# SOCIAL MEDIA SUPPORT FOR WOMEN WITH ENDOMETRIOSIS: A SYSTEMATIC REVIEW

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#### ABSTRACT

**Background and Purpose:** Social media is a key source of health information. Previous studies have indicated that women with endometriosis turn to the internet for information about the condition and illness management. However, there is a dearth of study on endometriosis online support groups. In contrast, studies examining the role of online support groups for other long-term conditions have been extensive. Addressing this gap, a systematic review of research on endometriosis support groups on social media and its efficacy were conducted.

**Methodology:** Using a qualitative systematic review method and Meta-Analyses Protocols (PRISMA-P)., research database namely Research Gate, Springer, Wiley Online Library, Science Direct, Jstore, PubMed were manually searched using keywords such as "social support," "endometriosis support online," and "Facebook support & online communication". The review examined research related to endometriosis support on Facebook. Based on inclusion and exclusion criteria, 100 full-text papers were extracted from the initial 200 publications found. 36 papers were selected following the appraisal stage and thematically analysed. **Findings:** Social media platform namely Endometriosis Facebook support groups are found to set expectations, provide education, and highlight ways to manage chronic illness. Three prominent themes were identified: (1) topics related to social media support groups, (2) efficiency of Virtual Help Communities for Endometriosis Patients, and (3) forms of support that women with endometriosis require.

**Contributions:** The findings support two primary points. Endometriosis Facebook support groups educate women about the illness, connects them with others in similar situations, and promotes illness discussion and networking, hence pointing to the potential benefit of Facebook support groups as a platform to provide both support and education.

**Keywords:** Health communication, women health research, social media, online support, endometriosis.

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#### **1.0 INTRODUCTION**

Endometriosis is a chronic condition causing pelvic discomfort, stomach bloating, nausea, exhaustion, depression, anxiety, infertility, and severe pain during periods, sexual activity, bowel motions and urination, (Halimah, 2022). Even though it is one of the most common gynecological problems, it is also known as a fairly "unknown" illness that affects women physically, emotionally, and mentally as it is a long-term illness that often prevents women from having children (Pierret, 2003). About 25 to 50 per cent of infertile women have endometriosis (Bulletti et al., 2010). In Malaysia, 350,000 women living with endometriosis receive treatment on symptom control and quality of life. Nonetheless, it is surprising that in the 21st-century, endometriosis is still stigmatized, with sufferers often feeling isolated and unbelieved (Krsmanovic & Dean, 2021). As a result, women living with endometriosis have trouble admitting their condition and symptoms to others (Whitney, 1998). Hence, these women need a lot of support (Gilmour, Huntington, & Wilson, 2008) and they are now turning to social media for online support. Moreover, informal online support allows patients with comparable diseases to recognize, communicate, and manage their sickness experiences (Frost & Massagli, 2008; Johnston et al., 2013). It also helps patients understand each other's feelings and evaluate the integration of their support system.

Internet and social media platforms have undoubtedly facilitated effective patient-topatient communication and allowed patients to seek information on medical-related health issues without any restrictions in this age of modern technology (Coulson, 2005). Today's generation uses Facebook, Instagram, and Twitter daily (Andreassen, 2015). Past studies suggest that Facebook has become a platform in which people with illness seek support (Zhang, He, & Sang, 2013). Online support groups may aid persons with depression, as well as in other areas where patients require assistance, such as anxiety (Indian & Grieve, 2014), well-being (Huang, 2016), and physical health (Cavallo et al., 2014), isolation (Seo, Kim, & Yang 2016), fertility problems, and emotional support (Malik & Coulson, 2008) as well as peer support for dealing with fertility information (Grunberg et al., 2018). All these research areas demonstrate that the purpose of a support group is not only to provide knowledge, but also to provide assistance in other aspects of the patient's life. A recent study by Wilson et al. (2022) demonstrated how digital technology and social media, which formerly concealed and separated women, may now enable them to assist not only themselves but also those in their immediate vicinity. For example, WhatsApp communities provide a secure and friendly environment for women with endometriosis to fulfil their varied support needs by interacting with like-minded individuals and sharing disease related information.

The literature on women's social media health support group has so far focused on the three roles of social media support which: (1) facilitates communication between individuals with comparable conditions to recognize, share, and manage their illnesses; (2) allows patients to access medical-related health information without constraints in this age of modern technology; and (3) helps patients to better understand other's feelings and analyses how well this support system has integrated into their life (Frost & Massagli, 2008; Coulson, 2005). Nonetheless, an endometriosis-specific systematic review has not yet been conducted (Holowka, 2022). Therefore, a comprehensive evaluation of Facebook-based social support studies would provide future research with a useful analysis of the literature, methodology recommendations, and areas for future research for women with endometriosis seeking assistance.

