Modeling Pathways to Describe How Maternal Health Care Providers’ Mental Health Influences the Provision of Respectful Maternity Care in Malawi

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Key Messages
- Without identifying and addressing burnout among maternal health (MH) providers, efforts to achieve respectful maternity care (RMC) will not be reached. Providers report being emotionally exhausted and depersonalizing their clients, and one-tenth experience depression, post-traumatic stress disorder (PTSD), or suicidal ideation.
- We found correlations between mental health factors and RMC. A path analysis indicates that emotional exhaustion and depression appear to directly influence RMC; PTSD and depression have secondary effects, which are mediated through exhaustion and depression.
- The path analysis also shows that having positive, supportive working relationships with facility managers is strongly associated with improved RMC. Moreover, positive working relationships may also protect MH providers against some of the more pernicious effects of burnout.

Key Implication
- Addressing burnout is critical to improving RMC in Malawi and elsewhere. Policymakers and health managers should recognize how burnout is shaped by providers’ day-to-day experiences, as well as coincident mental health conditions, including PTSD and depression.

ABSTRACT

Introduction: Maternal health (MH) providers may experience traumatic events, such as maternal or fetal death, that can contribute to stress and burnout. Past trauma, poor working relationships, and under-resourced environments not only affect providers’ own emotional well-being but also reduce their ability to provide respectful maternity care (RMC).

Methods: Data were collected in mid-2021 as a cross-sectional survey with 302 MH providers working in 25 maternities in 3 districts in Malawi to measure burnout, depression, and post-traumatic stress disorder (PTSD). We present a pathway model describing how these factors interact and influence RMC. We used the provider-reported person-centered maternity care scale to measure RMC; the Maslach Burnout Inventory, which examines emotional exhaustion, depersonalization, and professional accomplishment; and standard validated screening tools to measure the prevalence of depression and PTSD.

Results: Although levels of burnout varied, 30% of MH providers reported high levels of exhaustion, feelings of cynicism manifesting as depersonalization toward their clients (17%), and low levels of professional accomplishment (42%). Moderate to severe depression (9%) and suicidal ideation within the past 2 weeks (10%) were also recorded. Many (70%) reported experiencing an event that could trigger PTSD, and 12% reported at least 4 of 5 symptoms in the PTSD scale. Path analysis suggests that depression and emotional exhaustion negatively influence RMC, and depersonalization is mediated through depression. PTSD has no direct effect on RMC, but increased PTSD scores were associated with increased burnout and depression scores. Positive relationships with facility managers were significantly associated with increased RMC and decreased emotional exhaustion and depersonalization.

Conclusion: Burnout will continue to be a challenge among MH providers. However, pragmatic approaches for improving teamwork, psychosocial, and managerial support for MH providers working in challenging environments may help mitigate burnout, improve MH provider well-being, and, in turn, RMC for women seeking MH services.

INTRODUCTION

To optimize the performance, quality, and impact of a maternal health workforce, it is essential to understand the experiences of health care providers and challenges they may face. Maternal health (MH) providers...
often experience traumatic events, such as maternal or fetal death, that can cause them sadness and grief.1 Other critical incidents that are less serious than death can be mentally draining and disturb a provider’s sense of peace and purpose. Poor mental health, including poor working relationships and under-resourced environments, not only affects MH providers’ emotional health but also affects how they treat women during childbirth.2 Poor MH provider attitude is often cited as a reason why women may not seek care or delay seeking care at facilities. Over the last decade, this issue has gained increased focus, including how providers may at times fail to provide respectful maternity care (RMC), leading to poor birth outcomes.3,4

One of the documented driving factors that contribute to a lack of RMC is the challenge of providers working in a weak health system that is exacerbated by inadequate infrastructure (beds, space, and utilities), lack of appropriate equipment, medicines, and supplies, and an insufficient health workforce.3–6 Even when MH providers are present, many are unable to adequately attend births and provide quality care due to high client volume and/or staffing shortages. Delays in admission and incorrect assessment and treatment are contributing factors in many facility-based deaths.7 Midwifery and nursing staff are frequently reassigned or rotated to new wards or facilities, often replacing more experienced MH providers with new recruits or otherwise inexperienced staff.

