Perceptions of ASHA workers in the HOPE collaborative care mental health intervention in rural South India: a qualitative analysis

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ABSTRACT

Objective The main objective of this exploratory study was to investigate the overlooked perspectives and beliefs of Accredited Social Health Activists (ASHA workers) regarding a collaborative care mental health intervention (HOPE: Healthier Options through Empowerment), mental illness and the health of their rural communities.

Design Semi-structured, one-on-one, qualitative interviews.

Setting Seven primary health centres (PHCs) in rural Karnataka, India. All PHCs had previously completed the HOPE study.

Participants 15 ASHA workers, selected via purposive sampling. ASHAs are high school-educated village women trained as community health workers. ASHAs were included if they had previously participated in the HOPE intervention, a collaborative-care randomised controlled trial that aimed to integrate mental healthcare into existing primary care systems in rural Karnataka.

Interventions No interventions were introduced.

Results ASHA workers mostly had positive interactions with patients, including encouraging them to attend sessions, helping to explain the topics and techniques, and checking on the patients frequently. ASHA workers were able to identify key barriers to treatment and facilitators to treatment. ASHAs claimed that their knowledge about mental illness improved because of the HOPE study, though gaps remained in their understanding of aetiology and treatment. Several expressed interest in receiving additional mental health training. Overall, ASHAs viewed the HOPE study as a necessary and effective intervention, and requested that it expand.

Conclusions This paper discusses the perspectives of ASHA workers who participated in a novel effort to extend the collaborative care model to their own communities. ASHA workers help maintain relationships with patients that encourage participation, and the efforts of ASHAs often aid in mitigating common barriers to treatment. ASHA workers' beliefs and knowledge regarding mental illness can be changed, and ASHAs can become effective advocates for patients. Future collaborative care interventions would likely benefit from involving ASHA workers in community outreach efforts.

BACKGROUND

Mental illness, particularly depression, is a leading cause of disability globally and India accounts for 15% of the global mental, neurological, and substance use disorder (MNSUD) burden. Common mental disorders (CMD) make up a large part of the mental illness disease burden, with depression and anxiety together accounting for almost 50% of MNSUD-caused disability adjusted life years. CMD are often highly comorbid with non-communicable diseases (NCD) like diabetes and cardiovascular disease, which is doubly concerning as the burden of disease due to NCD continues to rise rapidly across India.

There is a severe lack of mental health resources in India, with roughly one psychiatrist per 300,000 people and in rural areas there is one psychiatrist per 500,000 people. According to the 2011 Indian census, 68.8% of the Indian population live in rural areas, making the lack of mental health resources more challenging. In rural India,
healthcare is often dependent on the efforts of Accredited Social Health Activists (ASHA). In 2005, the ASHA programme was established in India as a component of the National Rural Health Mission to address the shortage of healthcare workers in rural areas. It recruits high school educated village women to be trained as community health workers. There is one ASHA worker per village of approximately 1000 residents. ASHA workers receive training in basic healthcare, and work primarily in the field of maternal and child health. They also participate in health education campaigns on nutrition, sanitation, and basic health.

ASHA workers have been effectively involved in a variety of interventions targeting conditions like HIV, mental health, and NCD, among others. However, studies have noted that ASHA workers display stereotyped beliefs about people with mental illness, and have very little understanding of clinical depression.

Perspectives of ASHA workers in general have been greatly overlooked, and the few studies that investigated them largely focused on the motivations of ASHA workers. As more ASHA workers take on additional responsibilities, it is important to understand their experiences and beliefs, particularly about community-based mental health interventions. The aim of this qualitative study was to explore the perspectives and beliefs of the ASHA workers who participated in the HOPE study (Healthy Options through Empowerment), a cluster randomised controlled trial (RCT) which used a collaborative case model to integrate mental health treatment in primary care clinics in a rural district of Karnataka.

In particular, the HOPE RCT used the efforts of ASHA workers to extend the collaborative care model directly to the community, and this study explores the ASHA’s perspectives regarding their experience with HOPE.

