

## Original Research

# A Perspective on the Psychological Impact of Infertility: Exploring Coping Mechanisms in Women

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### ABSTRACT

**Aim:** The aim of this study was to explore the psychological impact of infertility on women and to identify the coping mechanisms they employ in response to emotional distress. This research aimed to provide insights into the emotional challenges faced by women with infertility and the strategies they use to manage these challenges.

**Materials and Methods:** The study involved 120 women aged between 25 and 45 years, experiencing infertility, recruited through fertility clinics, support groups, and social media platforms. Participants completed a demographic questionnaire, psychological impact assessments using the Infertility Distress Scale (IDS) and Hospital Anxiety and Depression Scale (HADS), and a Coping Mechanism Inventory. A subset of 30 participants also participated in in-depth semi-structured interviews. Data were analyzed using descriptive statistics, correlational analysis, and thematic analysis.

**Results:** The majority of participants were aged 31-35 years (39.2%) and had primary infertility (65.8%). Psychological distress was high, with 43.3% reporting moderate distress and 41.7% experiencing severe distress. Anxiety (mean score = 10.4) and depression (mean score = 8.7) were prevalent, with a combined score of 19.1 indicating significant emotional burden. Social support was the most common coping strategy (80%), followed by emotion-focused coping (70%) and problem-focused coping (60%). Multiple regression analysis revealed that the duration of infertility and the type of infertility were significant predictors of psychological outcomes, with longer durations and primary infertility associated with higher levels of distress.

**Conclusion:** Infertility significantly impacts women's mental health, with anxiety, depression, and emotional distress being prevalent. Social support plays a key role in coping, but a lack of support was reported by some women. The duration and type of infertility are critical factors influencing psychological distress. Targeted psychological support is essential, particularly for those with prolonged or primary infertility.

**Keywords:** Infertility, Psychological impact, Coping mechanisms, Social support, Emotional distress

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### Introduction

Infertility is a deeply emotional and personal experience that profoundly affects individuals and couples. For many women, the inability to conceive can trigger a complex array of psychological responses, affecting their self-esteem, sense of identity, and overall mental well-being. As the desire for motherhood is often viewed as a natural progression in a woman's life, the inability to achieve this can lead to feelings of loss, grief, and isolation. The psychological impact of infertility is not simply a consequence of the physical challenges faced but also the emotional, social, and cultural implications that accompany this journey. The stigma surrounding infertility, combined with societal expectations of motherhood, can exacerbate the distress experienced by women struggling with fertility issues.

Understanding the psychological toll infertility takes is essential for providing appropriate support and creating effective coping strategies.<sup>1</sup>

Coping mechanisms, the strategies individuals use to manage stress and emotional pain, play a crucial role in how women navigate the challenges of infertility. These mechanisms can be adaptive or maladaptive, shaping the way women respond to the emotional strain of infertility. Adaptive coping strategies may involve seeking support from friends, family, or professionals, while maladaptive coping may include avoidance, denial, or withdrawal. The way a woman chooses to cope with infertility can be influenced by a variety of factors, including personality traits, social support systems, and the length and severity of the fertility struggle.<sup>2</sup>

One of the most common emotional responses to infertility is grief. The inability to conceive represents a significant loss, not just of the hope for biological children, but also the idealized vision of motherhood. For many women, this grief is compounded by societal expectations that define a woman's worth in relation to her ability to bear children. This grief can manifest in various ways, including sadness, anger, frustration, and feelings of inadequacy. The process of grieving may not follow a linear path, with some women experiencing periods of hopefulness followed by deep despair. Additionally, the prolonged nature of infertility can make it difficult for women to find closure or resolution, prolonging their emotional distress.<sup>3</sup>

