

BMJ Open Insight into the process of postpartum care utilisation and in-home support among vulnerable women in the Netherlands: an in-depth qualitative exploration

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ABSTRACT

Objective To gain insight into the process of postpartum care utilisation and in-home support among vulnerable women.

Design, method, participants and setting A qualitative interview study was conducted among 23 pregnant and postpartum vulnerable women in the Netherlands, following a grounded theory approach. Women were determined as vulnerable by their healthcare providers. Theoretical sampling of participants was applied and was alternated by data analysis to include information-rich cases until saturation was achieved.

Results A conceptual framework of postpartum care utilisation was generated consisting of three phases: pregnancy, early postpartum period and late postpartum period. Within these phases, information provision, parenting self-efficacy and social network were identified as overarching themes. Perceived inadequate information on content of postpartum care posed a major barrier to forming realistic expectations during pregnancy and hindered its utilisation. Low self-efficacy facilitated postpartum care utilisation. All women experienced increased self-efficacy during and after postpartum care. Support from a social network influenced expectations regarding the added value of postpartum care during pregnancy, and lowered actual utilisation during the postpartum period. The costs of postpartum care and the role of the maternity care assistant acted as general barriers or facilitators influencing the three overarching themes and therefore postpartum care utilisation indirectly.

Conclusions Our findings suggest that postpartum care utilisation among vulnerable women may be improved by considering the particular phase and relevant themes applying to individual women, and adapt care accordingly. We recommend to provide comprehensive, understandable information and to emphasise the gains of postpartum care in improving self-efficacy for vulnerable women. Moreover, involving a woman's social network in postpartum care may add value to this care for this population.

Strengths and limitations of this study

- This study focuses on vulnerable women, a group which is often under-represented in research while having a higher risk of adverse health outcomes.
- We were able to obtain a theoretical sample of vulnerable women needed to conduct a proper qualitative study, resulting in rich and complex data.
- By applying a grounded theory approach, a framework was generated that provides insight into the complex process of postpartum care utilisation.
- Limitations of this study are that views of women who did not use any postpartum care were limited and opinions of certain ethnic minority women may have been missed.

INTRODUCTION

Women with a low socioeconomic status tend to underuse healthcare services, have an increased risk of adverse health outcomes and are generally less empowered.¹⁻³ Where women have multiple medical and non-medical risk factors for adverse outcomes and a lack of adequate support or coping skills, they are designated as vulnerable.⁴⁻⁶ Vulnerability in mothers and their families affects the health and development of their children, which can aggravate inequalities in following generations.⁷⁻⁹ Breaking this cycle of inequality by improving healthcare utilisation among vulnerable women might therefore be beneficial for improving health outcomes for next generations.

The early postpartum period is highly suitable for improving health outcomes among mothers and their newborns.¹⁰ In the Netherlands, postpartum care is provided at home by maternity care assistants (MCAs) during the early postpartum period. MCAs closely monitor the well-being of the mother, the

**Box 1 Postpartum care in the Netherlands****Provision and content of postpartum care in the Netherlands**

Postpartum care is a unique form of primary care with a focus on prevention of health problems during the postpartum period, provided at home. This care is provided by skilled nurses with a lower secondary education degree, so-called maternity care assistants (MCAs), who are supervised by community midwives.

During pregnancy, every woman may register herself at a chosen maternity care organisation (MCO) in order to receive postpartum care. MCOs are independent enterprises. Their care starts during the third trimester of pregnancy with a home visit by an MCA. This visit is used to explain the content of postpartum care, and to determine the recommended amount of hours of postpartum care during the early postpartum period. This recommendation is based on the Dutch national indication protocol, and is re-evaluated during the first week postpartum by MCAs and midwives. The generally recommended amount of postpartum care is 49 hours (minimal amount is 24 hours, the maximum is 80 hours) spread out over 8–10 consecutive days.

Postpartum care usually starts directly after birth or after discharge from the hospital or birth centre. The provided care from MCAs focusses on information provision, and prevention and identification of healthcare problems, which includes medical check-ups. The information provision is manifold: teaching parents how to take care for their newborn, supporting breast feeding, providing information on what to do when problems occur et cetera. MCAs support parents of newborns with reassurance and positive feedback. During postpartum care, this care is personalised based on the individual needs of the parents. As such, the MCA reduces support as the parents gain confidence in care taking skills. In contrast to obstetric care, postpartum care is only partly covered by a woman's mandatory healthcare insurance.

An out-of-pocket payment is required for every hour (€4.50 per hour in 2020), resulting in an average payment of €220.50 for the whole period. Some MCOs compensate (a part of) the total out-of-pocket payments for women with a poor financial situation, although there are no protocols for these situations.

newborn and the family, and offer opportunities for prevention of health problems (see [box 1](#)). Additionally, MCAs provide women with reliable information about caring for their newborn and provide breastfeeding support.^{10 11} Dutch postpartum care is easily accessible and extensive in duration. It is partly covered by obligatory health insurances.^{12 13} Whereas approximately 95% of all postpartum women use at least some amount of postpartum care, utilisation among vulnerable women is lower than among non-vulnerable women.^{13 14} This underuse of postpartum care among vulnerable women is undesirable particularly as these women may benefit most from this preventive and supportive care.¹⁵

An in-depth understanding of the underlying reasons for the lower utilisation of postpartum care among vulnerable women is currently lacking. By performing a qualitative study, we aimed to gain insight into the process of postpartum care utilisation among vulnerable women, including perceived barriers and facilitators. The results of this study may be used to tailor postpartum care to the needs of vulnerable women,

which may subsequently lead to improved utilisation and better health outcomes.

METHODS**Design**

We used a qualitative design to gain an in-depth understanding of the process of postpartum care utilisation among vulnerable women. A grounded theory approach was deployed, of which the key elements of the alternating process of data collection and analysis, constant comparison and theoretical sampling were applied (see the Selection of participants, Data collection and Data analysis sections for details of this process). This enabled the generation of a conceptual framework grounded in the data.^{16 17}

Patient and public involvement statement

This study aimed to gain insight into the process of postpartum care utilisation among vulnerable women by conducting individual interviews. The study was designed in close collaboration with a council of mothers, healthcare providers and maternity care organisations (MCOs). The study was conducted in collaboration with healthcare providers and MCOs to ensure that outcomes of the study would be relevant for them. All participants were sent their transcript of the interview for member checking. Afterwards, a summary of findings and practical improvements for healthcare providers was communicated in leaflets and symposia.