METHODS
This study is a follow-up to the parent HOPE RCT that is implementing and evaluating the integration of mental health interventions in primary care. The HOPE intervention is a multi-level RCT driven largely by social cognitive theory (SCT), targeting patients with depression or anxiety, comorbid with diabetes or cardiovascular disease. SCT is a good fit for promoting behavioural change linked to cardiovascular and mental health through its emphasis on interpersonal interactions and support, observational learning and improving self-efficacy. The HOPE study is guided by the SCT framework on multiple levels. First, it takes advantage of bidirectional interactions between people and their environments by using community health fairs, training the staff at primary health clinics, using peer groups, obtaining family support and especially through the efforts of the ASHA workers. Second, it uses the SCT construct of ‘observational learning’ through ‘Healthy Living Group’ (HLG) sessions, where groups of participants learn skills together and form informal buddy systems. Finally, it encourages behaviour change through skills training and feedback at these HLG sessions, which promotes self-efficacy and self-confidence.

HOPE aims to use a collaborative care model to improve the screening, diagnosis, and treatment of CMD and NCD by holding community health screening fairs, training doctors and nurses in mental health diagnosis and treatment, and using ASHA workers to colead the community-based HLG sessions and interact directly with the community. In the HOPE study, the collaborative case model, which is usually limited to the clinic, was extended to the community level, relying heavily on the efforts of ASHA workers. ASHAs performed the role of liaison between patients and primary health centre (PHC) staff, which included conducting home visits and delivering reminders to HOPE patients about appointments. In addition, ASHA workers helped run the health screening fairs and cofacilitated 21 HLG sessions with trained research staff designed to improve patient health behaviours through information, skills-building, feedback and social support.

This analysis used a qualitative grounded-theory approach to understand the perspectives of ASHA workers who participated in HOPE. This approach was used to obtain richer data in the ASHA’s own words. Prior to the study, little was understood about the ASHA’s beliefs, which precluded a quantitative approach.

Patient and public involvement
Patients or the public were not involved in the design, conduct, reporting or dissemination of this research.

Study participants
Following pilot testing, study staff recruited 15 HOPE study ASHA workers from seven PHCs where the study had been implemented. ASHA workers were recruited via purposive sampling methods and enrolled following written informed consent. ASHA workers were included only if they worked at a PHC that completed the intervention, and were involved in intervention procedures like screening fairs, HLG sessions and home visits. During recruitment, ASHAs from more recently completed PHCs were prioritised to ensure that the interviewed ASHAs would remember enough to answer questions in depth. Recruitment stopped on thematic saturation of the interviews.

Instruments and procedures
The ASHA workers, all of whom had recently completed the HOPE intervention, each completed a 45–60 min semi-structured qualitative interview in the summer of 2018. Interviews were administered at their nearest PHC by the study researcher (SB) and an interpreter who was conversant in Kannada and English. The interview guide included questions about the ASHA worker’s role during the screening fairs and HLG sessions, her experiences with individual patients, her experiences with home visits,
and her thoughts on the HOPE study (see online supplemental appendix 1).

SB is a junior researcher from the USA and therefore relied on study staff and senior researchers for guidance. The study guide and interview procedures were designed with feedback from staff who were involved in HOPE, as they were more aware of cultural context and language differences, and had worked with the ASHA workers. The guide was translated into Kannada and back-translated into English, and discrepancies were resolved. The interview guide was pilot tested with two participants, and the questions and procedures were subsequently finalised with input from the study manager.

Since the ASHA workers spoke only Kannada, SB asked questions in English, and the interpreter translated the questions into Kannada. The responses of the ASHA workers were translated into English. The interpreter worked with many of the ASHAs during the HOPE intervention, and was therefore trustworthy to them. She was also familiar with many of their experiences and able to ask for more details and context where necessary. To minimise social desirability, ASHAs were told that there were no right or wrong answers and that their names and other identifying information would be kept confidential. They were encouraged to discuss their true experiences, and told that their honest feedback would be helpful in designing future programmes.

Interviews were audio recorded with permission from the participants. The English translations of the ASHA interviews were manually transcribed, and the transcriptions were verbatim except for minor grammatical changes for clarity. Each ASHA worker was compensated 150 INR (US$2.08) for travel expenses.