Given the issues discussed thus far, this review examined the literature on social media with a focus on Facebook as a social support for endometriosis patients. Specifically, it attempts to answer: (i) What is the efficacy of Endometriosis Facebook support groups and (ii) What are the types of support given by Endometriosis Facebook support groups?

### 2.0 LITERATURE REVIEW

#### 2.1 Online Health Support Groups and Illness Management

The best way to conceptualize social support is in terms of four broad ideas: emotional support (providing comfort and showing affection), instrumental support (providing aid in the form of goods and services), informational support (providing aid in the form of practical, problem-solving advice or feedback), and appraisal support (providing information and feedback that is useful in self-evaluation (Zhang, 2017). Support groups and social media give patients a sense of direction about their condition without judging, misinterpreting, or shaming them. Support groups on Facebook, Instagram, Twitter, and WhatsApp may improve patients' experiences (Wilson et al., 2022).

Social media support for cancer patients offers positive social support, provide illness related materials and provide patients with a pleasant information search experience (Ahlberg & Nordner, 2006). Similarly, according to Sormunen et al. (2020), chronically ill people may receive different types of social support depending on the form and content of their networks. The study revealed that users' interactions were based around knowledge, emotion, and community building which are key elements of health care (Wright, 2000). Therefore, more research is needed to determine what types of information and support lead to pleasant online experiences and how health professionals may help patients avoid negative experiences.

Endometriosis patients need constant attention and support. Managing the condition might cause stress and other health issues. In fact, many women do not seem to have any kind of support or sympathy, and feel alone and isolated (Jones, Jenkinson, & Kennedy, 2004). According to Cox et al. (2003), Matkovic, Manderson, and Warren, (2008), some of these women are reluctant to talk about their illness for fear of being stigmatized, ashamed, or disbelieved (Gilmour et al., 2008). In particular, menstruation is a taboo subject in many Asian cultures and because of this, many women feel isolated and try to conceal their condition, pain, and suffering from family, friends, employers, and medical practitioners. However, various research (e.g., Cohen & Wills, 1985; Kamarck, Manuck, & Jennings, 1990) have shown that social support reduces health-related stress and improves thinking.

### 2.2 Social Network Sites and Women Illness

The popularity of social media platforms in general has grown, with Facebook approaching 2.936 billion monthly users. Facebook and other social media platforms allow community members to join groups with similar interests or experiences and learn about their needs (Nadkarni & Hofmann, 2012; Oh et al., 2013). Several studies (e.g., Jones et al., 2004) have

shown that these platforms are used to shape and understand expectations, provide knowledge about various illnesses, and depict how people with chronic illness manage their health needs. In addition, considerable body of research has examined Facebook as a mechanism for increasing social support. With over 1.74 billion people accessing Facebook via mobile devices, Facebook has become a mainstay in developed countries. It is interesting that Facebook has been used as a platform to support women with chronic pain and illness via online social support groups. These groups do not only provide social support for their members, but also access to patients' lived experience with treatments and therapy.

Several studies (e.g., Sormunen et al., 2020; Li et al., 2018; Malik & Coulson, 2008) have shown that online support groups are becoming more popular as patients turn to the internet for health information and support. Patients use online social media support groups to seek advice on current medical practices and explore the internet for new findings and disease information, which is available 24/7 and helps them understand their ailment (Sormunen et al., 2020). A recent study by Avery et al. (2020) found that online polycystic ovary syndrome (PCOS) support groups gave women new opportunities to connect and learn. This study found that PCOS women seeking socio-emotional support online were more likely to receive it than those seeking informational assistance since the internet is convenient, confidential, and accessible.

Needless to say, support groups allow women to safely engage in a discussion about delicate topics. Hence enhancing personalized awareness of experiences that impact women, such as self-esteem, body image, treatment trauma, and physical/sexual abuse, which increases the speed and efficiency of therapy. By joining a same gender support group, an individual gets acceptance, respect, and empowerment.

### **3.0 RESEARCH DESIGN**

This paper examines recent studies on social media health support groups for women with Endometriosis using an approach known as "qualitative systematic literature review". A systematic review is a scientific strategy for learning and understanding a specific topic. It has aided researchers in identifying and filling research gaps, as well as identifying patterns in the current study. The purpose is to manage relevant data that fits particular criteria in order to answer a research question. The systematic review in this paper focuses on publications indexed in several reputable database to provide a comprehensive picture of the social media support group in the last twenty years. It adheres to Moher et al. (2015) reporting items for Systematic Reviews and Meta-Analyses Protocols (PRISMA-P).

