FACTORS INFLUENCING EXPECTANT MOTHERS’ CONTINUED USE OF DIGITAL HEALTH INFORMATION

Faktor-Faktor yang Mempengaruhi Kelanjutan Penggunaan Informasi Kesehatan Digital oleh Ibu Hamil

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Abstract

Background: Expectant women receive healthcare education at antenatal care (ANC) clinics, but it is noteworthy that expectant mothers tend to seek information from various sources beyond their primary healthcare providers.

Aims: The study aims to investigate determinants influencing expectant mothers’ continuous use of digital media for pregnancy information.

Methods: The study involves participants of expectant women who attend ANC clinics in five municipal hospitals. The hypotheses were tested with 580 responses using Structural Equation Modeling (SEM) via SmartPLS version 4.

Results: The findings revealed that social media healthcare information usage, perceived severity, and emotional support on social media influence expectant mothers’ decisions to continue using digital media for healthcare purposes. However, the effect of perceived vulnerability on social media healthcare information usage was insignificant.

Conclusion: This study concludes that expectant mothers will continue to adopt digital platforms to access healthcare information. The findings provide recommendations to help healthcare providers advance antenatal care.

Keywords: emotional support, healthcare, expectant women, SMHIC, social media

Abstrak

Latar Belakang: Wanita hamil menerima pendidikan kesehatan di klinik perawatan antenatal (ANC), namun perlu diperhatikan bahwa ibu hamil cenderung mencari informasi dari berbagai sumber di luar penyedia layanan kesehatan utama mereka.

Tujuan: Tujuan dari penelitian ini adalah untuk meneliti faktor-faktor penentu yang mempengaruhi penggunaan media digital secara terus-menerus untuk informasi kesehatan oleh ibu hamil.


Hasil: Temuan ini mengungkapkan bahwa penggunaan informasi layanan kesehatan di media sosial, persepsi tingkat keparahan, dan dukungan emosional di media sosial memengaruhi keputusan ibu hamil untuk terus menggunakan media digital untuk tujuan layanan kesehatan. Namun, pengaruh persepsi kerentanan terhadap penggunaan informasi layanan kesehatan di media sosial tidak signifikan.

Kesimpulan: Studi ini menyimpulkan bahwa ibu hamil akan terus mengadopsi platform digital untuk mengakses informasi kesehatan. Temuan ini memberikan rekomendasi untuk membantu penyedia layanan kesehatan meningkatkan layanan antenatal.

Kata kunci: dukungan emosional, ibu hamil, kesehatan, media sosial, SMHIC
Introduction

Pregnancy is a moment of transformation that may be both gratifying and stressful (Downe et al., 2018). It is a period of change that brings physical and emotional challenges to expectant women (Smith et al., 2020).

In order to increase the likelihood of a good pregnancy and delivery, it is imperative that expectant women have access to relevant health information (Ngozi, Anasi, and Allison, 2018). Expectant women have a lot of responsibilities since their mental and physical situations are unique (Hamzehei et al., 2018). Per the nature of their condition, they require a lot of information about pregnancy and childcare. Expectant women experience a period of profound change on all fronts, including physical, social, and psychological changes (Özkan, Şengül and Sözbir, 2021). Expectant women attach great importance to the timely availability of information, as they often experience an urgent need to obtain knowledge, especially concerning the well-being of their developing fetus (Jaks et al. 2019). Given the multifaceted physiological transformations that transpire during pregnancy, it is essential that expectant mothers receive adequate care from healthcare professionals in an accredited health facility. One of the facilities that has been designated for healthcare education for expectant women is the Antenatal Care (ANC) Clinic.

Notwithstanding, there are other means, including digital sources, that expectant mothers use to obtain healthcare information. The new digital media available has provided new avenues for the dissemination of healthcare information (Ofori, Antwi, and Owusu-Ansah, 2021; Ofori and Wang, 2022). A recent study shows that digital sources are among the most popular types of information sources utilized by expectant women (Harpel, 2018; Broeke et al., 2022). Investigations revealed that diverse determinants significantly impact users' decisions to adopt social media platforms (Ofori and Oduro-Asante, 2022; Ofori, 2023a).

Studies show that expectant women adopt digital health for various purposes (Hamzehei et al., 2018; Harpel, 2018; Broeke et al., 2022; Damayanti et al., 2022). However, little has been done when it comes to combining the use behavior construct of the Unified Theory of Acceptance and Use of Technology (UTAUT) model, emotional support of the Social Support Model, and threat appraisal of the Protection Motivation Theory (PMT) to study expectant women’s health.

