Why Do Some Lao Mothers Have Good Practices During Pregnancy? A Qualitative Positive Deviance Study

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Abstract

Objectives: Optimal antenatal care (ANC) visits help improve health outcomes and decrease perinatal mortality but they are often not optimal in low and middle-income countries (e.g., few mothers attend the recommended four or more ANC visits). The aim of this study was to identify determinants that influenced mothers who did make sufficient visits for ANC in rural Lao in order to inform the design of more effective interventions to change the behavior of mothers who do not make such visits.

Materials and Methods: A qualitative study was conducted using semi-structured interviews with mothers who made four or more ANC visits during their last pregnancy in rural Lao. Manual analysis was used for open and thematic coding of the interview data.

Results: All mothers reported taking special care of themselves during pregnancy. They perceived the clear benefits of ANC visits regarding reassuring them of their health and reducing the risk of negative events. Family members, particularly husbands, played a key role in making decisions to seek more ANC when they were aware of its benefits. In addition, friends and neighbors were an important source of information for mothers. The quality of ANC provision and the provision of incentives such as an information booklet, along with soap and mosquito net were directly influencing factors in increasing ANC visits.

Conclusions: In general, feeling a need for taking special care during pregnancy was a common factor among pregnant women who did use ANC in rural Laos. Accordingly, improving the quality of ANC and increasing appreciation in communities regarding the need for good ANC are strongly recommended to increase attendance by all mothers.

Keywords: Positive deviance, Lao women, ANC visits, Influencing factors

Introduction

Antenatal care (ANC) is a core healthcare function, including health promotion, screening, diagnosis, and disease prevention,1 which women receive throughout their pregnancy and the postpartum period.2 Optimal ANC contacts are recommended by the World Health Organization (WHO) to reduce perinatal mortality while improving women’s experiences of care and health outcomes.3,4 However, in most low- and middle-income countries (LMICs), only a minority of mothers attends the recommended number of at least four ANC visits.5-8 Accordingly, this study investigated the factors that influenced the decision making of mothers who did attend four or more ANC visits and followed the advice of health providers.

Research in other countries has identified various factors that contributed to positive practices among women who made four or more ANC visits during their pregnancy. For example, women with a history of stillbirth, a high-risk medical or obstetric history, or those who are in a first pregnancy may be more likely to seek ANC.5,10 Other factors included an urban residence, women’s education, family wealth, and few household occupants.6,11,12 Receiving maternal and child health (MCH) information from a lady health worker, a nurse/midwife, the mother-in-law or other relatives/friends, or mass media has been strongly associated with at least four or more ANC visits.7,11 In addition, the quality of the provided ANC, the accessibility of the service, and the behavior of health care providers are significantly associated with women making four or more ANC visits.7,12,10

A recent study demonstrated that 39.3% of Lao mothers had made four or more ANC visits, and this behavior was strongly associated with maternal and child health literacy (MCHL) (submitted paper, 2019). Other studies showed that education level, household income, time constraint, costs, and transportation were likely to be associated with ANC utilization.13-16 Previous studies demonstrated that knowledge, attitude, and the perception of ANC usefulness were also strongly associated with making sufficient ANC visits.13,16 However, these findings were based on quantitative data, along with one qualitative

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study that mainly explored factors influencing mothers who made no ANC visits.

The primary objective of this study was to gain insights into the choices and motivations of mothers with positive practices in relation to optimal ANC visits, who were living in similar conditions to a majority of women who did not. The results could support potential interventions to increase the number of women using ANC in these areas.

Materials and Methods

Study Design

This qualitative study was carried out from May to June 2019, comprising semi-structured interviews with mothers who had made at least four ANC visits residing in a rural area of Attapeu Province. The study was inspired by the concept of “positive deviance”. In a context where the majority of mothers did not seek ANC in the recommended way, we investigated what motivated or informed the women who took action in this regard. In Laos, where the behavior of attending ANC is still uncommon, these women can be considered as deviants in a positive way. The location was selected because it was the site of an MCHL study done in 2018, which identified potential participants for the current study.

