Role of Homoeopathy in Home Based Newborn Care (HBNC) practices in UP and India

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Abstract: A newborn struggle in the first month of his or her life as evident from mythology that Lord Krishna too had a turbulent neonatal stage. The struggle of newborns continues in India even today and that too in the state of UP even today. The current Neonatal Mortality Rate in India is 22 per 1000 live births (UNIGME, 2019), 24.9 as per NFHS 5 (2019-2021) & for the state of UP, it is 35.7 (NFHS 5, 2019-2021). The high neonatal mortality both in India and UP stand as a testimony to this fact as reducing this indicator is a priority. The current article focuses on the initiatives of the role of homoeopathy in public health system to address neonatal mortality. Basically, there are two approaches to reduce neonatal mortality. These are Home Based Neonatal Care (HBNC) practices and the Facility Based Neonatal Care (FBNC) practices. The article focuses exclusively on the first approach which is HBNC. There are three objectives of the article. The first is to find out the current status of Homoeopathy in the HBNC practices, the second is to find out the details of the current & past implementation strategies and the third is to find out the link between Homoeopathy & HBNC practices. The study uses secondary data. The gap that the article worked on is to explore a link between Homoeopathy & HBNC & its modalities. It deciphers whether there is a functional link or not & suggests future strategies based on the functionality of the link. The article also proposes a 2 year plan to introduce homeopathy in the field of newborn care where all the related stake holders of the state & national level will be involved. It will be a step in the right direction to fulfill the plans to achieve the SDG by 2030 especially for neonatal & infant mortality related goals. For the benefit of the readers, the article includes its expected outcome, relevance to society & policy making through the context of the identified issues & the research gap. Through all these sections, the current article puts an effort to fulfill the plans to achieve the SDG by 2030 especially for neonatal & infant mortality related goals.

Keywords: HBNC, FBNC, Homoeopathy, EDL, Miasms, Neonant.

INTRODUCTION

In this section, the historical perspective of HBNC programs is discussed in the beginning thereby progressing to the current status in India and in UP. Box number 1 shows the time line of Newborn care including HBNC in India at a glance.
Box number 1

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>National Neonatology Forum (NNF) launched</td>
</tr>
<tr>
<td>1992</td>
<td>Essential Newborn Care (ENC) launched through Child Survival &amp; Safe Motherhood (CSSM) program.</td>
</tr>
<tr>
<td>1994</td>
<td>In 26 districts of India, Newborn Care Program (NCP) launched through CSSM</td>
</tr>
<tr>
<td>2000</td>
<td>National Newborn Week (NNW) initiated &amp; to be celebrated from 15\textsuperscript{th} to 21\textsuperscript{st} November each year.</td>
</tr>
<tr>
<td>2011</td>
<td>Home Based Newborn Care (HBNC) guidelines launched.</td>
</tr>
<tr>
<td>2013</td>
<td>RMNCH+A launched in the month of February.</td>
</tr>
<tr>
<td>2014</td>
<td>India Newborn Action Plan launched.</td>
</tr>
<tr>
<td>2015</td>
<td>Focus on Neonatal Mortality Rate as the first step to reduce Infant Mortality Rate through the launch of goal #3 of Sustainable Development Goals (SDG).</td>
</tr>
</tbody>
</table>

The current article is in the area of HBNC and HBNC is a part of Child Health. Hence, imperatively tracing the history of the child survival programs in India was essential. Needless to say, initially the entire child survival intervention was based on the roll out of immunization programs in the country. Almost after a decade of introducing the immunization program at the national level, the child survival interventions became more focused. The following paragraph elucidates the details.

In 1994, a district newborn care program was introduced as part of CSSM in 26 districts. There are three levels of care in the HBNC guidelines of GOI. These are care during pregnancy, care at birth, care of normal newborn and care of sick newborn (GOI, 2011). In 2014, the India Newborn Action Plan was launched by GOI that included both HBNC & FBNC components (GOI, 2014).