Because of unpredictable client loads, understaffing, inexperience, and poor management, burnout among MH providers is common. Many consider labor and delivery unit assignments to be among the most stressful jobs in a health facility.1,8 This issue can be compounded by facility culture. When supervisors are not sufficiently accountable to their staff, MH providers do not receive essential skills updates and job support, lack the confidence to manage obstetric complications, and may fail to consistently follow standard procedures and guidelines.6,9,10

Burnout is a syndrome that develops in response to a health care provider’s daily experiences and can negatively impact provider motivation and the delivery of health services. Occurring at the confluence of economic, professional, and social barriers, burnout affects health care providers’ well-being and motivation and can lead to low-quality care.5,11 During a cocreation process in 2019 as part of the Advancing Postpartum Hemorrhage Care partnership, MH stakeholders identified factors such as MH provider motivation, psychosocial stressors, facility culture, and others that contribute to burnout as critical barriers to providing quality emergency obstetric care in Malawi. Nevertheless, burnout is overlooked in health care provider behavior change programming, including in programs that focus on improving the quality of RMC. Prior research suggests that burnout may compound performance issues, such as inadequate adherence to standard procedures,12 and subsequently exacerbate the mistreatment of women, failure to detect and treat complications, and ultimately increase maternal morbidity and mortality.4,13

The Maslach Burnout Inventory (MBI) was originally developed in 1986 and has since become a standard measure of burnout among health care professionals. The MBI has undergone extensive validation and has been cited in more than 1,000 studies across high, middle- and low-income countries and with a wide array of health care provider cadres.14 The MBI comprises 3 dimensions: emotional exhaustion, depersonalization, and professional accomplishment.14

As measured by the MBI, burnout is characterized by high levels of emotional exhaustion, depersonalized attitudes toward clients, and low professional accomplishment. A systematic review published in 2018 indicates that health care providers throughout low- and middle-income countries throughout Asia, Europe, Latin America, Middle East/North Africa, and sub-Saharan Africa experience 1 or more of these aspects of burnout on a regular basis.15 In Malawi, studies using the MBI have shown that burnout is particularly prevalent among maternal health staff who experienced burnout more frequently than colleagues working in other medical settings.8 Burnout was also found to be associated with self-reported suboptimal care provision and attitudes among HIV service providers.12 Studies using the MBI in other countries have shown associations between burnout and staff turnover or intention to quit,16 suicide,17 a reduction in perceived quality of service delivery and objective client safety.12,18,19

In addition to burnout, depression and PTSD are notably prevalent in health care providers worldwide, especially in resource-limited settings.20 Burnout, typified by emotional exhaustion and depersonalization, often co-occurs with PTSD and depression, forming a triad that significantly impacts health care delivery and the lives of health care workers.21–23

In low-resource regions like sub-Saharan Africa, the occurrence of PTSD and depression among health care providers is concerning.24 These mental health disorders can be driven by the high-stress
nature of their work, insufficient staffing or supplies, and exposure to traumatic events, common in areas with high maternal mortality rates. The co-occurrence of these disorders with burnout further exacerbates the challenges, leading to reduced personal accomplishment, decreased productivity, and suboptimal client care.

To form a more holistic picture of mental health status among Malawian MH providers and develop a better understanding of how these mental health issues are interrelated, we included 2 additional measures: the Patient Health Questionnaire-9 (PHQ-9), a 9-item screening tool for major depression, and the 5-item Primary Care PTSD Screen for DSM-5 (PC-PTSD-5).

This article seeks to expand the literature on factors related to MH provider burnout and self-reported RMC to improve understanding of barriers to providing quality obstetric care. Our objectives were to (1) measure depression, PTSD, emotional exhaustion, depersonalization, and personal accomplishment among providers working in maternity units in Malawi; (2) assess MH provider self-reported levels of RMC; and (3) develop a pathway model to help examine the interaction of factors that affect MH provider mental health and RMC.