Analyses

Fifteen transcripts were coded by using Dedoose, an open coding platform, to apply codes to excerpts and organise coded material within a thematic framework. This framework was devised through line-by-line coding and the grounded theory approach, and was subsequently applied to each interview. The framework underwent editing whenever new themes appeared. Final themes were determined when additional interviews no longer yielded new themes (ie, thematic saturation), and any redundant codes were merged. Excerpts were edited lightly for clarity.

RESULTS

Table 1 summarises the demographic characteristics of the 15 participants. When asked how many patients they served for HOPE, and how many HLG sessions they attended, several ASHA workers gave ranges, or were unable to come up with numbers. In the case of ranges, the lower number of the range was taken to calculate an approximate mean. The included ASHAs had on average an age of 38.6 years, 10.13 years of education and 8.67 years of experience in the government ASHA programme.

They each worked with approximately 10 patients for the HOPE study, and attended 12.67 HLG sessions.

Over the course of 15 qualitative interviews, ASHA workers revealed their perspectives on their participation in the HOPE study and their beliefs about mental illness and NCD. The themes that emerged from these interviews were: interactions between ASHA workers and patients, ASHA workers’ knowledge and beliefs about mental illness, barriers and facilitators to treatment, and ASHA workers’ perspectives on the HOPE study.

**ASHA–patient interactions**

The ASHA workers described their interactions with patients as positive and productive, and these interactions were crucial to recruitment and engaging patients. ASHA workers confirmed that they helped to explain the study to patients who needed clarification and motivate patients to come to the health screening fairs, enrol in the study and attend the HLG sessions. They stated that they encouraged patients to follow health advice and practice diet changes, exercise, and stress management techniques like yoga and breathing exercises, both during group sessions and home visits. ASHAs mostly believed that patients listened to them and took their advice.

However, not all interactions with patients were positive. Some ASHA workers mentioned that they were uncomfortable interacting with certain patients because the ASHAs did not have sufficient knowledge about relevant topics.

Before I was not aware of the topic … and if I tell incomplete knowledge maybe the [patients] won’t accept, I was thinking like that. Later I got to know more information about smoking, smokeless tobacco, and all, I am comfortably speaking now. [A104]

Additionally, several ASHA workers mentioned that some of their patients were hostile towards them, which led to the ASHA workers avoiding interactions with these patients—some patients refused to listen to the ASHA workers, insulted them, and told them they knew nothing.

The patients were telling me that they are elder than us, so why should they listen to our words. That we don’t know anything, they know everything, like that they were telling. They said that other people will tell me things, and then I am coming and telling these...
things to them—I don’t know anything, but they [patients] are experienced and know everything. [A113]

ASHA knowledge and beliefs about mental illness

Many of the ASHA workers reported that they had held misconceptions about mental illness prior to their participation in the HOPE study. The most commonly described beliefs were that mental illness is caused by evil spirits and that patients with mental illness do not improve. ASHA workers also occasionally mentioned that they had believed mental illness patients were different from other patients and they did not know how to approach these patients.

On the other hand, some ASHA workers who had received training on mental health as part of the government programme were able to identify mental illness. Others had personal experiences with mental illness, which influenced their beliefs.

Yeah, mental illness … When I was small my mom also got the same—the god rituals, all those things we did … Once my father told that all those things are not required, and he will take her to NIMHANS [Psychiatric institution] and get [her] treated. [A111]

Most ASHAs said that following their participation in the HOPE study, they understood that mental illness is a treatable condition. ASHA workers identified sitting alone, talking to oneself and refusing to leave the house as symptoms of mental illness.

Some of the most commonly cited causes of mental illness were the patients’ co-morbid physical problems and ‘overthinking’.

Before, she [a patient] was thinking too much about her disorder and about the family it seems. Because she’s staying with her husband, and he is too old now. And her children have shifted to Bangalore it seems, nobody is taking care of her now. So she was thinking too much about her life, how it will run and what should she do. All those things. And in the mean time she got this sugar [diabetes] also, how to treat, all those things she was thinking too much. [A116]

Other causes included family problems, family deaths, and other stressors. When asked how to treat mental illness, most ASHA workers said that controlling the patient’s physical disorder would cure the mental illness. Every ASHA worker seemed to believe that mental illness is always temporary, and always treatable.