LITERATURE REVIEW

This section includes the background of newborn care at global, national and the state level. The state level efforts regarding newborn care picked up from the inception of NRHM in 2005. That means almost after 45 years of sustained efforts at country level, the state level picked up. The National Neonatology Forum was formed in 1980 and formulated the first set of recommendations on neonatal care in 1980 (NNF, 2015). Therefore, in 1992 the program launched was Child Survival and Safe Motherhood program and this had the Essential Newborn Care component included as an integral part (NNF, 2005). This was followed by Reproductive and Child Health program in two phases from 1997 to 2005 (GOI, 2005). Since 2000, with the advocacy of the National Neonatology Forum the national newborn week was celebrated from 15\textsuperscript{th} to 21\textsuperscript{st} November each year (NNF, GOI, 2000). The NRHM was launched in 2005 and the HBNC strategy was launched in 2011(GOI, 2014). The RMNCH+A strategy were in place in 2013 (GOI, 2013) and currently we have the India Newborn Action Plan since 2014. (INAP, GOI, 2014). The INAP details the HBNC approach and the IAPPD launched in 2013 on the lines of GAPPD helped develop the treatment guideline & Standard Operating Procedures (SOPs) of neonatal killers like pneumonia, diarrhoea, infections etc.

During 1990-2000, Essential Newborn Care (breastfeeding, warmth, hygiene) was conceptualized. As a result of this, warmth, food & security became the triad of HBNC (GOI, 2011). Further, in a study in Karnataka, it was shown that supervisory and monitoring checklists improve HBNC services (Spector J. M \textit{et al.}, 2012). This is an area that the current study deals with. One of the significant difference between the FBNC & HBNC was cited by a study in rural Uttar Pradesh where the study found that use of Antenatal care & skilled attendance at delivery were significantly associated with clean cord care & early breast feeding but not with thermal care (Baqui A H \textit{et al.}, 2007). Hence, to maintain thermal care, there has to be symbiotic relationship between HBNC & FBNC.

Another Uttar Pradesh based study on HBNC in 2014 reflects that none of the mothers had knowledge & awareness on the HBNC provision for home visits & the number of home visits by ASHAs decreases as the age of the baby increases (Pathak, P. K \textit{et al.}, 2021). Further a 2020 study informs that home based care is effective in reducing neonatal & infant mortality rates when delivered by dedicated worker even in settings with high rates of facility births (Rasaily R \textit{et al.}, 2020). A perspective on HBNC shows that scaling of home based newborn care needs identification of limiting factors & effective up scaling to be able to reduce neonatal mortality (Dutta, A. K, 2009). Another study in 2009 in western UP found that the awareness & demand for HBNC was low among mothers & ASHAs & there were implementation gaps in the roll out (Chaudhury, K \textit{et al.}, 2019).

Neonatal Mortality Rate reduction reflects on the reduction of Infant Mortality Rate. In this way, the efforts of government of Uttar Pradesh become significant when we track the reduction of IMR of India through SRS data. The following figure shows the reduction of IMR in India & the states including UP & the portion was published in the Times of India newspaper of Lucknow edition dated June 4\textsuperscript{th} 2022. The figure shows reduction of IMR in India & states including UP during the period 2010-2020 through
three bulletins of SRS. The piece says India’s IMR dips but worst off states like UP show least progress (SRS, 2010, 2015, 2020). The least progress in reduction of IMR is related to slow reduction in Neonatal Mortality Rate (NMR) in India & states as well (Shankar, M. J et al., 2016).

Objectives of the study
There are three objectives of the article. The first is to find out the current status of Homoeopathy in the HBNC practices, The second is to find out the details of the current & past implementation strategies and the third is to find out the link between Homoeopathy & HBNC practices.