**METHODS**

**Study Context**

This study is part of a larger implementation research portfolio supported by the U.S. Agency for International Development through the Advancing Postpartum Hemorrhage Care partnership in Malawi. The partnership includes the Population Council’s Breakthrough RESEARCH project and the HEARD Project at University Research Co., as well as Kamuzu University of Health Sciences and Reproductive Health Directorate at the Ministry of Health (MOH) in Malawi. Representatives of the Malawi Safe Motherhood Technical Working Group, chaired by the MOH, convened with other MH stakeholders to explicate contextually relevant research priorities on improving prevention, early detection, and management of postpartum hemorrhage across different facility levels and districts. Although several other studies have reported the co-occurrence of health care provider burnout, depression, and PTSD during the COVID-19 pandemic, this article may be the first to present data collected in sub-Saharan Africa or from MH providers.

**Study Setting and Data Collection**

We used data from a cross-sectional survey with MH providers working in maternity units in Malawi. After consultation with the MOH and a bilateral maternal and newborn health care and health systems strengthening activity supported by the U.S. Agency for International Development, 25 health facilities were purposively selected from 4 districts in central and southern Malawi (Dowa, Balaka, Lilongwe, and Zomba). Each facility conducted at least 25 deliveries per month and included 11 primary health care centers, 11 community or rural hospitals, and 3 district or referral hospitals.

Between April and May 2021, data were collected from 302 MH providers from the 25 selected facilities. Due to the small number of MH providers available and high turnover, the research team attempted to interview all eligible MH providers in the targeted facilities. Eligible MH providers were physicians, obstetricians, clinical officers, nurses, midwives, and nurse midwife technicians who worked in or supervised the maternity unit of one of the 25 study facilities.

All participants were aged at least 18 years and provided verbal consent. Research staff obtained lists of MH providers from facility administrators and contacted the providers by phone, invited them to participate, obtained informed consent, and coordinated a convenient time and private place to complete the survey.

Because data collection occurred during the early phases of the COVID-19 pandemic, all surveys were conducted by telephone to limit the risk of COVID-19 transmission. Each survey lasted 40–50 minutes and was conducted in English or Chichewa. The Midwifery Department at Kamuzu University of Health Sciences coordinated the data collection team and set up a call center in Lilongwe to complete all provider surveys; comprehensive COVID-19 prevention procedures were used to avoid disease transmission between data collectors at the call center.

During the phone-based surveys, the interviewer entered MH providers’ responses directly into electronic survey forms. Questions included not only providers’ direct knowledge about how to properly manage an obstetric emergency, including postpartum hemorrhage, but also self-reported experience of providing RMC and behavioral factors that could influence their ability to respond to an obstetric emergency, such as MH providers’ experiences interacting with supervisors or facility management, stressors and burnout, traumatic events, PTSD, and depression.

**Measures**

The primary outcome of interest in this analysis is MH providers’ self-reported provision of RMC. To
Influence of Provider Mental Health on Respectful Maternity Care

To measure RMC, we used the 9-question provider-reported person-centered maternity care (PCMC) scale.29 Each question uses a 4-part Likert response set—ranging from “no, never” to “all the time”—to examine a specific behavior related to the delivery of RMC. Supplement 1 provides the full set of questions.

This recently developed measure is derived from the well-established client-reported 30-item PCMC scale, in which scores indicating more respectful care have been associated with reduced rates of maternal depression, as well as maternal and newborn complications, which has shown associations. In 2021, Afulani et al. published research describing the validation of this instrument in Kenya and Ghana. Factor analysis results from this study indicate a unidimensional factor structure; all 9 items had acceptable loading scores (>0.3) and internal reliability (Cronbach’s α=0.72).30 The distribution of responses collected using the provider-reported PCMC scale was generally consistent with clients’ responses to corresponding questions in the PCMC scale.30 For clarity, we will continue to use RMC when discussing PCMC scores, as RMC is the construct measured by this scale.

To assess MH provider well-being and mental health, we used 3 different measures: the MBI, depression scales, and PTSD scales. The MBI has a 3-factor structure comprising: emotional exhaustion (9 items, range: 0–54), depersonalization (5 items, range: 0–30), and professional accomplishment (8 items, range: 0–48). Each item in the MBI uses a 7-part set of Likert-scaled response options ranging from “never (0)” to “every day (6)” (Supplement 2). Since its creation in 1986, the MBI has been used to measure burnout among health care providers around the world. Initial validation studies indicate acceptable (α>0.7) for all factors; however, some studies have indicated lower reliability of depersonalization. Test-retest reliability was lowest for depersonalization and highest for emotional exhaustion.

