Cognitive–Behavioral Interventions With Older Adults: Integrating Clinical and Gerontological Research

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Psychotherapeutic interventions utilizing cognitive–behavioral strategies have been used widely with older adults. To appropriately adapt these techniques, characteristics unique to older adults must be taken into account. These factors include aspects of the social environment, cohort effects, cognitive changes with aging, personality, and emotional development, which have been described in an emerging body of research literature from the field of gerontology. In addition, clinical studies have examined the efficacy of cognitive–behavioral interventions in treating older clients for anxiety, depression, insomnia, and other disorders. This review describes current empirical evidence in gerontology and treatment outcome research that informs the practice of psychotherapy in this population and provides recommendations for conducting therapy with older adults.

Keywords: older adults, aging, cognitive behavioral therapy, psychotherapy

A growing body of literature demonstrates that cognitive–behavioral interventions are useful in psychotherapy with older adults. However, there is also evidence that adaptations in several domains help to maximize treatment effectiveness in this population. In this article, we describe recent findings relevant to cognitive–behavioral therapy (CBT) with older clients, including studies of maturational changes in cognitive processes, personality, and emotional development. The effects of social context and cohort membership on older people also influence the practice of psychotherapy. We describe the aspects of this body of research most relevant to clinical services, addressing each topic briefly.

CBT is adaptable to treating many psychological problems and life challenges that older adults encounter. These include DSM–IV disorders such as anxiety, depression, alcohol abuse, and insomnia; and challenges to well-being such as physical disability and grief. A learning-based treatment model, CBT includes both cognitive and behavioral components (Beck, Rush, Shaw, & Emery, 1979), applied selectively or in combination. Although detailed review of the model and the process of its adaptation are beyond the scope of the present article, we note that the flexibility of CBT is an advantage in addressing the complex clinical issues of older adults. Psychotherapy cannot eliminate the significant problems facing many older adults (such as loss of loved ones and increased prevalence of disability and physical illness), but treatment can be effective in reducing psychological distress.

In the past, older clients have often been subject to negative stereotyping and inaccurate generalizations, hindering their access to and success in psychotherapy. For example, the loss-deficit model of aging took a negative approach to life span development and portrayed the normative course of later life as a series of losses and the typical response as depression (Berezn, 1963; Gitelson, 1948). More recently, writing about therapy has drawn on scientific gerontology rather than stereotypes, and has portrayed the aging process more positively (Knight, Nordhus, & Satre, 2003; Knight & Satre, 1999). This led to the proposal of a contextual, cohort-based, maturity, specific challenge model (Knight, 2004), informed by research on aging in developmental and cognitive psychology, medicine, and sociology. According to this model, the special social context of older adults and their membership in earlier born cohorts raised in different sociocultural circumstances may require adaptations to psychotherapy not dictated by devel-
opmental aging processes. Older adults are often more mature than younger adults, but also are facing some of life’s hardest challenges, such as chronic illness, disability, and grief. These factors, in addition to social context, cohort differences, and maturation, have significant relevance to working with older adults in therapy.

**Social Context Factors**

It is important that younger therapists have general familiarity with the distinctive social context of older adults. This may include specific environments (e.g., age-segregated housing, social and recreational centers, the aging services network) and laws affecting older adults (e.g., Medicare regulations, Older Americans’ Act regulations, and conservatorship law). Therapists’ knowledge of these systems need not be extensive, but should include some understanding of the likely experiences of older adults in navigating complex networks of agencies and regulations. For example, informal visits to locations where older adults receive health and social services helps create an experiential framework for understanding specialized environments. With the client’s consent, psychological interventions may need to be coordinated with providers in these settings to maximize treatment effectiveness.

A working knowledge of an older client’s social context is essential for delivering appropriate interventions based on both classic behavioral and social learning treatment models because aspects of the environment often reinforce maladaptive behavior. In nursing homes, staff may reward older adults by approving of their passive conformity to scheduled routines, resulting in reduced activity levels, decreased sense of control and worsened mood (Baltes, 1995; Segal, 2005). To treat a client’s depression the therapist must often change the environment through consulting with staff (Lichtenberg, 1994). To be effective the therapist needs an accurate and older-client-centered view of the environment, with a realistic understanding of what can and cannot be changed in a highly structured residential setting.