Research team and reflexivity

LTL is an experienced qualitative researcher, who previously worked as a physician at an obstetric ward. MvdH is a behavioural scientist with a focus on vulnerable mother-child dyads. ML is an experienced qualitative researcher and psychologist. The analysis of the data was primarily conducted by this multidisciplinary team. In addition, the results of the analysis were discussed with additional members of the research team, being JL (gynaecologist in training), JVB (neonatologist), HEE-S (manager in perinatal care research) and AF (professor in obstetrics and gynaecologist). By involving researchers from different backgrounds, the data were illuminated from different angles.

Selection of participants

Eligible vulnerable pregnant and postpartum women were approached by different types of healthcare providers during regular care processes: gynaecologists, midwives, MCAs and social workers. Healthcare providers affiliated with the regional consortium 'Pregnancy and Childbirth in the Southwest of the Netherlands' were approached for the inclusion of participants. Women were classified as vulnerable by their healthcare providers based on having a combination of medical and non-medical risk factors for adverse pregnancy outcomes, and a lack of adequate support or coping skills.⁴⁻⁶ Examples

of medical risk factors are a depression during pregnancy or previous psychiatric diseases. Non-medical risk factors are very broad and may, for example, refer to single motherhood, no fixed abode or financial problems. In addition, women had to be either in their third trimester of pregnancy, to ensure that the home visit of the MCA had taken place, or less than 12 weeks postpartum to prevent recall bias. Women had to be 16 years or older at inclusion, and needed to have a sufficient understanding of the Dutch or English language. Eligible women who were interested in participating, received an informational leaflet including an informed consent form from their healthcare provider.

Theoretical sampling of participants was applied to include information-rich cases until saturation was achieved. In the beginning of the study, all eligible women were invited to participate. Since we interviewed several postpartum women with a Dutch cultural background, we applied deviant case sampling with a shift towards selecting pregnant women. Finally, we specifically selected women based on their lower (intended) use of postpartum care, and women with a non-Dutch cultural background. Single interviews were scheduled with 26 women. Three postpartum women cancelled the interview without giving a reason, and thus seven pregnant and 16 postpartum women were interviewed (table 1). Despite an extensive search, we did not find any women who did not use any postpartum care at all while also meeting our inclusion criteria. After these 23 interviews, 'functional' theoretical saturation was reached (see also the Data analysis) and sampling of interviewees ended.

Data collection

The interviews were held between January 2018 and November 2018. Interviews were conducted at the participant's home by a trained researcher (LTL) along with a female observer. All interviews started with a short, unrecorded conversation to enable the women to become acquainted with the interviewer and observer. Furthermore, women were reassured that interviews would be handled confidentially. Special consideration was given to simple language use, informal clothing and seating arrangements to encourage women to speak freely and to avoid socially desirable answers.¹⁸ Women received a 25 euro gift voucher after the interview.

We used an interview guide that was developed based on expert opinions gathered in exploratory meetings with different healthcare providers (ie, MCAs, managers of MCOs and other healthcare providers). Adjustments to the interview guide were made after analysing the first four interviews. The adjusted version focused more on women's experiences regarding postpartum care instead of the providers' opinions (see online supplemental figure S1).

Interviews lasted 27–68 min were audiotaped and transcribed verbatim. All transcripts were checked for accuracy by one of the researchers (LTL or MvdH). The verbatim transcript was sent back to each woman to verify

the accuracy and completeness of the text (ie, member check).

Data analysis

All transcripts were independently analysed by two researchers (LTL and MvdH) using NVivo V.12. The first phase of analysis consisted of open coding of the first twelve transcripts. A preliminary coding scheme was developed and discussed between LTL, MvdH and ML. We selected deviant cases of additional participants based on this coding scheme. Next, axial coding was applied; the data were coded deeper and at a more abstract level and relationships between codes were identified. Codes were grouped together and categories were created. Thereafter, selective coding was applied. Core categories were identified and concepts were created. Overarching themes based on the emergent categories were placed in a conceptual framework grounded in the data and these overarching themes acted as facilitators, barriers or both. In addition, two general facilitators and barriers were identified influencing the three overarching themes and therefore postpartum care utilisation indirectly. The terms facilitators and barriers were applied rather strictly in order to gain insights into the underlying reasons for lower postpartum care utilisation among vulnerable women: further utilisation of postpartum care is stimulated by facilitators independently from the result of this further utilisation, whereas a reason to reduce postpartum care utilisation was defined as a barrier also independently from the result of this reduction of postpartum care utilisation. Constant comparison was applied throughout the whole process of data analysis, by comparing the concepts and emerging framework with new data. 'Functional' theoretical saturation was reached after no new insights for the conceptual framework were identified from the data.¹⁹

Reporting followed the Standards for Reporting Qualitative Research.²⁰

RESULTS

Conceptual framework

Women experienced postpartum care as a chronological process started in pregnancy to the postpartum period. This process was divided into three different phases, in which opinions regarding postpartum care were formed and decisions regarding utilisation were made. The first phase was during pregnancy, when women registered at a MCO and the home visit took place. Expectations with respect to the value and decisions regarding utilisation of postpartum care were formed in this phase. The second phase was during the early postpartum period, when women actually experienced postpartum care at home and made decisions about their continued utilisation. The third phase was the late postpartum period. In this phase, reflections on postpartum care were formed regarding the whole postpartum care process. This last