To create the initial descriptive tables, we used the methods recommended by Maslach and Leiter to set population-standardized thresholds for each of the 3 subdomains14: (1) an emotional exhaustion score of 22 or higher indicates high levels of exhaustion; (2) a depersonalization score of 10 or higher indicates high levels of cynicism, and (3) a professional accomplishment score lower than 38 indicates low levels of professional accomplishment.

To examine the co-occurrence of depression and PTSD among MH providers, we included the PHQ-9 depression screening tool and the PC-PTSD-5 screening tool. The PHQ-9 comprises 9 questions that measure the frequency that respondents have experienced key features of depression during the preceding 2 weeks (Supplement 3). The PHQ-9 has been extensively validated in various populations,27 including sub-Saharan Africa. In a study conducted in Nigeria, the PHQ-9 demonstrated good internal consistency with a Cronbach’s alpha coefficient of 0.85, good test-retest reliability (r=0.89), and high sensitivity (0.85) and specificity (0.994) in detecting severe depression using a cutoff score of 10.31 Each question uses a 4-part set of Likert-scaled responses, ranging from “not at all (0)” to “nearly every day (3).” A total score of 10 or higher is indicative of moderate to severe depression or depression that warrants a treatment plan that may include medication.

The PC-PTSD-5 (Supplement 4) is a 6-item screening tool designed to identify individuals with PTSD. The first item establishes whether the respondent has previously had exposure to traumatic events. The remainder of the tool comprises 5 yes/no questions that assess how the traumatic events have affected the respondent during the past month. Prior validation work indicates that this screening tool has excellent diagnostic accuracy. One study showed that a cutoff of 4 provides exceptional sensitivity (100%) while preserving acceptable specificity (85%).32 In some settings, a score of 3 or higher may be indicative of PTSD.28

Finally, to examine facility culture, influence of MH provider behavior, and the relationships between providers and their managers, we used a 15-item bank of validated questions. Questions include manager treats me with kindness and consideration, makes job decisions in an unbiased manner, treats me with dignity and respect, discussions implications of decisions with me, allows staff to appeal or challenge job decisions, deals with me in a truthful manner, frequency of supervision, opportunities for attending training updates and promotion.33

Path Analysis

The purpose of this exploratory analysis was to propose a model that shows how multiple interconnected mental health factors influence a provider’s delivery of person-centered, respectful care in maternity settings. We began by generating basic descriptive statistics for each of the 7 measures examined, after which we used Cronbach’s alpha to assess internal consistency of each validated scale among this sample of MH providers, setting
showed minimal direct or indirect effects on RMC

The final stage of our analysis was the iterative development and refinement of a path diagram to describe relationships between emotional exhaustion, depersonalization, professional accomplishment, depression, PTSD, the management inventory, and the provision of RMC. Path analysis is a tool used to understand potential causal pathways between explanatory variables and an outcome using correlational data. The path diagram is a depiction of those relationships. To this end, we specified PTSD and management inventory scores as exogenous variables in the path diagram, as both are predicated on specific experiences independent of the MH provider’s self-perceived mental health status or ability to deliver care. PTSD originates from prior experience of a traumatic event or series of traumatic events; the management inventory scores are dependent on the MH provider’s interactions with their supervisors and facility management structures.

Conversely, emotional exhaustion, depersonalization, and depression were specified as intermediate endogenous variables, as they represent an MH provider’s internal and subjective experience of a range of unmeasured external factors. We specified a unidirectional path from the exogenous PTSD and management inventory variables to the RMC outcome variable, specifying both direct relationships between these variables and pathways between these variables that operate through the intermediate MBI-EE, MBI-DP, and depression variables. As the emotional exhaustion and depersonalization inventories were developed together to measure co-occurring aspects of burnout, we permitted the correlation of error terms between these variables in the final path diagram.

After initial model specification, we iteratively refined connections between variables, pruning those that did not add significant explanatory power to the path diagram or those that significantly reduced model fit. Goodness-of-fit for the final model was tested using the likelihood ratio (P > 0.05), standardized root mean square residual (< 0.8), root mean square of error approximation (< 0.05), comparative fit index (> 0.9), and Tucker-Lewis Index (> 0.9). Professional achievement showed minimal direct or indirect effects on RMC and was ultimately excluded from the final path model. All analyses were completed using Stata 14.0.

