		Measurement Instrument			Psychometric Characteristics		
Reference	Sample	Name of the Scale	Domains and Constructs	Length and Format of Instrument	Validity	Reliability	
Kosberg <i>et</i> <i>al.</i> (1990) ⁶ United States		Index (CCI)	caretaking Five factors/components:	4-point Likert scale (ranging from 1=Strongly agree to 4=Strongly disagree)	Content validity was established by first reviewing the literature related to the "costs" of providing care to dependent elderly persons and defining the dimensions needed to develop a bank of items. Twenty-seven items were initially derived from the input of professionals working with family CGs of frail and impaired elderly relatives. These 27 items were pilot tested to determine their ability to distinguish groups of carers caring for elders with different physical and mental impairment levels. The initial inspection of the structural validity of the CCI was not conducted in a sample of dementia CGs. Instead, authors recruited a sample of 137 CGs of clients seeking nursing home placement under the Florida Medicaid Program. A PCA with Varimax rotation yielded a final 20-item scale with 5-components/factors. The factorial structure of the CCI scale was not examined in the present study of dementia CGs. Concurrent validity was demonstrated by statistically significant Pearson's correlations between CCI scores and, for example, measures of caregiving functioning assessed by a) the Short Psychiatric Evaluation Schedule (SPES; $r=0.27$, $p<0.01$), b) self-reported mental health ($r=0.36$, $p<0.001$), and c) physical health ($r=0.22$, $p<0.05$). Significant correlations were also obtained between CCI scores and measures of "consequences of caregiving" assessed by a) the "ADL trouble due to patient" (0.24 , $p<0.01$) and b) "Tolerance for patient behavior" (-0.33 , $p<0.001$).		
Goodman (1991) ⁷ United States		Support for Caregiving (PSSC)	One factor: Availability or adequacy of social support (or help)	5-point Likert scale (ranging from 1=Not at all to 5=Extremely)	review of literature and empirically-determined reasons for joining self-help groups. Structural validity was established through PCA with Varimax rotation using an initial 21-item scale. Inspection of item loading reduced the scale to 12 items. PCA analyses were repeated yielding two separate scales (each with one factor/component): The Perceived Support for Caregiving (PSSC) and the Social Conflict (SC) scale. The PSSC explained 42.8% of the variance. Concurrent validity was established by significant positive Pearson correlations between PSSC total scores and Natural Network Indices (r=0.26 to 0.39; p<0.02 to 0.001). These results were collected from a subsample of respondents (N=70 to 79).	Cronbach's α, full scale=0.84	
		(SC)	One factor: Lack or inadequacy of social support	5-point Likert scale (ranging from 1=Not at all to 5=Extremely)	Structural validity. A PCA with Varimax rotation yielded the SC factor/component explaining 18% of the variance. Concurrent validity was established by a significant positive Pearson correlation between the total scores on the SC and the ZBI item "Do you feel that your relative currently affects your relationship with other family members or friends in a negative way" (r=0.34, p=0.001).	<u>Cronbach's α, full scale</u> =0.72	
Theut et al. (1991) ⁸ United States		Grief Scale (AGS)	(bereavement of wives whose spouses had been diagnosed with dementia) Seven domains:	5-point Likert scale (1=Strongly disagree, 2=Disagree, 3=Somewhat agree, 4=Agree, 5=Strongly agree)	Content validity. Authors report selecting items from previous grief scales, reviewing the literature on the dimensions of anticipatory grief and developing additional items based on clinical experience with wives of patients with dementia. Structural validity. No formal examination of the underlying structure of the scale is presented. Concurrent validity was established by positive and significant (p<0.001) correlations between total scores in the AGS scale and the depression, anxiety, and hostility dimensions of the Hopkins Symptom Checklist (SCL-90-R). Note: Coefficients were not reported.	<u>Cronbach's α, full scale</u> =0.84	