**Table 1** Characteristics of participants

Participant's number for quotes	First postpartum period	Age (years)	Ethnicity	Living situation*	Education level†	Amount of postpartum care utilisation by participants‡
1	Yes	30–34	Dutch	Single	Higher	Recommended amount
2	Yes	20–24	Other	With supportive adult	Lower	Less than recommended
3	No	30–34	Other	With partner	Higher	Recommended amount
4	No	≥40	Other	With partner	Lower	Less than recommended
5	No	25–29	Dutch	Single, in temporary housing	Lower	Recommended amount
6	Yes	25–29	Other	Single	Intermediate	Less than recommended
7	Yes	30–34	Dutch	With partner	Intermediate	Recommended amount
8	Yes	20–24	Dutch	With supportive adult	Intermediate	Less than recommended
9	No	30–34	Other	With partner	Intermediate	Recommended amount
10	Yes	20–24	Dutch	With partner	Intermediate	Less than recommended
11	No	25–29	Other	Single, in women's shelter	Intermediate	Recommended amount
12	No	35–39	Other	With partner	Higher	Less than recommended
13	Yes	35–39	Dutch	With partner	Higher	Less than recommended
14	No	35–39	Dutch	With partner	Lower	Less than recommended
15	No	25–29	Other	With partner	Intermediate	Recommended amount
16	No	35–39	Other	With partner	Lower	Less than recommended
17	Yes	20–24	Other	With supportive adult	Intermediate	Recommended amount
18	No	30–34	Other	Single, living with child	Lower	Recommended amount
19	Yes	20–24	Dutch	With partner	Intermediate	Less than recommended
20	No	25–29	Other	With partner	Intermediate	Recommended amount
21	Yes	30–34	Dutch	With supportive adult	Higher	Recommended amount
22	Yes	35–39	Dutch	With partner	Higher	Recommended amount
23	Yes	30–34	Other	Single, in women's shelter	Intermediate	Less than recommended

*Based on living in a fixed abode, unless indicated otherwise.

†Based on participants' highest successfully completed level of education, classification based on International Standard Classification of Education (ISCED) 2011; lower education corresponds with ISCED levels 0, 1 and 2, intermediate with ISCED levels 3, 4 and 5, and higher with ISCED levels 6, 7, 8.⁴²

‡For pregnant participants: this represents their intended utilisation of care compared with the recommended amount of hours of postpartum care by their maternity care organisation (MCO). For postpartum participants, this represents their actual use of care compared with the recommended amount of hours postpartum care by their MCO.

phase may ultimately influence decisions about utilisation in a next pregnancy (see [figure 1](#)).

We identified three overarching themes influencing the use of postpartum care. These themes are based on what women expressed during the interviews. All themes may act as a facilitator, barrier or both, within each of the three different phases.

1. Information provision: defined as a woman's perception of the provided written and oral information from healthcare providers (including MCAs) regarding the

concept and content of postpartum care, and information on newborn caretaking competences provided by MCAs.

2. Parenting self-efficacy: defined as a woman's belief in her own competences to handle difficult situations, such as caring for her newborn. This self-efficacy may differ between the different phases.
3. Social network: defined as a woman's perceived network of persons who may provide practical or emotional support during the postpartum period. This

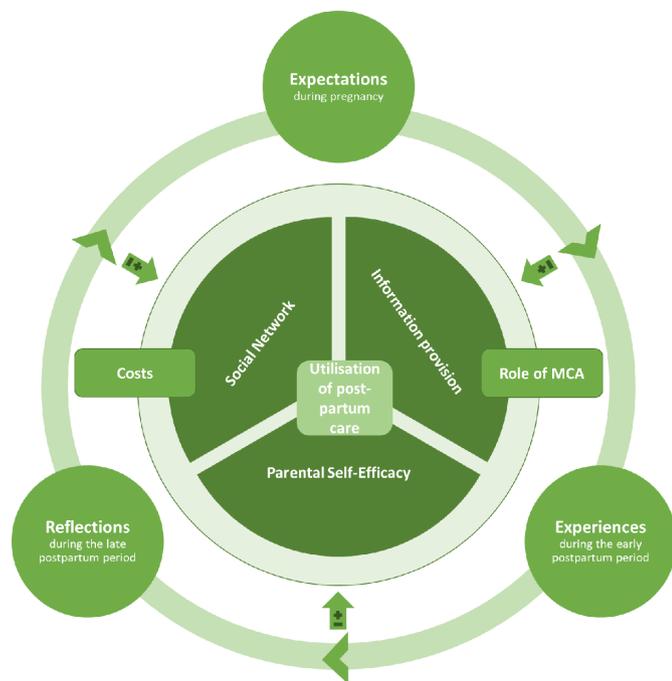


Figure 1 The process of postpartum care utilisation among vulnerable women during pregnancy and the postpartum period. The three phases (outer circle) and three overarching themes (inner circle) influence postpartum care utilisation. Two general facilitators and barriers in the middle circle were also identified to be facilitators or barriers influencing the three overarching themes and therefore postpartum care utilisation indirectly. MCA, maternity care assistants, skilled nurses that provide the postpartum care at home.

network consisted of a combination of their partner (if present), friends and family (eg, mother, mother in law and sister).

Two general facilitators and barriers were identified:

1. Costs of postpartum care: different aspects of costs were identified to be a facilitator or barrier to postpartum care utilisation in the three phases. These different aspects were the concept of the out-of-pocket payments, unawareness of the costs and the total amount of the costs, and the payment of these costs by MCOs in some individual cases.
2. Role of the MCA: different aspects of the role of the MCA acted as a facilitator or barrier to postpartum care utilisation in the three phases. These different aspects were the surveillance, the provision of emotional support, the provision of practical support, the connection with the new parents and the perceived appropriateness of the postpartum care by the new parents. These general facilitators and barriers were integrated into the description of the different overarching themes per phase.

Below, the framework regarding the use of postpartum care among vulnerable women is described per phase. The different phases, including the perceived barriers and facilitators for the use of postpartum care and the general facilitators and barriers, are set out. Illustrative quotes are provided per theme in the different phases.

Additional supportive quotes can be found in online supplemental table S1.

Expectations of postpartum care during pregnancy

Women indicated that their expectations regarding the value and utilisation of postpartum care were primarily formed based on information received during pregnancy or during their previous pregnancy and postpartum period (in case of a previous pregnancy). Expectations were furthermore influenced by women's self-efficacy, and their social network.