Identification of research gap
After the literature review, the identification of the research gap is done. Here, the identified gap is that AYUSH systems like Homoeopathy has not been integrated in the newborn care frame work in India. The dispensaries of the homeopathic systems work vertically & there is no integration in the newborn care component of the public health system & especially at the community level which incorporates the HBNC component. Although homoeopathy has proved its credentials in the field of child health & especially neonatal health, its potential has not been streamlined in to the current programmatic interventions both at state & national level (GOI, 2011; Ministry of AYUSH, 2015).

Output
The significant output of any project is its contribution to the body of knowledge, influence policy making and bring positive impact in the lives of the people. After the completion of the current article, to contribute to the growth of literature in the field of newborns, more academic articles like the current one will be written. The lead author did his doctorate in Home Based Newborn Care practices in UP and through this study, the lead author also deals with the same component. As HBNC complete the entire baseline package of newborn care, published articles like the current one where the link between HBNC and reduction in NMR approaches is brought out for the benefit of the state of UP and the country. The issues are also to be discussed with the students as the lead author teaches students of Masters of Public Health (Community Medicine) course of Lucknow university (Website of Lucknow university). The lead author has worked with Maternal & health projects of international level NGOs like Catholic Relief Services (CRS), Intra Health International (IHI), Clinton Health Access Initiative (CHAI) and the public health system in the
state of UP & hence through symposiums and seminars, the lead author will disseminate the learning of the current article. All these approaches will lead to interactions with the policy makers at the administrative level and District Hospital (DH) at district level, Community Health Centre (CHC) at tehsil (revenue is collected at this unit in India) level, Primary Health Centre (PHC), Health & Wellness Centre (HWC) & the Frontline Workers (FLW) at the community level. Interactions are also to be done through the stakeholders of NGO network at all these levels.

Basically, outputs are those that the people see through. Emphasis on HBNC approach is expected to lead to reduction in cases of pneumonia, diarrhoea, infections, hypothermia thereby leading to less number of neonatal mortalities. Effective HBNC practices will lead to timely referral of cases. This in turn results in less number of neonatal mortalities which directly helps to lead to increased adherence in community-based platforms like Village Health Nutrition and Sanitation days where the quality of services rendered is expected to improve (UNFPA, 2005). Improved quality of services may lead to inter-sectoral collaboration among health, education, PRI and sanitation departments. Case studies are to be written and published for such improved collaboration and enhancement of quality of services at a later stage. Basically, the above two paragraphs sum up the output.

Effects of the current article
Currently, in the Health Management Information System of the state of UP, the report only mentions the number of newborns weighing less than 2.5 Kilograms. The threshold weight of newborn at community level is 1.8 kilograms (MCH guidelines, NHM, GOI, 2007). The study in later stages will find out how many cases having birth weight less than 1.8 kilograms were referred to through HBNC practices to FBNC facilities. Future studies will also decipher of any link between HBNC and FBNC both qualitatively and quantitatively. Currently in UP, the HBNC checklist of ASHAs are analyzed only in numbers and feedback is not given as per the content of the checklist (GOI, 2011). Similarly, the forth coming study will see whether the changes in HBNC approaches are tuned with the feedback from staff and community members.

The above & below-mentioned paragraphs are not related directly to homoeopathy but focuses on the programs currently operational & related to newborns both at state & national level.

Health Policy & the article
Policy makers will look into this aspect as long as Infant Mortality Rate is not reduced to single digit. Among the deaths, it is the neonatal deaths that have not reduced at the pace at which it should have reduced (Shankar MJ et.al, 2016). Hence, if reduction of IMR is a priority, among them the factor of reduction of NMR is the first priority. The country and the states are supposed to improve upon the SDG targets and among the sub-goals of the goal number 3 of the SDG, 3.2 mentions reduction of neonatal mortality to less than 12 per 1000 live births and U5 mortality to less than 25 per 1000 live births (UN, SDG, 2015). Reduction in IMR and U5 MR will only happen if NMR reduces. In order to achieve the reduction, focus on the facility and community levels approaches needs to be prioritized. The current study focuses on community based Home Based Newborn Care approaches. If the FBNC addresses the referred cases effectively through HBNC, then only the community based HBNC approach will be effective. Here, it is a top-down approach as newborns having birth weight less than 1.8 kilograms have to be catered by FBNC. Policy makers will benefit as it explores the link between two components of newborn care.