# 3.1 Systematic Literature Review

We divided the review into three parts based on the PRISMA-P statement as shown in Figure 1:

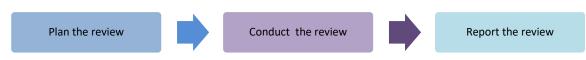


Figure 1: Three stages of PRISMA-P Statement

## 3.1.1 Planning the systematic review

A comprehensive search of reputable databases such as Research Gate, Springer, Wiley Online Library, Science Direct, Jstore, and PubMed was carried out to locate research articles for the review. Google scholar, in addition to other databases was also used to find related studies, these databases were chosen because they are regarded as one of the most comprehensive bibliographic and full-text electronic libraries of science, technology, and medicine. The topic area of this review has a surprisingly limited number of papers; hence, using only one database may limit the research findings in this field. Incorporating the six databases will ensure that as many relevant studies published in the related area will be found. This methodological approach is required to ensure not only that related research publications within the subject of this study are examined, but also to minimize researcher's bias.

# 3.1.2 Conducting the systematic review

Conducting a systematic review helps researcher in gaining recognition of their credibility for achieving the mission of fact-finding and fact-checking in the search. The number of credible sources quoted the greater the validity and reliability in the eyes of the readers. In this phase, there are three primary stages: Stage 1: Searching and Scrutinizing, Stage 2: Applying the Inclusion and Exclusion Criteria/Checking Eligibility of Papers, and Stage 3: Excluding Duplicates & Examining the Papers/Removing Duplicates, as seen in Figure 2.

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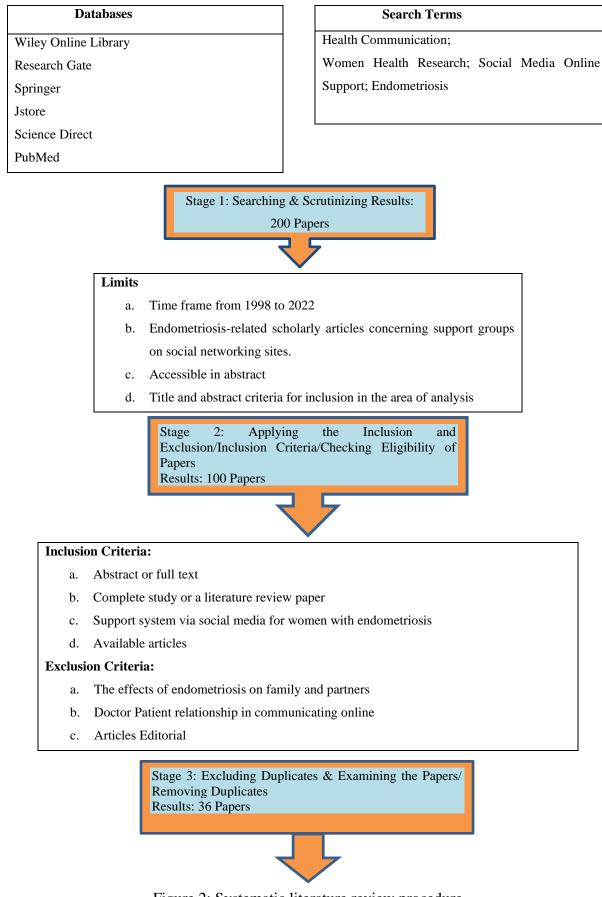


Figure 2: Systematic literature review procedure

Inclusion and exclusion criteria are necessary to ensure relevant papers are selected, while establishing the parameters for the systematic review, ensuring uniform and protocol-based searches. The inclusion criteria ensure the objectivity of the article selection, and the exclusion criteria define the eligibility of the items. Only endometriosis-related scientific works about social networking support groups and their relevant contexts were reviewed. This corresponds to the articles' research objective and methodology.

# 3.1.3 Conducting the systematic review

After carefully reviewing the relevant papers, classifying them, and removing duplicates, the search results were reduced from 200 to 100, and then further scrutinized to only 36 articles. Before selecting the articles, keywords in the title and abstract were manually examined. The results were carefully recorded in this paper's review. Table 2 shows the selected studies in chronological order from the earliest to the most recent year of publication.