Site Selection and Recruitment

This study was part of a larger intervention study in four selected districts (two urban and two rural villages for each district) of two provinces (Attapeu and Salavan). Attapeu province was selected using a simple random sampling method. Further, two villages in a rural area were purposively selected as the study site. The selection criterion was the availability of mothers who had made the recommended four or more ANC visits living in a specific rural area, identified by the baseline study of the larger project. In that study, 151 (39.3%) out of 384 interviewed mothers had made the required number of ANC visits, of whom 68 lived in the rural areas of the two provinces. The researchers planned to interview all 22 eligible women in the two rural villages in Attapeu province, but only 19 cases were available at the time planned for the interviews. Two cases left the village and one case died at that time interval. To recruit respondents, first, the researchers contacted a household member at the address provided during the MCHL study. Local authorities assisted in distributing an official letter to invite eligible participants a few days before the interview. None of the invited women declined to be interviewed.

Research Instrument

In this study, an interview guide was used based on a model combining the socio-ecological and the health belief models in order to identify the determinants of the positive behavior. Both models offer concepts that can help understand factors influencing women to perform the positive behavior. The socio-ecological model guides the analysis of factors at different levels including individual, interpersonal, organizational, community and policy levels (Figure 1). At the individual level, several issues were analyzed, including the socio-demographic characteristics of mothers, how they perceived the ANC services, and what motivated them to attend ANC. At the interpersonal level, the researchers focused on family members, friends, and neighbors who provided support to mothers to visit ANC. The organization level refers to health facilities where pregnant women experienced ANC services provided by health workers and public transportation. In addition, the community level includes factors related to community support for mothers for using ANC services. Finally, the policy level refers to factors that are related to national MCH strategies in Laos.

Semi-structured Interviews

The interviews were conducted in the homes of the participating mothers, where they would feel comfortable and are assured of their privacy. The interviewers included one Lao academic researcher (SP) and two local assistants. The local interviewers attended a three-day training course prior to data collection. Further, interview guides contained closed questions on socioeconomic characteristics and open questions were about mothers’ motivation and factors that influenced their positive behavior and reasons in this respect. We also asked them about their thoughts on what other women did and why. The guides were piloted in a community far from the study site and they were finalized accordingly. The mothers were interviewed in the Lao language for approximately 60 minutes, and all interviews were recorded. Notes were made while conducting the interviews in order to combine with the recorded data later.

Data Analysis

The recordings and interview notes were used to generate verbatim transcripts for data analysis, which were analyzed manually. The research team read the transcripts several times and discussed the open coding process together to reach a consensus on the code tree. The data were then translated into English. According to the socio-ecological model (Figure 1), the qualitative data were classified into individual, interpersonal, organization/health facilities, and community levels to make inferences. The findings included direct quotes from participants, which were
translated into English and discussed with all researchers and supervisors to obtain consensus after analyzing the data.

**Results**

Our results provided information about what motivated and enabled mothers to perform their positive behaviors at individual, interpersonal, organization, and community levels (Figure 2) although the responses did not include factors that were directly related to the policy level. The mothers also reflected upon why others are not capable of performing these behaviors (Table 1).

Determinants of Positive ANC Practices of Lao Mothers: Reflections on Negative Practices

*Individual Level*

Three motivations to access ANC were identified on an individual level, including the belief or attitude toward ‘special care’ during pregnancy, the benefit of ANC for MCH as part of ‘special care’, and a fear of risk-taking.

When referring to good practices during pregnancy – for which mothers often used the term ‘special care’ –, they included practices related to food consumption, physical activities, and health-seeking behaviors. Most mothers mentioned that eating enough and eating a good variety of food during pregnancy are very important for MCH, which was the doctors’ advice from “modern” health care. Some mothers mentioned that they drank milk and coconut water to benefit their baby while they avoided alcohol and smoking.

“I bought formula milk to drink, took vitamins, and ate all kinds of foods that are good for my health and my baby, especially eating meat, fish, chicken, vegetables, and fruit, as my doctor gave a piece of advice. I did not practice any food taboos but I did avoid drinking alcohol.” (Participant No. 1)

Physical activity was also recommended by these mothers as part of their special care during pregnancy although most of them avoided very hard work and took more rest than usual, and some did exercises to ease childbirth.