Another psychological effect of infertility is the impact on self-esteem and identity. In a society where motherhood is often seen as a defining characteristic of womanhood, women who cannot conceive may experience a sense of failure or inadequacy. The emotional pain of infertility can lead to a negative self-image, as women may internalize the failure to conceive as a personal shortcoming. This sense of loss extends beyond the inability to become mothers; it affects how women perceive themselves as partners, as women, and as individuals. It can be difficult for women to reconcile their sense of self with the image of motherhood that society often imposes upon them. This internal conflict may lead to feelings of shame, guilt, and inadequacy, further exacerbating the psychological distress of infertility.<sup>4</sup>

Social isolation is another common psychological consequence of infertility. Women who are struggling with fertility issues may feel alienated from their peers, particularly those who are able to conceive and bear children without difficulty. The societal expectation that women will eventually become mothers can create a sense of isolation for those facing infertility, as they may feel that others cannot relate to their struggles. This isolation can be intensified by the silence that often surrounds the topic of infertility, as it is a deeply personal and often taboo subject. Many women may feel that discussing their infertility challenges could lead to judgment or unsolicited advice, leading them to keep their struggles hidden. As a result, they may experience a lack of emotional support and feel that they are facing the journey alone.<sup>5</sup>

The emotional rollercoaster of infertility can also take a toll on women's relationships. Partners may react differently to the stress of infertility, with one person perhaps experiencing more grief or frustration than the other. This can create tension and strain in the relationship, as both partners may struggle to find ways to support one another while dealing with their own emotional turmoil. For women, the relationship with their partner can be a source of both comfort and stress. Couples may experience feelings of guilt or blame, with each person questioning whether they are responsible for the infertility. These feelings can lead

to communication breakdowns and emotional distance, making it even more difficult to cope with the emotional challenges of infertility.<sup>6</sup>

Coping with infertility is an intensely personal journey, and there is no single right way to navigate the emotional landscape of this experience. Some women may find solace in alternative therapies or religious faith, while others may turn to professional counseling or therapy to work through their feelings. Support groups, both in-person and online, provide a space for women to share their experiences and gain validation from others who are going through similar challenges. These groups can help reduce feelings of isolation and offer valuable emotional support, as women can connect with others who truly understand their emotional pain.

## Materials and Methods

The study involved a total of 120 women, aged between 25 and 45 years, who were experiencing infertility. Participants were recruited through fertility clinics, support groups, and social media platforms dedicated to infertility awareness. Inclusion criteria included women who had been diagnosed with infertility (either primary or secondary infertility) and had been undergoing fertility treatments for at least six months. Participants who had a history of psychological disorders or were undergoing psychiatric treatment were excluded from the study to reduce confounding factors related to pre-existing mental health conditions. This research utilized a cross-sectional, qualitative design to explore the psychological impact of infertility and identify coping mechanisms among women facing this condition. The study aimed to gather in-depth insights into the emotional and psychological challenges encountered by women with infertility and to examine how they cope with these challenges. Ethical approval was granted by the relevant institutional review board (IRB). All participants were assured that their participation was voluntary and that they could withdraw from the study at any time without penalty. Confidentiality was maintained by anonymizing all data, and personal identifiers were removed from the interview transcripts and survey responses. Participants were provided with information on mental health resources and support services in case they experienced emotional distress during or after their participation in the study.

## Materials:

1. **Demographic Questionnaire:** A self-reported questionnaire was used to collect demographic data, including age, marital status, duration of infertility, type of infertility (primary or secondary), and any treatments or interventions that the participants had undergone (e.g., in vitro fertilization, hormone therapy).
2. **Psychological Impact Assessment:** To assess the psychological impact of infertility,

participants completed the following standardized instruments: Infertility Distress Scale (IDS): This 36-item scale was used to measure the level of emotional distress related to infertility, covering emotional, cognitive, and relational domains. Hospital Anxiety and Depression Scale (HADS): A 14-item self-report questionnaire that assesses symptoms of anxiety and depression in participants.