No.	Author	Year	Area & Objective of	Data Collection	Results
			Research	Method	
1	Whitney	1998	To evaluate social	Survey was	Participants wanted
			support as a coping	developed to	their support
			technique for	inquire into	network to
			endometriosis.	participants'	understand
				interactions within	endometriosis,
				social support on	symptoms, and
				internet	them
2	Preece	2001	To determine what	User satisfaction	Determinants and
			makes online	surveys, heuristic	measures are
			communities social	evaluation,	chosen by
			and usable.	walkthroughs, and	usefulness and
				ethnography used to	sociability. Data
				test usability.	users determine
					metrics.
3	Cleak & Howe	2004	To study later life	Survey was	Elders benefited
			health and social	developed to	from supported
			networks.	comprehend the	housing and
				relationship	information but
				between their health	social support
				status and their	couldn't help
				social networks.	elderly with serious
					health concerns.
4	Coulson	2005	To examine socially	Using deductive	Support received in
			beneficial	thematic analysis,	symptom
			communication in an		interpretation,
			IBS support network		illness treatment,
			via computer.		and health care
					professional
					involvement.
5	Gao et al.	2006	A systematic	Comprehensive	Endometriosis
			literature review on	review of 1999-	impacts HRQL in
			endometriosis' effects	2006 research	pain, psychological,
			on adult and		and social areas.
			adolescent HRQL.		
6	Ahlberg and	2006	To determine the	Data were gathered	Shared experience
	Nordner		impact of support	through semi-	ruled. Trust,

# Table 2: Summary of the selected studies in chronological order

			group participation	structured	openness, and
			on women newly	interviews and	flexibility were
			diagnosed with	analysed using	noted.
			ovarian cancer	grounded theory.	
7	Arora et al.	2007	To investigate the	Patients survey-	Diagnosis reduces
			helpfulness of	Post diagnosis and	assistance. Support
			information,	post baseline	helps cancer
			emotional and	F	sufferers cope.
			decision making		surrene esper
			received by women		
			with breast cancer		
8	Pickles et al.	2007	To evaluate prostate	analysed and	Psychosocial issues
0	Tickies et al.	2007	cancer active	evaluated studies on	include fear,
			surveillance men's		,
				this topic that have	uncertainty, and a
			psychological needs	been published in	lack of patient
			and barriers.	since 1994	support, especially
					during treatment
					planning.
9	Malik and	2008	Examine a men's	Inductive thematic	Online social
	Coulson		online infertility	analysis of 728	support, partner
			support group	messages	relationships,
			bulletin board to		reduced isolation,
			learn about their		information,
			experiences and		empowerment, and
			needs.		unfavourable
					communities were
					observed.
10	Gilmour,	2008	The effect of	Feminism	Nurses can help
	Huntington, &		symptomatic	approach. The data	women with
	Wilson		endometriosis on	from 18 women	endometriosis by
			women's social and	was analysed	thoroughly
			working life.	thematically.	assessing them and
					sending them for
					diagnostic tests.
11	Frost & Massagli,	2008	To examine how	A qualitative	123 community
			online platform-	analysis of 123	answers (2%). Data
			"PatientsLikeMe"	comments	was used to
			users reference		discover similar
			personal health		people to answer
			information in		health questions,
					<b>1</b>

			patient-to-patient		give disease-
			conversations.		-
			conversations.		management
					recommendations,
					and create
					relationships.
12	Bulletti et al.	2010	To understand	Randomized	Surgery and IVF-
			Endometriosis and	controlled trials to	ET are the best
			infertility	show how well	treatments for
				different treatments	infertile
				work.	endometriosis
					patients.
13	Tunin, Uziely, and	2010	To evaluate how well	156 women	Disease prevention
	WoloskiWruble		women with first-	participated.	information
			degree relatives with	Information was	trumped support.
			breast cancer are	gathered via	Information was
			informed and	questionnaires	better than help.
			supported.		Doctors advised
					most.
14	Nadkarni &	2012	To review the	Searched PubMed,	Facebook use is
	Hofmann		literature on	PsychInfo, and	driven by two basic
			Facebook use.	Cochrane Library	social needs:
				for Facebook-	belonging and self-
				related articles.	presentation.
15	Johnston, Worrell,	2013	To examine how	Interviews with	Online health
	Gangi, & Wasko		online health	moderators of 18	community
			communities, give	online health	participation offers
			knowledge, social	groups and a field	information,
			support, and indirect	survey of 153	support, and patient
			patient	members were	empowerment.
			empowerment.	used.	1
16	Cavaggioni et al.	2014	To examine if	37 Italian patients	Endometriosis
			endometriosis causes	with surgically	causes mood,
			psychiatric disorders,	proven	anxiety,
			psychopathological	endometriosis and	alexithymia, OCD,
			symptoms, and	43 controls without	and sorrow.
			alexithymia in	clinical and	
			Italians.	ultrasound	
				symptoms were	
				studied.	
				stuarca.	