**Ethical Approval**

Ethics approval was obtained from Population Council’s Institutional Review Board #910 and College of Medicine Research and Ethics Committee, Kamuzu University of Health Sciences, Malawi #2822.

**RESULTS**

**MH Provider Characteristics**

The characteristics of the MH providers are presented in Table 1. Just more than half of providers (52%) worked in rural or community hospitals; one-quarter worked in primary health care centers, and the remaining 23% worked at 3 district or referral-level facilities. MH providers interviewed were nurse-midwife technicians (59%), registered nurses or midwives (24%), physicians or clinicians (10%), and community midwife assistants (7%). While the majority of study participants were female (70%), males were over-represented among physicians and clinicians, comprising nearly two-thirds (65%) of this cadre. Only 26% of registered nurses and midwives, 28% nurse/midwife technicians, and 10% of community midwife assistants were male (data not shown).

Approximately half of MH providers interviewed were aged 20–29 years, and over three-quarters (78%) had at least 3 years of experience as a provider. Participants reported working across multiple departments within the maternity unit. Nearly three-quarters of MH providers said they worked in labor and delivery; one-third said they worked in the postnatal ward and/or maternity admissions. Fewer MH providers worked in the antenatal ward (22%) or cared for newborns (13%). Table 1 also describes providers self-reporting on their current mental health status. Around 30% of MH providers reported being exhausted, 17% reported depersonalizing or feeling cynical toward their clients, and 42% reported low levels of professional accomplishment.

The Cronbach’s alpha for the emotional exhaustion, depersonalization, professional accomplishment, and PHQ-9 scales were α = 0.711, α = 0.588, α = 0.727, and α = 0.828, respectively (Table 2). Scores on the PHQ-9 depression scale of 10 or higher are indicative of moderate to severe depression or depression that would warrant medication as part of a comprehensive treatment plan. While nearly 9% of participants had scores consistent with moderate to severe depression, 60% of the 165 participants who...
reported any depressive symptoms said that their symptoms made their work at least somewhat more difficult (data not shown). And 10% reported suicidal ideation within the past 2 weeks.

Most participants (70%) reported experiencing an event that could trigger PTSD, and 12% reported experiencing at least 4 of the 5 PTSD symptoms listed in the PC-PTSD-5 screening questionnaire. The alpha for the 5-item assessment ($\alpha=0.678$) is adequate but below the ideal threshold of 0.7. Lower internal reliability scores for both depersonalization and PTSD are consistent with prior research\textsuperscript{8,12} and suggest that these measures may function differently in Malawi.

### Associations Between Mental Health and RMC

**Figure 1** shows the relationship between each measure and MH provider-reported RMC scores. Depersonalization, emotional exhaustion, and depression scores all showed significant inverse correlations with RMC, suggesting that depression, exhaustion, and depersonalization may have a negative influence on the provision of RMC. By comparison, these data suggest that as scores for both the management inventory and professional accomplishment rose, so did RMC scores. Both factors exhibited a significant positive correlation with RMC scores. However, PTSD did not appear to be directly associated with RMC scores.

**Figure 2** depicts associations between mental health factors and management inventory scores. Here, we examine how MH providers’ mental health scores changed as management inventory scores increase. As seen with RMC scores, MBI-DP, MBI-EE, and depression all show a significant inverse relationship with management inventory scores: as management inventory scores increased, MBI-DP, MBI-EE, and depression scores all decreased. However, neither PTSD nor professional accomplishment scores were significantly correlated with management inventory scores.

**Table 3** shows significant intercorrelation among nearly all measures captured in this survey. Although only PTSD scores were not significantly correlated with RMC, PTSD scores were correlated with emotional exhaustion ($p=0.167$, $P=.003$), MBI-DP ($p=0.167$, $P=.003$), and depression ($p=0.335$, $P<.001$), suggesting that these factors may act as mediators for the effects of PTSD on RMC.