Information on content of care was provided via leaflets during pregnancy by community midwives or gynaecologists. Although this information provision was perceived as essential for the formation of realistic expectations, information provision via leaflets did not fit women's needs. Additional information was provided during the home visit. Women indicated that they appreciated this visit for getting familiar with their MCO, but did not perceive this as adequate information provision on content of care. Pregnant women stated that lack of adequate information negatively influenced their expectations regarding postpartum care and in some cases resulted in misconceptions; the majority of the women thought that postpartum care was mandatory and some thought that MCAs would place them under surveillance regarding their newborn caretaking competences. Some women also stated that they had no clue as to what MCAs would do all day, and how MCAs would support them:

R: "I just want to, what I need help with, tips so to say, but not 8 hours per day or something... something like that? That is not necessary for me."

I: "And that is because you think that's too much or...?"

R: "Yes, I don't know what they are going to do for eight hours in my house..."

(Respondent #23, pregnant)

Women with perceived low parenting self-efficacy had high expectations of the benefits of postpartum care during pregnancy, which acted as facilitator for intended utilisation. Especially primiparous women stated that they felt very insecure during pregnancy regarding their skills at newborn care tasks, and therefore expected MCAs to help them with caring for their newborn:

Well, I wanted to have help anyway, and it seemed useful to me as well. I also have to learn a lot about the baby and that [by using postpartum care] is the best way to do it.

(Respondent #8, postpartum)

Also, the anticipation of not being able to care for their newborn themselves due to complications or fatigue, acted as a facilitator to signing up for postpartum care and forming positive expectations. Women with high levels of parenting self-efficacy generally expected to be able to manage the care for their newborn themselves,

and wanted MCAs to support them with the household and medical check-ups. Some women with high levels of self-efficacy expected to receive essential and up-to-date information from MCAs, and that this would enhance their self-efficacy even more. Women indicated they wanted to receive all the recommended care if their social network held positive views on it. Some women explained that they were strongly advised by their female friends or relatives to sign up for postpartum care, and followed this advice even though they initially did not want to sign up for postpartum care. Women expected to need less care when they anticipated that their network, including their partner, could help them during the postpartum period:

But that I immediately was like “Expectations?” Don’t think about running my household, because that is just my cup of tea and I have my own people for that, so they [MCAs] don’t have to come for that.

(Respondent #14, pregnant)

Women without an extensive social network mostly expected to depend on postpartum care, regardless of having a partner, resulting in a higher intended care utilisation.

Experiences with postpartum care during the early postpartum period

Experiences with postpartum care were primarily gained during the first week postpartum, and were influenced by the perceived quality of care. In contrast to the expectation of being under surveillance of MCAs, nearly all women felt pampered by their MCAs, and felt positively connected with them. Experiences were again influenced by information provision, self-efficacy and social network which, in turn, acted as barriers or facilitators to care utilisation.

Information was mostly provided orally by MCAs during the early postpartum period. Both primiparous and multiparous women perceived this information as important and felt it was adequately tailored to their individual needs. Hence, adequate information provision acted as a facilitator to continued use of postpartum care. Several women were unaware that out-of-pocket-payments were required for using postpartum care, and decided to reduce the hours of care to what they perceived as necessary, after they gained this information. Others valued postpartum care more than the associated costs and were not deterred by the out-of-pocket-payments into account in their decisions regarding utilisation. A few women considered their own medical status as very complex and felt that MCAs were unable to provide them with the information they needed, and consequently lowered their utilisation. Some women with a non-Dutch cultural background indicated that they followed the advice of their MCA while she was present and that they applied more traditional caretaking techniques with their newborns when the MCA left. This did not affect their care utilisation:

We are used to other things, like uhm, we let the baby sleep in prone position so to say, and yes, here they say like “No, [...] it is not allowed”, so uhm, you hear that from other people [...] haha. So yes, I will just, yes I just did that what they told me and then I did what we are used to [after the MCA left].

(Respondent #11, postpartum)

Experienced low parenting self-efficacy generally positively influenced women’s experiences and use of postpartum care. Most women felt insecure during the first days postpartum, and stated they needed all the indicated hours of postpartum care to gain a higher level of self-efficacy. A few women did not like their MCA, but felt too insecure to indicate this to the MCO. Instead of asking for another MCA, they reduced the utilisation of postpartum care. Others stated that they felt secure in caring for their newborn after a few hours of care, and subsequently lowered their postpartum care utilisation because of this increased self-efficacy. All women, including those with high baseline levels of self-efficacy, experienced an increase in self-efficacy due to receiving postpartum care:

And the baby is still small, you can’t hold properly, there is something, you miss something. But they also give you the confidence to do that.

(Respondent #3, postpartum)

Women who received more support from their social network often asked the MCA to focus solely on the care for the newborn and themselves, while their network supported them in running the household. In some cases this led to a reduction of care utilisation. In contrast, absence of support from a social network facilitated the use of postpartum care, as women felt more dependent on their MCAs:

A sort of, yes, they are your helping hand during such a postpartum period, uhm, but also your support and anchor.

(Respondent #12, postpartum)

Reflections on postpartum care in the late postpartum period

In this phase, experiences were transformed into reflections regarding postpartum care while looking back on the received care. When reflecting on postpartum care after the early postpartum period, the appraisal of MCAs among women appeared to differ greatly. Whereas most women indicated that they saw MCAs as healthcare providers who provide essential care and support, some felt that MCAs were merely a support in running the household. Similar to the previous two phases, reflections were influenced by women’s perception of information provision and their perceived self-efficacy, and social network.

Most women missed information during pregnancy on the fact that MCAs also performed medical check-ups, especially since these medical check-ups were highly appreciated. Women felt that the tailored information

provided by MCAs postpartum was a huge facilitator for postpartum care utilisation, also for a next postpartum period. Many women did not understand why they needed to pay an out-of-pocket payment for postpartum care at all. However, they generally stressed that they valued the gains of postpartum care over the costs:

R: “Obligatory deductible excess is very common*, you know. That will not change. So yes, if you want the baby to stay healthy and yourself as well, I would definitely recommend it. I don’t care about the money, I care more about the uhh...”

I: “The baby? That is important.”

R: “The baby.”

(Respondent #16, postpartum)

*There is an obligatory deductible excess for healthcare utilisation in the Netherlands for regular care. Healthcare insurance covers costs above this obligatory deductible excess. However, this does not apply to primary care such as care from a general practitioner, midwife or postpartum care. Obligatory deductible excess is not the same as out-of-pocket payments. Out-of-pocket payments only apply to postpartum care and is independent of the obligatory deductible excess.