Vitaliano <i>et</i> al. (1991) ⁹ United States		Caregiver Burden (SCB)	Two domains: (1) Objective burden or number of negative experiences; (2) Subjective burden or distress in response to experiences	Objective burden: 2-point scale (0=Did not Occur, 1=Occurrence) Subjective burden: 5-point scale (ranging from 0=No occurrence to 4=Occurrence with severe distress) (Each item received two ratings: one for objective burden and a second for subjective burden	salient to them. Items are scored based on two general "domains:" Objective and Subjective. That is, the scaling of the items was assesses both objective burden (OB) and subjective burden (SB). Structural validity. No formal examination of the underlying structure of the scale/subscales is presented. Concurrent validity: The SCB OB and SB subscales correlated significantly (p<0.05) with depression (0.54, 0.41, respectively), anxiety (0.43, 0.26, respectively), and suppressed anger (subjective=0.42). The SCB OB and SB subscales also had significant (p<0.05) negative correlations with morale (-0.51, -0.48, respectively). Depression, anxiety, suppressed anger, and morale were measured by the Beck Depression Inventory-Short (BDI-S), the Symptom Checklist90 Anxiety Scale (SCL-90), the Suppressed Anger Subscale from the Anger Expression Scale, and the Satisfaction with Life Scale, respectively.	Cronbach's α by subscales: Objective burden (α=0.85) Subjective burden (α=0.89) Test-retest reliability (15-18 months apart) was estimated with Pearson's correlations between scale administrations: Objective burden (r=0.64, p<0.001) Subjective burden (r=0.70, p<0.001)	
Given <i>et al.</i> (1992) ¹⁰		_			Content validity was established by requiring that all the members of a 5-group team agree that each item from a 101-item pool belonged to a particular construct. After a pilot test with 99 CGs, items were	Cronbach's α by subscales: Impact on health (α=0.80)	

		Assessment	Five factors:	from 1=Strongly disagree	dropped due to lack of clarity, variability, or association with any other items reducing the item pool to	Impact on schedule (α=0.82)
United States	6	(CRA)	(1) Impact on health (2)	to 5=Strongly agree)	a 40-item scale.	Impact on finances (α=0.81)
			Impact on CG's daily		Structural validity. An initial EFA with a sample of 377 participants (29.2% dementia CGs) led to the	Sense of self-esteem (α=0.90)
			schedule; (3) Impact on CG's		reduction of the 40-item scale to 35 items. A PCA with oblique rotation yielded a 5-factor/component	Friends/family support (α=0.85)
			finances; (4) Relationship to		solution. A scree plot confirmed the 5-factor structure. Further elimination of items due to low loadings	
			CG's sense of self-worth; (5)		resulted in a 24-item scale. A final re-run of the PCA model with the 24-item scale yielded a 5-factor	
			Friends/family support		·	
			Friends/family support		solution accounting for 65.1% of the variance in items.	
					Measurement (factorial) invariance tests. Using a second independent sample (also N=377; 26.8%	
					dementia CGs) a multiple-group CFA was conducted to test the factorial invariance of the CRA	
					instrument across diseases (Alzheimer's vs. cancer), spouse vs non-spouses, and across time. Results	
					showed that the subscale structure of the CRA remains stable across diverse groups of CGs and across	
					time. The latter suggests suitability of the CRA to measure change in CG reactions.	
					Concurrent validity was established by calculating Pearson correlations between CRA subscales and a)	
					the CES-D and b) the ADL Dependencies Scale using the combined independent samples (N=754).	
					Finance (r=0.25, r=0.34), family support (r=0.20, r=0.39), and health (r=0.29, r=0.57) were significantly	
					and positively correlated with ADL dependencies and depression respectively. CG esteem was	
					significantly and negatively associated with depression (r=-0.23).	