Ok, she [a patient] got into depression because she got diabetes. So when the diabetes is under control and it’s treatable, when she got to know that, she became normal slowly. [A104]

Another common belief among ASHA workers was that mentally ill patients needed to stop worrying too much, in order to relieve tension.

Their understanding of the complex aetiology of CMD remained incomplete at the time of the interviews. No ASHA worker mentioned any genetic or neurological causes of mental illness. Additionally, they had a simplified understanding of CMD treatment, failing to mention any forms of psychotherapy, and their common advice to ‘stop worrying’ was met with resistance.

Patients are saying that we are telling them not to think too much about their problems … but the patients are facing family problems and they haven’t constructed their house. They have that work and this work and all those things, but still we are telling them not to think. They asked, how can they be without thinking? [A105]

Several ASHA workers mentioned a need for more formal and detailed training about mental illness, particularly to help them become more adept at giving advice about treatment for mental illness.

Treatment facilitators

Positive relationships between patients and ASHA workers helped in treatment compliance and retention, and helped improve patients’ understanding of their health conditions. ASHA workers frequently told stories where patients gave them credit for their improvement.

Overall the patients told that even we [ASHA] are taking care of their health so much, why can’t they take [responsibility for their own health]? Now, even they start taking care of their health, they thank me for my help and support. Before the patient was not knowing anything about her health condition and how to take care of health. But now she has learned everything and whenever I do home visit, she will be telling, thankful, that because of me only she got the treatment and learned many things. [A116]

ASHAs viewed the HLG sessions as very helpful for patients, especially due to the friendships that patients made in the groups. In addition, they believed participation in HLG sessions helped patients bring structure and regularity to their schedule.

Usually … if a person is going [to the] office … every day they will eat at 8:30. If the person is staying at home, they won’t [eat at] this exact time—they’ll eat whenever they are free. The same thing happens [to the patients]—if they are taking the sessions, they’ll come regularly in time and start doing [the techniques]. If they are staying at home, it’s not possible for them. [A107]

Many ASHA workers claimed to have implemented lifestyle changes in their own lives following participation in HOPE, and to have disseminated their new knowledge informally among other ASHA workers and village members.

Perhaps the most frequently mentioned facilitator to treatment was that it was offered free of cost. ASHA
workers and study staff were able to intervene and explain the purpose of study procedures.

ASHA perspectives on the HOPE study

Most ASHA workers were able to remember the general procedures of the HOPE study and the content of the HLG sessions, without prompting. Some ASHAs were unable to recall all of the topics of the HLG sessions. One ASHA worker was unable to recall any of the components of the HOPE study.

In general, ASHA workers believed the HOPE study was useful for patients, claiming that the health of almost all participating patients improved. They reported that most patients enthusiastically participated in HLG sessions and practiced the tasks taught, and some patients still maintained the relationships they formed with other patients.

[One patient with] BP [blood pressure] and sugar [diabetes]. Before, his BP and sugar was not under control. Once he started practicing our techniques, it became under control, and now also he’s practicing the things … he’s taking medication regularly, and walking every day. And maintaining the diet pattern, which was not there when he first came here. And he is not taking tension for every matter. He’s well and good now. [A108]

The ASHA workers claimed that patients were grateful for the opportunity to participate in the HOPE study, especially because many patients had not known about their various illnesses, and the screening fairs helped them become aware.

… some patients were not at all checked for the BP and sugar [diabetes]. Once they got checked and got to know they have BP and sugar, the treatment got started. Those people were telling that because of me only they got to know about their health condition. [A113]

ASHA workers were reticent when asked about challenges associated with the HOPE study. The most consistent challenge they identified was irregular attendance. They occasionally told stories of patients whose health declined following the end of the study. ASHAs believed that these declines usually occurred because of a death in the patient’s family and/or because patients stop practicing the tasks taught during the HLG sessions.

