

Research Article

A Descriptive Study to Assess the Correlation between Knowledge and Practice of ASHA Workers regarding Services provided under National Health Mission working in Selected Primary Health Centres of Tangmarg, Baramulla with a View to Develop Information Booklet

Noorul Amin¹, Dilshada Wani², Bilqis Yasmin³

¹MSc Nursing (Community Health Nursing) Scholar, ²Professor Cum Principal, ³Senior Tutor, MMINSR, SKIMS, Soura, Srinagar, Jammu and Kashmir, India.

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Corresponding Author:

Noorul Amin, MMINSR, SKIMS, Soura, Srinagar, Jammu and Kashmir, India.

E-mail Id:

noorul.amin@skims.ac.in

Orcid Id:

<https://orcid.org/0000-0002-9631-376X>

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A B S T R A C T

Introduction: The study was conducted to assess the knowledge and practice levels of ASHA workers regarding services provided under the National Health Mission (NHM). These levels were further correlated to know whether they are related or not. It aimed at providing deficient information to ASHA workers, and at motivating them to sustain their efforts for adequate practice.

Methods: A non-experimental descriptive (correlative) research design was used. 60 ASHA workers were selected from the accessible population using convenient sampling technique. The prepared tools (self-structured knowledge questionnaire and practice checklist) and Information Booklet were validated by a panel of experts, and were pre-tested for clarity and feasibility. A pilot study was conducted on 10% of ASHA workers. The main study was conducted from 9th September 2020 to 20th September 2020. The data collected was analysed by using descriptive and inferential statistics.

Result: The study revealed that majority of the ASHA workers had average knowledge and adequate practice regarding services provided under NHM. There was a significant association of their knowledge scores regarding services provided under NHM with their educational status. No significant association was found between their practice scores and their demographic variables. A moderately strong positive correlation was found between their knowledge and practice regarding services provided under NHM.

Conclusion: The findings of the study concluded that ASHA workers working in Primary Health Centres of Tangmarg, Baramulla had average knowledge and adequate practice regarding services provided under NHM. However, some components need to be focused on.

Keywords: ASHA Workers, Services Under NHM, Knowledge, Practice

Introduction

In India, about 70 per cent of people live in rural areas. As there is a lack of decentralisation of health services, so the people living in these areas do not have proper hospital facilities and access to health care. A high proportion of the population, especially in rural areas, continues to suffer and die from preventable diseases like malnutrition, complications related to pregnancy, and childbirth. Recognising the importance of health in the process of economic and social development and to improve the quality of life of citizens, the Government of India launched "National Rural Health Mission" (NRHM) on 5th April 2005 for a period of 7 years (2005-2012). The mission seeks to improve the rural health care delivery system. It is operational in the whole country with a special focus on 18 states (UT of Jammu and Kashmir included). By making necessary changes in the basic health care delivery system, the mission adopts a synergic approach by relating health to the determinants of good health, nutrition, sanitation, hygiene, and safe drinking water. It also included the Indian system of medicine in the mainstream of health care.¹

The main aim of National Rural Health Mission (NRHM) is to provide accessible, affordable, accountable, effective, and reliable primary health care, and to bridge the gap in rural health care by creating a cadre of community health workers popularly known as Accredited Social Health Activist (ASHA).²

The Government of India (GoI) found a positive impact of NRHM, and hence decided to convert it into National Health Mission (NHM) in May 2013 to provide health care to the urban poor under National Urban Health Mission (NUHM) in the course of 12th five-year plan. National Urban Health Mission (NUHM) envisages meeting the health care needs of the urban population with a focus on the urban poor by making available to them essential primary health care services and reducing their pocket expenses for availing different services, facilities, and treatment. Now NUHM and NRHM are functioning as sub-missions of NHM.³

The main initiatives under NHM include strengthening of the health system in rural and urban areas, ASHA, Rogi Kalyan Samiti, Hospital Management Society, the untied grants to Sub-Centres, The Village Health Nutrition and Sanitation Committee (VHN&SC), Janani Suraksha Yojana (JSY), Janani Shishu Suraksha Karyakram (JSSK), Newborn Care, National Ambulance Services, Free Drugs/ diagnostic Service Initiative, Maternal & Child Health services, Reproductive Child Health, and prevention and control of communicable diseases. The NHM envisages the achievement of universal access to equitable, affordable, and quality healthcare services that are accountable and responsive to people's needs.³

The country deals with multiple health crises, rising cost of health care, and mounting expectation of the people, and

the National Health Mission (NHM) is a major instrument of financing that provides support to the states to strengthen public health systems and healthcare delivery. This financing to the states is based on the State's Programme Implementation Plan (PIP) and is fully sponsored by the Central Government of India. Nowadays we can see that NHM is running in all states and union territories, where health status is low.⁴

The number of ASHA workers working in J&K as per the report published by NHM in "update on ASHA programme" is 11843. The same report has proposed a requirement for 12000 more ASHA workers for J&K. There are about 1026 ASHA workers working in the Baramulla district of J&K.⁴

Out of the above-mentioned number of ASHA workers, 3000 appeared in the National Institute of Open Schooling (NIOS) examination and got certified for the job. Out of this, 399 appeared from the district Baramulla.⁵

ASHA programme of J&K was awarded at the national level because of its excellent performance and unique institutionalisation.⁶

Objectives

- To assess the knowledge score of ASHA workers regarding services provided under NHM.
- To assess the practice score of ASHA workers regarding services provided under NHM.
- To associate the knowledge score of ASHA workers regarding services provided under NHM with selected demographic variables (age, educational status, marital status, experience, and in-service training received under NHM).
- To associate the practice score of ASHA workers regarding services provided under NHM with the selected demographic variables (age, educational status, marital status, experience, and in-service training received under NHM).
- To find out the correlation between knowledge and practice score of ASHA workers regarding services provided under NHM.

Methods

Research Approach

While going through the problem statement and objectives of the research study, a quantitative research approach was used because it was found to be the most appropriate for achieving the objectives of the study titled "A descriptive study to assess the correlation between knowledge and practice of ASHA workers regarding services provided under National Health Mission working in selected Primary Health Centres of Tangmarg, Baramulla with a view to develop Information Booklet."