Women for whom the out-of-pocket payment was compensated by their MCO stated that this did not affect their postpartum care utilisation.

Most women experienced their increased parenting self-efficacy as one of the most important gains of postpartum care. This increased self-efficacy positively influenced their reflections, and as such affected their intended use of postpartum care following a next postpartum period. Women who already experienced high self-efficacy prior to receiving postpartum care, underlined that they still would use postpartum care in future postpartum periods. They believed this care to be important to monitor the health of their newborn and themselves, and this increased their self-efficacy even more:

...*How do I do that?* In fact you know how to do it, but you want that extra reassurance that she [maternity care assistant] says like “you are doing great, you just have to do it like this, you can do it.”, I just really needed that. And see, she is gone and you need to do it by yourself and you just manage, but I was really insecure like “I can’t do it the right way, I might hurt him”, or whatever. So she really helped with that.

(Respondent #9, postpartum)

According to the women, the positive connection that most women experienced with their MCAs contributed to this improved self-efficacy. Postpartum women with a low self-efficacy indicated that they, in hindsight, needed more care than they received but did not dare to express this to their MCA.

Several women specified that they regarded MCAs as essential for providing medical care. They indicated that their social network was not equipped to adequately

provide this care. Others indicated that having a sufficient social network during their possible next postpartum period would likely decrease their care utilisation, although they stated that their network could never fully replace MCAs. All women appreciated the provided advice by MCAs regarding caring for their newborns for themselves and their network. Women with a non-Dutch cultural background additionally indicated that MCAs could teach them the newest insights regarding the care for their newborn, as opposed to the traditional way of caring as advised by their mothers and grandmothers:

So I was like... what is really really important to me... uh... in my opinion so to say... in postpartum care is the medical thing for me for example and for the baby as well. Because family is absolutely not capable of doing that [laughs]... you understand?

(Respondent #4, postpartum)

DISCUSSION

This qualitative study shows that postpartum care utilisation among vulnerable women is a three-phase process which is mainly influenced by women’s perception of the provided information regarding the content of care and actual provided oral information during the provided care, their perceived parenting self-efficacy and perceived support from their social network. During pregnancy, the provided information was perceived as inadequate and posed a major barrier in forming realistic expectations of postpartum care. The information provision during the early postpartum period was found to be essential and this promoted utilisation of postpartum care in a following pregnancy. Low self-efficacy facilitated increased use of postpartum care, which in turn generally improved women’s self-efficacy. Women’s social network primarily influenced their expectations regarding the added value of postpartum care during pregnancy, and thus influenced actual utilisation during the postpartum period. Furthermore, costs of postpartum care and the role of the MCA indirectly influenced postpartum care utilisation. Overall, vulnerable women recognised the value of postpartum care after experiencing it, and viewed it as essential care for improving their own and their newborns’ health.

A strength of this study is that we focused on vulnerable women; a group often under-represented in research.^{21–23} Despite the recruitment challenges, it is important to involve vulnerable populations in research to improve care and outcomes for this group, particularly as they have a higher risk of adverse health outcomes.^{2 3} Additionally, we showed that it is possible to obtain a theoretical sample of vulnerable women needed to conduct a proper qualitative study. By applying a grounded theory approach, the generation of a conceptual framework grounded in the data was possible. Instead of searching for answers in predefined directions, analyses were largely inductive, allowing meaning to emerge from the data.²⁴



Theoretical sampling and constant comparisons between the emerging themes and data contributed strongly to the robustness of our results.¹⁹ Validity of our results was further strengthened by using a multidisciplinary research team with backgrounds in different specialisms.

Despite efforts undertaken, we were unable to include women who did not use any postpartum care (ie, less than 5% of the total population), limiting our insights into the considerations of this specific subgroup of women.^{13 14} We did interview one woman who gave birth to her second child and did not use postpartum care in the previous postpartum period because she thought it was not useful. Also, we offered interviews in Dutch and English only. We therefore may have missed the opinions of certain ethnic minority women who did not speak these languages.

Our provided conceptual framework regarding postpartum care utilisation is supported by the qualitative systematic review by Walker *et al.*²⁵ They determined necessities for a successful transition to motherhood in the early postpartum period, and identified four themes: connection between women and midwives, identification of women's individual needs, family and cultural influences, and education and support. Our framework builds on this review by focussing on the practical part of the care that is necessary for this transition, and by indicating that this care may be provided by others than midwives. In addition, our theme 'social network' may be an important addition to this review for prevention of serious adverse health outcomes. Cutrona *et al* provided an mediational model of postpartum depressions, in which social support positively influences parenting self-efficacy, which has a preventive effect on development of a postpartum depression.²⁶ This indicates that healthcare providers, and MCAs in particular, may recognise the role of the social network and parental self-efficacy even more as important themes in postpartum care utilisation.

Using the terms facilitators and barriers regarding utilisation or further utilisation of postpartum care may suggest that utilisation is the ultimate goal. The terms facilitators and barriers were applied rather strictly in our study; when participants reduced their hours of postpartum care, the contributing factor was defined as a barrier, even when it was of a positive nature. For example, women reduced the amount of hours due to increased self-efficacy, strictly this posed a barrier to further utilisation. However, the contributing factor, that is, increased self-efficacy, may be positive. In practice, optimal circumstances should be created to facilitate informed decision making regarding postpartum care utilisation. Reduced or increased number of hours of postpartum care can be desirable, as long as they fit the needs and requirements of the individual woman and her family.

Women perceived the provided information on content of care during pregnancy as inadequate, even after the home visit. This posed an unexpected major barrier in forming realistic expectations regarding postpartum care and affected (intended) utilisation. Especially the supportive nature of postpartum care was unclear from

the information provided. The feeling of surveillance instead of support was found to be a barrier for care utilisation among vulnerable women.²⁷ Regardless of their social background, women may find it hard to navigate the overwhelming amount of information available.^{12 28–30}

Health illiteracy may aggravate this experienced lack of adequate information received during pregnancy, and may negatively affect utilisation of postpartum care among vulnerable women.^{25 31 32} The highly appreciated, tailored oral information provided by MCAs during the early postpartum period indeed signals the possible influence of health illiteracy.^{33 34} Also, the requirement for out-of-pocket payments made some women decide to reduce postpartum care utilisation. This indicates a substantial need for MCOs and healthcare providers to properly inform this vulnerable population about the value of postpartum care already during pregnancy.