### Path Analysis: Associations Between Mental Health, Protective Factors, and RMC

Finally, we used path analysis to generate a model that describes how interrelated aspects of an MH
provider’s mental health status might affect their delivery of RMC to women in the maternity unit. The final path diagram (Figure 3) corroborates the first-order effects observed between emotional exhaustion, depression, and management inventory that have direct relationships with RMC scores. Both emotional exhaustion and depression had significant and detrimental effects on MH providers’ reports of RMC ($\beta=-0.13$ SD, $P=.031$ and $\beta=-0.14$ SD, $P=.013$, respectively), while MH providers’ relationships with management had positive effects on RMC.

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<th>TABLE 2. Mental Health Measures Among Maternal Health Providers in Malawi</th>
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<td>MBI–emotional exhaustion</td>
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<td>Perceptions of respectful care</td>
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Abbreviations: MBI, Maslach Burnout Inventory; N/A, not applicable; PTSD, post-traumatic stress disorder; PHQ, Patient Health Questionnaire; RMC, respectful maternity care; SD, standard deviation.

FIGURE 1. Associations Between Maternal Health Provider-Reported RMC Scores and Other Mental Health Factors, Malawi

Abbreviations: PHQ-9, Patient Health Questionnaire-9; PTSD, post-traumatic stress disorder; RMC, respectful maternity care.
The model also shows additional mediated effects on RMC. These are factors that do not directly influence RMC but are secondary correlates of depression and emotional exhaustion that may exacerbate these conditions and influence RMC indirectly. In this analysis, we found that depersonalization strongly influenced depression. For every standard deviation increase in depersonalization scores, depression increased by 0.37 SD (P < .001), which yields reduced RMC scores (β = −0.052, P = .017). PTSD had a significant association with depersonalization (β = 0.17, P = .003), depression (β = 0.27,
$P<.001$) and emotional exhaustion ($\beta=0.17$, $P=.003$). A mediation analysis of these relationships suggests that PTSD has significant ($\beta=-0.068$, $P=.002$) nonspecific effects across numerous aspects of an MH provider’s mental health and well-being.

Despite the detrimental effects of increased levels of PTSD, depersonalization, emotional exhaustion, and depression on RMC (using the PCMC score), we found that an MH provider’s relationship with the facility management—that is, how the facility management supports their staff, whether they are perceived as making fair decisions, and how they involve MH providers in decision-making processes—can have a powerfully protective effect in this situation. Not only do positive, supportive relationships with facility management show a direct, positive association with PCMC ($\beta=0.163$, $P=.004$), but also positive relationships with facility management also appear to mitigate the effects of both depersonalization and emotional exhaustion, yielding a significant mediated effect on RMC ($\beta=0.043$, $P=.008$). We used several indices to assess goodness of fit of the path
model.34,35 The likelihood ratio was nonsignificant ($P = 0.95$), root mean square of error approximation was below 0.06, standardized root mean square residual was below 0.8, and both comparative fit index and Tucker-Lewis Index were above 0.9. Thus, all relevant indices suggest close model fit. However, since cross validation was not performed with the available data, model overfitting is a possibility.

**DISCUSSION**

This exploratory analysis of data from a cross-sectional survey with MH providers in Malawi examines their well-being and mental health in relation to self-reported RMC. We used the MBI, PHQ-9, and PC-PTSD scales to assess MH provider well-being, and the provider-reported PCMC scale to measure RMC. So, as was shown in the initial analysis of correlations, despite the limited explanatory power of any 1 measure, we were able to present a pathway that describes some of the complex interconnections between these factors that ultimately influences a provider’s delivery of RMC.

Specifically, it appears that high scores of emotional exhaustion and depression may have a detrimental effect on MH providers’ reported ability to deliver RMC. But also, while depersonalization does not directly influence RMC, it may contribute to the effects of depression or have second-order effects on RMC that are otherwise mediated through RMC. Likewise, emotional exhaustion, depersonalization, and depression may act as mediators for the effects of PTSD on RMC. If an MH provider feels supported by their supervisors (i.e., various aspects of the facility management), this has a mediating effect on both depersonalization and emotional exhaustion, as well as showing a direct, positive association with RMC.