17	Indian & Grieve	2014	To determine if	Two hundred and	Social support
1/	Indian & Grieve	2014	Facebook social	ninety-nine	predicted well-
			support predicted	Facebook users	being in low- and
			subjective well-being	were samples of the	high-social anxiety
			better than offline	-	
				investigation	groups.
			support in socially		
			anxious and non-		
10		2014	anxious people.	1	
18	Cavallo et al.	2014	To investigatee	data from a	Physical activity
			social support	randomized	was balanced by
			& post-exercise	controlled trial	social support.
			social support	and134 female	Companionship and
			(esteem,	undergraduates	self-esteem may
			informational,	participated in the	boost physical
			companionship) from	study.	activity in this
			Planned Behaviour		demographic.
			Theory.		
19	Andreassen	2015	To explore online	Comprehensive	The empirical
			social network site	Review&	database on SNS
			(SNS) addiction	Questionnaire	addiction,
					particularly in
					youth, is limited.
20	Frison &	2016	To understand the	Developed a	Facebook affects
	Eggermont		links between	complete Structural	adolescent sadness
			Facebook use, online	Equation Model	differently. Gender
			social support among	that (1) separates	matters in indicated
			male and females	Facebook use, (2)	interactions, as
			handling depression	examines perceived	perceived online
				online social	social support
				support as a	impacted girls' bad
				mediator, and (3)	mood and active
				analyses adolescent	Facebook use.
				users' gender.	
21	Huang	2016	To study	From 1998 to 2011,	Later-life
			endometriosis and	Taiwan National	depression and
			mental disorders'	Health Insurance	anxiety increased
			temporal relationship	Research Database	with endometriosis.
			(depression and	tracked 10,439	
			anxiety disorders)	endometriosis	
				patients and age-	
			1		

				/sex-matched	
				controls.	
				controis.	
22	Seo, Kim, &Yang	2016	To identify temporal	Matching crawled	Friends on
			link between	data with self-	Facebook benefit.
			Endometriosis and	reported data from	The study
			mental problems	mobile Facebook	demonstrated that
			(depression and	users	social connection
			anxiety disorders)		and friends'
					feedback matter.
23	Mirabolghasemi	2017	To examine	Questionnaires to	SNS performance
	& Iahad		cognitive, social, and	178 breast cancer	improved with
			technological	patients in	support,
			variables affecting	Peninsular	anticipation, and
			cancer patients'	Malaysia support	self-efficacy.
			Facebook	groups.	It supports cancer
			performance (SCT)		patients' social
			using Social		networks. Meeting
			cognitive theory		patients' needs
			framework		saves money.
24	Barak, Boniel-	2008	To review to	Review of	Online support
	Nissim, & Suler		understand	quantitative and	groups improve
			participating in an	qualitative studies	self-esteem,
			online support group		relationships, and
			could foster personal		feelings. Online
			empowerment		support groups may
					encourage problem-
					solving.
					Participation can
					cause online
					addiction,
					loneliness, and
					unhealthy habits.
25	Grunberg et al.	2018	To determine infertile	4 Ontario and	Online support
			patients' interest in	Quebec clinics	groups promote
			online peer support,	treated 236 men	self-esteem and
			associated factors and	and 283 women. An	well-being. Infertile
			preferred features.	anonymous online	couples benefit
				questionnaire	from online peer
				assessed	support models.

				demographics,	
				perceived stress,	
				fertility, and online	
				infertile peer	
				support interest.	
26	Li et al.	2018	To focus on factors	A net valence	Digital fluency
			that influence social	model was based on	affects social media
			media users' health	social support	engagements,
			information seeking	theory and e-service	enjoyment, and
			and sharing.	adoption. Italy and	information
				China tested it.	demands but
					promotes social
					network expansion.
27	Palant & Himmel	2019	To understand and	narrative interviews	Conflict arose. The
			describe possible		overwhelmed
			negative effects of		resented social
			social support.		support. Some
					interviewees
					stopped talking
					about their illness.
28	Gundi &	2019	To investigate	Semi-structured 21-	Teen menstruation
	Subramanyam		menstrual health	boy/21-girl	taboos varied
			communication	interviews, 12 key-	socially. Girls'
			among Indians	respondent	menstruation was
				interviews, and	discouraged.
				1421 Nashik, India	Menstruation
				youth cross-	communication
				sectional survey.	neglected boys
				Qualitative data.	more than girls.
29	Sormunen et al.	2020	To explore the role of	Quantitatively and	Infertility forums
			social media for	qualitatively.	provide support and
			infertile people.	Infertility and social	information on
			r · · · · · · · · · · · ·	media survey	fertility treatments.
				responses totaled	
				132.	
30	Roystonn et al.	2020	To assess the	Online mental	Online mood and
	<b>/ 200 m 00 m</b>		prevalence of online	health support	anxiety support
			support group's use	groups interviewed	groups may
			and factors related	18-year-old	improve treatment.
			with it.	Singaporeans using	Online mental
			with it.	singaporeans using	Omme mental