The experienced support of MCAs focussing on newborn care competences increased all women's self-efficacy, and as such improved further utilisation of care. In accordance with previous research,³⁵ we found that multiparous women and women who already experienced high levels of self-efficacy still said to have benefited from the confirmation and support given by MCAs. Previous studies showed that connections with healthcare providers were often problematic among vulnerable populations.^{27 36 37} However, we found that most of our participants had a good connection with their MCAs, possibly contributing to the experienced increased self-efficacy.^{38 39} This good connection may be grounded in the nature of this care: easily accessible care at home, leading to continuity of care in a turbulent phase.²⁹ Nevertheless, some women did not dare to stand up for themselves when postpartum care did not match their needs. This posed an important barrier to utilisation, as these women rather abstained themselves from care than to ask for changes. Emphasising the potential role of postpartum care in increasing women's self-efficacy, and tailored care based on a woman's self-efficacy may be used to improve care utilisation.

Finally, we found that women in absence of a supportive network perceived MCAs as their anchor during the early postpartum period. This may be related to the finding that women in general need companionship, and continuity of care in this period.²⁹ Also, women with a supportive network highly appreciated the expertise of the MCAs. Providing women and their social network with up-to-date professional knowledge by MCAs might be beneficial for optimising support for women, particularly in the late postpartum period.^{34 35} The assessment of a woman's social network and collaboration with this network by MCAs may lead to improved women-centred care and better care utilisation.^{11 40 41}

The results of our study indicate that information provision during pregnancy must be improved and tailored to vulnerable populations. This information should highlight the supportive and medical tasks of MCAs, outline the need for out-of-pocket payments and emphasise the potential

gains such as improved self-efficacy. For example, this could be done by sending a video to women during pregnancy with an explanation of postpartum care and the gains. Addressing these aspects during pregnancy may lead to increased utilisation of postpartum care, which impacts subsequent healthcare expenditure.¹⁴ Moreover, the provided care should be tailored to a woman's individual needs, with extra attention for women with low self-efficacy. Finally, a woman's social network could be involved in the care for the newborn to maximise support and continuity in support in the late postpartum period. This could be initiated by involving the partner or another relative (eg, mother or aunt) from the home visit onwards and by emphasising his or her importance in the early postpartum period. In the absence of a woman's social network, it is important for MCAs to realise they play an important role in providing support. In countries where there is no extensive postpartum care, this support can also be provided by community midwives or general practitioners. They may use videos with information provision on how to take care of a newborn, and try to involve persons in the mother's network who can support the mother. Future research among vulnerable women should focus on the role of postpartum care in improving self-efficacy, and on the effects of eliminating out-of-pocket payments on the utilisation of this care.¹⁴ Additionally, this study was performed in a developed country. The issue of underutilisation of postpartum care services in low and middle income countries deserves further exploration in these countries, since women interviewed in this study may have a better support network to overcome problems than others who live in less favoured countries.

CONCLUSION

Our study shows that postpartum care utilisation among vulnerable women is a three-phase process in which information provision, perceived self-efficacy and social network act as either barriers or facilitators to postpartum care utilisation. Individual assessment of these themes and their influence during pregnancy and the whole postpartum period is therefore essential in order to tailor care to vulnerable women's needs and improve utilisation. In general, providing understandable information highlighting the supportive and medical tasks of MCAs, possible gains in improving self-efficacy and involving a woman's social network in postpartum care may add value to care for this population. In addition, by addressing a woman's self-efficacy and social network in the different phases of the process of postpartum care, care utilisation can potentially be improved. The conceptual framework generated in this study may also be used as a basis to optimise care utilisation for vulnerable pregnant and postpartum women outside the Netherlands.

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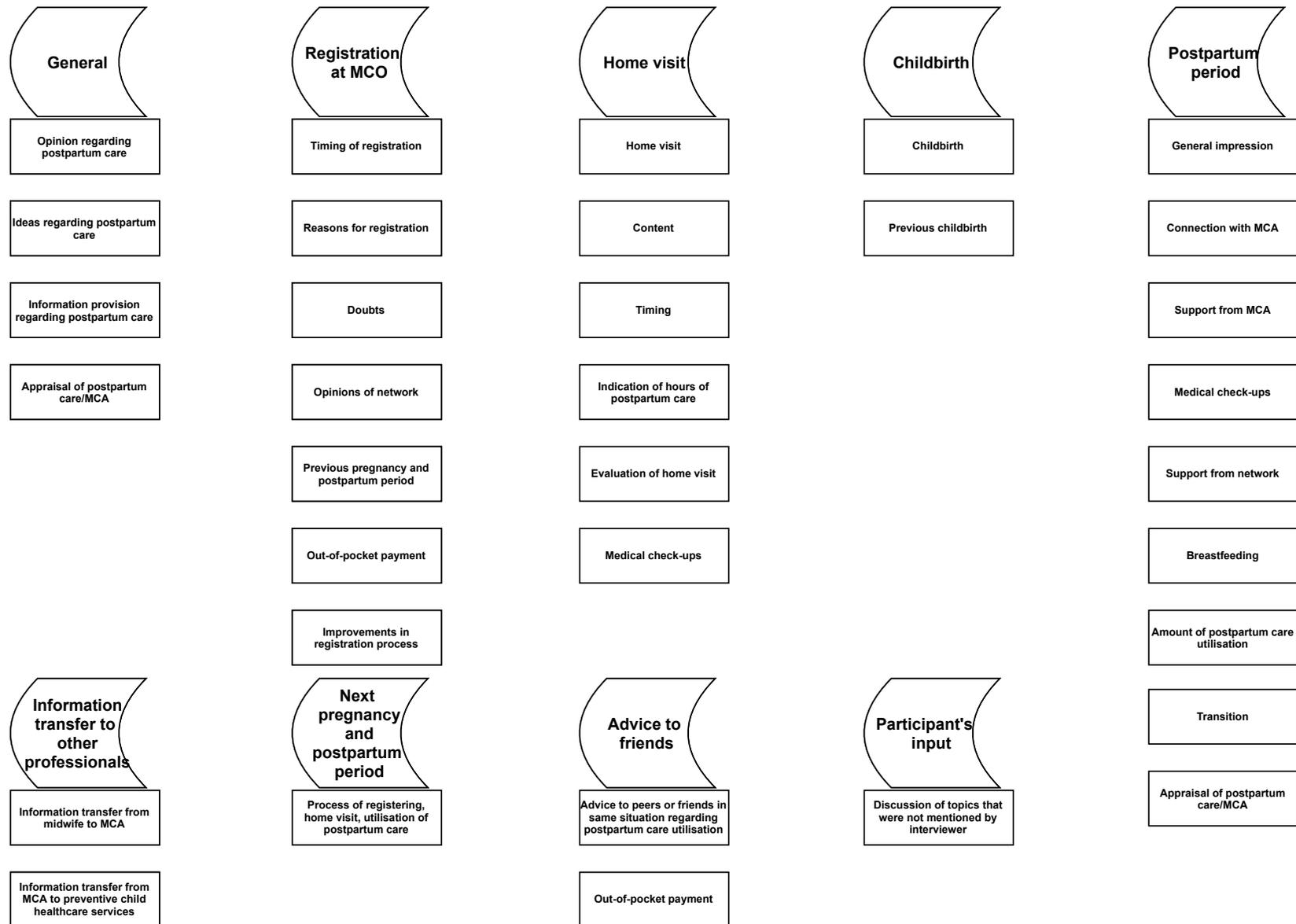
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Figure S1 Topic List used during the interviews