Camanda	4 D D D	Family Carefficts	Family as a flish	12 :+		Cranbachia a bu subscalas
Semple	ADRD		Family conflict	12 items,	Content validity was established by in-depth interviews with 20 CGs that resulted in the identification of	
(1992) ¹¹		Scales (FCS)	Three factors:	4-point Likert scale	three family conflict domains and the creation of 4 items per domain.	Definitions & strategies conflict
			r ,		Structural validity was established through CFA using the 12-item scale. After comparing competing	(α=0.80)
United States	6		conflict; (2) Treatment of	disagreement to 4=Quite	model that conformed underlying theories, a 3-factor model yielded the best fit as measured by a	Treatment of patient conflict (=0.86)
			patient conflict;	a bit of disagreement)	GFI=0.98 and a chi-square/df ratio=2.9 (less than 3 is desirable).	Treatment of CG conflict (reported as
			(3) Treatment of CG conflict		As evidence of concurrent validity the authors used Pearson correlations to show relationships between	"within the range between the two
					the three FCS factors/subscales and the Hopkins Symptom Checklist (HSC) measures of anger and	other subscales")
					depression. All correlations between the HSC-Anger measure and the FCS subscales were significant	
					(p<0.001): Definitions & strategies conflict (r=0.23), Treatment of patient conflict (r=0.25), and	
					Treatment of CG conflict (r=0.34). All correlations between the HSC-depression measure and the FCS	
					subscales were also significant (p<0.001): Definitions & strategies conflict (r=0.23), Treatment of patient	
					conflict (r=0.28), and Treatment of CG conflict (r=0.28).	
Taui at al	N 4:	The Device of	CC manations to mations	24:+		Daharian Francisco Cassinar
Teri et al.	Mixed	The Revised	·	24 items,		Behavior Frequency Scoring:
(1992) ¹²						
		Memory and	1		agreeing on items. This method reduced the original pool of 64 items to 47 items.	<u>Cronbach's α, full scale</u> =0.84
		Behavior	Three factors/components:	scales.	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using	Cronbach's α by subscales:
United States	;		Three factors/components:	scales.		Cronbach's α by subscales:
United States	5	Behavior	Three factors/components: (1) Memory-related	scales.	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using	Cronbach's α by subscales:
United States	6	Behavior Problem Checklist	Three factors/components: (1) Memory-related problems; (2) Depression	scales. 1) <u>Frequency</u> of patient	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the	Cronbach's α by subscales: Depression (α=0.80) Memory-Related problems (α=0.79)
United States	5	Behavior Problem Checklist	Three factors/components: (1) Memory-related problems; (2) Depression	scales. 1) <u>Frequency</u> of patient behavior: 5-point Likert scale	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance.	Cronbach's α by subscales: Depression (α=0.80) Memory-Related problems (α=0.79)
United States	5	Behavior Problem Checklist	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors	scales. 1) <u>Frequency</u> of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by	Cronbach's α by subscales: Depression (α=0.80) Memory-Related problems (α=0.79)
United States	5	Behavior Problem Checklist	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring	scales. 1) <u>Frequency</u> of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. <u>Concurrent validity</u> was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring,	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring:
United States		Behavior Problem Checklist	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item:	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week,	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring: Cronbach's α , full scale =0.90
United States	;	Behavior Problem Checklist	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales:
United States	5	Behavior Problem Checklist	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89)
United States	S	Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often)	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88)
United States	5	Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
United States	5	Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG:	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
United States	3	Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.42), and	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
United States	;	Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.)	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little,	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.42), and Disruption (r=0.41) subscales.	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
United States		Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.)	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
United States		Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.)	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.42), and Disruption (r=0.41) subscales.	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
United States		Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.)	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely)	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
United States		Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.)	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely)	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.32), Depression (r=0.42), and Disruption (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
		Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.)	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely)	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Memory-Related problems subscale and the HAM-D Scale (r=0.001, p>0.05).	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
Macera et al.		Behavior Problem Checklist (RMPBC)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.) Perceived burden	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely)	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Memory-Related problems subscale and the HAM-D Scale (r=0.001, p>0.05).	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver <i>Reaction</i> Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