A: But one patient, his wife died recently, so because of that he’s a bit … sad. Before her death he was doing [the techniques] it seems. Now he is not doing anything.

SB: He’s not doing anything … Are there any techniques he’s using at all?
A: No. He’s in a sad [mood] so he’s not …
SB: How often do you visit him?
A: Every day I go.
SB: You see him every day? Have you tried to remind him about the techniques?
A: Every day I’m telling but he’s not …
SB: Why doesn’t he do it, what does he say?
A: He’s not refusing and he’s not doing. He’s just listening. He’s not interested in that now. [A105]

ASHA workers did not have many suggestions for improving the HOPE study. Most simply asked that the programme be expanded to include more patients and be of longer duration. Some requested that additional topics be added, like menstrual health and hygiene. Several ASHA workers asked for more information regarding mental illnesses other than CMD, more details on NCD and more formal training in mental health intervention.

DISCUSSION

Through this study, we obtained insight into the perspectives and beliefs of ASHA workers about their participation in the HOPE study, a community-based collaborative care mental health intervention. The ASHA workers expressed enthusiasm and satisfaction about their role and participation in HOPE. They perceived the HOPE study as helpful and necessary, and almost all of the ASHAs requested that the HOPE study continue and expand to additional districts. ASHA workers were also able to identify how multiple key intervention strategies, guided by our theoretical framework, improved the participants’ self-efficacy, which in turn facilitated their access to treatment. Specific intervention components mentioned included the provision of social support as well as the many opportunities to learn problem solving skills, both through direct skills training and by observing other group members go through this process.

ASHAs consistently identified interpersonal interactions between patients and their families, other patients, and the ASHAs themselves as being key to the intervention’s success. ASHAs also noted that the community screening fairs and group sessions were extremely helpful for participants—and that they seemed to become more motivated to implement the lifestyle changes taught during the HLGs once they learnt more about their disorders. Additionally, ASHAs believed that following the skills training, most participants felt confident in their ability to manage their health following HOPE, indicating increased self-efficacy, which is a central construct in SCT.

An important theme that emerged was how the ASHA workers’ beliefs about mental illness changed following their involvement in the HOPE study. Previous to HOPE, most ASHAs claimed to have held misconceptions and stigmatising beliefs about mental illness, including that mental illness was caused by evil spirits and could not be treated, and that patients with mental illness were different from others. Some ASHA workers had never heard of mental illness. This is consistent with the literature, which shows low mental health literacy among ASHAs.

Following their participation in HOPE, most ASHA workers were able to identify a consistent pattern of symptoms and treatments, and advocated for approaching patients with kindness and empathy, which is also consistent with existing literature. Notably, the ASHAs had astute insights about comorbidity, often discussing the effects that physical disorders have on mental health. This is a unique feature of HOPE, which recruited patients with comorbid CMD and NCD. These results provide additional evidence that ASHA workers’ beliefs and knowledge are receptive to change. Nevertheless, ASHA workers are rarely targeted by community mental health awareness campaigns. Considering the importance of ASHA workers in rural healthcare and their increasing participation in mental health interventions, they should be included in mental health education efforts.

Despite their significant gains in mental health knowledge, ASHA workers failed to understand the complex aetiology of mental illness, often identifying the comorbid medical condition as the only cause. Previous studies have also shown that ASHA workers rarely identified genetics, trauma or brain disease as causes of mental illness. Many ASHAs believed that CMD is always a transient condition, and that treating the comorbid medical condition and ‘not worrying’ were quick fixes. Additional training is clearly needed to empower ASHAs to provide mental health support to patients, perhaps similar to the Atmiyata intervention that trained community volunteers to provide basic mental illness counselling. Indeed, several ASHA workers asked for more training in mental health.