The overarching aim of this study is to determine the factors that influence expectant women’s continued usage of digital healthcare information, especially with regard to social media platforms. This research assesses expectant women's persistence in using social media healthcare information through emotional support on social media, social media healthcare information usage, perceived vulnerability, and perceived severity. Considering the above review, we hypothesized the following:

H1: Emotional support received on digital platforms has a significant effect on the continued usage of digital platforms.

H2: Social media healthcare information usage influences expectant women's decision to continue digital platform usage.

H3: Perceived vulnerability relates positively to the continuance usage of social media for healthcare information.

H4: Perceived severity has a significant influence on the continuance of usage of social media healthcare information

Method

This study utilized the quantitative research method, employing a questionnaire as the primary instrument for data collection. Convenience sampling was used to select participants for the study and the data collection period spanned from May to August 2022. To validate the social media healthcare information continuance (SMHIC) usage model, the study targeted participants from five hospitals located in the Greater Accra region of Ghana. These facilities include Lekma Hospital, Police Hospital, Pentecost Hospital Madina, St.

Factors Influencing Expectant...
The participants selected for this study consisted of expectant women who were receiving prenatal care and possessed the ability to read and write. To ensure compliance with ethical standards, the researchers obtained approval from both the Ghana Health Service Ethics Review Committee (GHSERC:001/01/22) and the hospital authorities. The survey was initiated by providing expectant women with information regarding the purpose and scope of the study. Subsequently, those who expressed their willingness to participate were provided with a consent sheet for endorsement. The questionnaire was either administered by the principal investigator or the field agents. Upon completion, participants were presented with a token package of three pieces of bar soap.

The questionnaire was divided into two sections. The initial part consisted of demographic data, while the subsequent section comprised questions pertaining to the constructs used in this research. The study used a model consisting of five variables, comprising four exogenous constructs and one endogenous construct. The model was assessed using 18 measurement items, excluding all demographic variables. The ESPSM items were adapted from the work of Lin, Wang and Hajli (2019), the SMHIU items were from Venkatesh et al. (2003) and Puspitasari and Firdauzy (2019). Additionally, the SMHI items were developed based on items from Chiu, Cho and Chi (2020), while the PS and PV were adapted from Jun, Park and Cho (2019) and Shatta et al. (2020). The question from the second section used a five-point Likert scale, where one (1) indicated strongly disagree and five (5) represented strongly agree.

The concepts of the study were explained as follows: Emotional support on social media refers to the extent to which expectant women regard digital platforms as providing a valuable chance to receive care and attention from other users. Social media healthcare information usage is explained as the utilization of digital platforms by expectant women to manage their pregnancy through accessing healthcare-related information. Perceived vulnerability is explained as the expectant woman's assessment of the likelihood of encountering a possible risk during the course of her pregnancy. Meanwhile, perceived severity refers to the degree of intensity associated with the potential risks of pregnancy for the overall well-being of expectant women. The continued use of healthcare information on social media is explained as expectant women's persistent use of digital health information.

Hypotheses were formulated, proposing that ESPSM, SMHIU, PS, and PV would exert an influence on SMHIC. This implies that the variables ESPSM, SMHIU, PS, and PV are expected to have a statistically significant positive impact on the dependent variable SMHIC.

The data was analyzed employing the SmartPLS. To evaluate the measurement and structural models, the researchers conducted an analysis of convergent validity (CV), internal consistency reliability, and discriminant validity (DV). The assessment of the CV was conducted by utilizing the outer loadings and average variance extracted (AVE). According to the recommendations put forward by Hair et al. (2013), it is advised that the outer loadings values should be equal to or more than 0.70. Additionally, Hair et al. (2017) indicate that the average variance extracted (AVE) should be at least 0.50. Once again, the researchers employed composite reliability and Cronbach's alpha as measures of internal consistency reliability, with a recommended threshold value of > 0.70.

In addition, the assessment of discriminant validity (DV) was conducted by utilizing the heterotrait-monotrait ratio test (HTMT), with a recommended threshold of less than 0.9, as suggested by Henseler, Ringle and Sarstedt, (2015).
Table 1. Results of demographic characteristics