3. **Coping Mechanism Inventory:** A modified version of the *COPE Inventory* was used to measure the coping mechanisms employed by participants when faced with infertility-related stress. The inventory includes items related to problem-solving, emotional regulation, acceptance, and social support, providing insights into adaptive and maladaptive coping strategies.
4. **In-depth Semi-structured Interviews:** A subset of 30 participants was selected for in-depth interviews to gain a deeper understanding of their lived experiences with infertility. The interviews, which lasted between 30 to 60 minutes, explored themes such as emotional reactions, coping strategies, social support, and personal perceptions about infertility. The interviews were audio-recorded and transcribed for thematic analysis.

#### Procedure:

Upon receiving approval from the institutional ethics committee, participants were informed about the study objectives, the voluntary nature of participation, and confidentiality procedures. Informed consent was obtained from all participants before the study commenced. For the quantitative component, participants were invited to complete the demographic questionnaire, psychological impact assessments, and coping mechanism inventory online through a secure survey platform. Participants were given the option to complete the surveys at their convenience over a two-week period. For the qualitative component, participants who indicated a willingness to participate in the interviews were contacted individually. The interviews were conducted either in-person or through video conferencing platforms, depending on participant preference and availability. All interviews were transcribed verbatim, and participants were encouraged to express their thoughts and feelings freely.

#### Data Analysis

Quantitative data from the psychological impact assessments and coping inventory were analyzed using descriptive statistics to measure the levels of distress, anxiety, depression, and coping strategies employed by participants. Correlational analyses were conducted to explore relationships between demographic factors (e.g., age, duration of infertility) and psychological distress or coping styles. Qualitative

data from the interviews were analyzed using thematic analysis. The researchers independently coded the interview transcripts, identifying recurring themes related to emotional impact, coping strategies, and social support. The coding process was reviewed and refined by a second researcher to ensure inter-coder reliability.

#### Results

##### Table 1: Demographic Characteristics of Participants

This table provides the demographic characteristics of the 120 participants involved in the study. The age distribution shows that the majority of participants were between the ages of 31 and 35 years, representing 39.2% of the sample, followed by 28.3% in the 36-40 age group. Younger women aged 25-30 years accounted for 23.3%, while women aged 41-45 years made up 9.2% of the sample. These findings suggest that infertility affects women across a broad age range, with the highest concentration in the 31-35 age group.

In terms of marital status, 93.3% of the participants were married, while 6.7% were single. This highlights that the majority of women experiencing infertility are in committed relationships. Regarding the duration of infertility, the largest group had been experiencing infertility for 1 to 3 years (34.2%), followed by those with infertility for more than 6 years (29.2%), indicating that infertility is often a long-term experience. A smaller portion had infertility for less than a year (10%) or between 4-6 years (26.7%).

The data also reveals the type of infertility, with 65.8% of participants having primary infertility, meaning they have never been able to conceive, while 34.2% had secondary infertility, where they have had at least one previous pregnancy. Treatment types were predominantly IVF (60%), with hormonal therapy being the second most common treatment (33.3%) and other treatments such as surgery or lifestyle interventions being less common (6.7%).

##### Table 2: Psychological Impact of Infertility (IDS Scores)

The Infertility Distress Scale (IDS) assessed the emotional distress caused by infertility. The results indicate that a significant portion of the sample experienced high levels of distress. Specifically, 43.3% of participants reported moderate distress (IDS score 37-72), and 41.7% experienced severe distress (IDS score 73-108). Only 15% of participants experienced mild distress (IDS score 0-36). This finding suggests that infertility has a substantial psychological impact on women, with a majority experiencing significant distress.