				the WHO	health support helps
				Composite	youth.
				International	
				Diagnostic	
				Interview 3.0.	
31	Avery et al.	2020	To look at how group	The study analysed	Support groups
			leaders provide	15 full-text papers	improve evidence-
			women with	about PCOS	based information
			emotional, social, and	women and support	for healthcare
			informational	organisations.	professionals and
			support.		professional
					associations.
32	Krsmanovic and	2021	To investigate how	open-ended survey	Frequency,
	Dean		women, reveal		location, openness,
			endometriosis at		content, and
			work		dialogue partner
					determine
					workplace
					endometriosis
					disclosure.
					Openness in the
					workplace was
					surveyed.
33	Marki, Vasarhelyi,	2022	To understand patient	Focus group	Social support,
	& Rigo		self-management,	interview	doctor-patient care,
			social support, and		and active coping
			the needs of patients		solved difficulties.
			in handling		Ecological health
			enodometriosis		promoted women's
					needs.
34	Van den Haspel et	2022	To investigate the	100 endometriosis	76% used health
	al.		usage of social media	sufferers	social media.
			(SM) by	participated. Survey	Younger SM users
			endometriosis	Monkey used	reported six-month
			patients as a self-	frequency counts,	pelvic discomfort,
			management tool.	cross-tabulation,	greater
				descriptive	endometriosis
				statistics, and	symptoms, and
				semantic thematic	psychological

				analysis to analyse	impairment. SM
				free-text responses.	rose 76%.
35	Wilson et al.	2022	To analyse women's experiences with Using "MyEndosis" WhatsApp group as a case study	Using inductive thematic analysis & qualitative interview.	WhatsApp may benefit endometriosis patients. Studies reveal that social media can help lonely and isolated women help
					themselves and others.
36	Holowka	2022	To identify endometriosis patients, utilise social media to understand, experiment with, and navigate their symptoms.	Surveys and interviews	Social media helps endometriosis patients and clinicians learn.

After identifying, extracting, and summarizing the publications, two relevant key areas were discovered: (1) the efficacy of virtual Support Communities for Endometriosis Patients and (2) types of support women received from social media support groups. To identify the gap and draw conclusions, 36 studies were chosen from the following years: 1998, 2001, 2004, 2005, 2006, 2007, 2008, 2010, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021 and 2022.

# 4.0 RESULTS

The 36 articles selected for the systematic review were published between 1998 to 2022. The 24-year period search is adequate to observe recent research trends on social media support for women with endometriosis, specifically in the context of health and fertility. Seven key themes of online support for women with endometriosis were found as illustrated in Figure 3.

# 4.1 Themes Derived from Research on Support Groups on Social Media Platforms

Various themes emerged from the careful reading of the selected 36 research papers on social media health support groups for endometriosis patients. The seven themes are presented in Figure 3.

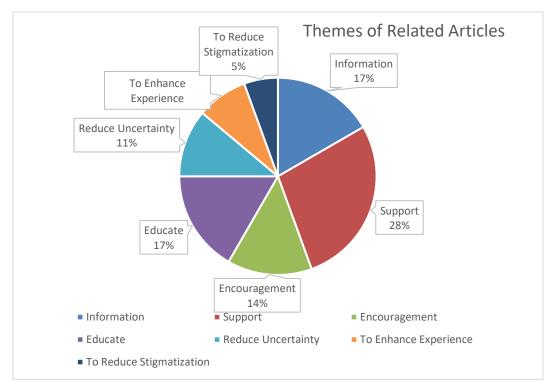


Figure 3: Themes of related articles

28% of research publications indicate that receiving support is the main reason to join a social support group. Followed by Information and Education Seeking with 17% respectively. Encouragement 14%, Reducing Uncertainty 11%, Enhancing experience 8%, and reducing Stigmatization 6% respectively. Overall, the number of publications on endometriosis support groups revealed the important reasons why women seek illness-related support groups. The finding is similar to many social network researchers Wilson, Mogan, and Kaur (2020); Coulson (2005); Moradi et al. (2014); Sormunen et al. (2020) suggest chronically ill people may receive different types of social support depending on the form and content of their networks. This pattern encourages researchers to include more social support studies in women's health settings in the future.