**Cohort Differences**

In addition to social context, generational, or cohort, effects influence the observed differences between older and younger adults. Cohort differences are explained by membership in a birth-year-defined group. Each generation is socialized into beliefs, attitudes, personality dimensions, and even academic abilities that remain relatively stable and that distinguish that cohort from generations born earlier and later. To understand the effects of aging, therefore, one must separate maturation effects from cohort membership effects. Research in social gerontology has discovered that many differences between the old and the young previously attributed to the aging process are actually due to cohort effects. For example, cohort differences in intellectual skills have been identified. Later born cohorts tend to be stronger in reasoning ability and spatial orientation (Gilbert & Rogers, 1999; Schaie, 1996) and vocabulary (Alwin & McCammon, 2001; Bowles, Grimm, & McArdle, 2005), whereas some earlier born cohorts are superior in arithmetic ability and verbal fluency (Schaie, 1996). In the United States, later born cohorts have more years of formal schooling than groups of individuals born earlier in the century, which may contribute to intellectual skill differences observed between older and younger adults.

Personality may also be affected by both aging and birth cohort (Mroczek & Spiro, 2003). For example, Schaie (1995) found that from 1900 until World War II, successive cohorts declined in extroversion. But in the cohorts that followed, extroversion increased. Likewise, threat reactivity has increased with each cohort since the beginning of the 20th century (Schaie, 1995). Particularly relevant to clinical practice, cohort effects have also been found in prevalence of psychological problems such as substance abuse (Levenson, Aldwin, & Spiro, 1998) and depression (Kasen, Cohen, Chen, & Castille, 2003). These findings suggest that the personality and clinical differences observed between younger and older adults are often cohort effects rather than developmental aspects of aging.

Another salient cohort effect is the increased familiarity with psychology and psychotherapy evident in later born cohorts: Many later born adults are willing to consider use of psychological services (Areán, Alvidrez, Barrera, Robinson, & Hicks, 2002). In contrast, some earlier born adults are acquainted primarily with popular stereotypes of psychoanalytic therapy involving years of treatment with multiple sessions per week. Therapists may need to explain CBT—that in many respects it is similar to receiving instruction in using practical life skills and that it has a collaborative, structured format (Knight & Satre, 1999). Careful explanation of the model can significantly help in developing therapeutic rapport with older clients (Hyer, Kramer, & Sohnie, 2004), which is critical for treatment success.

**Cognitive Changes With Aging**

**Speed of processing.** The most pervasive change with developmental aging is reduced performance on most cognitive tasks in which speed of response is a factor (Salthouse, 1996). Although reaction time can be decreased in older adults through practice, exercises, and other interventions, age differences are seldom completely eliminated. Salthouse (1996) argued that the central nervous system is likely the locus of slowing, and posited that age-related slowing leads to impairments in cognitive functioning because of what are termed the limited time mechanism and the simultaneity mechanism. In this view, cognitive performance decreases when processing is slow because operations have a limited time for successful execution, and because the products of early processing may not be available by the time later processing is completed. However, there are some tasks (such as vocabulary), which may represent “crystallized” rather than “fluid” intellectual abilities (Dixon, 2003), rely less on speed of processing, and show smaller age-related decrements.

**Learning and memory.** Memory is a complex topic in the study of cognitive changes in late life (Hess, 2005), so we discuss it here only briefly. Recent longitudinal investigations of memory change in older adults over time have generally confirmed decline with age on some memory functions, such as word recall (e.g., Small, Dixon, & Hultsch, 1999; Zelinski & Burnight, 1997), while other functions such as recognition memory are relatively preserved. Zelinski and Burnight (1997) pointed out that memory change starts earlier than is often thought (observable in middle age) and occurs slowly. They suggest that studies longer than 6 years are usually needed to detect longitudinal memory change. Working memory typically declines with age (Light, 2000; Salthouse, 1994). Working memory is the limited capacity resource
through which information is processed before it is registered in
long-term memory. A limitation of this capacity could influence
new learning and affect language comprehension. This would
suggest another reason for simpler phrasing when working with
some older adult clients.