##### Table 3: Psychological Impact of Infertility (HADS Scores)

The Hospital Anxiety and Depression Scale (HADS) measured anxiety and depression levels in the

participants. The mean score for anxiety was 10.4 with a standard deviation of 3.5, indicating a moderate level of anxiety among the participants. For depression, the mean score was 8.7 with a standard deviation of 3.8, which suggests that depression was also a common issue for women experiencing infertility, though at a slightly lower level than anxiety. When combined (total of anxiety and depression), the mean score was 19.1 with a standard deviation of 6.7, highlighting the overall emotional burden of infertility, with many women experiencing both anxiety and depression simultaneously.

#### Table 4: Coping Mechanisms Employed by Participants (COPE Inventory Scores)

This table reveals the coping strategies employed by participants in response to infertility. The most common coping strategy was seeking social support, with 80% of participants using this approach. Emotion-focused coping (70%) and problem-focused coping (60%) were also widely used. Avoidance coping, which includes denying or avoiding the issue, was reported by 37.5% of the participants. Religious coping was used by 31.7% of participants, indicating that some women turned to spirituality for comfort. Substance use, which is often a maladaptive coping mechanism, was reported by only 7.5% of the participants. This suggests that most women employed more adaptive coping strategies, with social support being the most prominent.

#### Table 5: Thematic Analysis of In-depth Interviews

Thematic analysis of in-depth interviews with 30 participants revealed several emotional reactions and coping strategies. The majority of women reported experiencing anxiety and worry (83.3%), sadness and grief (73.3%), and frustration and anger (60%) in relation to infertility. These emotional reactions underscore the deep emotional toll infertility takes on women. When it comes to coping strategies, the most common approach was using social support (86.7%), followed by acceptance and hope (76.7%) and religious or spiritual coping (53.3%). This indicates that women find comfort in both emotional and practical support, with many also finding strength in faith or spirituality. However, 40% of participants

reported a lack of social support, indicating that some women may feel isolated in their infertility journey. Support from partners (90%) and family and friends (73.3%) were identified as key sources of social support.

#### Table 6: Multiple Regression Analysis for Psychological Impact of Infertility

The multiple regression analysis examined the relationship between demographic factors and psychological outcomes, specifically IDS score, HADS anxiety, and HADS depression. The analysis found that **duration of infertility** was a significant predictor of all three psychological outcomes. Longer durations of infertility were associated with higher levels of distress ( $\beta = 0.31$  for IDS,  $\beta = 0.28$  for HADS anxiety, and  $\beta = 0.32$  for HADS depression), highlighting the cumulative emotional toll of infertility over time. **Type of infertility** was another significant predictor, with primary infertility being associated with higher levels of anxiety ( $\beta = 0.22$ ) and depression ( $\beta = 0.20$ ). This may reflect the added emotional burden of not having been able to conceive at all, compared to secondary infertility where there may have been previous pregnancies. **Age** was not a significant predictor of psychological outcomes, with small regression coefficients ( $\beta = -0.08$  for IDS,  $\beta = 0.15$  for anxiety, and  $\beta = 0.12$  for depression), suggesting that age alone may not be a major factor in emotional distress among women with infertility. Similarly, the type of treatment (IVF vs. hormonal therapy) did not significantly affect psychological outcomes, with regression coefficients near zero ( $\beta = 0.07$  to  $0.09$ ). This suggests that the type of treatment may not have as strong an emotional impact as the duration of infertility or the type of infertility itself. The models for IDS score ( $R^2 = 0.27$ ), HADS anxiety ( $R^2 = 0.21$ ), and HADS depression ( $R^2 = 0.29$ ) explained a moderate proportion of the variance in the psychological outcomes, with significant F-statistics ( $p < 0.01$ ), indicating that the predictors included in the models were significant. This suggests that while the factors studied have a meaningful impact on psychological distress, there may be other unmeasured factors contributing to the emotional burden of infertility.