<table>
<thead>
<tr>
<th>Variables</th>
<th>Category</th>
<th>Frequency</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age Group</td>
<td>18-25 year</td>
<td>107</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>26-30 year</td>
<td>260</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>31-40 year</td>
<td>207</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>41 year and above</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>580</td>
<td>100</td>
</tr>
<tr>
<td>Educational Level</td>
<td>High School</td>
<td>246</td>
<td>42.4</td>
</tr>
<tr>
<td></td>
<td>Diploma</td>
<td>119</td>
<td>30.5</td>
</tr>
<tr>
<td></td>
<td>Degree</td>
<td>177</td>
<td>20.5</td>
</tr>
<tr>
<td></td>
<td>Postgraduate</td>
<td>19</td>
<td>3.3</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>19</td>
<td>3.3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>580</td>
<td>100</td>
</tr>
<tr>
<td>Pregnancy Stage</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; Trimester</td>
<td>151</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; Trimester</td>
<td>224</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>3&lt;sup&gt;rd&lt;/sup&gt; Trimester</td>
<td>205</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>580</td>
<td>100</td>
</tr>
<tr>
<td>Number of Pregnancy</td>
<td>First Pregnancy</td>
<td>256</td>
<td>44.1</td>
</tr>
<tr>
<td></td>
<td>Second Pregnancy</td>
<td>231</td>
<td>39.8</td>
</tr>
<tr>
<td></td>
<td>Third Pregnancy</td>
<td>37</td>
<td>6.4</td>
</tr>
<tr>
<td></td>
<td>Fourth Pregnancy or More</td>
<td>56</td>
<td>9.7</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>580</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: Authors’ Report

Result and Discussion

Results of Demographic variables

As illustrated in Table 1, the age distribution of the respondents reveals several noteworthy findings: 1) A total of 107 respondents, constituting 18% of the sample, fell within the age range of 18–25 years. The largest segment of participants, 260 individuals, or 45% of the sample, belonged to the 26–30 age group. Additionally, 207 respondents, accounting for 36% of the sample, were situated within the age bracket of 31–40 years. 2) A smaller fraction of the respondents, precisely six individuals, representing 1.0% of the sample, were found to be over 40 years of age.

These findings provide a comprehensive overview of the age distribution among the expectant women who participated in the study, offering valuable demographic insights that prove relevant to the research objective. The age composition of the sample population and other demographic information indicate that expectant women of all ages and different stages are interested in knowing more about pregnancy, which significantly informs the subsequent analyses and interpretations of the study’s outcomes.

The Measurement Model

This model consists of five variables, namely ESPSM, PS, PV, SMHIU, and SMHIC, which had 18 items. The outer loadings of the items ESPSM to SMHIU were greater than 0.6, which indicates good validity. Again, average variance extracted (AVE) values for all the constructs were greater than 0.50, showing adequate validity. Cronbach’s alpha and composite reliability had values > 0.78. Discriminant validity was also assessed using HTMT, and the values obtained were < 0.9, as recommended (Henseler, Ringle and Sarstedt, 2015). All the results are presented in Table 2.
Table 2. Results of the measurement model

<table>
<thead>
<tr>
<th>Constructs</th>
<th>Items</th>
<th>Convergent validity</th>
<th>Internal Reliability</th>
<th>Discriminant Validity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Outer loadings</td>
<td>AVE</td>
<td>Cronbach’s alpha</td>
</tr>
<tr>
<td>Emotional support on social media</td>
<td>ESPSM1</td>
<td>0.771</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ESPSM2</td>
<td>0.884</td>
<td>0.648</td>
<td>0.844</td>
</tr>
<tr>
<td></td>
<td>ESPSM3</td>
<td>0.753</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived severity</td>
<td>PS1</td>
<td>0.863</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PS2</td>
<td>0.804</td>
<td>0.625</td>
<td>0.894</td>
</tr>
<tr>
<td></td>
<td>PS3</td>
<td>0.760</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PS4</td>
<td>0.722</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PS5</td>
<td>0.796</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perceived vulnerability</td>
<td>PV1</td>
<td>0.657</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PV2</td>
<td>0.682</td>
<td>0.559</td>
<td>0.786</td>
</tr>
<tr>
<td></td>
<td>PV3</td>
<td>0.884</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social media healthcare information usage</td>
<td>SMHIC1</td>
<td>0.826</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social media healthcare information usage</td>
<td>SMHIC2</td>
<td>0.629</td>
<td>0.593</td>
<td>0.803</td>
</tr>
<tr>
<td>Social media healthcare information usage</td>
<td>SMHIC3</td>
<td>0.819</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SMHICU2</td>
<td>0.821</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SMHICU3</td>
<td>0.819</td>
<td>0.673</td>
<td>0.892</td>
</tr>
<tr>
<td></td>
<td>SMHICU4</td>
<td>0.780</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SMHICU5</td>
<td>0.858</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Coefficients of determination and predictive relevance