Society & the article
Saving newborns will eventually reduce IMR and U5 MR. Hence, child survival becomes the plank of the article. Immunization programs have already demonstrated that they are effective child survival approaches that lead to population stabilization in the long run. Currently, the government of U.P. has announced the new population policy where couples are encouraged to have two children in order to get benefits from the public health system. Strengthening the FBNC approach will address reduction of neonatal mortality in the first month of life. A strengthened health facility will handle referred cases effectively thereby improving the community-based referral system timely and effectively. Such approaches will build confidence and trust among the community towards the public health system. Effective referrals will render respect and dignity among the triad of Front-Line Workers, community and the health system. Timely referrals of newborns will also lead to effective tracking of both the mother and child thereby improving timely registration of birth events in the community. Timely tracking will lead to early diagnosis, treatment and referral at the community level. This eventually leads to better management of verbal autopsies of Infant Death Review (IDR) and Maternal Death Review (MDR) to know the cause of death. The Newborn Death Review is a component of the IDR (GOI, 2007).

Milestones for each quarter- A two year plan to integrate Homoeopathy in Newborn care especially HBNC
The first quarter will focus on finalizing the outline of the proposal, material collection for literature review, expand the proposal on the lines of what has been detailed in the article. Material tracing from past, present will be done for global, national, state and district level. Along with material collection, secondary data on newborn care will be collected from these three levels. The contents will be finalized with discussion and feedback from the experts while incorporating their
inputs. Various academic websites, journals, articles and other program reports of all these three levels will be the input to finalize these activities related to the upcoming proposal.

The second quarter will involve finalization of the research methodology section and development of the project framework. Collection of information about the districts, health facilities, staff involved in roll out of HBNC, names of villages and their ASHAs living close to the health facilities will be finalized. This quarter will also finalize the objectives and the related research questions. The problem statement and the research gap will be strengthened and finalized to augment the homoeopathic study further. Sampling method, sampling technique, inclusion/exclusion criteria etc. will be finalized. The plan for the next quarter will also be finalized in discussions with the stakeholders.

The third quarter will focus on finalization of the outline and contents of the chapters of the proposal. There will be five chapters in all. The chapters and the contents will be

- Chapter One: Introduction chapter – HBNC globally, HBNC in India, HBNC in UP
- Chapter Two: Literature review- HBNC role, performances and experiences related to HBNC
- Chapter Three: Methodology - sampling stages project area and tools and procedures of data collection in detail
- Chapter Four: Results and discussions- presentation of tables of results and presentation of statistical analysis and discussion
- Chapter Five: Conclusions and Recommendations
- Appendix: References, Research Instruments etc.

Fourth quarter will have research tool development. There will be survey questionnaire, interview schedule and preparation of the sampling universe at each level. The contents and flow of the questionnaire and the interview schedule will be finalized in discussion with the stakeholders. The developed tools will be pilot tested as per discussion with the supervisor. After pilot testing, the inputs will be shared with the stakeholders and the tools will be finalized. The pilot testing will involve the feedback from all the stakeholders like the skilled manpower of HBNC, mothers and the ASHAs. Plans for next quarter will be done.

The fifth quarter will be for data collection and field visits. Plan for travel to the health facilities, homoeopathic dispensaries, homoeopathic institutions, villages to meet the stakeholders will also be done. Depending upon the learning from the pilot testing, adequate time will be given to each of the research tool to collect data and verbatims as from the horse’s mouth. The data will be collected in hard copies while the tool would have been developed to make data entries easy. The entire quarter will be for up-keeping of the hard copies so that the entries are done correctly and without any over writing.