ASHA workers play a key role in connecting rural patients to healthcare systems, and findings from this study highlight the importance of this role. The interviews demonstrated that many ASHAs formed strong positive relationships with patients that encouraged the patients to attend sessions, practice techniques, and make concerted efforts to improve their health. ASHA workers helped recruit patients to the screening fairs and sessions by explaining the study aims, providing assurances and encouragement, and dispelling pervasive misconceptions about study procedures like blood draws. Additionally, most ASHAs expressed enthusiasm for helping patients, often citing rewarding experiences in which their patients thanked them or credited them for their efforts. This is also consistent with previous research, which shows that ASHAs are often motivated by community service, connection and feelings of responsibility towards patients. The HOPE study is a novel attempt at extending the collaborative care model to the community to take advantage of the bidirectional interactions between patients and their environment specified in SCT, through skills-building, feedback, and provision of social support. This process focused on behaviours likely to improve both mental and physical health, such as healthy eating, stress reduction, exercise, moderate drinking and...
tobacco use cessation. ASHA–patient relationships were likely a key factor in this community outreach by helping to foster trust and education on health issues.

There are several important limitations to consider when interpreting the results of this study. The real-time translation by an interpreter may have caused some nuance and complexity to be lost. Also, ASHA workers rarely discussed challenges they faced or suggestions for improvement. It is likely that, despite being assured that their honest opinions were welcome, some of the ASHAs were reluctant to criticize the study and were telling researchers what they thought they wanted to hear. Finally, some ASHAs needed to be reminded of HLG topics or study procedures before answering questions, making it difficult to get accurate perspectives. This speaks to a need for reminder sessions after the intervention ends to ensure knowledge retention and long-term sustainability of the intervention.

Despite these limitations, this qualitative study is the first study to explore the perspectives of ASHA workers about their participation in a community-based mental health intervention, and the results have several implications for public health policy and practice. Multiple barriers exist to accessing adequate treatment in rural areas, including financial concerns, transportation difficulties, low health literacy and a lack of trust of government health systems including the PHCs. These findings have been identified by other studies.11 33 ASHA workers may help mitigate these issues, as shown through their experience with HOPE, and ASHAs have previously acted as friends and advocates for vulnerable patients.20 Additionally, as members of the communities that they serve, ASHAs may help sustain long-term effects of community-based mental health intervention such as the HOPE study—as they continue to check in frequently with their patients and spread knowledge with others in their village. Given the positive effects of ASHA involvement, and their enthusiasm for participating in the intervention, they should be part of community-based interventions of NCD and CMD in rural India. Future community mental health interventions should educate and empower community health workers to most effectively help rural patients.

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Contributors SB designed the study, acquired and analysed all data, and drafted the manuscript. KS and ME supervised data acquisition and analysis, and drafted and revised the manuscript. Guarantor: SB.

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Competing interests None declared.

Patient consent for publication Not applicable.

Ethics approval The study was approved by the Institutional Review Boards (IRB) of the University of California, San Francisco and Berkeley (IRB 18-24388, reference #249422), and by the Institutional Ethics Committee (IEC) of St John’s Medical College and Hospital (reference #142/2018). Informed consent from every ASHA who participated was obtained prior to study procedures—ASHAs were given a study information sheet and consent form, both in Kannada, and any questions they had were answered.

Provenance and peer review Not commissioned; externally peer reviewed.

Data availability statement Data are available upon reasonable request. The datasets generated and analyzed during the current study are not publicly available due to confidentiality and anonymity concerns for individual ASHA participants.

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Supplementary Material Appendix 1

Date of Interview:
Asha No.:
Location:
Length:

Interviewee Information

Age:
No. of Patients:
Village(s):
Primary Health Care Center:
Years in the Asha program:
No. of HLG sessions attended:
Education (years of education):
Other projects?

Purpose of the Study

The purpose of this study is to learn more about Project HOPE and its effects from the perspective of the community health workers (ASHA).

Introduction

Good morning/afternoon. My name is Stuti and I am a student who is working with Project HOPE. This my interpreter (insert name) who will be translating for us during our chat. Thank you for taking time out of your busy day to speak with me. I’ll try to keep our time to 45-60 minutes once we get into the interview. (Check to see if this is okay) The program is trying to gather information to improve health and quality of life in your villages. Any information you can share with us is very important to us because of how well you know your community. I would like to ask you some questions about your experience with Project HOPE, the health of your patients, and about the health of your community. The themes (big ideas) that emerge from all of the interviews with all the health workers will be summarized and made available to the public; however, your name will never be mentioned and information from individual interviews will be kept strictly confidential.
Supplementary Material Appendix 1

Interviewee Questions

Interviewer note: Begin with small talk and introductory questions. Ask how they got involved in the ASHA program and the HOPE study.

