8 IZ BSF 5 IFJS / FFET / FHMFDUFE 4 PVSDF \$ PMPSFDUBM \$ BODFS 4 VSWJWPST 5 IFJS 4 USBUFHJFT UIFZ & NQMPZFE

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presented by the survivor to the oncologist end up being addressed Varvogli & Darviri (2011) observe that patients and families who are able to use e ective or healthy coping strategies such as relaxation while the caregiver's needs are not taken care of.

Averyt & Nishimoto (2014) and Grant et al. observe that colorectal constructions hav cancer survivors with colostomy, and their caregivers should be monitored for psychosocial concerns on a regular basis and health care providers should tailor care based on individual patients' and the family caregivers' needs [11,12]. Grant et al. concluded that approaches of survivorship, care and psychosocial interventions in colorectal been shown to have lower levels of depression, anxiety, and symptoms

cancer survivors with colostomy, should take into account famil@oping strategies

caregivers' needs and gender speci c concerns and requirements to aid Saidi et al. (2010) postulates that colostomy formation which is

Statement of the problem

part of surgical treatment of colorectal cancer results in the loss of an important body function [23]. is adversely a ects the quality of life of both the patient and caregiver. Whenever there is unexpected

Caregivers can determine the outcomes of the disease treatment waste collection, the caregiver has to attend to the patient who is and management process. ey are an important stakeholder in the mmobile, and this may result in long-term consequences such as healthcare sector, not just for individual patients but also to the healthsturbed sleep and enormous challenges for personal hygiene and of the general population. However, their needs are o en neglected are [23]. Colostomy formation and care has psychological and social is study focused on caregivers of patients who had survived colorectal onsequences that can be complex and persistent for both the caregiver are upport groups. cancer and who regularly attended a colorectal cancer support ground patient, requiring psychosocial interventions which need regular meeting organized by Stoma World Kenya in Nairobi. ese caregivers monitoring and tailored care [23]. ey added that approaches of bore the burden of both the physical and psychosocial e ects of survivorship care and psychosocial interventions in colorectal cancer colorectal cancer, leading to high levels of post-traumatic stress vivors with colostomy, should take into account gender speci c reactions which are normally not addressed [15]. Further Radeckincerns and requirements to aid adjustment. et al. (2014) noted that, in both the family caregivers and the patient,

depression, anger, anxiety, insomnia, feelings of worthlessness, attitudesSeveral studies have described various coping strategies for of hopelessness and reduced self-esteem frequently accompany capatients of colorectal cancer and family caregivers to reduce the levels diagnosis, treatment and rehabilitation [16]. is negatively in uences of depression, anxiety, and symptoms from treatments and cope with family dynamics and coping mechanisms leading to counselling needs sociated psychological stress. ese strategies include meditation, among the patients and their caregivers. e treatment outcomes and elaxation, counselling, exercise, cognitive behavioural therapy, joining quality of life for both patients and family caregivers is determine support groups, educating others about the disease, participating in by the coping methods they utilize whether action oriented or intracolorectal cancer research, information gathering from the internet, psychic, to minimize the trauma associated with a cancer diagnosibanging lifestyle patterns and seeking alternative treatment options, and subsequent treatment [15]. With incidences of cancer prevalenbeving a high self-esteem, realistic optimism, the ability to nd meaning increasing in Kenya, many families are expected to take care of the ven in traumatic experiences, the tendency to perceive stressful event members who have been diagnosed with cancer. e quality of care less threatening ways and the ability to reframe adverse experience given by family caregivers is dependent on their level of preparedness more positive light [24-26,22].

and state of mind. ere is therefore need to nd out the sources of Cancer family caregivers are a unique population whose needs stress for caregivers of colorectal cancer survivors, their stress reactions of en superseded by those of the ill family member [27]. While for and coping strategies in order to suggest more e ective ways of taking some caregivers the experience is largely gratifying and positive, for care of their needs.

Literature Review

others it is a source of stress and negative emotions [27]. Some studie report caregivers expressed the belief that they must maintain a shroud of silence around all negative emotions and doubts [27].

A number of studies demonstrate that a cancer diagnosis a ects the According to Williams, Van Ness, Dixon & McCorkle (2012), mental health of the patient and their family members and caregivers with depression, stress reactions and anxiety, impaired family relations degree to which caregiver burden is experienced depends on a characterized by decreased communication and intimacy being common [9,17]. Stress reactions and anxiety are particularly common aracteristics [28]. ey further identi ed predictors which include when cancer is diagnosed at advanced stages, and this is devastating patient, as well as caregiver's health status which contribute to the degree and creates weighty strain in personal and family life [17,18]. to which the caregiver experiences the stress reactions. e severity of

Family caregivers of colorectal cancer survivors are poorlyymptoms is another key determinant of the caregivers' burden [29]. prepared to cope with the nature of the disease and long complex treatment regimens [19]. As clinicians focus on the physical symptoms Cobb et al. found that there are limited studies that have evaluated and the need to aggressively treat the a ected patient, the emotion are impact of a colorectal cancer diagnosis on the family caregivers [30]. and psychosocial trauma caused by the disease and treatment to the also found that the majority of caregiving research has focused family caregiver is o en overlooked) [19]. Family caregivers o en^{on} negative aspects of caregiving such as caregiver burden, stress face a range of stressors, including occupational and nancial strain strain strain and demands. e positive as some have to abandon their own formal employment to take care of the a ected family member, change in family roles and disrupted esilience have not been addressed.