Sixth quarter will be for data analysis and data entries. The data entry is to be done in excel sheet analysis is to be done using SPSS for quantitative data and qualitative data is to be analyzed using grouping and collating method. Descriptive and analytical statistics will be used to analyze data. Mean, median, mode, standard deviation, mean deviation will cover descriptive statistics while chi square, t test and ANOVA will cover analytical or inferential statistics. The analysis will be done for each of the questions in the research tool and thereafter tables will be developed for each question of research tool.

Seventh quarter is for writing the results and discussion section of the proposal. Each of the questions in the tool will be used to develop a table followed by writing the results and discussions depending upon the data in the table. Discussions will be written depending upon the interpretation of the results. Besides mentioning the percentage depending upon the elicited data, mean, median, mode, standard deviation and mean deviation will also be mentioned in the discussion section. These results and discussions will lead to the development and plan of summary, conclusion and recommendation sections of the chapter that are next.

The last quarter will be to finalize the entire proposal along with the appendix that includes inclusion of research tools and references. Based upon the need, figures in the form of graphs is to be included in the proposal. The graphs can represent multiple questions in the tool while tables represent a single question in the tool. The reference will be written alphabetically and following that the research tool will be attached. The proposal will then be presented physically in the homoeopathic institutes at the national level, state level homoeopathic health facilities, National Commission on Homoeopathy and having incorporated the feedback from the presentation, the proposal will be submitted to Central Council for Research in Homoeopathy (CCRH) & the ministry of AYUSH at the state & national level.

**HBNC & therapeutics in Homoeopathy**

The figure mentioned below shows the causes of neonatal deaths in India (Baqui, A. H *et al.*, 2006: Shankar, M. J *et al.*, 2016).
Let us analyze the three major causes of neonatal deaths in India. The major cause of deaths among neonants is preterm birth complications followed by infections. The next major cause is intrapartum related. Among other causes, there is equal weight given to congenital anomalies & the others category.

The above figure reiterates the timing of home visits by ASHAs in newborn care. It emphasizes that the first year of life is critical out of which the first month is critical out of which the first week is critical out of which the first day is critical out of which the first hour is critical.

Regarding the timing of deaths, it is inferred that in India, three-fourths of total neonatal deaths occur in the first week of life. The first 24 hour account for more than one third or 36.9% of the deaths that occur during the entire neonatal period in India (Shankar M. J et al., 2016). Further, in another article, M J Shankar informs us that in the developing countries, the first week accounts for 77.7% of all neonatal deaths where as 11.1% die in week 2 & 11.2% die in week 3 to 4. Similarly, the proportion of deaths in the first week of life is 44.4% on day 0, 10.1% on day 1, 8.3% on day 2, 5.8% on day 3, 3.6% on day 4, 2.7% each on day 5 & 6 in developing countries (Shankar, M. J et al., 2016).

Similarly in India, on 0 day, 36.9% die, 7.4% die on day 1, 10.1% die on day 2, 6.6% die on day 3, 5.1% die on day 4, 3.4% die on day 5 & 3.6% die on day 6. Regarding weeks, 72.9% die in 1st week, 13.5% die in each of the weeks from 2nd to 4th (Shankar, M. J et al., 2016).

HBNC guidelines include care of the mother during pregnancy as well. During the last trimester of
pregnancy, the ASHAs should visit the houses of pregnant women to counsel the mother & family members regarding the triad of newborn care i.e. warmth, food & security. Drying & wrapping the child immediately after birth, not bathing the child for 7 days after birth & giving Kangaroo Mother Care (KMC) will maintain warmth of the child. Giving only colostrums without any pre & post lacteals & exclusively breastfeeding the child will address food. Keeping the cord clean & always attending the baby will address security needs of the newborn (GOI, INAP, 2014).

When we address the cause of death & apply homoeopathy to deal with the causes at community level through HBNC, following protocol can be adhered to at the community level. All the medicines are to be given in 20 size globules & having dissolved these globules in breast milk as the exclusive breast feeding modalities are to be adhered to as prescribed by WHO (Breast feeding guidelines, WHO). The ASHAs should be provided with drug kits that have these medicines or the dispensary medical officers or any homoeopathic practitioner should adhere to this protocol.