![Figure 1. Integration of Socio-ecological Model for Positive Deviance Mothers.](image)

![Figure 2. Comparison of Influencing Factors on Positive and Negative Practices of Lao Mothers.](image)
<table>
<thead>
<tr>
<th>SEM</th>
<th>Categories</th>
<th>Coding/Concept/ Theory</th>
<th>Description/Definition/ Meaning</th>
<th>Positive Practices (4 or More ANC Visits)</th>
<th>Negative Practices (No or &lt;4 ANC visits)</th>
</tr>
</thead>
</table>
| Individual   | Perceived benefits              | Good to protect the health of the mother and child | • Pregnancy is a condition requiring ‘special care’  
• Visiting ANC is good for the health of both the mother and fetus  
• Visiting ANC help have a healthier baby and mother  
• Visiting ANC help check the health of the mother and fetus | • Pregnancy is ‘normal’  
• Might not be confident about the benefits of more ANC visits |                                                                                                                                                                    |
|              |                                 | Reassure on maternal and child health (MCH)   | • Mothers can follow up the physical development of the fetus (i.e., heartbeat, weight gain, and position)  
• Can get useful information such as the date of childbirth and gender that help prepare their childbirth  
• Feel happy to know good things for their fetus (i.e., normal heartbeat, weight gain, and position) | • Not require special needs  
• May not be able to communicate (in Laos) with health workers due to language barriers  
• May have high workloads  
• May prefer traditional healers |                                                                                                                                                                    |
|              | Perceived risk and safety       | Fear                                          | • Mothers were afraid of being at risk and danger to their health and fetus (i.e., edema, hypertension, bleeding, pain, and death) | • Might not have seen or experienced risks during pregnancy |                                                                                                                                                                    |
|              |                                 | Safety                                         | • Attended more ANC visits, felt safer  
• It would help for a health risk reduction | • Consider pregnancy is normal and thus think that ANC is unnecessary for the mother and child |                                                                                                                                                                    |
|              | Interpersonal level             | Decision making                               | Key decision-makers  
• Family members have a key role in decision making for ANC visits, especially the husband | • Family members might not agree with them regarding ANC visits |                                                                                                                                                                    |
|              |                                 | Family support                                | Accompany  
• The husband or sister accompanied women to visit ANC  
• Women feel good to receive support from their family members, especially the husband | • Might have nobody to accompany them |                                                                                                                                                                    |
|              |                                 | Family knowledge                              | Awareness  
• Family members who accompanied women to visit ANC seemed to understand the usefulness of ANC visits  
• Family members also attended ANC with women, attended campaign in the village, and studied pink book with the mother | • Family member might not be aware of the benefits of ANC visits  
• Family members may not have attended campaign, and/or ANC sessions  
• They might think that MCH care is women’s duty, not an issue for men |                                                                                                                                                                    |
|              | Organization level             | ANC services                                   | Sources of information  
• Health workers were important sources of MCH information during ANC sessions and outreach activities | • Women might have received very little information or not found it interesting |                                                                                                                                                                    |
|              |                                 | Appointment                                    | Followed appointments whenever health worker made it |                                                                                                                                                                    |                                                                                                                                                                    |
|              |                                 | Satisfaction with health providers’ behavior  | Mothers trusted and were satisfied with the behavior of health workers | • Might not be satisfied with the health provider’s behavior (i.e., unwelcome, unfriendly and unfair behaviors, and the presence of a male doctor) |                                                                                                                                                                    |
|              | Community level                | Key sources of information                     | Community Network  
• Village health volunteer has a key role to inform mothers to visit ANC  
• Friends and neighbors helped to read “pink book” for mothers who could not read  
• Encouraged mothers to follow the guideline and visit ANC | • Campaign was not performed often in their community  
• Many people in the community might not have any opportunity to get MCH information, especially men |                                                                                                                                                                    |
|              |                                 | Sharing information                            | People in the community feel more comfortable to share and learn about MCH care: on child growth, good food for mothers and children, and child vaccination | • Might not be able to talk about MCH if they were not aware |                                                                                                                                                                    |
More ANC visits were identified as one of the most important items for special care. All women mentioned that the reason for visiting ANC more frequently is to take care of both the baby and mother’s health.

