based newborn care (FBNC)

Our government had also accorded sanction for 44 special newborn care units (SNCUs), 156 NBSUs (Newborn stabilization Units), 1372 NBCC (Newborn Care Corners). These are being established in accordance with the standard guidelines and will become operational very soon. The impact will be visible in the years to come. There is an urgent need to upgrade the facilities in Medical college hospitals as centres of excellence for training and service delivery. Establishing sanctioned neonatal units will be a step in right direction as it will facilitate provision of budget for staff and equipment on a permanent basis.

Role of Breastfeeding in Improving Newborn Survival

Early initiation of breastfeeding benefits both mothers and newborns. This can be facilitated by placing the newborn skin-to-skin on the mother’s chest, which would also prevent hypothermia, promotes bonding, and reduces the mother’s risk of haemorrhage. Colostrum provides protective antibodies and essential nutrients. Exclusive breastfeeding for six months as the sole intervention was shown to decrease the mortality by 13% [11]. Keeping this in view the government has included the infant and young child feeding practices (IYCF) in the IMNCH programme to promote and protect breastfeeding. The infant and Young Child Feeding (IYCF) guidelines state that breastfeeding should be initiated early and exclusive breastfeeding should be continued for the first 6 months of life. It is also mentioned that the most appropriate feeding strategy for infants and young children is that breastfeeding should be continued for up to 2 years and beyond with adequate complementary foods [12].

Long Term Measures

Improving quality of life, universal access to healthcare, strengthening health care systems, creating perinatal/neonatal Centers of excellence in all Government medical colleges, and leveraging the Information technology for linking up the periphery centers with tertiary centres, creation of hospital information systems with special emphasis on maternal and neonatal care are highly essential to improve the newborn care. Empowering women, improving their literacy, reduction of poverty, and strengthening public health care system would go a long way in improving the newborn survival.

In the year 2000, the Government of India agreed to observe National Newborn Week from 15thio 21stNovember every year at the request of the National Neonatology Forum. This was a notable accomplishment in more than one way (i) it signified the recognition of newborn health as a key national priority (ii) it reflected the political commitment to the cause of newborn infants at the highest level.

Advocacy by all stake holders with missionary zeal for enhancing survival of newborns is the need of the hour and is the key to progress of the nation in the health care sector.

References

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