While it is not surprising to find that MH provider mental health influences RMC provision, there are limited studies demonstrating a clear pathway in a low-income country like Malawi. While our data are cross-sectional and vastly insufficient to indicate causality, this path model does suggest some directionality of effects within the context and confines of our dataset; we need to exercise caution in this interpretation. For instance, the relationship between depersonalization and depression may, in fact, run the opposite direction. However, in the context of the other variables included in the model, we see that depression has a direct influence on RMC, while the effects that depersonalization has on RMC are mediated through depression. Thus, despite the limitations of our data and lack of temporality, the structure of the interactions within the model suggests that burnout may be a contributing factor to depression. In fact, these findings are supported by prior longitudinal research findings from Finland, which suggest burnout may indeed be antecedent to depression.36

While further research is needed to improve generalizability and further develop this model of provider mental health, our findings contribute to the growing body of literature on the need to understand the situation from the health workers’ viewpoints to inform policy and practice. Indeed, the idea for this analysis originated with a request from MH providers and researchers in Malawi who have long recognized the challenges faced by those working in under-resourced facilities.8,37

Several studies have explored health care worker behavior using a variety of scales and inventories in sub-Saharan Africa. For example, 1 study investigated the work environment that promotes motivation and performance of midlevel providers in Malawi using the MBI as well as the Healthcare Providers Work Index. Midlevel providers generally perform tasks usually associated with more highly trained workers. McAuliffe et al. found that more than 30% scored high on emotional exhaustion—similar to our findings.38 However, this study found higher depersonalization (17%) and lower personal accomplishment (42%) than McAuliffe et al., 5% and 27%, respectively. The Healthcare Providers Work Index described by McAuliffe has 4 subscales, and each was found to correlate with higher MBI scores.

Where the work environment was inadequately resourced, providers often felt more emotionally exhausted, and those who felt they had poor management support were more likely to seek other employment. Job satisfaction also plays an important role in provider performance.39 While compensation is a significant predictor of job satisfaction among providers, McAuliffe’s work showed that rather, “satisfaction with current work assignments” was often the strongest correlate of overall job satisfaction. Poor relations with management and perceptions of unfair or inequitable treatment undermined job satisfaction and performance among midlevel providers in Malawi. Elsewhere it has been found that where providers have agency to make decisions, work as a team to share workload, and have a supportive management structure, they were able to overcome structural deficiencies (inadequate equipment, supplies, and space) to provide quality care.39

A more recent study in Kenya and Ghana found that perceived stress and burnout were

It appears that emotional exhaustion and depression scores may have a detrimental effect on MH providers’ reported ability to deliver RMC.
critical factors associated with self-reported RMC, highlighting the need to mitigate stress among MH providers working in a challenging health system. Work conditions were also assessed, including satisfaction, perceived stress, burnout, working relationships, and hours worked. Perceived stress was measured using the 10-item Cohen perceived stress scale, and burnout was measured using the 14-item Shirom-Melamed Burnout Measure.

Over the last 1 to 2 decades, work has been done on addressing barriers to quality midwifery care and MH provider stress; however, interventions on how to support providers working in challenging settings are not widely known or used. The experiences and needs of MH providers are often overlooked, with limited understanding of how the health facility culture influences the quality of care. This includes understanding MH providers’ overall well-being given their often overwhelming responsibilities in providing care in low-resource settings, with inequitable and poor remuneration and inadequate supervision. Our data resonate with several studies in sub-Saharan Africa, whereby providers say they are actively seeking alternative employment.

From a health care provider’s point of view, it is important to understand the context of their work environment and how it might affect their service delivery. The experience of MH providers, caught between an unsupportive system and dissatisfied women, has been documented as an underlying factor in the persistence of disrespectful or poor person-centered care. Health care providers often face a moral dilemma in not being able to offer quality care because of a lack of resources and limited psychological support, which may contribute to higher stress and burnout. In a global World Health Organization consultation of midwives, a significant number of African midwives described feeling disrespected in the workplace, and 53% said they would value being listened to.

Midwives need to be appropriately resourced and equipped with the right skill set and authorized with the right scope of practice. A study in Kenya also found that facility working relationships and environment not only impact maternity providers’ emotional health (including burnout) but also can drive poor provider-client interactions and affect women’s care. Moreover, the same study found that dissatisfaction with unresponsive management related to perceptions of fair job promotion led to demotivated health workers.