<table>
<thead>
<tr>
<th>R-square</th>
<th>Q²</th>
<th>Model</th>
<th>SRMR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMHIC</td>
<td>0.737</td>
<td>SMHIC</td>
<td>0.546</td>
</tr>
</tbody>
</table>

Abbreviations: AVE = average variance extracted, CR = Composite reliability; HTMT= heterotrait-monotrait ratio test

The Structural model

The structural model was assessed using structural equation modeling (SEM). The findings show that SMHIC was predicted by ESPSM (β=0.215; t=4.174; p<0.000), SMHICU (β=0.659; t=12.446; p<0.000), and PS (β=0.151; t=2.920; p<0.005). However, PV was not influential on SMHIC (β=-0.039; t=0.664; p>0.50), which did not support the hypothesis (H3). The findings of the analysis are presented in Figure 1 and Table 3. The results show that the variance inflation factor (VIF) was greater than 1.508, which indicates there was no collinearity (Diamantopoulos and Siguaw, 2006). The R² for SMHIC was 0.737, which indicates a substantial value (Hair, Ringle and Sarstedt, 2011), while the Q² was 0.546, demonstrating the model has predictive relevance (Geisser, 1974). Meanwhile, the model fit was 0.037, which indicates that the data were suitable for the analysis. The results are presented in Figure 1 and Table 3.

The present study investigated the determinants that contribute to the persistent use of social media for health-related information among expectant mothers. The proposed model was based on social media health information usage, emotional support on social media, perceived vulnerability, perceived severity, and social media. According to the outcome of the study, continued usage of social media for healthcare information is impacted by the emotional support provided on social media. The findings revealed that the hypothesis (H1), emotional support on social media (ESPSM), has a significant effect on social media healthcare information continuance (SMHIC) usage, and it is therefore supported (Table 3).
Table 3. Hypothesis testing results.

<table>
<thead>
<tr>
<th>Hypothesis</th>
<th>Path relations</th>
<th>Beta</th>
<th>Standard Error</th>
<th>t-value</th>
<th>p-values</th>
<th>Decision</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>ESPSM -&gt; SMHIC</td>
<td>0.215</td>
<td>0.051</td>
<td>4.174</td>
<td>0.000</td>
<td>Supported</td>
</tr>
<tr>
<td>H2</td>
<td>SMHIU -&gt; SMHIC</td>
<td>0.659</td>
<td>0.053</td>
<td>12.446</td>
<td>0.000</td>
<td>Supported</td>
</tr>
<tr>
<td>H3</td>
<td>PV -&gt; SMHIC</td>
<td>-0.039</td>
<td>0.059</td>
<td>0.664</td>
<td>0.507</td>
<td>Not Supported</td>
</tr>
<tr>
<td>H4</td>
<td>PS -&gt; SMHIC</td>
<td>0.151</td>
<td>0.052</td>
<td>2.920</td>
<td>0.004</td>
<td>Supported</td>
</tr>
</tbody>
</table>

Abbreviations: ESPSM = emotional support on social media, PV = perceived vulnerability, and PS = perceived severity. SMHIU = social media healthcare information usage, SMHIC = social media healthcare information continuance usage.

The beneficial importance of this association is demonstrated by the effect that is presented in this study. This suggests that expectant women will continue to utilize digital healthcare platforms to receive emotional support from others in these platforms. A significant conclusion that emerges from the investigation is that the majority of the women, 256 (44.1%), had conceived for the first time, which shows that this group is desperate for support. The fact that these women have chosen to be active on digital media demonstrates that the assistance they are receiving is beneficial to them; hence, they have decide to continue utilizing these platforms for the optimum impact. The results imply that emotional support on social media helps expectant mothers feel more at peace and happier, both of which have favorable effects on the unborn baby. The findings suggest that receiving emotional support confers a sense of significance and direction in the life of the expectant woman (Ngai et al., 2021). This study gives a new insight into social media usage and emotional support.

The current study used emotional support as an independent variable to assess social media health information continuance usage, which is different from the study by Shensa et al. (2016), which used emotional support as a dependent variable in another study. The area of focus in this study makes it unique from previous studies (Pourfallahi et al., 2019; Wu et al., 2019).

Furthermore, the research findings indicate that the utilization of healthcare information on social media has a favorable impact on the continuous use of social media for healthcare purposes. The results supported hypothesis two (H2), that healthcare information on social media will influence the continuance of the usage of such information (Table 3). The outcome clearly shows that expectant women who use digital platforms will persist in their usage. The findings indicate that the
importance of the information obtained from digital media platforms makes it very difficult for them to decline its usage. The findings of the current study presented new dimensions of previous studies (Deng, Liu and Hinz, 2015; Zahedul et al., 2020; Gu et al., 2021). These studies have used behavior as a dependent variable; however, the current studies have this variable as an independent variable, which examines continued use. The outcome of this research is unique in that it presents a different approach to the use of the UTAUT and expectation confirmation models.