# 4.2 Main Findings

## 4.2.1 Examining the efficacy of virtual support communities for endometriosis patients

Over time, research on social support groups on platforms like Facebook has used numerous methods to construct, analyse, and evaluate their efficacy in patients' lives. Figure 4 shows a summary of how these platforms were efficient in providing support for Endometriosis patients. The 36 selected articles had overlap in the above-mentioned efficiency of Endometriosis support group.

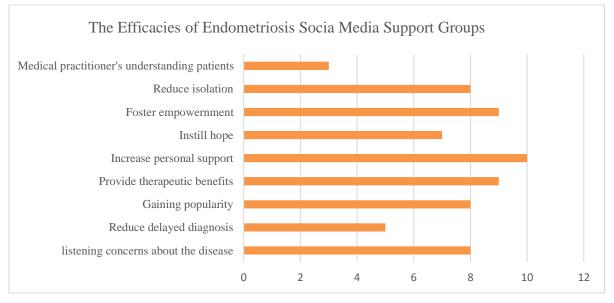


Figure 4: The efficacies of endometriosis social media support groups

# 4.2.2 Enhancing understanding among medical practitioners

Figure 4 outline ways in which social media support groups for endometriosis patients enhances understanding. Medical practitioners improved understanding of patients' needs will help them to better connect with patients and provide them with suitable treatment and support (Marki, Vasarhelyi, & Rigo, 2022). Many physicians and nurses are unaware that user interactions were oriented around knowledge, emotion, and community building (Wilson et al., 2020). Endometriosis support group in Malaysia, for example, was designed as a social network in which peers offer support, establish friendships, and exert cultural interactions (Wilson et al., 2020). Thus, several support group members reported using them not only for emotional but other kinds of support. Three reviewed articles showed that researchers, doctors and nurses must be more aware of patients' diagnosis but also their needs.

# 4.2.3 Reducing isolation

Online support groups can also reduce loneliness, empower, inspire optimism, and increase personal support (Malik & Coulson, 2008). This is evident in the review in which eight (8) articles made reference to support groups and their role in reducing isolation. The articles mentioned that support groups play a huge role in helping patients feel less lonely, increase social skills and have a better awareness about their diagnosis.

## 4.2.4 Fostering empowerment

According to Barak (2008), online support group membership and outcomes may increase personal empowerment. These personal experiences can emerge through writing, which provides an emotional outlet, conceptual understanding of the disease, emotional relief, knowledge sharing, and interpersonal relationships. Out of 36 articles reviewed, nine (9) mentioned how social support groups play a role in empowering patients.

## 4.2.5 Instilling hope

Social support is viewed as a coping mechanism that instils patients with optimism over their illness management (Whitney, 1998). Similar to a community that provides both comfort and hope, these social support groups enable patients to share their stories and experiences, while other patients sympathise and offer hope, particularly to women with infertility. Seven (7) articles reviewed indicated the value of social support as a coping strategy (Whitney, 1998).

# 4.2.6 Increasing personal support

The benefits of social support groups in enhancing personal support for patients was discussed in ten articles. Participating in a support group surrounds patients with others who share similar sickness or illness experiences. Mutual understanding among support group members is crucial and helps to diminish loneliness, worry, despair, and exhaustion from managing illness alone. It is clear from these studies, meeting people with similar difficulties helps to boost personal support (Coulson, 2005).

# 4.2.7 Providing therapeutic benefits

According to the data shown in Figure 4, nine (9) publications assert the therapeutic advantages received by patients online. The four therapeutic benefits of online support groups, according to Shoebotham and Coulson (2016), are (1) the ability to connect, which allows people to share advice, confide in someone, and lift their loneliness; (2) the capacity to learn, which comes

with the ability to connect; (3) the ability to communicate their stories and read about others' stories; and (4) the ability to self-present.

# 4.2.8 Gaining popularity

According to the review, about eight studies revealed that support groups are gaining popularity. Many of these groups were founded on the idea that people going through similar struggles could help each other (Coulson, 2005). Patients' symptoms and concerns may accompany other gynaecological or non-gynaecological disorders including pelvic inflammatory disease, irritable bowel syndrome, and adenomyosis. Endometriosis, on the other hand, is a chronic disease with unrelated stages and symptoms. It is also underdiagnosed, underreported, and understudied (Gao et al., 2006). Therefore, there is a pressing need for further research to be conducted on endometriosis support groups in order to gain a better understanding of the condition from the patient's point of view.