Research Design

In this study, a non-experimental research design was used for the overall research process. A subtype of this design, i.e. descriptive (correlative) research design, was used for the present study.

Variables

The following variables were included in the research study.

Demographic Variables

These refer to the personal characteristics of the study subjects. In this study, these refer to the personal characteristics of ASHA workers. Here, the demographic variables included are age, educational status, marital status, experience, and in-service training received under NHM.

Research Variables

These refer to the variables that are actually under study. In this study, research variable refers to the knowledge and practice of ASHA workers regarding services provided under the National Health Mission.

Setting of the Study

The present study was conducted in seven selected Primary Health Centres of Tangmarg Baramulla (Gulmarg, Babareshi, Gogaldara, Hariwatnoo, Khaipora, Warpora, and Nambilnara) from 9th September 2020 to 20th September 2020. The selection of setting was done on the basis of nature and purpose of the problem statement, feasibility of conducting the research study, availability of the sample, and familiarity of the researcher with the research setting.

Study Population

A population is the entire aggregation of cases in which a researcher is interested. Population is a set of people or entities to which the results of a research study are to be generalised. In the present study, the population consists of all ASHA workers working in selected Primary Health Centres of Tangmarg, Baramulla.

Sampling Technique and Sample

Non-probability convenient sampling technique was used for the selection of study subjects to be included in the study. The sample size for the present research study comprised 60 ASHA workers working in selected Primary Health Centres of Tangmarg, Baramulla (Gulmarg, Babareshi, Gogaldara, Hariwatnoo, Khaipora, Warpora, and Nambilnara).

Criteria for Selection of Sample

The researcher specifies the characteristics of the population by setting inclusion and exclusion criteria in the study. Inclusion criteria are the characteristics that each sample

must possess to be included in the study. Exclusion criteria are the characteristics that a participant may have, which makes him or her unfit for the study as they confound the results of the final study.

Following criteria were set for the selection of study subjects in the research study:

Inclusion Criteria

ASHA workers who fulfilled the following criteria were selected for the study:

- Working in the selected Primary Health Centres of Tangmarg, Baramulla.
- Available at the time of data collection.

Statistical Tools Used to Analyse the Data

The data analysis was planned based on the objectives and hypothesis of the study. It was planned to organise, tabulate, analyse, and interpret data using both descriptive and inferential statistics. The following plan of analysis was developed with the opinion of experts:

1. The collected data was coded and transferred to a master sheet for statistical analysis.
2. Frequency and percentage distribution were computed to describe the sample characteristics.
3. The knowledge scores of the study subjects regarding services provided under NHM were analysed in terms of mean, median, and standard deviation.
4. The practice scores of the study subjects regarding services provided under NHM were analysed in terms of mean, median, and standard deviation.
5. Chi-square test was used to associate the knowledge and practice score of ASHA workers regarding services provided under NHM with selected demographic variables (age, educational status, marital status, experience, and in-service training received under NHM).
6. Karl Pearson's product-moment correlation method was used to determine the correlation between knowledge and practice of ASHA workers regarding services provided under NHM.
7. The findings were interpreted and presented with the help of tables and graphs. The level of significance was set as the conventional level of $p < 0.05$ to test the hypothesis.

Ethical Consideration

Ethical clearance is necessary when research is conducted on human beings. Prior permission was obtained from the concerned authorities (Principal of MMINSR, SKIMS, and BMO Tangmarg) to conduct the research study. Prior permission from the BMO Tangmarg was obtained through a requisition letter forwarded from the office of Principal, MMINSR to conduct the study. A synopsis was presented

and submitted to the Institutional Ethics Committee of SKIMS, Soura Srinagar for ethical clearance and permission. The purpose of conducting the study on ASHA workers at Primary Health centres of Tangmarg was explained to BMO Tangmarg and Block ASHA coordinator. The purpose and objectives of the study were also explained to the ASHA workers working in the Primary Health Centres of Tangmarg, Baramulla. The permission from study subjects was obtained through informed consent, taken individually from each of the ASHA workers, prior to their inclusion as a study subject in this research. The privacy, confidentiality, and anonymity of study subjects were being guarded.

Result

The data collected were analysed using both descriptive (frequency, mean, median, SD, range) and inferential statistics (Chi-square test and Karl Pearson's Product-Moment Method of Correlation). The data was compiled, stored, and coded in MS excel spreadsheet, and was analysed with the help of SPSS software (Version 20.0) (SPSS Inc., Chicago, Illinois, USA). All the inferences were checked at $p < 0.05$ level of significance. The findings have been tabulated according to the plan for data analysis.

Table 1. Mean $\pm$ SD, Median, Mode, and Range of Knowledge Score of Study Subjects

(N = 60)

Knowledge Score	Mean $\pm$ SD	Median	Mode	Range
	38.16 $\pm$ 6.01	37.79	37	29

Table 1, shows that the mean $\pm$ SD of knowledge score of study subjects was 38.16 $\pm$ 6.01, with a median of 37.79, mode of 37, and range of 29.

Table 2. Distribution of Study Subjects according to their Frequency and Percentage of Knowledge Level regarding Services provided under NHM

(N = 60)

Knowledge Level (Score)	Frequency (f)	Percentage (%)
Poor (< 30)	03	05
Average (31-40)	37	61.67
Excellent (> 40)	20	33.33
Total	60	100

Table 2, shows that maximum (61.67%) study subjects were having average knowledge, while 33.33% of the study subjects were having excellent knowledge, and a minority (5%) of the study subjects had poor knowledge regarding services provided under NHM.

Table 3, shows that the mean $\pm$ SD knowledge of study subjects was 7.31 $\pm$ 1.35 regarding the concept of NHM, 9.91

$\pm$ 1.22 for maternal health services, 2.9 $\pm$ 0.93 for JSY services provided under NHM, 3.63 $\pm$ 0.85 for JSSK services provided under NHM, 8.93 $\pm$ 1.92 for child health and immunisation, and 6.86 $\pm$ 1.62 for other miscellaneous services.