“I think that every pregnant woman needs special care through ANC visits because there you can have specific care for the mother and child’s health.” (Participant No. 10)

All positive deviance mothers also indicated that visiting ANC is very good for protecting themselves and their fetuses because health workers could check the health of both the mother and baby. Most women reported that they received useful information during ANC and perceived that ANC visits would help them in their pregnancy. These mothers were particularly interested in following the development of their fetuses, which brought them a sense of happiness.

“It was very useful for my childbirth preparedness because the health worker could tell about the date of my childbirth and the baby’s gender.” (Participant No. 7)

“I would like to follow up the physical development (i.e., heartbeat, weight gain, and position) of my fetus and I am eager to know from the health worker about my health and that of my fetus. When the doctor said that both the mother and fetus are healthy, I was very happy.” (Participant No. 10)

Additionally, some mothers mentioned that they were afraid of risks during pregnancy and danger to their babies if they did not follow up health workers thus more ANC visits would help reduce any risk by frequent monitoring.

“My previous pregnancy had risks like hypertension and edema, so I’m afraid of any danger to my baby. Villagers and traditional birth attendants could not help, therefore, I went to see the health worker at ANC more often.” (Participant No. 4)

Our participants also reflected upon reasons for other mothers who did not follow ANC. The positive deviance mothers thought that others might not be motivated if they were not confident about the benefits. Further, if they reasoned that pregnancy is ‘normal’ and requires no special needs, they may prefer to see traditional healers, or may be unable to communicate (in Lao language) with health workers or may have a high workload.

“Some mothers in my village believe that being pregnant is normal and there is no need for special care from health workers, so a traditional healer is the first option to visit if something does happen.” (Participant No. 1)

“Many women in my village could not speak the Lao language, so if nobody could accompany them to communicate with health workers, they might not visit ANC.” (Participant No. 3)

Another barrier to ANC attendance was that many mothers lived in rice fields and had no private car or motorbike, making it difficult for them to visit the health center for ANC. The positive deviance women always had a means of transport at their disposal.

**Interpersonal Level**

Family members played a key role in decision-making and support for mothers to make more ANC visits when they were aware of the importance of ANC. All women reported that family members were the key to their decision to visit ANC and to deliver at a health facility. A few women mentioned that they could go for ANC alone after their husbands showed their agreements, but many women were accompanied by their husbands or sisters for ANC. Most women also indicated that their husbands agreed with or advised their ANC visits, and those husbands were likely to understand how important ANC visits were for MCH.

“I do agree that family members, especially the head of the family, is a very important person in this matter. Fortunately, my husband quite understands that I should have ANC, he said that health workers can help check my health and that of the baby. He accompanied me.” (Participant No. 2)

A few participants reported that friends and neighbors were a very useful source of information and support. For example, three mothers with no reading literacy were helped by a neighbor to go through the ANC information booklet (pink book).

“I asked one of my neighbors to read the pink book when I wanted to know more about child development and vaccination because I cannot read nor could my family members read for me.” (Participant No. 19)

In these communities, sharing good experiences and joy with other people are common practices. Most mothers were proud of sharing their positive experiences of care.

“Talking with friends about the good experience of my ANC visit was more comfortable and enjoyable than talking with other people. I could also advise my friends to frequently visit ANC based on my experiences” (Participant No. 2)

In contrast, participants explained that mothers who followed no ANC or had fewer visits might not receive such positive support from their family members, friends, and neighbors as they did. Perhaps family members might not allow them to go if they were unaware of the importance of ANC. They mentioned that not all husbands or family members were interested in attending ANC visits with their wives or attending campaigns in the community.

“I think that not all pregnant women are so lucky to get good support from their family, especially their husbands. I found that some of my neighbors were not only restricted to get ANC but also did not attend any village health campaign, or had any help for work, as my husband did for me.” (Participant No. 8)

**Organization Level**

The ANC service was noted as an important source
of information and care for MCH. All participants mentioned that they wanted more information about their baby's health from health workers, and professionals helped them to follow up the health of the baby. Most interviewed mothers reported that they also received information about ANC benefits from health workers during immunization campaigns in the village. Many women declared that following the appointments made by health workers was a common practice during their pregnancy. These mothers trusted and were satisfied with the behavior of their health workers and indicated that they were friendly.