MCA: maternity care assistant

MCO: maternity care organisation

Supporting information Table S1 Additional illustrative quotes arranged in phases and themes

	Expectations	Experiences	Reflections
General quote	<p>“Yes, I know that somebody comes to your home, yes, to help you so to say, but what they are doing exactly and that they are going to teach you everything, wasn’t very clear to me. So.”</p> <p>Respondent #1 (postpartum)</p>	<p>R: “well, because is often like “yes, if there is no connection, you can always call the organisation for someone else” and I actually don’t do that at all, because I have not done that this time. Yes, I find it a bit harsh, and then I think “yes...”. I won’t do that.”</p> <p>I: “So you thought like “then I’d rather not have postpartum care”?”</p> <p>R: “Yes, yes”</p> <p>Respondent #15 (postpartum)</p> <p>R: “The maternity care assistant was great. I had a very nice girl. [...] so really, yes...”</p> <p>I: “So you liked it, it was just a good...”</p> <p>R: “Yes, it is eh, fortunately I had a maternity care assistant who does not oblige you to do anything. She just let you do your own thing, like hey “See what you can handle, and if you feel tired, just stop. And if you feel OK, then you just go on.” But it wasn’t a person that forces you to lie on your bed, because that is not who I am at all.”</p> <p>Respondent #7 (postpartum)</p>	<p>R: “And maybe, I don’t know, maybe I expected too much from postpartum care, from the maternity care assistant, then you might actually expect her to do the technical stuff, huh. The household part so to say, but also the medical part. Yes, maybe that is too much to ask, but...”</p> <p>I: “Because you did not think she did that enough? Because you say “it is too much to ask?””</p> <p>R: “too much to ask to the maternity care assistant, so to say. That, yes, such a person cannot, of course, err, do everything, at the same time. Yes, it is not without reason that you have eh, healthcare providers and people who support running the household. But yeah, if it sticks to a certain level, that is fine. So it doesn’t have to be in detail [the medical check-ups], but...’ Respondent #12 (postpartum)</p> <p>“yes for me... yes I’m just really satisfied. [...] [laughs]. Some people may not like that, but for me I’m really fine so far. Yes. And the nurses were just sweet also, and they did their best I think. I’m really satisfied.”</p> <p>Respondent #4 (postpartum)</p> <p>R: “She [maternity care assistant] [is] just really like me, easy and free and not really going to impose things. Look, I do understand that she</p>

needs to help you with things, needs to explain and really need to interpret like “hey, you really have to do it like this, because....” But that are essential tips for your baby and to raise it healthy. But besides that, I really had the best maternity care assistant in the world, really.”

Respondent #7 (postpartum)

“uhm, chaotic, it was very chaotic. Uhhh, when I gave birth, it was in the middle of the night and we had to call them [maternity care organisation] right away, that I had given birth, and the next day at 5 o’clock I still did not have a maternity care assistant... So that was a bit chaotic and at some point I had a maternity care assistant that cared for two families [at the same time], so she could only come for three hours a day, while I should have had 49 hours. And at one point this became 24 hours for eight days, because she had two families.”

Respondent #10 (postpartum)

(The minimum amount of postpartum care that is provided to women is 24 hours, spread out in eight days. This results in three hours of care per day.)

	Expectations	Experiences	Reflections
Information provision	<p>“Yes I got a book [leaflet], but I did not read it, no.”</p> <p>Respondent #18 (postpartum)</p> <p>“Oh I was like “you have to”. [...] after the delivery everybody needs to go to a maternity</p>	<p>“You just notice that you just forget certain things very quickly [after previous postpartum period]. And then it is very nice to, at least if you have several children so to say, get a refresher course.”</p> <p>Respondent #12 (postpartum)</p>	<p>“Because you actually expect that she cares for the baby, because that is what postpartum care is known for. As you say, they also do medical things and you don’t realise that very easily. Measuring temperature, checking your wounds: they all do that too. And that is not</p>

care assistant or to a primary care birth centre or something.” Respondent #11 (postpartum) *(instead of receiving postpartum care at home, one may choose to receive it (partly) in a primary care birth centre)*

I: “And what information did you receive about postpartum care during pregnancy?”