Additionally, the effect of perceived vulnerability on the continued use of social media healthcare information was assessed. The results revealed that the perceived vulnerability of a woman’s pregnancy has no significant effect on the person’s decision to continue using social media for health information. This result did not support the proposed hypothesis three (H3). It is counterintuitive that perceived vulnerability does not result in sustained use. The aforementioned findings can be rationalized by the notion that expectant women initially resort to digital sources due to their susceptibility. Yet, they exercise discerning judgment in regard to the knowledge they obtain. Based on this notion, it is assumed expectant mothers will not persist in utilizing digital information. Furthermore, their decision to discontinue using digital health information may be because the knowledge they have already obtained will prompt them to seek advice from their healthcare providers. The results bring new findings, as most previous studies that employed perceived vulnerability assessed issues such as security protection intention (Hassandoust and Techatassanasoontorn, 2020) or a moderator for behavioral intention in health monitoring (Beh et al., 2019). In as much as other studies in health adopted threat appraisal, its dependent variables were problem and emotion-focused coping (Marakhimov and Joo, 2017) but not continuance use of the health system.

Finally, the study examined the impact of the perceived severity of pregnancy on the continued usage of social media for healthcare information. The findings indicate that the level of danger is positively associated with the sustained utilization of digital media for health-related information. The result corroborated the hypothesis (H4) that the perceived severity factor will have a noteworthy effect on the sustained usage of digital media in healthcare (Table 3). The observation that perceived severity did impact expectant women’s continuance usage of digital health information suggests that the absence of information-seeking behavior in a particular instance does not preclude its manifestation in a critical condition. The findings suggest that expectant women are unable to forego the acquisition of knowledge, regardless of the situation. Jacobs, Steijn, and Pampus (2019) reported that approximately 90% of the female respondents acknowledged the authenticity of the information obtained and relied on it to make decisions regarding their pregnancies. However, the focus of the study was not on the continued use of health information. Even studies (Beh et al., 2019; Hassandoust and Techatassanasoontorn, 2020; Silver, Subramaniam and Stylianou, 2020) that used perceived severity in their study utilize it as a moderator or used it to assess different dependent variables. This study is novel as it combined constructs from social support, UTAUT, and PMT to examine expectant mothers’ continued utilization of digital health information. It is also significantly distinct from previous works in continuance intention (Alsyouf, Ishak and Abdullah, 2018; Imlawi and Gregg, 2020; Yang and Jong, 2021; Tian and Wu, 2022).

Limitations

This study has a few limitations: for example, it only looks at expectant women in a few hospitals in the nation’s capital; hence, the results cannot be extrapolated to the whole population. Nevertheless, the data collected for this study were deemed satisfactory in relation to the objectives and scope of the report. Moreover, the participants freely engaged in the study, and their voluntary involvement did not exert any detrimental influence on the outcomes. To compile a comprehensive report, subsequent research might
approach the topic from a longitudinal perspective. This continuing study has room for improvement, and future authors can advance this work by introducing trust and satisfaction to improve the study.

Conclusion

The utilization of this model demonstrates that expectant women have embraced the use of social media platforms for health-related purposes, and their continued usage is impacted by ESPSM, SMHIIU, and PS. Since expectant mothers are using digital media for health-related purposes, health delivery facilities providing services to expectant mothers may consider creating social media groups and platforms aimed at supporting expectant women so that they will not gather false information that will endanger their lives and the unborn child. The findings of this study offer empirical and scientific insights that contribute to a better understanding of the behaviors exhibited by expectant women in relation to their continued use of social media for accessing healthcare information during pregnancy. Moreover, the findings will contribute to the existing body of knowledge in the field of digital health and foster a greater understanding, hence stimulating additional research in this emerging area.

Abbreviations


Declarations

Ethics Approval and Consent Participant

This research was approved by the Ghana Health Service Ethics Review Committee (GHSERC:001/01/22), and all five hospital authorities approved this study.

Conflict of interest

The authors declared no potential conflict of interest with respect to the research and publication of the article.

Availability of Data and Materials

Not applicable

Authors’ Contribution

PPO developed the study concept and methodology; PPO, KKK, and DKL wrote, reviewed, and evaluated the manuscript; and PPO created the original draft.

Funding Source

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