household routines leading to anxiety and stress reactions that are Williams & Bakitas (2012) observe that informal caregivers play o en neglected by oncologists and other health care [20]. a role of growing importance in providing optimal health care to

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patients with oncology and other chronic illnesses [29]. ey also stateConceptual framework (Figure 1) that, though caregiving is a challenging role, it can also potentially have positive aspects for the caregiver. Williams & Bakitas (2012) and Cobb Variable: Psychological stress reactions and coping strategies et al. conclude that caregiving also has cultural aspects which have non-concernent the independent variables. Demographic factors such as nances, gender, age, education level, employment status, marital been well explored [29,30]. status, and stage of colorectal cancer the survivor is at, are intervening

eoretical framework

variables. Counselling needs were considered as dependent variables. eories of coping strategies: Coping has been de ned as is study concentrated on the gender, age, education level, constantly changing cognitive and behavioural e orts to managemployment status and marital status of the respondents, to establish

speci c external and/or internal demands that are appraised as taxing two reduce cles. Counselling, that had by italy exceeding the resources of the person [31]. Research has distinguished between problem-focused and emotion-focused coping with Blum & Sherman (2010) and Mosher et al. suggesting that problem-focused coping is directed at managing or altering the problem causing the distress when stressful encounters are appraised as responsive to change [31,32], while Mello et al. observe that emotion-focused coping consists of actions or thoughts to control the undesirable feelings that result from stressful circumstances and more o en occurs through avoidance distancing and selective attention [33].

Cognitive Behavioural Family erapy

Cognitive behavioural family therapy aims to help people become aware of their negative patterns of thinking, their interpretations, and the behavioural patterns which reinforce distorted thinking, leading to stress reactions. is therapy helps people to develop alternative ways of thinking and behaving which aim to reduce their psychological distress. Family caregivers of patients with cancer and cancer survivors report a number of psychological complaints, such as anxiety and depression and physical grievances because of the burden associated with providing care [34].

e principles of cognitive behavioural family therapy by Dattillio (1993) are useful when counselling the family caregivers of the colorectal cancer survivors according to their identi ed counselling needs [35]. Mia et al. stated that this is a form of psychotherapy that combines cognitive therapy, a type of talk therapy that seeks to identify and help change self-destructive thought patterns, with behaviour therapy, an approach that assists people to identify unhealthy beliefs and behaviours and replace them with positive ones [34]. Cognitive behaviour therapy has been shown to be e ective in other Post Traumatic Stress Disorder populations and also for cancer-related adjustment problems such as anxiety [36].

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face-to-face interviews were conducted with 20 caregivers who werehold masculinity while women learn their gender role as they grow not pro cient in English. For the questionnaire, a Likert scale wasp, thus developing a sense of obligation that caregiving is an inborn utilised. e questionnaire focused on the variables re ecting the trait and a source of ful lment of their natural role [40]. In a study done study's main purpose and their dimensions which were information by Longacre (2013), she found that a signi cantly higher percentage needs and sources, sources of stress and coping strategies among faorhilynale caregivers reported needing more information pertinent care givers of colorectal cancer survivors.

Attitude of coping with stress inventory (ACSI) modi ed tool invented by Lazarus & Folkman (1984) was utilized [38]. ey observed that individuals deal with stress in two basic ways: in problem-focused coping, where they directly address the threat by trying to change the situation; and in emotion-focused coping, where they try to make themselves feel better about the threat.

e modi ed tool used in the study had 22 psychometric responses, with Likert scale ranging 1-5, where '5' indicated the family caregivers who were 'extremely a ected' and '1' those who were 'not a ected at all'. is tool consisted of Intrusion, Hyper-arousal, Avoidance and Social Support subscales. A modi ed structured question sheet was used as a guidance for face-to-face interviews of the group that was not pro cient in English [39].

Instrument pretesting

In order to ensure the reliability and validity of the data collection instruments, 3 questionnaires and interview schedules were tried out to a group of randomly selected respondents of family caregivers of colorectal cancer survivors who were pro cient in English and present for the support group meeting when the pretesting study was carried out. ese did not participate in the actual study.

Data analysis

ematic analysis was used to analyse the data collected. e themes discussed in this study were the information needs and sources as coping strategies against stress for caregivers of colorectal cancer survivors. e quantitative data obtained was analyzed using Microso Excel spread sheet and was presented using frequency distribution tables.

Ethical Considerations

An informed consent was obtained from the respondents and informants. e informed consent explained the study's purpose, procedures, risks and bene ts, as well as assurances about the participants' con dentiality. A research permit (Ref. NACOSTI/P/18/91818/23912) was obtained from the National Commission for Science, Technology and Innovation (NACOSTI), the government agency charged with approving research in Kenya. e ethical and governance body of the Aga Khan University Hospital granted permission for the study (Ref. 2018/REC-76 vI). As required by the Aga Khan University Hospital, a member of their sta assisted with administering the questionnaires and organizing the face-to-face interviews.

Findings and Discussion

Descriptive analysis

e survey questionnaire was distributed to the colorectal cancer survivors' caregivers who were pro cient in English. ere were 20 caregivers who responded to the questionnaire (Table 1).

Table 1 above illustrates that out of the 20 questionnaire respondents, 5 were male constituting 25% of the respondents while 15 were female, constituting 75%. is shows that most of the family caregivers were females. Robinson, Bottor, Pesut, Oli e & Tomlinson (2014) explain that male caregivers experience societal pressure to

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	Not at all	A little bit	moderately	Quite a bit	Extremely	Total
Felt irritable and angry	1	1	1	4	13	20
:DV MXPS\ DQG VWD	и w о н ø	1	2	9	6	20
Trouble sleeping	0	2	3	8	7	20
Trouble concentrating	0	4	2	7	7	20
Reminders caused me physical reactions	0	1	6	10	3	20
:DV ZDWFKIXO DQG R	Q JXDUJG	1	2	5	12	20
Total	3	10	16	43	48	120

Table 7: Stress Reactions on Hyper Arousal Scale.

	Not at all	A little bit	Moderately	Quite a bit	Extremely	Total
Away from reminders	4	2	1	3	10	20
Tried not to think about it	0	3	5	10	2	20
:DV DZDUH KDG IHHOL	QJV DEIRXW L	W 1	3	8	7	20
Feeling numb about diagnosis and treatment	1	2	3	5	9	20
Tried to remove experience from memory	2	0	1	9	8	20
Tried not to think about it.	2	2	2	5	9	20
Total	10	10	15	40	45	120

Table 8: Coping Strategies on Avoidance Scale.

	Not at all	A little bit	Moderately	Quite a bit	Extremely	Total
Talked to someone for more information.	2	3	0	5	10	20
Asked a relative or friend for advice.	2	3	3	5	7	20
Talked to someone about my feelings	3	1	4	4	8	20
Talk to someone for help about side effects.	3	1	2	8	6	20
Got professional help.	12	4	2	0	2	20
Total	22	12	11	22	33	100

Table 9: Coping strategies on seeking social support.

Relationship	No.
Spouses	5
Brothers	2
Sisters	1
Son	2
Daughters	2
Mothers	3
Father	1
Hired	4
Total	20

Table 10: Relationship with the survivor.

Internet, fellow patients from the support groups, and NGOs provided information to more family caregivers than the doctors and nurses. Some respondents obtained information from more than one of the sources. Information needs and the need for psychosocial support are intertwined. To reduce possible stress reactions and to be able to o er better care and management to the patients, caregivers need adequat and reliable information. is emphasizes the need for a framework through which caregivers can call or visit the hospital whenever they have questions or are facing a crisis [48].

Table 13 above illustrates the family caregivers' responses to their source of support for caring for the survivor with 25% (n=5) saying support came from their friends, 25% (n=5) from NGOs, and 50%

(n=8) said no, while 15% (n=3) did not respond. Further, 40% (n=8h=10) from their relatives (extended members of family). Evidence who had not been involved when diagnosis of colon cancer was mathat caregivers get assistance from social support networks in caring reported to have been involved when the survivor was being discharged their patients are an indication that caregiving is a communal from the hospital. By not involving caregivers in discussions about the sponsibility. It is never fully le to an individual or a family. is patients' diagnosis, oncologists and nurses were denying the caregivers about the burden of stress on the caregiver lighter. However, the critical information that could enable them take care of the patientact that caregivers did not list healthcare personnel as part of their more e ectively. Longacre (2013) observes that information needs gource of support shows that a er successful surgery for cancer and cancer caregivers and their own personal needs have to be accounted pletion of chemotherapy and related treatments, it is assumed that for, to ensure proper continued support and care of the survivor a ethe family has adjusted enough to cope with the physical changes that colorectal cancer and its treatment brings. ere is need for continued

Table 12 above illustrates the family caregivers' responses to the unselling and support long a er completion of treatment. Caregivers source of information on how to care for the survivors. e responses need counselling support to deal with the altered self-image of the were as follows: 20% (n=5) learnt through their friends, 20% (n=5) and psychological changes from cancel from the Internet, 20% (n=5) from fellow patients from the support treatment may become pronounced when the patient goes back to his group, 20% (n=5) from NGOs and 12% (n=3) learnt from doctors and r her family, thus the need to continue with supportive counselling nurses at the point of discharge, 4% (n=1) struggled to get information community level within the context of support groups (Cobb et al. and 4% (n=1) had no information from any source. Friends, the 2016) [30].

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Responses	No.
Yes	9
No	8
No response	3
Total	20

Table 11: Caregiver's involvement in diagnosis and treatment.

Sources of information	No.
Friends	5
Internet	5
Patient	5
NGOs	5
Doctors & Nurses	3
Struggling to know	1
None	1

Table 12: Sources of information for caregivers.

Sources of Support	No.
Friends	5
NGOs	5
Relatives	10

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