R: “uhmm, yes quite a lot actually. [During the home visit] That it is really about mother and child, what they can do for you, what they can teach you. [...] they leave the choice to you. Like do you want it, or don’t you want it, what do you want, what don’t you want... It was enough, yes, they are very clear. [...] they recommend why you better do it. So actually, you get more good advice and it is up to you what you do with it.” Respondent #9 (postpartum)

really written down [in leaflets] or they don’t tell you much about [during the home visit].” Respondent #5 (pregnant)

“No I think eh... the amount [of the out-of-pocket payment] is not high. And eh, I don’t mind that very much. Only yes, I think it is quite absurd that they, that we need to pay for it actually. Because it seems logical to me that you get extra help after your delivery? And if only it is 24 hours so to speak and not the 49 hours: I think that everyone should be able to get postpartum care and that someone can afford the four-euros-something and others just can’t.” Respondent #10 (postpartum)

I: “and what did you find most important or the best thing about postpartum care?”

R: “first of all, what I’m saying now is really medical, because family cannot do that, sorry. Cleaning the house and other things is up to the woman... I don’t know. If my husband cannot take a holiday leave than I just asked a lot of hours of care, and it is still about the money, really, because the more you get the more you have to pay is my opinion.”

I: “So it is a trade-off?”

R: “yes a bit, because we are not sure how much we have to pay. And you know, my husband doesn’t earn that much etcetera, so we decided... made an agreement my husband and I... that if he takes a holiday leave, than he

	Expectations	Experiences	Reflections
			will do other things [cleaning the house, cooking]." Respondent #4 (postpartum)
Parenting self-efficacy	<p>I: "And what do think is the most important task of the maternity care assistant?" R: "Well, to meet the wish list of a woman." Respondent #15 (postpartum)</p> <p>"No, well I was always like "Guys, give me the minimum amount of postpartum care", purely for the check-ups and stuff like that, I like that, and for all the other things "Go home" you know. I will do my own stuff." Respondent #14 (pregnant)</p> <p>"I have, I have the feeling that I will only need help with running the household." Respondent #23 (pregnant)</p> <p>"Actually you want to do it yourself, but then I understand them [maternity care assistants] to come to you because yes, they have to care for you, they have to do medical check-ups: I don't know anything about that. So yes... That is why I used it, only for the medical thing and to check if I did anything wrong with the baby." Respondent #16 (postpartum)</p> <p>"Yes, if you experience your pregnancy as complicated, you take that into account as well a little, you know, it will be stuck in your head a little. And then uhm it makes you</p>	<p>R: [support with] uhm, really with groceries, and running the household, and also just bathing the baby, because at first I didn't dare to do that because she was really small." Respondent #6 (postpartum)</p> <p>"It is my second child, but I was just as insecure as with my first." Respondent #12 (postpartum)</p> <p>"And I'm quite scared if..., I'd rather not hold newborns, but yes, your own child will be [put] in your arms... You have to. And uh yes, I'm very clumsy. So I needed it [postpartum care]. And also, this is a boy, I [already] had a girl, so I really was like "Uhm?". Respondent #9 (postpartum)</p> <p>"Yes, no correct. No, you really need those hours [of postpartum care]. You just really need that time, and you will take that." Respondent #6 (postpartum)</p> <p>"Yes, Yes, I think so. Uhm, it is very important to get again as many tips and tricks as possible of how to deal with a baby and to get that fingerspitzengefühl [instinctive feeling] so to say." Respondent #12 (postpartum)</p>	<p>"Insecurity, and that remains the same, whether you became a mother at the beginning of it [just became a mother], or after four children: it is the same." Respondent #5 (pregnant)</p> <p>R: "Because she also comes from other work [at another family] and then she is going to work for three hours and then maybe she goes to another place [family]..." I: "So maybe you did not dare to ask that [for more postpartum care]?" R: "No I thought than we are going to screw things up or something like that...[laughs]. I thought never mind. But actually I wanted to add two more hours. I still thought that three hours went by too fast..." I: "so actually you would have preferred some more [postpartum care]?" R: "Yes, if only I had done that... but okay too bad." Respondent #4 (postpartum)</p>

doubt yourself, you know, if you are doing it the right way or not.”

Respondent #16 (postpartum)

“The help with the little one. And the tips, especially for your first [baby]. Yes, there are still, you notice, a lot of things, despite having experienced more children around you, that you just don’t know. You get so much information during that first week, that I said halfway through that week like ‘Uhm what have you told me already?’” haha. Luckily she also writes it down, but...”

Respondent #7 (postpartum)

“Yes, well, [help from social network] with cleaning I thought, you know, but not with the baby. I needed to learn a lot and I really wanted to ask somebody [maternity care assistant] that understands it.”

Respondent #8 (postpartum)

	Expectations	Experiences	Reflections
Social network	<p>“Yes well I don’t know. I uhm... My mother told me to do it anyway [utilise postpartum care]. And according to them [health care providers] it would be handy, so...”</p> <p>Respondent #17 (postpartum)</p>	<p>R: “yes she [midwife] completely agreed with me. She also said like “yes you don’t have to errr...” I have my daughter [teenager], and I have him [partner] here, you know, I have my neighbours here.”</p> <p>I: “Enough hands to help you?”</p> <p>R: “Yes, enough hands, you know, so I thought... and my parents and my sisters. So yes. In principle, I have a large network and that is why I am, I also said like “yes...” you know, to use so</p>	<p>R: yeah it is [postpartum care] really something essential in my... opinion. Because here in the Netherlands [it is] multicultural you know, you see many people without a family. For example my situation... And even if she has family, there are many things that are culture specific, and that goes wrong. Incorrect upbringing of the baby or something. That is why I think it is really important that every</p>

many hours of postpartum care is to bite off more than you can chew. That wasn't really an option, for me."

Respondent #16 (postpartum)

mother knows what is the right way and also to let her rest enough."

I: "yes, so what you actually are saying is very important, that culture, that sometimes it is not a regular thing, to have postpartum care."

R: "We [refers to own non-Dutch culture] really do weird things and that harms the baby and sometimes mother."

I: "Yes, so would you actually recommend everyone to use postpartum care?"

R: "Yes, definitely."

Respondent #3 (postpartum)

R: "I also expressed like "Guys, well, fine, the maternity care assistant visits me for the check-ups" [...] "Guys, can you do things better with a newborn? Eh, is the temperature correct, and the defaecation, is everything as it should be?"

Respondent #14 (pregnant)