- Infections- Pneumonia- Pneumococcin & Lecithin in potencies, Sepsis- Pyrogen in potencies, Meningitis- Helleborus & Veratum Viride in potencies, Tetanus- Hypericum & Tetratoxinum in potencies, Diarrhoea- Colostrum, Dysentery Compound & Zinc Met in potencies along with ORS as ORS is allowed in Exclusive Breast Feeding phase.
- Congenital Anomalies- Anti Syphilitic medicines are to be prescribed to check further tissue destruction till the surgery & the cases are to be dealt surgically.
- Intra Partum related- Still births can be checked with application of Cimicifuga in low potencies during pregnancy. Injuries during delivery to be dealt with Arnica, Hypericum & Calendula so that tissue, nerve & muscles are taken care of. In case of non crying babies, Coca & Oxyxygenum in potencies to be given to increase supply of oxygen to the brain & lungs.
- Others- To be dealt miasmatically where Sulphur in potencies to be given in Psoric cases, Thuja in potencies to be given in Sycotic cases & Merc Sol in potencies to be given in Syphilitic cases.
- Intervention in first 24 hours of birth- Give Colostrum, Lac Materna Humana & Mel in potencies as these medicines are related to breast milk & will enhance immunity. For maintaining warmth of the child, Calcarea Phos in potencies & Aconite in potencies to ward off fright. Incorporating these medicines on the ‘0’ day of life of the newborn will prevent 37% of all neonatal deaths.
- Foods, Warmth & Security are the need triad of newborns. Colostrum feeding is food, Wrapping, Drying, not removing Vernix Caseosa for 7 days, bathing the newborn after 7 days, Skin to Skin Touch to be given for at least one hour in one setting where the child is kept in frog position on the chest of the mother or care giver. This is technically known as Kangaroo Mother Care. Human beings learnt the technique from Kangaroo where the baby Kangaroo remains in the mother’s pouch and also breast feeds there. These help the baby Kangaroo to survive the odds in the first month of life (GOI, MCH guidelines, 2007).

**Newborn care & homoeopathy in public domain**

Currently, the Essential Drug List of Homoeopathy, Department of AYUSH shows one category that includes newborn care. The category is childhood illnesses under which the newborn care can be considered as a subset. Under various color categories, the potencies of each medicine are coded. The color seven highlights only suggests to use the medicine in these potencies from a list of 233 medicines besides the biochemic medicines, ointments & drops to be used locally (GOI, AYUSH, EDL-H, 2013).

Another document in the public domain is the 8th training module of ASHA developed by NHSRC in 2005 for NRHM. The module has a list of common medicines that describes their use in different conditions (GOI, NHSRC, 2005).

These two documents are vague & hence the need of the hour is to develop a treatment protocol for newborn care in homoeopathy. It should be developed on the lines of the HBNC & FBNC components. The causes of deaths should also be taken into account while developing the protocol.

**CONCLUSION**

The admission of homoeopathy effectively in the field of newborn care will enrich the homoeopathic students & fraternity as there will be value addition towards understanding epidemiology & mortality of neonatal stage. They will continue to practice effectively & be able to deal with new challenges that will continue to emerge in care of newborns. It is not possible for the community to wait for & rush for care.
at tertiary facilities for every sick or healthy newborn. It is here that effective HBNC roll out will be beneficial. No single strategy can be a panacea for the emerging challenges in newborn care. It is here that the cost effectiveness & clinical effectiveness of Homoeopathy will come handy for the public & private health systems while dealing with masses for a developing country like India. Homoeopathy having proved its mettle in the field of child health will go a long way in arresting & controlling the problems at the beginning phase of each life. With a low Total Fertility Rate of 2.1 at the country level (NFHS 5, 2019-21) which equivalents the replacement level, it is imperative that we save all the newborns.

**DECLARATION**

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