“I have never been blamed by health workers because I have never missed an appointment. In addition, I have done whatever the doctor told me because I think that the doctor’s advice is good for my health and that of my fetus.” (Participant No. 13)

“When I visited ANC, I felt more comfortable with the doctor who was kind and talked well with me because of our kinship. I was asked to come more often if I was in pain.” (Participant No. 15)

In some cases, incentives provided by health workers were interesting and useful to the mothers. For example, they told us that health workers provided a soap, a pair of shoes, and a pink book for us to take home. All participants pointed out that the pink book was very useful to bring home and share with their family members because—it contains a great deal of information about child growth, immunization, and nutrition in addition to recording pregnancy status.

“I got a pink book when I went for my first ANC visit. It was very useful to read more at home because the health worker did not tell me very much about my health and the baby, but I could find more information in the pink book, especially about child vaccination.” (Participant No. 10)

The mothers thought that other mothers that did not attend or hardly attended ANC might have had a negative experience when going for ANC or other health care services, which would lead them to avoid ANC. For example, pregnant women might experience feeling unwelcome or encounter unfriendly and unfair health workers during ANC sessions.

“When I advised my friend to visit ANC, she told me that she was afraid of the doctor who used to blame her when she forgot to take her pink record book with her when going for ANC.” (Participant No. 15)

The lack of public transportation in their village, making it difficult for some pregnant mothers to visit the health center for ANC, especially those mothers who lived in rice fields and had no private car or motorbike.

Community Level

The community is also an important source of information, a key source for our positive deviance mothers, which encourages them to seek ANC. Many mothers mentioned that village health volunteers had a role in informing mothers about visiting ANC. These participants indicated that community networks and support stimulated them to attend ANC. Moreover, the pink book provided by health workers during ANC had a catalytic effect as many pregnant women could not read and asked friends and neighbors to read it for them. In other words, the shared interpretation of the book led to increased motivation in the community to follow the guidelines. More precisely, it provided a good opportunity for community members to learn more about MCH care, which thus supported mothers to visit ANC.

“Although I could not read my pink book, I shared it with my friends and neighbors. They became more interested in the child’s growth and healthy food for the mother and child.” (Participant No. 9)

The health education campaigns were a good source of information for pregnant women and their families. However, not everyone in the community had the opportunity to hear that information, partly because campaigns were not organized as often as needed in the village. Additionally, some people in the village might not be interested in the campaign, especially men, who might think that attending a campaign on MCH is not their role, but the duty of women.

“Campaigns on MCH were organized in my village for the last three years and not many men attended this important event because they believed that the campaign was not relevant for men but was useful for women.” (Participant No. 5).

Discussion

In contrast to previous studies in Laos, this study focused on rural mothers with good ANC practices and the factors that motivated and influenced these women. It was expected that understanding the determinants of this positive deviant behavior at different levels would inform potential intervention strategies to achieve optimal ANC utilization.

Individual Level

At the individual level, motivation for utilizing ANC came from positive perceptions of the benefits of ANC and risk reductions. In some cases, women were even more motivated because it was their first pregnancy and they wanted to reassurance that all was going well or since they had faced difficulties in a previous pregnancy and wanted to do all possible to make sure this pregnancy would go well. In general, women in our study received what they called ‘special care’ during pregnancy because they did not regard pregnancy as ‘normal’. They had all attempted to acquire information on MCH. These findings support those of previous studies in other countries, indicating that having good MCH knowledge, being concerned about their health, and perceiving ANC as useful were significantly associated with optimum ANC utilization. A report from Ethiopia demonstrated
that mothers who had a positive perception toward ANC visits were more likely to achieve good care during pregnancy. In contrast, mothers who did not perceive the risks of pregnancy and the benefits of optimal ANC visits would have less or no ANC utilization.

Positive deviant mothers did not face certain barriers that others might, including the lack of transport to the clinic or barriers such as distance or language. In addition, the lack of transportation is considered as one of the barriers to using ANC for many mothers in rural areas that were identified in other studies.

**Interpersonal Level**

The women in our study reported that the support of family members, especially husbands, was one of the important factors to allocate time and money to follow ANC care. Their families felt that pregnancy required ‘special care’ and included attending ANC and following the instructions of the health care providers. A previous study also found that husbands (and mothers-in-law) played strong roles in influencing optimal ANC visits because they are powerful in family decision-making for health care. Thus, interventions should try to attract family members for involvement in MCH activities as a crucial strategy and a possible target to improve ANC utilization.