Understanding factors that influence provider behavior (normative, structural, and behavioral) and developing pragmatic approaches to alleviate some of them may lead to improved quality of care, including more RMC. A multipronged approach is required, including empowering MH providers to deal with difficult situations and providing opportunities, such as providing group and individual counseling services, to help them overcome experiences related to high workload, trauma, or critical incidents. To be effective, interventions that are designed to promote MH provider behavior change must encourage an understanding of any entrenched attitudes, what motivates providers, values, and other more normative factors that drive how providers interact with clients, colleagues, and managers within the health system.

Limitations
Our study had several limitations. First and foremost, this analysis is exploratory and is intended as a starting point for developing testable hypotheses by illustrating a plausible network of interacting mental health and experiential factors that influence a specific behavioral outcome—the provision of RMC. While our results do indeed show that results show a possible pathway for influencing RMC, there is a wide array of potentially influential factors that were not captured in our data or included in the model, and ultimately, the validity of our findings may be limited only to the context of the data collected.

First, data collection for this study was conducted over the telephone during an exceptional time period: the COVID-19 pandemic. While the Malawi MOH did enact supportive policies, such as permitting a companion of choice to accompany a mother to the labor and delivery and attempting to ensure health facilities were well supplied with personal protective equipment, MH providers informally described working even longer hours than usual, being short staffed as colleagues were shifted to COVID-19 response centers and being persecuted within their communities for fear of contagion. So, while conducting interviews by telephone might have altered a participant’s willingness to answer uncomfortable questions, the pandemic itself certainly amplified the difficult working conditions and other stressors experienced by MH providers and presented unprecedented challenges to even the most basic interactions between medical staff and their clients.

Unfortunately, as we did not capture comparable data before the pandemic, we are unable to assess the effects of the pandemic itself on MH providers’ emotional well-being. Social desirability bias related to MH providers reporting their
influence of provider mental health on respectful maternity care. www.ghspjournal.org

Supportive relationships with facility managers suggest from the data presented here is that positive, respectful care, then programs that support this objective must also be provider centered. It is of paramount importance to not only measure and address burnout but also address the constellation of mental health factors that influence how MH providers interact with their world. While considerable work is needed to destigmatize and expand treatment for diagnosable mental health conditions like depression and PTSD, a clear message from the data presented here is that positive, supportive relationships with facility managers that make MH providers feel seen and appreciated not only reinforce RMC but may protect against some of the more pernicious effects of burnout. Pragmatic approaches for improving teamwork, psychosocial, and managerial support for MH providers working in challenging environments may go a long way to mitigate burnout, improve MH provider well-being and, in turn, improve RMC for all women seeking MH care.

Acknowledgments: We wish to acknowledge the broader collegial Advancing Postpartum Hemorrhage Care Partnership, including colleagues from University Research Co. (Health Evaluation and Applied Research Development [HEARD] Project), and the University of California, San Francisco (HEARD Project), and members of the Safe Motherhood Technical Working Group chaired by the MOH Malawi. We also thank the many providers who gave their time to be interviewed.

Funding: This article is funded by the U.S. Agency for International Development under a cooperative agreement with Breakthrough RESEARCH (AID-OAA-A-17-00018).

Disclaimer: The contents of this document are the sole responsibility of Population Council and do not necessarily reflect the views of the U.S. Agency for International Development or the U.S. Government.

Author contributions: CEW, BZ, and AK: conceptualization. AK, MK, FC, EM, and AM: investigation and data curation. BZ, CEW, AK: formal analysis. CEW and BZ: writing—original draft. AK, FC, EM, AM, and MK: contributed to results interpretation and writing—review and editing. All authors reviewed and agreed on the final article. All authors are part of the Advancing Postpartum Hemorrhage Care partnership.

Competing interests: None declared.

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CONCLUSION

If a goal for MH providers is to deliver person-centered, respectful care, then programs that support this objective must also be provider centered. It is of paramount importance to not only measure and address burnout but also address the constellation of mental health factors that influence how MH providers interact with their world. While considerable work is needed to destigmatize and expand treatment for diagnosable mental health conditions like depression and PTSD, a clear message from the data presented here is that positive, supportive relationships with facility managers...