Table 3. Area wise Mean $\pm$ SD, Median, Mode, and Range of Knowledge of Study Subjects regarding Services provided under NHM

(N = 60)

Knowledge Areas regarding Services provided under NHM	Mean $\pm$ SD	Median	Mode	Range
Part A Concept of NHM	7.31 $\pm$ 1.35	7	7	9
Part B Maternal Health Services Provided under NHM	9.91 $\pm$ 1.22	9	9	5
Part C JSY Services Provided under NHM	2.9 $\pm$ 0.93	3	3	4
Part D JSSK Services Provided under NHM	3.63 $\pm$ 0.85	4	4	4
Part E Child Health and Immun. Services Provided under NHM	8.93 $\pm$ 1.92	9	10	8
Part F Other Misc. Services Provided under NHM	6.86 $\pm$ 1.62	7	7	6

Thus it can be inferred from the findings that the study subjects were having the highest knowledge regarding maternal health services, followed by child health and immunisation, concept of NHM, JSSK services provided under NHM, JSY services provided under NHM, and other miscellaneous services provided under NHM.

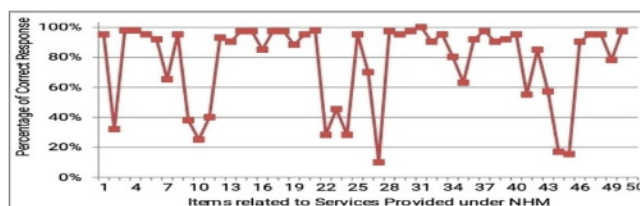


Figure 1. Item Analysis of Percentage Distribution of Correct Responses on Self-structured Knowledge Questionnaire

Figure 1 depicts that 100% of study subjects were able to answer item number 31 while only 15% were able to answer item number 45 in the self-structured knowledge questionnaire.

Thus it can be inferred that the study subjects were well acquainted with BCG immunisation of child at birth and were less aware that ASHA kits were being provided to them for various procedures (Refer Appendix).

Table 4. Mean $\pm$ SD, Median, Mode, and Range of Practice Score of Study Subjects

(N = 60)

Practice Scores	Mean $\pm$ SD	Median	Mode	Range
	12.58 $\pm$ 1.6	13.48	13.81	11

Table 4, depicts that mean $\pm$ SD of practice score of study subjects was 12.58 $\pm$ 1.6, with a median of 13.48, mode of 13.81, and range of 11.

Table 5. Distribution of Study Subjects according to their Frequency and Percentage of Practice Level regarding Services provided under NHM

(N = 60)

Practice Level	Frequency (f)	Percentage (%)
Poor (≤ 5)	01	1.67
Moderately Adequate (6-10)	03	05
Adequate (> 10)	56	93.33
Total	60	100

Table 5, shows that majority, i.e. 93.33%, of the study subjects were having adequate practice, while 5% were having moderately adequate practice, and only 1.67% had poor practice regarding services provided under NHM.

Table 6. Association of Knowledge Scores of Study Subjects regarding Services provided under NHM with the Selected Demographic Variables

(N = 60)

Demographic Variables		Poor Knowledge	Average Knowledge	Excellent Knowledge	χ^2 Test	Table value	df	p value	Result
Age (in years)	21-30	1	6	0	7.47	12.59	6	0.28	NS#
	31-40	1	23	15					
	41-50	2	7	3					
	51-60	0	1	1					
Educational Status	8th	2	30	7	12.45	9.49	4	0.014	S*
	10th	2	6	9					
	12th	0	1	3					
Marital Status	Married	0	0	1	5.59	9.49	4	0.231	NS#
	Unmarried	3	32	18					

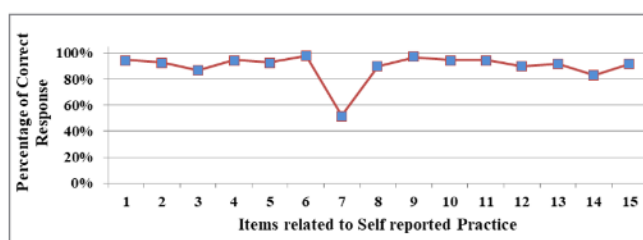


Figure 2. Item Analysis of Percentage Distribution of Correct Responses on Practice Checklist

Figure 2, reveals that maximum (95%-98%) study subjects had given correct response to item number 1,4,6,9,10,11, while minimum correct response was given to item number 7 (by 52% of study subjects).

Thus it can be inferred that the study subjects participate more in maternal health (Refer Appendix). It is also interpreted that they have not yet taken up the role of DOTS provider fully.

H₀₁: There is no significant association between the knowledge score of ASHA workers regarding services provided under NHM with selected demographic variables (age, educational status, marital status, experience, and in-service training received under NHM) at 0.05 level of significance.

Table 6, reveals that statistically, a significant association was found between the knowledge scores of study subjects and their educational status ($p = 0.014$) whereas no association was found with age, marital status, experience, and in-service training received under NHM.

Hence the researcher failed to reject the null hypothesis H01 for demographic variables [age ($p = 0.28$), marital status ($p = 0.231$), years of experience ($p = 0.537$), and in-service training received under NHM ($p = 0.526$)] except for educational status ($p = 0.014$) with which association was highly significant at < 0.05 level of significance.

	Other	1	5	0					
Experience (in years)	1-5	0	3	1	1.72	9.49	4	0.537	NS#
	6-10	1	13	6					
	11-15	3	21	12					
In-service Training received under NHM	Yes	4	35	19	1.28	5.99	2	0.526	NS#
	No	0	2	0					

*Significant ≤ 0.05

#Non-Significant > 0.05

Table 7. Association of Practice Scores of Study Subjects regarding Services provided under NHM with their selected Demographic Variables

(N = 60)

Demographic Variables		Poor Practice	Moderately Adequate Practice	Adequate Practice	χ^2 Test	Table value	df	p value	Result
Age (in years)	21-30	1	0	6	8.4	12.59	6	0.20	NS#
	31-40	0	2	37					
	41-50	0	1	11					
	51-60	0	0	2					
Educational Status	8th	0	2	37	2.8	9.49	4	0.60	NS#
	10th	1	1	15					
	12th	0	0	4					
Marital Status	Married	0	0	1	9.5	9.49	4	0.10	NS#
	Unmarried	0	3	50					
	Other	1	0	5					
Experience (in years)	1-5	0	0	4	4.0	9.49	4	0.40	NS#
	6-10	1	0	19					
	11-15	0	3	33					
In-service Training received under NHM	Yes	1	3	54	0.1	5.99	2	0.90	NS#
	No	0	0	2					

*Significant ≤ 0.05

#Not Significant > 0.05

Thus it can be interpreted from the association table that the educational status of study subjects plays an important role in the acquisition of knowledge regarding services provided under NHM whereas the other factors don't play such a role here in the study.