## 4.2.9 Reducing delayed diagnosis

Delays can be caused by failing to order a diagnostic test, establish a differential diagnosis, or obtain and assess pertinent clinical information. Nine (9) or 25 percent of articles reviewed, discussed how these support groups are overcoming delayed diagnosis which can bring negative impact on patients' health. Surveys and interviews from the research conducted shows that people with endometriosis utilise internet to understand, experiment with, and navigate their symptoms (Marki et al., 2022). Researchers and practitioners should recognise these efforts since patients are gaining knowledge and understanding of their ailment through Internet and social media, which lowers delayed diagnosis.

# 4.2.10 Listening to others' concerns

Listening to patients' complaints is also important in improving the efficacy of these platforms. Eight (8) of the articles reviewed revealed that people want to talk about their health concerns. Cleak and Howe (2004) discussed the interaction between patient health, health status, and social networks, which affects informational and emotional decision making to manage sickness and the management of a recently diagnosed illness (Ahlberg & Nordner, 2006; Aurora et al., 2007).

## 4.2.11 Types of support women receive on social media support groups

The data below shows types of support that women receive from social media support groups specifically for endometriosis patients:

Types of Support	
Moral Support	
Educational Support	
Assistance support	
Emotional Support	
Informational Support	
Community Building Support	
Esteem Support	
Network Support	
Tangible Support	
Figure 5: Types of support	

Different online support groups help women in different ways (Sormunen et al., 2020; Wilson et al., 2020). People often talk about their medical treatments and medications on their Facebook walls, with some even mentioning names of specific medications (Wilson et al., 2020). In addition, members of social support groups may provide information on medications and procedures (Coulson, 2005). For instance, people who participate in infertility forums gain access to knowledge regarding fertility therapies and emotional support as they work through the challenges of dealing with infertility (Sormunen et al., 2020). According to Coulson's (2005) paradigm, five types of assistance help patients deal with the debilitating effects of their illness: (1) emotional support, (2) esteem support, (3) information support, (4) network support, and (5) tangible support. Indeed, Malik and Coulson (2008) discovered four primary motivations for requesting online assistance: (1) the support is available 24 hours a day, seven days a week, (2) the anonymity of online contact allows for free discussions of feelings and support, (3) candid and very personal conversations of sensitive, difficult, and negative situations and emotions, and (4) a focus on women's experiences.

Fertility may affect patients experiences and support needs. For example, endometriosis patients may begin treatment with little knowledge of the processes involved, such as multiple surgeries, medication, dietary concerns, the search for a skilled gynaecologist, efforts to conceive, the latest medical interventions, and many other related concerns, and they may want

to talk to other patients who have similar experiences. Our findings also echo the research by Grunberg et al. (2018) in which patients seeking infertility treatment expressed interest in mobile peer support that allows for monitored peer-to-peer communication and access to fertility-related information.

Several studies have shown that Facebook (FB) is an effective platform with many benefits, such as the ability to reach a hidden segment of the population for improved health care interventions. Increasing trends in online health-seeking behaviour among the public have been discovered in published literature and local surveys in Malaysia (Zhao & Zhang, 2017). These findings show that Facebook is a unique online platform that helps people form support groups that provide moral support, knowledge, and help in dealing with disease and communication issues. To the researcher's knowledge, no study to date has examined Malaysia's Endometriosis Online Support Groups. This review allows women to discuss their condition online without fear or prejudice. Empowering Malaysian women facing infertility and creating online support groups could improve patient-provider communication.

#### **5.0 CONCLUSION**

This paper provides a comprehensive evaluation of research on social media support groups for women with endometriosis in a variety of health settings from 1998 to 2022. There were 36 publications examined, covering a wide range of topics related to online female communities. Researchers have studied the effectiveness of social media support groups for women with endometriosis and the different forms of support these women have received in recent years (2018-2022). The study reveals seven prevalent themes derived from the 36 articles, with the top three being, (1) support, (2) information (3) education pillars for endometriosis patients being in an online support group.

It also investigated the efficacy of these online support groups and found that these groups are efficient in (1) increasing personal support (2) providing therapeutic benefits and (3) fostering empowerment. The types of support give researchers an idea of the kind of support is available for this patient. We believe that this study will help inform other researchers about the gaps in the current research and help them better position their future investigations. The paper suggests more research on social media support groups for women's illnesses, especially infertility, using mix method research to analyse more women's groups and examine their role in allowing women to discuss their illnesses online without fear of repercussions. Empowering Malaysian infertile women and creating online support groups could improve patient-provider communication.

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