Table 1 .Demographic Characteristics of Participants

Characteristic	Number (Frequency)	Percentage (%)
<b>Age</b>		
25-30 years	28	23.3%
31-35 years	47	39.2%
36-40 years	34	28.3%
41-45 years	11	9.2%
<b>Marital Status</b>		
Married	112	93.3%
Single	8	6.7%
<b>Duration of Infertility</b>		
Less than 1 year	12	10%
1-3 years	41	34.2%

4-6 years	32	26.7%
More than 6 years	35	29.2%
<b>Type of Infertility</b>		
Primary Infertility	79	65.8%
Secondary Infertility	41	34.2%
<b>Treatment Types</b>		
In vitro fertilization (IVF)	72	60%
Hormonal therapy	40	33.3%
Other treatments	8	6.7%

**Table 2. Psychological Impact of Infertility (IDS Scores)**

Distress Level	Number (Frequency)	Percentage (%)
Mild Distress (IDS Score 0-36)	18	15%
Moderate Distress (IDS Score 37-72)	52	43.3%
Severe Distress (IDS Score 73-108)	50	41.7%

**Table 3. Psychological Impact of Infertility (HADS Scores)**

HADS Subscale	Mean $\pm$ SD
Anxiety	10.4 $\pm$ 3.5
Depression	8.7 $\pm$ 3.8
Total (Anxiety + Depression)	19.1 $\pm$ 6.7

**Table 4. Coping Mechanisms Employed by Participants (COPE Inventory Scores)**

Coping Mechanism	Number (Frequency)	Percentage (%)
Problem-focused coping	72	60%
Emotion-focused coping	84	70%
Avoidance coping	45	37.5%
Social support seeking	96	80%
Religious coping	38	31.7%
Substance use	9	7.5%

**Table 5. Thematic Analysis of In-depth Interviews (N = 30)**

Theme	Number (Frequency)	Percentage (%)
<b>Emotional Reactions</b>		
Anxiety and Worry	25	83.3%
Sadness and Grief	22	73.3%
Frustration and Anger	18	60%
<b>Coping Strategies</b>		
Use of Social Support	26	86.7%
Acceptance and Hope	23	76.7%
Religious or Spiritual Coping	16	53.3%
<b>Social Support Networks</b>		
Support from Partners	27	90%
Support from Family and Friends	22	73.3%
Lack of Social Support	12	40%

**Table 6. Multiple Regression Analysis for Psychological Impact of Infertility**

Predictor Variable	IDS Score ( $\beta$ )	HADS Anxiety ( $\beta$ )	HADS Depression ( $\beta$ )
Age	-0.08	0.15	0.12
Duration of Infertility	0.31**	0.28*	0.32**
Type of Infertility (Primary)	0.17	0.22*	0.20*
Treatment Type (IVF)	0.07	0.09	0.08
R <sup>2</sup>	0.27	0.21	0.29
F-statistic	9.24**	7.85**	10.13**
p-value	< 0.01	< 0.01	< 0.01

## Discussion

The findings of this study provide a comprehensive understanding of the psychological impact of infertility on women and the coping mechanisms they employ to manage their emotional distress. The results are discussed in the context of previous research, highlighting both similarities and differences across studies.

The participants in this study were primarily between the ages of 31 and 35 years, which is consistent with previous studies that suggest infertility is most prevalent in women aged 30-35 years (Peterson et al., 2003).<sup>6</sup> This age range typically represents women who are actively seeking fertility treatments. The study found that the majority of participants had primary infertility (65.8%), aligning with the findings of Aarts et al. (2007), who also reported a higher prevalence of primary infertility among women in their sample.<sup>7</sup> The significant distress levels reported in this study (moderate to severe distress in 85% of participants) echo the findings of Seifer et al. (2021), who highlighted that infertility is associated with significant emotional distress, particularly during times of treatment delays, such as those caused by the COVID-19 pandemic.<sup>8</sup>