Ho₂: There is no significant association between the practice score of ASHA workers regarding services provided under NHM with selected demographic variables (age, educational status, marital status, experience, and in-service training received under NHM), at 0.05 level of significance.

Table 7, reveals that statistically, no significant association was found between the practice scores of study subjects with their age, educational status, marital status, experience, and in-service training received under NHM.

Hence the researcher failed to reject the null hypothesis H02 for demographic variables [age ($p = 0.20$), educational status ($p = 0.60$), marital status ($p = 0.10$), experience in years ($p = 0.40$), and in-service training received under NHM ($p = 0.90$)] at $p < 0.05$ level of significance.

Thus it can be interpreted that the selected demographic variables don't interfere with the practice level of study subjects. This can be due to the fact that all of the activities performed by the study subjects are incentive-based which motivates them to perform adequately to gain the monetary benefit.

Ho₃: There is no significant positive correlation between knowledge and practice of ASHA workers regarding services provided under NHM, at 0.05 level of significance.

Table 8. Correlation between Knowledge and Practice Score of Study Subjects regarding Services provided under National Health Mission

(N = 60)

Item	Mean $\pm$ SD	Median	Pearson's Coefficient (r)	r Tabulated	df	p value	Result
Knowledge	38.16 $\pm$ 6.01	37.79	0.69	0.25	58	0.001	S*
Practice	12.58 $\pm$ 1.6	13.48					

*Statistically Significant at $p < 0.01$

Table 8, shows that there is a perfect positive correlation between knowledge and practice of ASHA workers regarding services provided under NHM, by using Pearson's coefficient method. The coefficient of correlation between knowledge and practice is found to be $r = 0.69$ with p value = 0.001.

Hence the researcher rejected the null hypothesis H_0 which states that there is no significant positive correlation between knowledge and practice of ASHA workers regarding services provided under NHM as the coefficient of correlation between knowledge and practice is found to be $r = 0.69$ with p value = 0.001, which is highly significant at 0.05 level of significance.

Thus it can be interpreted that the knowledge level of study subjects has an impact on their practice level.

Discussion

The major findings of the present study, based on the objectives are discussed in relation to the previous studies conducted by other investigators as follows.

The findings of the present study revealed that the majority of study subjects, i.e. 61.67%, had obtained scores between 31 and 40, and 33.33% had scored between 41 and 50, followed by 5% who scored between 0 and 30. The study concluded that the mean $\pm$ SD knowledge of the study subjects was 38.16 ± 6.01 , median was 37.79, mode was 37, and range was 29. This implies that the researcher had found that 61.67% of study subjects had average knowledge, 33.33% of study subjects had excellent knowledge, and 5% of the study subjects had poor knowledge regarding services provided under NHM.

The findings of the present study are supported by a study conducted by Mohapatra A, Mohapatra SC (2013)⁷ on, "Intra-organizational human resource auditing of ASHAs in Harahua block of Varanasi with (N = 209)". The study revealed that the mean knowledge score was found to be 2.11 on a 3-point Likert scale, with 39% ASHAs ranking average, 36% ranking good, and 25% ranking poor.

The above findings are also supported by a study conducted by Gupta A (2017),⁸ on "A Study on Knowledge and Practice of ASHA under NHM Programme of Allahabad District conducted on 405 ASHA workers" in Uttar Pradesh, India. The study revealed that majority of ASHA workers (52.10%)

had a medium level of knowledge of the responsibilities assigned to them according to NHM.

The present study also revealed that the mean $\pm$ SD knowledge of study subjects was 7.31 ± 1.35 regarding concept of NHM, 9.91 ± 1.22 for maternal health services, 2.9 ± 0.93 for JSY services provided under NHM, 3.63 ± 0.85 for JSSK services provided under NHM, 8.93 ± 1.92 for child health and immunisation, and 6.86 ± 1.62 for other miscellaneous services. Thus ASHA workers were having the highest knowledge regarding maternal health services, followed by child health and immunisation, concept of NHM, JSSK services provided under NHM, JSY services provided under NHM, and other miscellaneous services provided under NHM.

It is thus evident that there is a definite scope for improvement and enhancement in the various knowledge components of the study subjects. The study subjects need to update and abreast their knowledge regarding Janani Suraksha Yojana and other miscellaneous services for which their role is essentially sought. The general concepts and services for which they can play an active role in NHM are inevitable to be incorporated in their training. The study subjects need to update their information on Village Health Nutrition and Sanitation programme and have to work actively in all its components. This will help in bridging the gap between community health needs and contemporary health services through utilisation of local resources managed via an intersectoral approach in a more affordable and accessible manner at Primary Health Care level.

The present study revealed that 93.33% of study subjects obtained a practice score in the range of 11-15, followed by 5% in the range of 6-10, and only 1.67% in the range of 1-5. This study also concluded that the mean $\pm$ SD of practice score was 12.58 ± 1.6 . On further categorising the practice scores as poor, moderately adequate, and adequate, the study revealed that 93.33% of study subjects had adequate practice, 5% had moderately adequate practice, and only 1.67% had poor practice.

The findings of the present study are supported by a study conducted by Garg PK, Bhardwaj A, Singh A, Ahluwalia SK (2013)⁹ on "An evaluation of ASHA worker's Awareness and

Practice of their responsibilities in rural Haryana” on 105 ASHA workers. It was found in this study that ASHA workers (60%-70%) had adequate practice regarding antenatal care, postnatal care, immunisation, child health, maternal and reproductive health, family planning, birth and death registration, and sanitation services.

The findings of the present study are concurrent with the findings of another study conducted by Gupta A (2017),⁸ on “A Study on Knowledge and Practice of ASHA under NHM Programme of Allahabad District conducted on 405 ASHA workers” in Uttar Pradesh, India. It was found in this study that most of the ASHA workers (63.70%) have adequate knowledge and practice in the field regarding NHM, and acquire more knowledge and practice effectively by working more and more in the field.

The study findings are similar to that of Meena R, Raj D, Saini L, Tomar A, Khanna M, Gaur K (2016),¹⁰ conducted on “Knowledge status of Accredited Social Health Activist of Jaipur city on 172 ASHA workers”. The study revealed that majority of ASHAs practice adequately and know their role in immunisation, antenatal care, and informing Sub-Centre/ PHC/ CHC about births and deaths in the village. The majority (> 80%) of ASHAs knew their role in postnatal check-up (PNC), counselling women for birth preparedness, safe delivery, exclusive breastfeeding, complementary feeding, and personal hygiene and sanitation.

The present study has also revealed that 95% of ASHA workers used to register pregnant women in the period of 12-16 weeks of gestation, 93% used to counsel pregnant women for ANC, 87% used to guide them for PNC, and 93% reported that they accompany and escort pregnant women to the hospital. 98% of the ASHA workers have a practice of distributing oral pills, ORS, and iron and folic acid tablets to beneficiaries. It was found during this study that only 52% of ASHAs practice as DOTS provider. Moreover, 90% of ASHA workers have a practice of informing AWW and ANM on new births and deaths in their local community. 97% of ASHA workers work in coordination with AWW in supplementary feeding of under-five children and expecting women. 95% of ASHA workers reported that they assist ANM in immunisation of children against 7 killer diseases. 95% of ASHA workers motivate eligible couples (having more than two children) for family planning. Maximum (90%) ASHA workers help AWW in supplementary feeding programme. 92% of the ASHA workers have a practice of inviting all beneficiaries a day before VHN&S committee meeting to discuss the health issues. 83% of ASHA workers are active in spreading awareness and education by participating in the related programmes regarding TB/ AIDS in the community and work along with other health officials. 92% of ASHA workers help the community to get latrines constructed

and motivate them to do so by all possible means through total sanitation campaign and Swachh Bharat Abhiyan.

The study findings of the present study are also supported by Gupta A (2017),⁸ in a study conducted on “A Study on Knowledge and Practice of ASHA under NHM Programme of Allahabad District on 405 ASHA workers” in Uttar Pradesh, India. The study revealed that all the respondents included registration of pregnant mother, counselling on ANC and PNC, safe delivery, immunisation, and accompanying pregnant mother to the hospital as part of their routine duties. Distribution of ORS, IFA, and oral pills are not the regular activities as reported. Only 35% of ASHA workers reported for the distribution of DOTS. 84.44% informed AWW/ ANM on birth and death. 90.62% helped AWW in supplementary nutrition feeding.

The findings of the present study are also concurrent with Shashank KJ, Angadi MM (2015),¹¹ who conducted “A study to evaluate the knowledge of ASHA workers on antenatal and postnatal care in Bijapur district on 132 ASHA workers” India. The study showed that 90.9% were aware of and distributed IFA and calcium tablets for the antenatal mothers.

The findings of the present study are also supported by another study conducted by Swathi S, Sumit K, Sameer P (2018)¹² on, “A study on assessment of ASHA’s work profile in context of Uduppi Taluk, Karnataka, India among 100 ASHA workers”. The study revealed that 97% of the ASHA workers reported that they were informing the concerned about births and deaths in their respective villages. 77% of ASHA workers were also helping in creating awareness in the community to send their under-five child to Anganwadi centre.

The study findings revealed that there was a statistically significant association between the knowledge score of ASHA workers regarding services provided under NHM and educational status ($p = 0.014$), and no significant association was seen between knowledge and other demographic variables (age, marital status, experience, and in-service training received under NHM).

The findings of the present study are supported by Bhandari JD, Arunkumar RV, Sharma DB (2018)¹³ in their study on “Evaluation of accredited social health activists in Anand Gujarat”. The study revealed that there is no association of knowledge and performance scores of ASHA workers with age ($p = 0.905$), educational status ($p = 0.113$), and service period ($p = 0.549$).

The study findings revealed that there was statistically no significant association between the practice score of ASHA workers regarding services provided under NHM and demographic variables [age ($p = 0.20$), educational status

($p = 0.60$), marital status ($p = 0.10$), experience ($p = 0.40$), and in-service training received under NHM ($p = 0.90$).

The findings of the present study are supported by a study conducted by Sindhu JV (2019)¹⁴ on "Knowledge and reported Practice of ASHA workers regarding infant care in selected PHCs under Anekal Taluk, Bangalore". It was revealed in their research study that there was no association of practice with age ($p = 0.32$), education ($p = 0.42$), marital status ($p = 0.51$), experience ($p = 0.33$), and in-service training programmes attended ($p = 0.37$).

The findings of the present study are contrary to the findings of Mohapatra A, Mohapatra SC (2013)⁷ in their study entitled, "Intra-organizational human resource auditing of ASHA's in Harahua block of Varanasi". The study revealed that there is a significant association of performance of ASHA under NRHM with caste ($p = 0.040$), educational status ($p = 0.001$), and years of service ($p = 0.041$).

The present study revealed that the correlation between knowledge and practice of ASHA workers regarding services provided under NHM are positively (moderately strong correlation)¹⁵ related as r calculated value is 0.69, and r tabulated value is 0.25, with $p = 0.001$, and 58 (N-2) degree of freedom.

The study finding is statistically significant at 0.01 level. So there is a significant strong positive correlation between knowledge and practice of ASHA workers, as far as rule of thumb is concerned.¹⁶

The findings of the present study are also supported by a study conducted by Sindhu JV (2019)¹⁴ on "Knowledge and reported Practice of ASHA workers regarding infant care in selected PHCs under Anekal Taluk, Bangalore", which was conducted on 79 ASHA workers. It was revealed in their research study that there is a significant positive correlation between knowledge and practice of ASHA workers ($r = 0.86$, $p = 0.000$).

Nursing Implications

The study findings have several implications in nursing. They can be categorised under the following headings:

- Nursing Practice
- Nursing Education
- Nursing Research
- Nursing Administration

Nursing Practice

1. It is the responsibility of the Public Health Nurses, Community Health Nurses, and Community Health Officers to educate the ASHA workers regarding National Health Mission, and services provided through this mission to the general public and special sections of the society. This information should be disseminated

among lower rung nursing professionals like ANM and FMPHW who work as ASHA facilitators and ASHA coordinators at block and district levels.

2. Nursing professionals themselves need to improve and update their knowledge regarding National Health Mission (NHM), maternal health services, JSY, JSSK, child health, immunisation, and miscellaneous services like family planning, sanitation, village health etc.
3. Teaching programmes can be conducted for ASHA workers, ANM cum ASHA facilitators, ASHA coordinators and nursing professionals as they would allow all of these community health workers to enhance their knowledge regarding NHM, programmes implemented through NHM, and services provided under NHM.
4. Community Health Nurses and Community Health Officers working at Health and Wellness Centres should use their knowledge to educate community health workers and the general public regarding major services provided under NHM to link the community with health care services very effectively.

Nursing Education

1. Nurse educators working in the Regional Institute of Health and Family Welfare (RIHFW) and Kashmir Skills and Simulation Centres (KSSC) located at Dhobiwan Tangmarg of Baramulla district should educate the ancillary nursing professionals like ANM and MMPHW regarding various programmes, benefits, and incentives provided under various schemes to the general or a particular section of the society.
2. Nurse educators meant for nursing practitioners of different cadres and other health care staff, appointed through NHM at State accredited vocational institute (No. 572101 affiliated with National Institute of Open Schooling) under RIHFW, Dhobiwan Tangmarg should impart and refine skills of health care workers. They should assess and evaluate these skills at the same time so that hurdles and difficulties in the field can be minimised.
3. More information should be provided to the community health nursing students regarding the NHM, NRHM, NUHM, RCH, maternal health, JSY, JSSK, newborn care, child health, immunisation, VHSNC, and other miscellaneous services. They can educate the community health workers while in the field or in clinical placement working along with these community health workers like ASHA, AWW, ANM, MPHWH etc.
4. The nursing curriculum should be strengthened by equipping with knowledge regarding various teaching strategies to disseminate health information, advanced technology in the medical profession related to NHM, programme implementation under this scheme, and benefits for the community.
5. Students can be encouraged to take up projects and

research studies related to ASHA workers, community health workers, community health officers, and medical officers to know how well the information regarding NHM is disseminated and how services are utilised. Moreover, evaluation studies regarding each component of NHM can be undertaken by nursing practitioners in Community Health.

Nursing Administration

1. Community Health Nurses as administrators should take initiation in formulating information booklets, structured teaching programmes, translation of material to languages understandable to ASHA workers, formulation of guidelines for working in community settings, online lectures, and discussions via WhatsApp groups.
2. Community Health Nurses should effectively collaborate with the administrators of sub-district hospitals, primary health centres, and simulation labs with an objective to enhance the knowledge of ASHA workers and motivate them to embrace technology and changes in society. This will again help in bridging the gap between community and healthcare services.
3. Community Health Nurses along with administrators from a medical background like Block Medical Officers, Medical Officers etc. should organise the in-service educational programmes, modular training, and refresher courses for ASHA workers and other community health workers to enhance their knowledge and motivate them to participate in such activities, by providing incentives, reinforcement, and certificates of appreciation.

Nursing Research

1. The findings of the present study suggest that the administration should encourage ASHA workers to read, discuss, and participate in research activities in order to improve their knowledge regarding National Health Mission and services provided under the ambit of NHM.
2. The study also suggests that encouragement should be provided to disseminate knowledge by publications, lectures, information booklets, ASHA modules, and organising training, workshops, conferences, and seminars at appropriate locations for the welfare of all.

Limitations

1. Generalisation is not possible since the sample is limited (60), and setting is Primary Health Centres of Tangmarg, only one block of Baramulla.
2. The researcher used non-experimental descriptive (correlative) research design. Hence the researcher had observed and described what has come to the fore. The same was correlated with previously done

studies in order to know the studies that are in support of findings and their revelations, and those that are contrary to the results of the study.

3. A one-time assessment was done and the study was related to a few components of the National Health Mission.
4. The practice assessed was expressed practice and self-reported practice, as it was not possible for the researcher to observe the same under prevailing conditions of COVID-19 pandemic.

Recommendations

1. This study can be replicated in a different setting with a larger group.
2. A comparative study can be done using Primary Health Centres of various blocks, various districts, or urban and rural settings.
3. A similar study can be done on different community health workers like ANM, MPHW's, staff nurses, public health nurses, and community health officers.
4. A similar study can be recommended to evaluate the effectiveness of a structured teaching programme or a video-assisted programme on knowledge and practice of ASHA workers regarding services provided under the National Health Mission.
5. A similar study can be recommended to compare the knowledge and practice of ASHA workers regarding services provided under the National Health Mission in selected urban and rural health centres of Srinagar, Kashmir.
6. A structured teaching practice can be developed based on the existing learning needs of ASHA workers.
7. Evaluation studies can be conducted on different services and programmes of NHM with a varying population ranging from beneficiaries to health care workers.

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Appendix

Tools of Data Collection

Section I

Demographic Variables

1. Age in years
2. Educational Status
 - 2.1 8th
 - 2.3 10th
 - 2.3 12th
 - 2.4 Graduate
 - 2.5 Any other
3. Marital Status
 - 3.1 Married
 - 3.1 Unmarried
 - 3.1 Other
4. Years of Experience
 - 4.1 01-05
 - 4.2 06-10
 - 4.3 11-15
 - 4.4 16-20
5. In-service training received under NHM
 - 5.1 Yes
 - 5.2 No

Section II: Knowledge Assessment of Asha Workers regarding Services Provided Under National Health Mission

Part A: Concept of National Health Mission

1. The aims of National Health Mission include
 - 1.1 Primary health care and mainstreaming ISM
 - 1.2 Integration of health concerns with health determinants
 - 1.3 Decentralisation of services
 - 1.4 All of the above
2. NRHM was initially launched for a period of
 - 2.1 06 years
 - 2.2 07 years
 - 2.3 08 years
 - 2.4 09 years
3. NHM includes sub-missions EXCEPT
 - 3.1 National Rural Health Mission
 - 3.2 National Urban Health Mission
 - 3.3 National Sub Rural and Sub Urban Health Mission
 - 3.4 National Rural and Urban Health Mission
4. NRHM was launched on/ by
 - 4.1 April 12 2002/ President of India
 - 4.2 April 12 2003/ Chief Justice of India

- 4.3 April 12 2004/ Ministry of Health & Family Welfare
- 4.4 April 12 2005/ Prime Minister of India
- 5. The goals of NHM are all EXCEPT
 - 5.1 Increase Couple Protection Rate
 - 5.2 Reduce MMR to 1/1000 live births
 - 5.3 Reduce IMR to 25/1000 live births
 - 5.4 Reduce TFR to 2.1
- 6. NHM was established in
 - 6.1 April 2013
 - 6.2 May 2013
 - 6.3 November 2013
 - 6.4 December 2013
- 7. The ratio of Centre state funding in rupees for J&K under NHM is
 - 7.1 70:25
 - 7.2 60:40
 - 7.3 90:10
 - 7.4 50:50
- 8. The services provided under NHM include following EXCEPT
 - 8.1 Maternal and Reproductive Health Services
 - 8.2 Child Health and Immunisation Services
 - 8.3 Village Health, Nutrition, and Sanitation Services
 - 8.4 Surgical treatment for various ailments
- 9. NRHM was initially launched in states/ UTs of India
 - 9.1 18/0
 - 9.2 25/0
 - 9.3 28/0
 - 9.4 All of the states and UTs
- 10. NUHM covers all state capitals/ district HQ/ towns with a population of or above
 - 10.1 30,000
 - 10.2 50,000
 - 10.3 70,000
 - 10.4 1 lakh

Part B: Maternal Health Services provided under NHM

- 11. Maternal health services focus on all EXCEPT
 - 11.1 Menstrual health, hygiene, fertility and pregnancy care
 - 11.2 Medical termination pregnancy services
 - 11.3 Incentives for institutional deliveries
 - 11.4 Antenatal, intranatal and postnatal services
- 12. Pregnant women should be registered between.....weeks of pregnancy
 - 12.1 04-06
 - 12.2 06-08
 - 12.3 08-10
 - 12.4 12-16

13. The danger signs of pregnancy include all EXCEPT
 - 13.1 Chloasma (face mask) and abdominal striations (Striae Gravidum)
 - 13.2 Vaginal bleeding & convulsions
 - 13.3 Severe headache & abdominal pain
 - 13.4 Swelling of legs & hands
14. The minimum antenatal visits for a pregnant woman are
 - 14.1 03
 - 14.2 04
 - 14.3 05
 - 14.4 06
15. The vaccine that must be given to pregnant women is
 - 15.1 OPV
 - 15.2 Measles
 - 15.3 Tetanus Toxoid
 - 15.4 Diptheria
16. During pregnancy the energy (calorie) requirement is
 - 16.1 Same as in other days
 - 16.2 Less than normal intake
 - 16.3 Depending on physical constitution
 - 16.4 More than normal intake
17. A pregnant woman consumes iron and folic acid tablets daily for
 - 17.1 At least 3 months during antenatal period
 - 17.2 At least 9 months during antenatal period
 - 17.3 At least 3 months during postnatal period
 - 17.4 At least 9 months during postnatal period
18. During postnatal period, undernourished woman is provided nutritional supplements by
 - 18.1 Sub Centre and PHC
 - 18.2 Anganwadi Centre by AWW
 - 18.3 Women welfare society
 - 18.4 All of the above
19. Following assessment is done during pregnancy checkup and care, most of the time EXCEPT
 - 19.1 History taking, measuring of height and weight
 - 19.2 Checking blood pressure, Breast self-examination
 - 19.3 Per vaginal examination
 - 19.4 Abdominal palpation and other baseline investigations
20. All pregnant women should have
 - 20.1 Early antenatal registration
 - 20.2 Minimum 4 antenatal visits
 - 20.3 Institutional delivery as far as possible
 - 20.4 All of the above

Part C: JSY services provided under NHM

21. JSY stands for
 - 21.1 Janani Suraksha Yojana
 - 21.2 Janani saiva Yojana
 - 21.3 Janani Shishu Yojana
 - 21.4 Jeevan Shishu Yojana

- 22. JSY & RCH is implemented to
 - 22.1 Help all women
 - 22.2 Reduce maternal and infant mortality
 - 22.3 Promote institutional deliveries
 - 22.4 Both 22.2 & 22.3
- 23. The cash assistance for institutional delivery of urban pregnant women in J&K is Rupees
 - 23.1 700
 - 23.2 1400
 - 23.3 1000
 - 23.4 2500
- 24. The cash assistance for home delivery of BPL pregnant women is Rupees
 - 24.1 100
 - 24.2 300
 - 24.3 500
 - 24.4 700
- 25. The contribution of Centre government in terms of financial support towards JSY is
 - 25.1 100%
 - 25.2 90%
 - 25.3 80%
 - 25.4 70%

Part D: JSSK services provided under NHM

- 26. JSSK stands for
 - 26.1 Janani Suraksha Shishu Karyakaram
 - 26.2 Janani Shishu Suraksha Karyakaram
 - 26.3 Janani Sundarya Sevakendra
 - 26.4 Jeewan Shishu Sukarsha Karyakaram
- 27. JSSK was launched on
 - 27.1 1st June 2009
 - 27.2 1st June 2010
 - 27.3 1st June 2011
 - 27.4 1st June 2012
- 28. The free entitlements for pregnant women under JSSK are all EXCEPT
 - 28.1 Cashless delivery and drugs
 - 28.2 Free diagnostics, diet, and transport
 - 28.3 Free caesarean section and referral services
 - 28.4 Free clothing, blankets for home care
- 29. The free entitlements for sick newborn under JSSK are all EXCEPT
 - 29.1 Weaning foods
 - 29.2 Free diagnostics, provision for blood
 - 29.3 Free transport and referral facilities
 - 29.4 Free treatment, drugs, consumables
- 30. Free treatment benefits and zero expense delivery is provided to all EXCEPT
 - 30.1 Pregnant women
 - 30.2 Geriatrics
 - 30.3 Infant
 - 30.4 Newborn

Part E: Child health and immunisation services provided under NHM

31. The vaccine administered to a newborn at birth is
 - 31.1 Measles
 - 31.2 T.T.
 - 31.3 BCG
 - 31.4 All of these
32. BCG provides immunity against
 - 32.1 Hepatitis
 - 32.2 Whooping cough
 - 32.3 Poliomyelitis
 - 32.4 Tuberculosis
33. The age at which Measles vaccine is administered is
 - 33.1 9 months
 - 33.2 6 months
 - 33.3 3 months
 - 33.4 12 months
34. 34 DPT vaccine is used in all EXCEPT
 - 34.1 Diphtheria
 - 34.2 Typhoid
 - 34.3 Tetanus
 - 34.4 Pertussis
35. The full form of OPV is
 - 35.1 Oral Pneumococcal Vaccine
 - 35.2 Oral Pertussis Vaccine
 - 35.3 Oral Polio Vaccine
 - 35.4 Oral Protective Vaccine
36. Zero dose of OPV is given at the age of
 - 36.1 At birth
 - 36.2 06 weeks
 - 36.3 10 weeks
 - 36.4 14 Weeks
37. The first dose of vitamin A is given at the age of
 - 37.1 09 months
 - 37.2 15 months
 - 37.3 18 months
 - 37.4 24 months
38. Rotavirus vaccine is administered for
 - 38.1 Severe cough
 - 38.2 Severe diarrhoea
 - 38.3 Severe weakness
 - 38.4 Severe malnutrition
39. ORS helps in the treatment of
 - 39.1 Eye infections
 - 39.2 Cough
 - 39.3 Diarrhoea
 - 39.4 All of the above

40. Exclusive breastfeeding in baby is recommended for a period of

- 40.1 03 months
- 40.2 04 months
- 40.3 05 months
- 40.4 06 months

Part F: Other miscellaneous services (Village Health, Nutrition, Sanitation) provided under NHM

41. Diseases transmitted by mosquito are all EXCEPT

- 41.1 Hepatitis
- 41.2 Dengue fever
- 41.3 Malaria & yellow fever
- 41.4 Chikungunya

42. The breeding places for mosquitoes are all EXCEPT

- 42.1 Stagnant water
- 42.2 Covered water tanks and reservoirs
- 42.3 Other artificial containers holding water
- 42.4 Tin cans, discarded tires

43. Kerosene spray is used in stagnant waters for the prevention of

- 43.1 Breeding of viruses
- 43.2 Breeding of bacteria
- 43.3 Breeding of mosquito
- 43.4 Breeding of parasites

44. The drugs that are available in ASHA kit are

- 44.1 Paracetamol & ORS packets
- 44.2 Dicyclomine hydrochloride
- 44.3 Contraceptive pills & Povidine ointment
- 44.4 Iron folic acid & zinc yablets

45. ASHA equipment kit contains

- 45.1 Baby blanket
- 45.2 Thermometer & weighing scale
- 45.3 Digital wrist watch
- 45.4 All of the above

46. Village Health Sanitation & Nutrition Committee comprises all EXCEPT

- 46.1 Panchayat members, health workers
- 46.2 BMO, CMO and MLA
- 46.3 Minimum 15 members of the community
- 46.4 ASHA, vulnerable sections and community members

47. ASHA in Village Health Sanitation & Nutrition committee acts as

- 47.1 Chairman
- 47.2 President
- 47.3 Member secretary and Convener
- 47.4 Cashier

48. Behaviour change communication, counselling, linkage with Anganwadi worker, Ancillary nurse midwife and multi-purpose worker is the task of

- 48.1 Public health nurse
- 48.2 Village health guide
- 48.3 Lady health visitor
- 48.4 ASHA

- 49. 49 ASHA has to maintain registers for
 - 49.1 Births, stillbirths and deaths
 - 49.2 Her own work as ASHA diary
 - 49.3 Both 49.1 and 49.2
 - 49.4 None of these
- 50. Family planning services provided under NHM are
 - 50.1 Use of condoms and diaphragm
 - 50.2 Tubectomy
 - 50.3 Vasectomy
 - 50.4 All of the above

Section III: Checklist for Assessing Practice regarding Services Provided Under National Health Mission

Do you perform the following activities/ practices?

- 1. Registers pregnant women
Yes
No
- 2. Counsels pregnant women for antenatal care
Yes
No
- 3. Counsels pregnant women for postnatal care
Yes
No
- 4. Counsels women for safe delivery
Yes
No
- 5. Accompanies pregnant women to hospital
Yes
No
- 6. Distributes iron and folic acid, oral pills, ORS
Yes
No
- 7. Distributes DOTS among active TB patients
Yes
No
- 8. Inform Anganwadi worker/ ANM on new births and deaths in the community
Yes
No
- 9. Helps Anganwadi worker in supplementary feeding of under-five children and expecting women
Yes
No
- 10. Helps Ancillary nurse midwife in immunisation of children
Yes
No

11. Motivates the couple for family planning

Yes

No

12. Participates in Supplementary Nutrition Programmes

Yes

No

13. Invites all beneficiaries a day before Village Health Sanitation & Nutrition Committee meeting

Yes

No

14. Participates in creating awareness regarding TB and HIV/ AIDS

Yes

No

15. Motivates households for construction of latrines

Yes

No