Information and support from friends and neighbors were also important. For example, friends and neighbors assisted mothers with no writing and reading literacy, especially to read their pink record books for ANC visits. Village health volunteers also greatly contributed to convey key messages and neighbors, and there seemed to be a willingness to share their experiences and information among their friends and neighbors. In our samples, family and husbands’ incomes and occupations of all women were all at a rather low level, thus reflecting the importance of the context in priority for different influencing factors.

**Organization Level**

ANC is not only to support risk analysis and management but also to track the joyful experience of a growing fetus during the pregnancy. One important item in good quality ANC services is to provide useful information about the progress of fetal growth and to monitor the health of both the mother and the baby. This was a motivating factor for our mothers, which is in line with the findings of other studies in Ethiopia, as well as our recent study. Unfortunately, the quality of ANC provision in Laos remains poor, especially, as previously described, communication skills and information provision.

Positive deviant mothers were satisfied with the received care and all used the pink book they received during ANC, but they were aware that other mothers may not have a similar perspective. They further suggested that mothers’ negative experiences because of the negative behavior and attitudes of health providers might be a reason for mothers not to achieve optimal ANC visits, which is consistent with the results of our previous studies. Increasing women’s satisfaction with the quality of ANC provision would also be important for increasing ANC visits. Therefore, the health care system needs to be responsive to clients’ satisfaction with the quality of ANC services, which could help women who have not achieved optimal ANC visits. On the other hand, emphasizing the improvement of making and keeping appointments between health workers and pregnant women was also reported to be an important factor regarding increasing optimal ANC visits.

**Community Level**

The WHO recommends interventions at the community level to support pregnant women. A meta-analysis of intervention studies in low- and middle-income countries demonstrated that a single intervention, especially community campaigns on MCH could increase coverage to four or more ANC utilizations. In our study, community campaigns were also mentioned as a good source of information for community members. Unfortunately, they did not occur regularly and did not always involve as many people as needed. Moreover, they did not involve the positive role models of women who did attend ANC, as was noted in Nepal.

In brief, improving the quality of ANC provision, particularly the capacity to provide positive and useful information, agreement on the next appointments, and the appropriate behavior and attitude of health workers during communication could make pregnancy a special and joyful process for pregnant women and family members.
health volunteers could form an effective channel to reach mothers and increase their use of ANC. Accordingly, it would be good to involve mothers with positive deviant behaviors in providing motivating information to other women in this regard.

This study had some limitations. First, we did not know whether the mothers mainly came for ANC visits at the end of their pregnancy, or really had gone regularly throughout because the questions focused on the number of visits. In addition, this qualitative study on women with positive deviant behaviors was only carried out in one province in Southern Laos thus it may not be generalizable to the whole country. However, the participants may represent a wider range of women sharing the rural location and other socio-economic characteristics and making up the majority of women in Laos.

Conclusions
Taking ‘special care’ of self during pregnancy was a common feature among Lao mothers with positive deviant behaviors with respect to ANC attendance. They also received support from their families particularly their husbands, friends, and neighbors, and were encouraged by health services. The results suggested that the improvement of ANC coverage could be achieved by health services through paying attention to both families and communities. The services need to improve the quality of the provided information and applied methods so that more mothers become aware that pregnancy requires ‘special care’ and thus appreciate the value of ANC services. This would require strengthening the capacity of health care workers to provide better services and investing in community information sessions aiming at women, as well as husbands and other family members. Finally, involving mothers who did utilize ANC as recommended in community activities to encourage more mothers in this regard is suggested as well.

Authors’ Contribution
All authors equally contributed to this work.

Conflict of Interests
Authors declare that they have no conflict of interests.

Ethical Issues
The ethics approval for this study, as part of a large project on the “situation analysis of MCH care in Lao people’s democratic republic (PDR),” was obtained from the Ethical Research Committee of University of Health Sciences, the Ministry of Health, Lao PDR (No 0681, issued on 09 March 2017).

Before starting the interview, the interviewers explained the aim of the study and the general topics for discussion. Then, participants were assured of data confidentiality and could withdraw at any moment without giving a reason. Written consent was obtained before interview initiation, and women with no reading and writing literacy provided fingerprints.

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