Section 1: Community Health Fair screening

1. As part of your participation in the HOPE study, you helped organize community health fairs by raising awareness. Please tell me about your role in community health fairs.
   a. What were some difficulties or challenges you faced in this role? How did you approach these challenges?
   b. What were some rewarding experiences you had in this role?
   c. Can you tell me about your interactions with HOPE staff for the health fairs?
   d. How do you think these health fairs influenced people's health management?

Section 2: Healthy Living Groups

2. What was your role in the Healthy Living groups?
   a. Tell me about your experience with one of the HLG sessions. How comfortable did you feel with the topic?
   b. Did you encounter any specific challenges with the HLG sessions?
   c. Can you tell me about your experience with the mental health HLG session(s) – the one where you discussed depression and anxiety?
      i. Did you learn anything new about mental health through this session?
      ii. Did your beliefs change? How so?
   d. What did you think of the topics and content of the HLG sessions?
   e. Were you able to lead (or co-lead) any sections of the HLG sessions?
      i. If yes: Tell me about a session you led. How comfortable were you?
      ii. If no: Why not? What were some of the challenges that prevented you from leading?
   f. How comfortable would you be now with discussing these topics with your patients?

3. Tell me a story of one of your patients from the HLG sessions whom you worked with.
   Interviewer note: If the ASHA is having trouble thinking of someone ask if there were there any patients who found these sessions particularly helpful or challenging? Can you tell me about them?
   a. When was this patient most talkative? When did they seem more uncomfortable?
   b. How did this patient interact with other patients?
   c. How did the patient interact during the mental health HLG session (the one where you discussed depression and anxiety)?
   d. How do you think the HLG sessions influenced this patient's habits and overall health?
   Interviewer note: If time allows, ask about another patient before moving on. E.g., if they started with patient who found sessions helpful, ask about a patient who found them challenging.
   e. In what way have your beliefs about depression and anxiety changed since working with this participant and others in the HLG sessions?

Section 3: Tracking and Home visits
Supplementary Material Appendix 1

Interviewer note: Some ASHA workers did not do home visits for this project – check before beginning whether they were assigned any home visits specifically for HOPE.

4. As part of your participation in the HOPE study, you helped track patients if they missed appointments through home visits. Please tell me a story of a difficult home visit.
   a. What were the patient’s challenges with attending assessments and/or HLG sessions?
   b. What did you talk about during this home visit? Did they attend the next assessment or HLG session? Why or why not?
   c. What role did the patient’s family play during this visit? How did you interact with them?
   d. How did the HOPE staff and project support you in doing home visits?

5. Now, tell me about a home visit when you felt that you were able to help a patient or when you felt that your visit was rewarding.
   a. What role did the patient’s family play during this visit? How did you interact with them?
   b. How did your visit influence the patient’s health management?

Section 4: Sustainability

6. Now, please think of one of your current patients who participated in the study and who you have seen on a regular basis after the program. How would you describe their current health?

Interviewer note: if the ASHA is having trouble thinking of someone, ask if they can think of any patients whose health has improved or declined since the program ended.

   a. If story about patient with health declines: Why? What happened?
   b. How has this patient managed their goals from the program?
   c. What kind of challenges is this patient facing? How are they able to use techniques they’ve learned from HOPE to address these difficulties?

7. Please share any thoughts you may have on how the HOPE study program could be improved in the future.
   a. Tell me about your overall experience with Project HOPE. What did you like about your experience? Dislike?
      i. How comfortable were you working with depression and anxiety? How do you feel about these topics now that the program has ended?
   b. What were specific challenges you faced when working with this program? How could these challenges be addressed?

Thank you for taking the time to speak with me. Before we finish, is there anything else you would like to add about your experience with the community health fairs, Health Living groups, tracking/home visits or anything else related to the HOPE study that you would like that we have not covered?

*************** If participant wishes to discontinue study, ask if they would be willing to share why: