Family caregiving often is associated with multiple rewards, yet the diversity and intensity of caregiving roles also can result in caregiver strain and burden. Using interventions to reduce the strain and burden on caregivers of patients with cancer is an important role nurses play. This article is a critical review and synthesis of the evidence regarding assessment tools and interventions aimed at reducing caregiver strain and burden in the oncology population. Although the striking finding is the limited number of interventions targeted toward oncology caregivers, suggestions from the literature are offered to support and promote healthy outcomes for family caregivers.
Background

An estimated 1.4 million new cases of cancer will be diagnosed in 2008 (American Cancer Society, 2008), and many of those diagnosed with cancer will eventually require support or care from an informal caregiver. An informal caregiver is a person who is not paid and provides physical, emotional, financial, or other support to a patient with cancer. Women are caregivers more often than men, and more than one-third of those living with and providing routine care for patients are aged 55 or older (Alexich, Zeruld, & Olearczyk, 2001). Immediate family members serve as informal caregivers most often; however, other people who share a significant bond with the patient also may serve in caregiving roles (Sherwood et al., 2006). According to Arno (2006), the total value of uncompensated informal care in the United States is more than $306 billion, more than two times the cost of nursing home services and home care. However, most care services by informal caregivers are not financially compensated (Arno). Because the anticipated need for caregivers is expected to grow as Americans live longer, a critical need exists to define and implement interventions that reduce caregiver strain and burden.

The complexity of caregiver roles often is variable and difficult to define. Caregiving for patients with cancer often requires multidimensional support that extends across physical, psychological, spiritual, and emotional domains. For example, caregiving may be solely limited to physical care, such as help with toileting or eating, or extend to multiple areas, such as providing intense 24-hour care, emotional support, or financial assistance. In an effort to fully appreciate possible burdens associated with caregiving, exploring other terms associated with the caregiving role is important. Caregiver strain, an evolving term, occurs when caregivers perceive difficulty performing roles or feel overwhelmed by their tasks (Archbold, Stewart, Greenlick, & Harvath, 1990). Other terms, such as objective burden, describe events or activities associated with the caregiving role. These activities include delivering practical physical care on a day-to-day basis or managing challenging behavioral changes in the patient. By contrast, subjective caregiver burden often is less apparent and describes emotional reactions of the caregiver to the caregiving role, such as worry, anxiety, frustration, or fatigue (Pinquart & Sorenson, 2003).

It is important to acknowledge the fact that health hazards are associated with caregiving and that they can lead to an increased risk of caregiver mortality (Beach, Schulz, Yee, & Jackson, 2000; Schulz & Beach, 2000; Vitaliano, Zhang, & Scanlan, 2005). Nurses need to recognize caregiver strain and burden and, in turn, implement effective interventions aimed at reducing them.

Method

To develop an evidence-based approach to evaluating and relieving caregiver strain and burden, an Oncology Nursing Society (ONS) Putting Evidence Into Practice® (PEP) project team was formed. The team composition was based on guidelines developed by ONS and mirrored previous PEP teams. It consisted of one senior researcher and two advanced practice/staff nurse dyads. Other content-based expert researchers worked parallel to the resource team to develop recommendations for research and practice that could be used by oncology nurses at various points of care.

Assessing Caregiver Burden

Measuring caregiver burden presents unique challenges to both clinicians and researchers. Several instruments have been developed to assess the burden of providing care to a family member with cancer (see Table 1). Clinicians and researchers should consider the information provided in Table 1 when choosing a tool for use. The instrument should measure multiple aspects of burden, have established reliability and validity in the oncology caregiver population, be easily obtained and scored, and be brief enough to prevent respondent and administrator burden. Once these criteria are satisfied, users must decide whether their measure of burden will be objective, subjective, or both.

An objective measurement of caregiver burden is comprised of variables, such as the number of hours that care is provided or the number of tasks the caregiver performs on behalf of the patient (Bookwala & Schulz, 2000; Gaugler et al., 2005). An advantage of objective measures is that they are less susceptible to response bias resulting from caregivers’ feelings of distress (Porter et al., 2002). Objective measures often are short, are easily administered, and provide a straightforward way to identify tangible areas for intervention. In addition, using objective measures may be easier for caregivers than rating their own emotional responses to providing care. The primary disadvantage to using a strictly objective measure of caregiver burden is that the impact of providing care on the caregivers’ lives is not assessed. Therefore, such measures provide an assessment of one component of caregiver burden that may not accurately represent the complexity of caregivers’ distress and may overlook areas that cause the greatest distress.

Subjective measures of caregiver burden examine the degree of emotional distress that providing care has on the caregiver (Givens et al., 1992; Robinson, 1983; Zarit, Reever, & Bach-Peterson, 1980). Subjective measures of burden may be considered more accurate representations of caregivers’ emotional reactions to the impact of providing care, particularly in relationship to the development of depressive symptoms (Sherwood, Givens, Givens, & von Eye, 2005). In addition, several researchers have suggested that objectively measured tasks do not lead to caregiver distress but, rather, it is the way in which caregivers perceive the bother associated with those tasks (Schulz & Beach, 2000). The researchers suggest that strictly objective measures of caregiver burden may not accurately identify caregivers at risk for negative consequences from providing care.

Limitations exist for using a strictly subjective measure of caregiver burden. Items on subjective measures may be more difficult for caregivers to answer and the instruments typically contain multiple items, which may increase their length and limit their clinical applicability. To improve clinical applicability, use of a brief screening tool or selected subscales of a longer instrument may be beneficial. Several instruments have been developed that concomitantly assess both subjective and objective burden (Portenoy et al., 1994; Stetz, 1987). The measures ask caregivers to indicate a patient issue or task with
which they provided assistance and then ask caregivers to rate the amount of distress or degree of difficulty associated with that issue or task. The primary advantage of using such measures is that multiple aspects of burden can be assessed, which is important because objective and subjective levels of burden often change over time as a result of changes in care demands. The downside of using such measures is that they, too, can be cumbersome and difficult to complete in busy clinical settings.

Measuring caregiver burden in the clinical and research arena should ideally be done with a multidimensional, valid, reliable, and clinically relevant tool. Continuing to implement and evaluate how the measures perform is crucial in determining their applicability to caregivers of patients with cancer. Once a caregiver is assessed to have strain or burden, focus should be placed on applying interventions to reduce such effects.

### Literature Review

To ensure optimal study retrieval related to caregiver strain and burden, multiple databases were searched, including Ovid’s MEDLINE®, PubMed, PsycINFO, and the Cumulative Index to Nursing and Allied Health Literature (CINAHL®). The search was limited to studies of adult oncology populations published in English in peer-reviewed journals from 1995–2006. Key search terms included caregivers, caregiving, family, spouse, burden, strain, cancer, oncology, intervention, randomized controlled trial, and review or meta-analysis. Review or meta-analysis articles were included only if they covered oncology populations. Finally, to ensure a comprehensive search, a medical librarian was consulted and a manual search was performed to evaluate the reference lists of retrieved sources.

To begin the review process, the senior researcher guided the PEP team through several literature reviews using the Critical Appraisal Skills Program (CASP©, Public Health Resource Unit) evaluation guide adapted by Guyatt, Sackett, and Cook (1993, 1994). The CASP tool guided the team through a critical review of a study using specific criteria. Tables of evidence were created to identify key points of each study for consistency throughout the review (see tables posted at www.ons.org/outcomes/volume2/caregiver.shtml). The use of consistent and objective criteria added structure to the synthesis process and trustworthiness to conclusions for the team (Cooper, 1998).

Following each guided critique using the CASP tool, studies were ranked from level 1 to 8 by rigor of the evidence, with level...
indicating optimal evidence (Ropka & Spencer-Cisek, 2001). To ensure clarity and consistency across topics, the assigned levels of evidence were validated with a leader/researcher dyad from another ONS PEP team who agreed with the team's analyses and conclusions.

Attention was then focused on rating the effectiveness of interventions in reducing caregiver burden. Accordingly, each intervention was given a weight of evidence to reflect its usefulness and value in making recommendations for practice (Mitchell & Friese, n.d.). Interventions were assigned to one of six weight-of-evidence categories, recommended for practice, likely to be effective, benefits balanced with harms, effectiveness not established, effectiveness unlikely, or not recommended for practice to be consistent with previous PEP resources (see Table 2).

**Results**

**Interventions**

Although caregiver burden carries considerable interest in the literature, a striking finding of this review was the limited number of studies addressing interventions for caregiver strain and burden in oncology. An extensive literature search yielded only 20 intervention studies and only eight specifically cited outcome measures for strain and burden. Of those, four studies were published from 1995–2000 and four were published from 2001–2006. In addition, two systematic reviews (Harding & Higginson, 2003; Pasacreta & McCorkle, 2000) and two meta-analyses (Martire, Lustig, Schulz, Miller, & Helgeson, 2004; Sorenson, Pinquart, & Duberstein, 2002) met study inclusion criteria. Both systematic reviews (22 and 29 studies, respectively) exclusively examined cancer and/or palliative care samples. However, 90% of the caregiver samples in the meta-analyses (70 and 78 studies, respectively) represented mixed samples of caregivers dealing with a variety of chronic illnesses, therefore limiting their use in the review. An effort was made to seek published guidelines; however, none was found.

To be consistent with previous research, the team used intervention categories and definitions (see Table 3) parallel to those established in the meta-analysis by Sorenson et al. (2002). This approach was established in consultation with expert researchers in an attempt to achieve optimal consistency in reporting. Categories reflected the focus of the intervention that was developed for caregivers and included psycho-educational, supportive, psychotherapy and/or cognitive behavioral, massage or healing touch, multicomponent, respite or adult day care, and interventions to improve recipient competence.

**Psycho-educational:** Psycho-educational interventions in this review described structured programs of information for caregivers. A psycho-educational intervention might provide information about a patient’s disease process or delineate available resources, services, or training that might assist caregivers. Some psycho-educational interventions were individual

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Table 2. Putting Evidence Into Practice® Weight-of-Evidence Classification Schema

<table>
<thead>
<tr>
<th>WEIGHT-OF-EVIDENCE CATEGORY</th>
<th>DESCRIPTION</th>
<th>EXAMPLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended for practice</td>
<td>Effectiveness is demonstrated by strong evidence from rigorously designed studies, meta-analyses, or systematic reviews. Expected benefit exceeds expected harms.</td>
<td>At least two multisite, well-conducted, randomized, controlled trials (RCTs) with at least 100 subjects Panel of expert recommendation derived from explicit literature search strategy; includes thorough analysis, quality rating, and synthesis of evidence</td>
</tr>
<tr>
<td>Likely to be effective</td>
<td>Effectiveness has been demonstrated by supportive evidence from a single rigorously conducted controlled trial, consistent supportive evidence from well-designed controlled trials using small samples, or guidelines developed from evidence and supported by expert opinion.</td>
<td>One well-conducted RCT with fewer than 100 patients or at one or more study sites Guidelines developed by consensus or expert opinion without synthesis or quality rating</td>
</tr>
<tr>
<td>Benefits balanced with harms</td>
<td>Clinicians and patients should weigh the beneficial and harmful effects according to individual circumstances and priorities.</td>
<td>RCTs, meta-analyses, or systematic reviews with documented adverse effects in certain populations</td>
</tr>
<tr>
<td>Effectiveness not established</td>
<td>Data currently are insufficient or are of inadequate quality.</td>
<td>Well-conducted case control study or poorly controlled RCT. Conflicting evidence or statistically insignificant results</td>
</tr>
<tr>
<td>Effectiveness unlikely</td>
<td>Lack of effectiveness is less well established than those listed under not recommended for practice.</td>
<td>Single RCT with at least 100 subjects that showed no benefit No benefit and unacceptable toxicities found in observational or experimental studies</td>
</tr>
<tr>
<td>Not recommended for practice</td>
<td>Ineffectiveness or harm clearly is demonstrated, or cost or burden exceeds potential benefit.</td>
<td>No benefit or excess costs or burden from at least two multisite, well-conducted RCTs with at least 100 subjects Discouraged by expert recommendation derived from explicit literature search strategy; includes thorough analysis, quality rating, and synthesis of evidence</td>
</tr>
</tbody>
</table>

*Note: Based on information from Mitchell & Friese, n.d.*
(McMillan et al., 2006) and others were offered in a group format (Sorenson et al., 2002). Within a group format, a trained leader may lecture, encourage group discussions, or provide written materials. Support may or may not be a part of a psychoeducational group, but it is secondary to the educational content. Most interventions reported in the review were psycho-educational strategies. In fact, seven of the eight studies found employed psycho-educational approaches (Ferrell, Grant, Chan, Ahn, & Ferrell, 1995; Harding et al., 2004; Jepson, McCorkle, Adler, Nuamah, & Lusk, 1999; Keefe et al., 2005; McMillan et al.; Pasacreta, Barg, Nuamah, & McCorkle, 2000; Toseland, Blanchard, & McCallion, 1995). Psycho-educational interventions from these studies include
- Teaching symptom management
- Discussing psychosocial issues
- Identifying resources
- Discussing coordination of services
- Teaching caregiver self-care.

**Supportive**: Supportive interventions aimed at caregivers were offered in individual or group formats and were led by a professional or a peer (McMillan et al., 2006; Sorenson et al., 2002). Supportive interventions focused on building rapport and creating an opportunity and forum to discuss difficulties, successes, and feelings regarding caregiving. Conclusions from the meta-analysis by Sorenson et al. suggest that supportive interventions were effective in reducing caregiver burden among caregivers from heterogeneous chronic illness populations (e.g., patients with dementia, elderly patients with physical or mental disabilities, those suffering from stroke or cancer). Supportive interventions (Sorenson et al., 2002) from these studies include
- Allowed participants in group settings to provide mutual support to one another
- Provided opportunities to share ways to deal with caregiving difficulties
- Identified strategies to incorporate these ideas into care.

**Psychotherapy and cognitive behavioral**: Psychotherapy and cognitive behavioral approaches for caregivers facilitate the development of a therapeutic relationship between the caregiver and a trained professional. The professional therapist helps the caregiver identify strategies to manage personal distress, whereas, in cognitive behavioral approaches, caregivers are taught to develop self-monitoring skills. Sorenson et al. (2002) concluded that these types of interventions are likely to reduce caregiver burden. Examples include
- Challenging negative thoughts or assumptions that encourage difficult behaviors
- Using strategies that help develop problemsolving abilities
- Focusing on time management, work overload, or emotional reactivity management
- Encouraging caregivers to re-engage in pleasant activities and positive experiences.

### Table 3. Interventions to Reduce Family Caregiver Strain and Burden

<table>
<thead>
<tr>
<th>INTERVENTION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psycho-educational</td>
<td>Uses a structured program geared toward providing information about the patient’s disease process, available resources and services, and training for caregivers so they can effectively respond to disease-related issues in individual or group formats. In the group format, a trained leader lectures, encourages group discussions, and provides written materials. Support may be a part of a psychoeducational group, but it is secondary to the educational content.</td>
</tr>
<tr>
<td>Supportive</td>
<td>Supportive interventions can be offered in an individual or group format and led by either a professional or a peer. Focus is placed on building rapport and creating opportunity in which to discuss issues, successes, and feelings regarding caregiving. Supportive interventions may include teaching problem-solving skills and how to use them to meet care demands.</td>
</tr>
<tr>
<td>Psychotherapy</td>
<td>A therapeutic relationship between the caregiver and a trained professional is created. The caregiver identifies strategies for managing distress.</td>
</tr>
<tr>
<td>Cognitive behavioral</td>
<td>Teaches self-monitoring; challenges negative thoughts and assumptions that maintain the caregiver’s difficult behavior; helps caregivers develop problem-solving abilities by focusing on time management, overload, and emotional reactivity management; and helps the caregiver reengage in pleasant activities and positive experiences</td>
</tr>
<tr>
<td>Massage</td>
<td>Involves the therapeutic manipulation of the soft tissues of the body by various hand movements (e.g., rubbing, kneading, pressing, rolling, etc.) to induce relaxation</td>
</tr>
<tr>
<td>Healing touch</td>
<td>Biofield therapy consists of a group of noninvasive techniques that make use of the hands to clear, energize, and balance the human and environmental energy fields.</td>
</tr>
<tr>
<td>Respite or adult day care</td>
<td>Includes in-home or site-specific supervision, assistance with activities of daily living, or skilled nursing care designed to give the caregiver time off</td>
</tr>
<tr>
<td>Multicomponent</td>
<td>Interventions include various combinations of educational, supportive, psychotherapy, and respite approaches.</td>
</tr>
<tr>
<td>Interventions to improve recipient competence</td>
<td>Interventions are directed to the patient and include memory clinics for patient competence, particularly those with dementia, and activity therapy programs designed to improve everyday competence.</td>
</tr>
</tbody>
</table>

* Based on information from McMillan et al., 2006

Massage or healing touch: One study examined the benefit of massage therapy or healing touch on caregivers of patients with cancer in an outpatient clinic. The massage and healing interventions were delivered by a certified therapist but failed to demonstrate effectiveness in reducing caregiver strain and burden. However, a significant decline was observed in the depression and anxiety scores of caregivers in the treatment group receiving massage therapy (Rexilius, Mundt, Erickson Megel, & Agrawal, 2002).

Respite or adult day care: Interventions that made use of respite or adult day care were designed to give caregivers important time away from caregiver demands, such as the activities of daily living, supervision, or more skilled nursing care. The benefit of adult day care in variable settings was examined in a multicomponent meta-analysis by Sorenson et al. (2002). In the analysis, 13 of 78 studies described some component of respite care. Because populations in the analysis were not limited to patients with cancer, the benefit of respite care for patients with cancer was not established, although some preliminary results suggest that respite care may indeed reduce caregiver strain and burden in the oncology population (Sorenson et al.).

Multicomponent: Multicomponent interventions for caregivers incorporate various combinations of psycho-educational, supportive, psychotherapy, and respite interventions (Sorenson et al., 2002). These interventions are likely to be most effective at reducing caregiver strain and burden because they use a variety of techniques to address the caregivers’ needs. Multicomponent interventions in two meta-analyses had a moderate effect on reducing caregiver burden, whereas when interventions focused on a single therapeutic activity, such as supportive interventions (e.g., support groups) or psycho-educational interventions, only a small burden reduction was realized (Martire et al., 2004; Sorenson et al.).

The effects of the Coping With Cancer Program (Toseland et al., 1995) were compared to standard care in helping spouses cope with the stress of caring for a partner with cancer. Six individual, one-hour sessions were delivered by an oncology social worker focused on support, problem-solving, and coping skills. No significant difference in caregiver burden was found between caregivers who received the intervention and caregivers who received standard care. However, for caregivers who reported high levels of burden at baseline, the intervention led to significant improvements in their ability to cope with pressing issues.

Interventions to improve recipient competence: Interventions aimed at improving recipient competence included interventions such as memory clinics for those with dementia or activity therapy programs designed to improve affect and daily competence. One meta-analysis (Martire et al., 2004) of five randomized, controlled trials in dementia populations found no effect from this type of intervention on caregiver burden; therefore, the value to patients with cancer is uncertain.

Discussion and Recommendations

Nurse clinicians often intuitively assess for and use many of the previously described interventions to reduce caregiver strain or burden. The lack of evidence demonstrating the effectiveness of such interventions for oncology caregivers is disappointing. Perhaps the way caregiver strain or burden was assessed (i.e., how it was measured in the tool) played a role in this. The tool may not have captured or may not give a true reflection of caregiver strain and burden. Strain and burden are only two of a host of caregiver outcomes. As such, caregiver strain and burden may be less amenable to intervention because of their multidimensional nature.

Although no intervention can be recommended for nursing practice as an evidence-based strategy to reduce strain and burden in caregivers of patients with cancer, nurses should not be deterred from employing interventions as caregiver research progresses. Although interventions in the likely to be effective category (psycho-educational, psychotherapy, supportive) had only a small effect on reducing caregiver burden in cancer populations, the interventions can be used across settings and can be applied with individuals or groups. When personal interventions are not available or possible, telephone conversations, tape-recorded information, or printed materials can be made available. Nurses also are encouraged to employ these interventions with family caregivers because they may have other positive effects, such as less anxiety, greater knowledge, self-efficacy, and confidence in performing caregiving roles (Ferrell et al., 1995; Pasacreta et al., 2000; Rexilius et al., 2002).

Nurses can further assist caregivers by
- Encouraging them to challenge negative thoughts
- Engaging in pleasant and positive activities
- Developing problem-solving abilities that focus on time management, role overload, and emotional control
- Incorporating problem-solving and coping skills into day-to-day care demands.

Certain interventions may benefit some caregivers more than others. Multicomponent interventions may be most valuable for caregivers who report greater burden. Multicomponent interventions are more likely to be effective at reducing burden when they are directed to caregivers who are older, are female, and report greater subjective burden (Sorenson et al., 2002; Toseland et al., 1995). Additionally, the interventions are more likely to be effective when offered to individual caregivers rather than to a group. Interventions offered to spouses alone or to a combination of family members are effective in reducing caregiver burden. Furthermore, including the patient in the caregiver intervention does not change the effectiveness of the intervention (Martire et al., 2004). Overall, interventions have a stronger effect in reducing burden when relationship issues between patients and caregivers are addressed (Martire et al.).

Both systematic reviews in the current synthesis (Harding & Higginson, 2003; Pasacreta & McCorkle, 2000) exclusively examined studies of caregivers in oncology or palliative care populations. However, most study designs were qualitative, descriptive, cross-sectional, or nonexperimental designs; as such, many of the interventions proposed (e.g., competence, support, respite or adult day care) were listed as effectiveness not established until further evidence can be obtained with randomized clinical trials. Despite the fact that some of the interventions studied had positive psychosocial outcomes, they could not document a reduction in caregiver burden. Therefore, those particular strategies require further testing before effec-
tiveness can be established in reducing caregiver burden. Lastly, interventions not found to have an effect on reducing caregiver burden were listed as effectiveness unlikely.

Several studies examined interventions for which insufficient data or data of inadequate strength was noted. The studies often were limited by small sample size and/or attrition of subjects (i.e., in palliative care). It is unknown whether increasing the amount of intervention, allowing more time for caregivers to practice new skills, or using resources after an intervention would change the outcome (Keefe et al., 2003). Therefore, the effectiveness of the interventions in reducing caregiver strain and burden could not be established and, as reported, they could not be weighted as recommended for practice. These strategies may still be used by caregivers. Potentially valuable interventions include strategies that teach caregivers about pain and other symptoms; discuss psychosocial issues; employ massage or healing touch; teach caregiver competence; and identify resources and coordinate existing care, including respite or adult day care. Looking at other populations, such as caregivers of patients with dementia, may reveal interventions that have been tried and found to be successful.

Only two oncology studies in the current review showed effectiveness likely; one in hospice (McMillan et al., 2006), and one in caregivers reporting greater subjective burden (Toseland et al., 1995). Most of the other studies were not able to establish the effectiveness in reducing caregiver burden; therefore, those interventions were categorized as likely to be effective and not established at this time. Other meta-analyses of caregivers of patients with chronic illness exist and there may be some information missing from this review because the search criteria was limited to caregivers of patients with cancer.

**Conclusion**

Caregivers of patients with cancer often face substantial challenges in their caregiving roles, despite a paucity of evidence-based interventions that can be endorsed for practice. Therefore, nurses should continue their efforts to explore and test interventions targeted at reducing strain or burden in caregivers. Measurement tools that screen for caregiver burden must be thoughtfully considered and refined and demonstrate sensitivity to objective and subjective burden (distress) in the caregiver. More research needs to be done, particularly in the oncology population. Defining the mediators to caregiver strain and burden may better explain the effect of interventions on the outcomes of strain and burden. Until evidence-based interventions are unveiled, clinicians should make recommendations based on the limited evidence presented in this review to reduce caregiver strain and burden. Interventions without strong evidence may still be useful and can be recommended for caregivers. Other benefits to caregivers, such as enhanced caregiver self-efficacy, self-esteem, and greater confidence in the caregiver role, were demonstrated with certain interventions and may be valuable for other caregivers. Time and study will determine whether the interventions ultimately reduce caregiver strain and burden in the oncology setting.

The authors gratefully acknowledge the expert reviewers of the caregiver strain and burden PEP resources and cards. Their critique and suggestions helped make this project a success. We also would like to thank the ONS staff for their guidance and assistance as the project took form.

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Interventions for which effectiveness has been demonstrated by strong evidence from rigorously conducted studies, meta-analyses, or systematic reviews and for which expectation of harms is small compared with the benefits.

No intervention can be recommended for nursing practice as of September 30, 2006.

Interventions for which effectiveness has been demonstrated by supportive evidence from a single rigorously conducted controlled trial, consistent supportive evidence from well-designed controlled trials using small samples, or guidelines developed from evidence and supported by expert opinion.

Research in the area of caregiver burden has focused primarily on other chronic illness populations (e.g., dementia) rather than cancer populations (fewer than 10% of studies). Because of this, several interventions are listed as likely to be effective rather than recommended for practice at this time.

**Psycho-Educational Interventions**

Psycho-educational interventions involve structured programs that provide education to caregivers delivered in either an individual or group format. Groups are commonly led by a trained leader and may include lectures, group discussions, and written materials. Content in the psycho-educational interventions may include:

- The patient’s disease process
- Information about resources and services
- Training for caregivers to respond effectively to disease-related difficulties.

Support (which includes facilitating discussion of feelings about caregiving) may be a part of a psycho-educational intervention, but it is secondary to the educational content.

Psycho-educational interventions are likely to be effective at reducing caregiver strain and burden, particularly when they:

- Occur in multiple sessions over time
- Teach problem-solving skills
- Include patient symptom assessment and management
- Teach coping skills
- Are directed to caregivers with greater burden.

**Psychotherapy Interventions**

Psychotherapy involves a therapeutic relationship between the caregiver and a trained professional (special training is required) in which the caregiver identifies strategies to manage his or her distress. The conclusions from one meta-analysis point to psychotherapy interventions as likely to be effective in reducing caregiver burden. This may include:

- Teaching caregivers to monitor their own feelings
- Helping caregivers challenge negative thoughts that may create issues for them

- Helping caregivers develop problem-solving abilities by focusing on time management, role overload, and emotion management
- Helping caregivers engage in pleasant activities and positive experiences.

**Supportive Interventions**

Supportive interventions can be offered in an individual or group format led by either a professional or peer. These interventions focus on building rapport and creating opportunities in which to discuss issues as well as successes and feelings regarding caregiving. Findings from one meta-analysis indicate that supportive interventions are likely to be effective in reducing caregiver burden. Supportive interventions that are likely to be effective include:

- Teaching caregivers problem-solving skills
- Teaching caregivers coping skills.

**Multicomponent Interventions**

Multicomponent interventions use various combinations of competence, supportive, psychotherapy, respite or adult day care, and miscellaneous interventions. These interventions are likely to be effective because they use a variety of techniques to reduce burden and are able to address a variety of caregiver needs. Multicomponent interventions also have a moderate effect on reducing caregiver burden, whereas interventions that focus on a single therapeutic activity, such as supportive interventions (e.g., support groups) and psychoeducational interventions, only have a small effect.

Specific situations exist in which multicomponent interventions are more likely to reduce caregiver burden. Greater reduction in burden may be seen when the intervention is directed or offered:

- To older caregivers rather than to younger caregivers
- To caregivers of older rather than younger patients
- To female caregivers rather than to male caregivers
- To caregivers who report greater subjective burden than to caregivers with less subjective burden
- To individual caregivers rather than to caregivers in a group setting
- To spouses alone or to a combination of family members
- To both patients and families’ members or to family members alone
- When relationship issues between patients and caregivers are addressed.

Interventions for which there currently are insufficient or conflicting data or data of inadequate quality, with no clear indication of harm.

**Discussing Psychosocial Issues**

A nonrandomized, multiple-site trial examined a formalized intervention program, the Family Caregiver Cancer Education Program, which included strategies such as controlling symptoms, managing psychosocial issues, and identifying available resources. No overall improvement in caregiver burden was observed. However, the impact of caregiving on household finances and caregiver knowledge showed significant improvement, and caregivers perceived an improvement in their health. A second study explored informal short-term teaching and group support sessions aimed at self-care promotion for adult caregivers and found no significant difference in caregiver burden.
Identifying Available Resources and Discussing Coordination of Services

Three studies used multicomponent interventions to examine the benefit of educational sessions on coping skills and on caregivers’ ability to identify supportive resources. No significant difference was seen on outcome measures, suggesting that the interventions are not effective in reducing caregiver burden or strain. However, caregivers in one study reported feeling more confident in their ability to handle the caregiver role following the educational sessions.5

Massage or Healing Touch Interventions

One quasi-experimental study examined the benefit of massage therapy or healing touch on caregivers of patients with cancer.7 The intervention was not effective in reducing caregiver burden or strain. However, a significant decline was observed in depression and anxiety scores of caregivers in the treatment group receiving massage therapy.8

Respite or Adult Day Care Interventions

The benefit of respite or adult day care was examined in a multicomponent meta-analysis.2 Preliminary results suggest that respite care may reduce caregiver burden and strain. However, as study populations were not limited to oncology, the benefit for caregivers of patients with cancer was not established.

Teaching Caregiver Self-Care

One randomized trial7 and one nonrandomized study4 taught self-care behaviors to caregivers. One of the studies also addressed common emotional reactions to caregiving, such as depression or anger.2 No difference in caregiver strain or burden was observed in either study, but other benefits, such as increased caregiver self-esteem and perceived competence, were reported.5

Teaching Pain Management

Two studies tested the impact of one-on-one pain management education on cancer caregivers’ feelings of efficacy and reported subjective burden and strain. One study4 showed a trend in improvement for reported levels of caregiver strain, whereas the other8 reported that education improved caregivers’ attitudes about pain management and about their ability to handle the patient’s pain but led to no measurable change in caregiver strain or burden.

Teaching Symptom Management

One observational study,4 one nonrandomized study,5 and one randomized trial7 investigated the benefits of using supportive interventions, including teaching symptom management in the cancer caregiver population. Two studies used multisession group interactions,5,6 and the other used in-home and telephone educational interventions aimed at improving caregiver competency in dealing with the patient’s symptoms. One study showed no improvement in reported caregiver burden or strain but demonstrated positive effects on other measured indicators.5 The other studies were inconclusive.5,7

EFFECTIVENESS UNLIKELY

Interventions for which the lack of effectiveness is supported by evidence from a single rigorously designed controlled trial or consistent evidence from controlled trials using small samples, or where meta-analyses/systematic reviews using small samples or guidelines developed by consensus/expert opinion indicate a lack of effectiveness.

Interventions Directed at Improving Patient Competence

A meta-analysis found no effect on caregiver burden when the intervention was directed only toward the patient to improve their competence.2

References