The duration of infertility emerged as a critical factor influencing psychological outcomes. Participants with longer durations of infertility (more than 6 years) experienced higher levels of distress, anxiety, and depression. This aligns with the work of Aarts et al. (2007), who found that the psychological burden of infertility intensifies over time, particularly for those who have been trying to conceive for several years.<sup>7</sup> These findings underscore the cumulative emotional toll that prolonged infertility can have on women, which is also noted by Seifer et al. (2021), who emphasize the negative psychological effects of delayed care and long-term infertility struggles.<sup>8</sup>

In terms of emotional impact, the participants in this study reported high levels of anxiety (mean score = 10.4) and depression (mean score = 8.7), which are consistent with previous findings by Lobel et al. (2000), who found that infertility treatment is linked to elevated levels of both anxiety and depression.<sup>10</sup> This study's results align with the work of Peloquin et al. (2021), who also observed that infertility treatments often lead to significant psychological distress, particularly in the forms of anxiety and depressive symptoms.<sup>9</sup>

These emotional responses can have a profound impact on a woman's quality of life, and the cumulative effect of these psychological burdens can further complicate the experience of infertility (Lobel et al., 2020).<sup>11</sup>

Regarding coping strategies, the study found that the most common coping mechanisms included seeking social support (80%), emotion-focused coping (70%), and problem-focused coping (60%). These results align closely with the findings of Segerstrom et al. (2003), who noted that individuals coping with health-

related stressors, including infertility, tend to rely on emotional and problem-focused coping strategies.<sup>12</sup> Social support, in particular, is a well-documented factor that helps alleviate emotional distress (Peterson et al., 2003).<sup>6</sup> The high rates of social support seeking in this study confirm the critical role of partners and family in providing emotional and practical support. This supports the findings of Aarts et al. (2007), who observed that women with strong social support networks reported lower levels of distress.<sup>7</sup>

However, it is important to note that 40% of the participants reported a lack of social support, which mirrors the findings of Lobel et al. (2020), who found that socioeconomically disadvantaged women often report feelings of isolation and a lack of social support during infertility treatments. The lack of social support in some women's experiences highlights a gap in the emotional resources available to certain individuals, particularly those without a supportive partner or extended family.<sup>11</sup>

Multiple regression analysis revealed that the **duration of infertility** was a significant predictor of psychological outcomes. Longer durations of infertility were associated with higher levels of emotional distress, anxiety, and depression, consistent with previous studies, including Aarts et al. (2007), who found that the length of infertility significantly predicted the severity of distress. This finding highlights the cumulative nature of infertility-related stress, reinforcing the idea that as infertility persists, so does its psychological burden.<sup>7</sup>

The **type of infertility** also emerged as a significant predictor, with primary infertility associated with higher levels of anxiety and depression compared to secondary infertility. This finding is consistent with the work of Frazier et al. (2004), who noted that women with primary infertility experience more significant emotional distress due to the perceived failure of their reproductive capabilities. This may be compounded by societal pressures surrounding childbearing and reproductive success. Women with secondary infertility, on the other hand, may find comfort in having already experienced pregnancy, which may buffer some of the emotional distress compared to those with primary infertility.<sup>13</sup>

Interestingly, **age** did not emerge as a significant predictor of psychological outcomes, which contrasts with some studies that suggest older women may experience higher levels of distress due to societal expectations around childbearing (Peloquin et al., 2021).<sup>9</sup> However, the findings of this study are consistent with those of Seifer et al. (2021), who noted that age alone does not appear to significantly influence psychological outcomes in women facing infertility.<sup>8</sup>

## Conclusion

In conclusion, this study highlights the significant psychological impact of infertility on women, particularly in terms of anxiety, depression, and

emotional distress. Duration of infertility and the type of infertility were found to be key predictors of psychological outcomes, with longer infertility durations and primary infertility linked to greater distress. Social support emerged as a crucial coping mechanism, although a lack of support was also reported by a notable portion of participants. These findings underscore the importance of providing targeted psychological support for women dealing with infertility, especially those with prolonged or primary infertility.

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