In general, current research suggests that even differences be-
tween younger and older adults in memory performance are not
large when the material is meaningful and relevant to the older
adult (Hultsch & Dixon, 1990; Smith, 1996). Older adults usually
perform well with structured material, more time to study the
information, greater environmental support (e.g., when able to use
notes, recognition and cued recall are better than free recall; Smith,
1996), and less time pressure (Earles, Kersten, Berlin, & Miccio,
2004). In contrast, younger adults do much better than older adults
on novel information and learning tasks with no intrinsic meaning
(learning lists of words, for example). Of special interest for
psychotherapy, there is evidence that older adults retain emotional
material better than neutral material (Carstensen & Turk-Charles,
1994), with memory also favoring positive rather than negative
emotional content (Mather & Carstensen, 2005). It is wise to keep
in mind when teaching older adults new information (one aspect of
psychotherapy interventions) that it may require more effort from
the client and more repetition from the therapist. Older adults, of
course, have large individual differences in learning and memory
abilities, and many older clients are at least as able as younger
adult clients.

Because of these potential cognitive changes, the therapist
should take steps to ensure that the client is remembering infor-
mation and skills learned during the session. In addition to the
therapist’s summary at the end of each session, repetition and
summary should occur several times throughout the session. It may
be helpful for the client to take notes on key points. Greater
duration of the course of treatment may also be appropriate for
older adults with cognitive changes to facilitate learning and
retention. In CBT it is particularly important for the client to
complete homework assignments between sessions. Research with
older adults has shown that homework compliance significantly
improves posttreatment outcomes (Coon & Thompson, 2003).
Studies have shown that homework reminders and trouble shoot-
calls (Mohlman et al., 2003), handouts, and forms (Stanley,
Diefenbach, & Hopko, 2004) are helpful in increasing homework
completion.

Emotional Development

As with memory, emotional changes over the adult life span are
important for psychotherapists to understand in working with older
clients. Of particular relevance, Carstensen (1992) proposed a
developmental model called socioemotional selectivity theory. So-
cioemotional selectivity theory began with the observation that
social support networks get smaller as we age, but life satisfaction
remains stable. Carstensen suggested that younger adults have a
motivational focus on information seeking and finding a mate and
thus need large networks of contacts. Later in adulthood, the
motivational focus shifts to maintaining emotional balance. In
other words, younger adults have large networks with low emo-
tional investment per person, and older adults have relatively
smaller networks with more emotional investment. A shift toward
more positive emotion occurs in later life, likely due to active
management of the social environment to minimize negative emo-
tion (Carstensen, Gross, & Fung, 1997). Also, younger adults report
more pure emotions, while older adults report greater emo-
tional complexity (Ong & Bergeman, 2004).

Studies have also examined biological aspects of emotion. Lev-
enson and his colleagues (Levenson, Carstensen, Friesen, & Ek-
man, 1991; Tsai, Levenson, & Carstensen, 2000) reported that
older adults have a lower physiological response to emotionally
evocative cues (remembered experiences or film clips). However,
older and younger adults show similar profiles of response (pat-
terns of arousal on measures such as heart rate) and report equal
levels of subjectively experienced emotion. This line of research
calls into question the old assumption that the lower physiological
response meant that older adults experienced emotions less
intensely.

On the basis of this literature, more emotionally subtle inter-
ventions may be appropriate to older clients. In cognitive therapy,
it may be prudent to help the client manage both the positive and
negative emotion, rather than substituting one for the other. For
example, older adults needing assistance from their children may
be happy that their children can assist while saddened at the
thought of being a burden. Rather than labeling the burden cog-
nition as irrational, it may be useful to frame willingness to help as
a loving motivation, and also encourage problem-solving strategies
that limit the sense of burden.

Similarly, work with older adults may involve schemas and
relationship scripts in addition to simple cognitions. Using their
fund of knowledge, older adults can approach cognitive distortions
across multiple domains, based on years of practice in analyzing a
variety of problems and situations. Therapy may involve a more
abstract level of cognitive intervention because of longer life
histories, in addition to modifying automatic thoughts about spe-
cific situations.

In this section we describe differences between younger and
older adults in several relevant areas, recognizing that these gen-
eral research findings and clinical observations represent overall
group differences. On an individual level there is substantial vari-
ation—clinicians will always need to consider each client’s char-
acteristics, abilities, and life circumstances. This process of assess-
ment (of social context, cognitive functioning, etc.) essential to the
initial stages of psychotherapy helps to inform the extent to which
standard cognitive–behavioral methods require adaptation. In ad-
in to this individualized process, the research literature on the
utility of CBT for specific disorders provides resources (such as
specialized treatment manuals) guiding the adaptation of CBT for
use with older clients. While the adaptations to therapy for work
with older adults based on the gerontological literature described
above are broadly relevant to work with older adults with a variety
of diagnoses, particular problems may require CBT treatment
strategies somewhat different from those used with younger adults.
We review these issues in the following sections of the article.

Cognitive–Behavioral Interventions for Specific Problems

Many older adults in psychotherapy are dealing with issues that
threaten well-being at any point in life: chronic illness, disability,
and the death of loved ones. Albeit not unique to late life, these
problems occur more frequently as people age. People who have
struggled with depression, anxiety, substance abuse, or psychosis
all of their lives may continue to struggle with these problems. The cumulative effect of longstanding psychiatric disorders can make the additional challenges of aging particularly difficult.

**Treatment Efficacy**

Empirical evidence for the effectiveness of cognitive-behavioral interventions with older adults has grown over the past 3 decades. These studies have often used treatment manuals specifically developed for older adults, which incorporate many of the same clinical recommendations described here. A meta-analysis of psychological interventions in depression treatment among older adults found an aggregate effect size \((d = 0.78;\) Scogin & McElreath, 1994), roughly equal to that found in a meta-analysis of antidepressant medication trials \((d = 0.57;\) Schneider, 1994). These values fall within the range of effect sizes found for younger adults in meta-analyses using cognitive-behavioral approaches \((ds = 0.65\) up to 2.15; Lambert & Bergin, 1994; some studies overlap with those analyzed by Scogin & McElreath, 1994). The factors affecting outcomes with older adults were explored in a meta-analysis by Pinquart and Sörensen (2001), who found that longer treatment duration (more than nine sessions) and specialized training of the therapist were significant.

To establish a set of standards for evaluation of therapy effectiveness, the American Psychological Association’s Division 12 has concentrated on empirically validated treatments for specific psychological problems (Chambless et al., 1998). Gatz et al. (1998) utilized these guidelines in their literature review, reporting that probably efficacious treatments for older adults include CBT for sleep disorders and for depression. They also found that CBT had above-average effects on ratings of subjective well-being. A more recent meta-analysis of psychotherapeutic interventions with older adults found that CBT had above-average effects on depression (Pinquart & Sörensen, 2001), with individual interventions generally more efficacious than group-based interventions. Studies have also added to the evidence supporting CBT for late-life anxiety (Wetherell, Sorrell, Thorp, & Patterson, 2005).

**Disability and Medical Illness**

Older adults frequently are struggling to adjust to physical disabilities and acute or chronic medical conditions. Most adults over age 55 have at least one chronic condition (National Center for Health Statistics, 1999). In addition, obesity contributes substantially to disability in older adults (Sturm, Ringel, & Andrejeva, 2004). Because of the correlation of physical and psychological problems, the therapist’s ability to discuss health and its impact on well-being is a vital skill. The therapist should understand the psychological impact of chronic illnesses, control of pain, adherence to medical treatment, and indications of adverse medication reactions. The medical systems serving older adults are a key contextual environment of which therapists should have a working knowledge.

Depression is frequently associated with chronic illness and disability. Prevalence studies of depression in this population have found rates up to 59% (Finch, Ramsay, & Katona, 1992; Harper, Kotick-Harper, & Kirby, 1990). One analysis of this correlation found that the disability that often accompanies physical illness was a risk factor for depression in older adults, rather than illness diagnoses per se (Zeiss, Lewinsohn, Rohde, & Seeley, 1996). Conversely, depression seriously affects physical health, and has been associated with increased disability, poorer rehabilitation from health problems, and greater risk of mortality. Depression is also a risk factor for cognitive decline (Wilson, Mendes de Leon, Bennett, Bienias, & Eva, 2004).

Unfortunately, physicians frequently do not detect symptoms of depression in their older patients (Rapp, Parisi, Walsh, & Wallace, 1988), and when it is recognized, the patients are rarely referred to psychotherapy (Alvirez & Areán, 2002; Unutzer, 2002), so opportunities for behavioral interventions are often missed.

Anxiety is also associated with medical illness in older adults, and often occurs comorbidly with depression. Common medical problems that can result in anxiety symptoms include cardiovascular, pulmonary, and neurological disorders (Lauderdale & Sheikh, 2003). Pulmonary conditions such as chronic obstructive pulmonary disease, in which the patient experiences choking sensations and gasping for air, are associated with intense anxiety (Bremer, 2003). Frequently prescribed medications such as steroids, anticholinergic medications, and antidepressants can cause anxiety, as can caffeine and alcohol. For these reasons, therapists working with older adults who are medically ill or who have disabilities should be alert to anxiety symptoms.

Few studies have broadly examined CBT with medically ill older adults because most interventions target specific disease groups. In one investigation, Lopez and Mermelstein (1995) found CBT successful in treating depression with inpatients in a hospital geriatric unit. They described an intervention in which patients received 30-min therapy sessions 3 to 4 times per week, with an emphasis on increasing pleasant events and cognitive restructuring. Psychological treatment was coordinated with physicians and nurses involved in patient care.

Important aspects of CBT with chronically ill older adults were identified by Rybarczyk et al. (1992); these included resolving practical barriers to participation, accepting depression as a separate and reversible problem, and minimizing excess disability (medically unnecessary limitations in functioning that dependency on caregivers can sometimes foster). It is also important to counteract the loss of important social roles and autonomy and to challenge the belief that the client is a burden to caregivers. For example, challenging the burden perception may involve helping the client recall the past help they have given their caregiver. Rather than eliminate distressing thoughts associated with dependency, cognitive intervention can help to minimize their negative impact on mood.

**Cognitive Impairment**

Depression and dementia may present similar symptoms, and a client suspected of dementia should be screened for depression. Likewise, the clinician should be aware of possible cognitive impairment. As an initial screening, clinicians may routinely use a brief instrument such as the Folstein Mini-Mental State Exam (Folstein, 1975). If screening suggests dementia, additional evaluation to diagnose the etiology and extent of the impairment may be warranted and may facilitate selection of an appropriate intervention.

Depression is a significant problem for many older adults with cognitive impairment, Alzheimer’s disease, and other forms of...
dementia. Findings that older adults with executive dysfunction have worse response to antidepressants have increased interest in psychotherapy (Alexopoulos et al., 2000; Dunkin et al., 2000). In one approach, researchers have begun to investigate the efficacy of problem-solving therapy in this population (Nezu, Nezu, & Perri, 1988). Problem-solving therapy has some similarities to CBT, in that it involves reconceptualization of the challenges and frustrations faced by patients as problems with potential solutions and the adoption of specific skills to identify and test these solutions. Initial findings indicate that this is a promising approach for older adults with executive dysfunction (Alexopoulos, Raue, & Areán, 2003).

Cognitive techniques may be appropriate for individuals with a milder degree of impairment. In applying these techniques, the strategies described earlier for maximizing retention of material covered in session should be followed. However, behavioral techniques are more appropriate for patients with moderate and severe dementia (Teri & Gallagher-Thompson, 1991). The intervention may address issues such as dysphoria, loss of pleasure, feelings of worthlessness, agitation, appetite and weight change, and sleep disturbances. For clients with more severe dementia, caregivers may need to assist in behavioral strategies such as increasing pleasant events (Teri, Logsdon, Uomoto, & McCurry, 1997). These behavioral approaches are appropriate when the client no longer has the capacity to participate directly in psychotherapy.

**Pain Management**

Chronic pain is highly prevalent among older adults and frequently contributes to depression (Parmalee, Katz, & Lawton, 1991). Approximately 25% to 50% of older adults in community samples suffer from chronic pain (Crook, Ridout, & Browne, 1984). Among older adults who live in nursing homes, rates of chronic pain range from 45% to 80% (Roy & Michael, 1986). Chronic pain is associated with rheumatoid arthritis, delayed healing from injuries, and other causes, and is frequently treated with medication. However, cognitive factors such as locus of control also influence the subjective experience of pain (Gibson & Helme, 2000), and there is evidence that pain is experienced differently by different people.

CBT can reduce distress and improve functioning for older adults suffering from chronic pain. Strategies include distracting oneself from the pain, reinterpreting pain sensations, pleasant imagery, calming self-statements, and increasing daily pleasurable activities (Widner & Zeichner, 1993). Outcome studies have shown that cognitive and behavioral techniques are effective tools in pain management. For example, in a randomized study of 22 nursing home residents, those who received cognitive–behavioral pain management training reported less pain and less pain-related disability than those in an attention/supportive control group (Cook, 1998). Participants were screened to eliminate those with serious cognitive impairment. Treatment gains in the cognitive–behavioral group were maintained at 4 months.

**Depression**

The prevalence, etiology, and treatment of depression among older adults have received much study in the past 20 years. Fortunately, epidemiological studies have found that depression prevalence in older adults is actually lower than in younger people. These lower prevalence rates are consistent with the experimental literature (described above) showing an increase in positive emotion in late life (Carstensen et al., 1997). Prevalence of major depression is estimated at 1% to 5% in older adult community samples (Hybels & Blazer, 2003). However, clinical samples, such as primary care, medical inpatient, home health, and nursing home (Bruce et al., 2002; Lyness, King, Cox, Yoodiono, & Caine, 1999) show higher prevalence. The rate of depressive symptoms in individuals not meeting diagnostic criteria for a disorder is as high as 27% based on Epidemiological Catchment Area studies (Hybels & Blazer, 2003). Therefore, depression should be evaluated in all patients during the early stages of psychotherapy.

Fortunately, outcome studies show that older adults respond well to cognitive and behavioral approaches to psychotherapy for depression (Karel & Hinrichsen, 2000; Laidlaw, Thompson, & Gallagher-Thompson, 2004). For example, Gallagher and Thompson (1983) compared cognitive, behavioral, and brief insight-oriented therapy with a total of 38 adults over the age of 55. All three groups showed reduction in depression symptoms, but the cognitive and behavioral groups maintained treatment gains better at follow-up. A similar study with 115 participants over the age of 60 with the same three treatment conditions and a wait-list control found all three approaches superior to the control group (Thompson, Gallagher, & Breckenridge, 1987). At follow up, the three groups maintained treatment gains equally. Using CBT alone resulted in similar levels of improvement as treatment with CBT in combination with antidepressant medication in a sample of older adults with mild to moderate depression (Thompson, Coon, Gallagher-Thompson, Sommer, & Koin, 2001).

Self-help manuals based on cognitive–behavioral principles may also be useful (Scogin, Jamison, & Gochnaure, 1989). In a study comparing cognitive therapy to bibliotherapy for depression, 31 adults aged 60 and over received either 16 sessions of individual therapy or were assigned to read the cognitively oriented self-help book *Feeling Good* (Burns, 1980). Both groups had better outcomes than a delayed treatment control group, and there was no difference between the two intervention groups at follow-up (Floyd, Scogin, McKendree-Smith, Floyd, & Rokke, 2004). Another cognitively oriented self-help book is *Mind Over Mood* (Greenberger & Padesky, 1995), which may be a useful adjunct to individual or group psychotherapy. This manual is briefer and written at a simpler level than *Feeling Good*, possibly an advantage in working with patients with fewer years of formal education (a potential cohort difference between younger and older adults).

The CBT approach to depression treatment focuses on teaching new coping skills, combined with addressing dysfunctional thinking patterns (Knight & Sare, 1999). Behavioral components of therapy may be emphasized strongly in the early sessions, with a focus on the client’s daily activities. To help the client see the connection between pleasant events and moods, the therapist may use a diary or chart for self-monitoring. One especially useful chart is the Older Person’s Pleasant Events Schedule (Teri & Lewinson, 1986), which lists many enjoyable activities. The therapist and the client work together to help the client increase the frequency of pleasant events (Zeiss & Steffen, 1996). Using the dysfunctional thought record, the therapist helps the client to identify cognitive distortions and to substitute negative and irra-
tional thoughts with more adaptive ones (Gallagher-Thompson & Thompson, 1996). As with the behavioral component of treatment, cognitive therapy helps to teach clients new coping skills to manage periods of depressed mood.

Anxiety Disorders

Clinicians and researchers have focused increasingly on psychotherapeutic interventions for anxiety disorders in older adults. Some anxiety disorders decrease in severity with age, such as social anxiety (Gretarsdottir, Woodruff-Borden, Meeks, & Depp, 2004) and panic (Sheikh, Swales, Carlson, & Lindley, 2004), but overall anxiety prevalence remains high. In a large community sample of adults aged 55 to 85 in the Netherlands, the overall prevalence of anxiety disorders was 10.2% (Beekman et al., 1998). Generalized anxiety disorder was the most common (7.3%), followed by phobias (3.1%), panic (1.0%), and obsessive–compulsive disorder (0.6%). Risk factors included female gender, lower education, trauma during World War II, external locus of control, recent death in the family, and chronic physical illness.

The basic principles of CBT for anxiety are applicable to both older and younger adults. As with depression treatment, however, specific modifications to CBT treatment for anxiety disorders have been described in manualized protocols (Stanley et al., 2004). Before beginning treatment, it is recommended that a comprehensive evaluation include a clinical interview, self-report measures, and a medical evaluation to identify potential physiologic factors (Lauderdale & Sheikh, 2003).

Not all anxiety disorders have received treatment outcome study in older adult populations, but limited evidence indicates that cognitive–behavioral interventions are promising. A recent study of treatment of generalized anxiety disorder found that brief CBT had large beneficial effects (Wetherell, Gatz, & Craske, 2003). Another generalized anxiety disorder treatment study of older adults using CBT resulted in decreased worry, depression, and improved quality of life relative to a minimal contact control group (Stanley et al., 2003), although the posttreatment scores of CBT patients showed that they had not reached a normative level of functioning.

Alcohol Abuse and Dependence

Community samples show that older adults have lower rates of alcohol abuse and dependence than younger adults (Caetano & Tam, 1995). Demonstrating a significant cohort effect, adults born after Prohibition are more likely to use or abuse alcohol than earlier born cohorts (Grant, 1997). However, the high prevalence observed in medical and other clinical settings indicates that alcohol remains a serious problem among older adults (Buchholz, Sheehy, & Helzer, 1995). Older adults who misuse alcohol are at risk for numerous physical health problems as well as psychiatric comorbidity such as anxiety, depression, adverse medication interactions, and cognitive impairment (Oslin, 2000). Therefore, misuse of alcohol among older adults should be taken very seriously.

Unfortunately, greater age may function as a treatment access barrier, possibly because of health, mobility, transportation problems, and the effects of cognitive impairment, as found in studies of older veterans seeking alcohol and drug treatment (Satre, Knight, Dickson-Furhmann, & Jarvik, 2003, 2004). Once patients initiate treatment, however, older adults have outcomes as good as or better than younger adults (Satre, Mertens, Areán, & Weisner, 2004). Therefore, positive outcome helps to justify the additional effort necessary to facilitate treatment access.

Older adults who misuse alcohol may drink in response to loneliness, depression, and poor social support networks (Schonfeld & Dupree, 1995). As a result, cognitive–behavioral approaches focus on improving the client’s life in a variety of ways in addition to abstaining from alcohol. Describing a cognitive approach to treatment of older clients, Glantz (1995) suggested setting goals in the following areas: (a) social life and friends, (b) family, (c) intimate or romantic relationships, (d) employment or practical achievement, (e) recreation or avocation, and (f) drinking. The therapist should look for evidence of irrational thinking in each domain.

In a review of psychological studies, Schonfeld and Dupree (1995) found some evidence for the effectiveness of CBT over 12-step and social support models. However, not all the reviewed studies that supported cognitive and behavioral treatment included control groups (e.g., Dupree, Broskowski, & Schonfeld, 1984). In a long-term study, Carstensen, Rychtarik, and Prue (1985) found that a behavioral treatment program for older men was successful in maintaining treatment gains at a 2-year follow-up. Older adults appeared to benefit from group settings with other older clients and from a less confrontational group style.

Sleep Disorders

Insomnia is a frequent problem for older adults, and may interfere significantly with day to day functioning (Schubert et al., 2002). Insomnia prevalence increases with each decade of life and affects women more often than men (Nau, McCrae, Cook, & Lichstein, 2005). Between 12% and 25% of adults over 65 report chronic sleep problems (Ford & Kamerow, 1989). Insomnia in older adults appears to be both a cause and an effect of depression (Buysse, 2004). In sleep-maintenance insomnia, individuals are unable to get back to sleep after waking in the middle of the night. Feeling tired during the day, they nap to make up the sleep lost, and spend more and more time in bed to get a normal amount of sleep.

A combination of education, sleep restrictions, and stimulus-control interventions may be effective in treating this problem. In sleep education, the client is taught how age and lifestyle factors such as caffeine and exercise affect sleep. Understanding that older people generally sleep less than younger people helps reduce unrealistic expectations regarding sleep time. Explaining that minimal harm results from sleep deprivation for most people also lessens the client’s anxiety. The therapist asks the client to eliminate naps during the day, and to not watch TV, read, or rest in bed. Sleep restriction limits the amount of time spent in bed to the amount of time sleeping. For example, if a client reports sleeping 6 hr per night out of 9 hr spent in bed, the initial sleeping schedule would be for 6 hr, perhaps from midnight to 6 a.m. The time in bed can be gradually increased as “sleep efficiency” (the amount of time spent sleeping as a percentage of time in bed) increases.

This approach was found effective in controlled outcome studies, with gains maintained up to 1 year after treatment (Morin, Kovatch, Barry, & Walton, 1993). Improvements in sleep effi-
ciency in older adults were associated with cognitive components of treatment, demonstrating the importance of challenging irrational beliefs about sleep (Morin, Blais, & Savard, 2002). CBT was effective in combination with tapering of benzodiazepines in the treatment of chronic insomnia (Morin et al., 2004), and CBT also demonstrated efficacy in a controlled trial of older adults with comorbid medical illness (Rybarczyk, Lopez, Benson, Alsten, & Stepanski, 2002). The effectiveness of cognitive–behavioral insomnia treatment represents an important advance, given the high prevalence of insomnia and the negative side effects of sedative-hypnotic medications in older adults.

Implications for Research and Practice

As we have described in this review, CBT can be adapted for use with older adults by applying relatively minor modifications to clinical technique, informed by the gerontological and clinical research literature. For the most part, the core principles of treatment are not different for older people than for younger people. However, some problems faced by older adults are encountered more frequently in later life and have therefore come to be identified with old age.

In particular, coping with chronic illness and disability can be a major challenge. The Beck and Ellis argument that emotional distress is unrealistic or irrational may not be acceptable to persons facing such real problems (Beck, Rush, Shaw, & Emery, 1979; Ellis, 1958). However, the cognitive–behavioral approach can be seen as optimistic in arguing that some improvement in depressed mood is virtually always possible. Experience suggests both that older clients may have much to be unhappy about and that they may be more unhappy than is necessary because they (in Ellis’s, 1958, terms) catastrophize negative events or overgeneralize the causes or effects of bad events. For example, sadness over lost eyesight is considered normal, but clinical depression may result from overgeneralizing the loss to anticipating that hearing, thinking, and other functions will also be lost. This type of work may be different and challenging for therapists used to working with younger, healthy clients whose mood problems are more likely due to misperceptions and faulty thinking rather than actual limitations.

The chronicity of the problems facing older adults (the death of loved ones, ongoing caregiving for a frail family member) may indicate a need to modify the traditional focus of CBT on short-term interventions. This recommendation is supported by recent research: Pinquart and Sörensen (2001) found that longer lengths of therapy were associated with better outcomes for older adults. We have noted earlier that older clients may benefit from more time in therapy because of cognitive changes with age. The chronic nature of many of the stressors of late life also supports a longer course of treatment. CBT was developed initially for younger clients, typically the stress event is sudden and discrete, and therapy is focused on managing cognitions and emotional reactions to an event from the recent past. In contrast, the stressors of late life are often ongoing.

Although the clinical research we have summarized in this review clearly supports the use of CBT with older adults, there is a great need for further investigation. Current research on cognitive–behavioral interventions with older adults is of limited quantity, with some key areas particularly neglected. Studies examining effectiveness of CBT with ethnic minority groups are especially lacking. There is also a need for research into the processes that influence adaptations to therapy with older adults. This includes a better understanding of how information gathered during clinical assessment, in addition to knowledge of gerontological and treatment research findings, affects the development of interventions and the practice of psychotherapy.

Theory and research on emotion in late life has entered a highly productive phase. Socioemotional selectivity theory posits a greater salience of emotion for older adults and a tendency to foster social interactions that support positive emotion (Carstensen et al., 1997; Lang, 2001). Future research on CBT with older adults should address to what degree this salience of emotion influences cognitions among older adults and explore ways in which to apply findings from experimental studies of emotion to clinical practice.

Conclusion

CBT has much to offer older adults, including improvement in emotional functioning within reasonable periods of time. When informed by current research in gerontology, including studies of cognition and emotion, it is readily adaptable for use with a variety of issues. Clinical intervention studies indicate that these treatments are effective in addressing many common problems in late life, including depression, anxiety, alcohol abuse and dependence, insomnia, and issues related to physical illness and disability. Older adult clients offer cognitive–behavioral therapists the chance to work with problems that are among the most severe that adults face, and an abundance of life experiences and problem-solving skills that have been developed over decades. The application of CBT to older clients involves learning about specific social environments, working with clients whose learning history may differ from the therapist’s own, and confronting the interplay of physical and psychological problems. As such, it is likely that younger therapists’ ideas about therapy and about the aging process will be challenged and broadened in the course of clinical practice with older adults.

References


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