		Behavior Problem Checklist (RMPBC) Caregiver Burden Scale	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.) Perceived burden Three domains:	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely) 15 items, 2-point scale (0=No,	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Memory-Related problems subscale and the HAM-D Scale (r=0.001, p>0.05). Content validity and the creation of items was not addressed in the article. Authors reviewed the literature on perceived burden and state the importance of measuring burden associated with specific	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
Macera <i>et al.</i> (1993) ¹³	ADRD	Behavior Problem Checklist (RMPBC) Caregiver Burden Scale	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.) Perceived burden Three domains: (1) Activity for which patient	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely) 15 items, 2-point scale (0=No, 1=Yes)	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Memory-Related problems subscale and the HAM-D Scale (r=0.001, p>0.05). Content validity and the creation of items was not addressed in the article. Authors reviewed the literature on perceived burden and state the importance of measuring burden associated with specific caregiving tasks. Results of the authors-developed CBS scale are presented as a pilot study.	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
Macera et al.	ADRD	Behavior Problem Checklist (RMPBC) Caregiver Burden Scale	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.) Perceived burden Three domains: (1) Activity for which patient required help; (2) Activity	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely) 15 items, 2-point scale (0=No, 1=Yes)	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.32), Depression (r=0.42), and Disruption (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Memory-Related problems subscale and the HAM-D Scale (r=0.001, p>0.05). Content validity and the creation of items was not addressed in the article. Authors reviewed the literature on perceived burden and state the importance of measuring burden associated with specific caregiving tasks. Results of the authors-developed CBS scale are presented as a pilot study. Structural validity. No examination of the underlying structure of the scale is presented.	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
Macera <i>et al.</i> (1993) ¹³	ADRD	Behavior Problem Checklist (RMPBC) Caregiver Burden Scale	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.) Perceived burden Three domains: (1) Activity for which patient required help; (2) Activity for which CG provided help;	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely) 15 items, 2-point scale (0=No, 1=Yes)	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.32), Depression (r=0.42), and Disruption (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Memory-Related problems subscale and the HAM-D Scale (r=0.001, p>0.05). Content validity and the creation of items was not addressed in the article. Authors reviewed the literature on perceived burden and state the importance of measuring burden associated with specific caregiving tasks. Results of the authors-developed CBS scale are presented as a pilot study. Structural validity. No examination of the underlying structure of the scale is presented.	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84)
Macera et al. (1993) ¹³ United States	ADRD	Behavior Problem Checklist (RMPBC) Caregiver Burden Scale (CBS)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.) Perceived burden Three domains: (1) Activity for which patient required help; (2) Activity for which CG provided help; (3) Stress by providing help	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely) 15 items, 2-point scale (0=No, 1=Yes)	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.32), Depression (r=0.42), and Disruption (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Memory-Related problems subscale and the HAM-D Scale (r=0.001, p>0.05). Content validity and the creation of items was not addressed in the article. Authors reviewed the literature on perceived burden and state the importance of measuring burden associated with specific caregiving tasks. Results of the authors-developed CBS scale are presented as a pilot study. Structural validity. No examination of the underlying structure of the scale is presented. Concurrent validity for the CBS scale was established by a significant positive Pearson correlation with the CES-D (r=0.38, p	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84) Cronbach's α , full scale =0.87
Macera et al. (1993) ¹³ United States Gerritsen et	ADRD	Behavior Problem Checklist (RMPBC) Caregiver Burden Scale (CBS)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.) Perceived burden Three domains: (1) Activity for which patient required help; (2) Activity for which CG provided help; (3) Stress by providing help Subjective burden	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely) 15 items, 2-point scale (0=No, 1=Yes) 13 items,	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.32), Depression (r=0.42), and Disruption (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Memory-Related problems subscale and the HAM-D Scale (r=0.001, p>0.05). Content validity and the creation of items was not addressed in the article. Authors reviewed the literature on perceived burden and state the importance of measuring burden associated with specific caregiving tasks. Results of the authors-developed CBS scale are presented as a pilot study. Structural validity. No examination of the underlying structure of the scale is presented. Concurrent validity for the CBS scale was established by a significant positive Pearson correlation with the CES-D (r=0.38, p<	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84) Cronbach's α , full scale =0.87 Cronbach's α , full scale =0.84.
Macera <i>et al.</i> (1993) ¹³ United States	ADRD	Behavior Problem Checklist (RMPBC) Caregiver Burden Scale (CBS)	Three factors/components: (1) Memory-related problems; (2) Depression problems; (3) Disruptive behaviors (The scale uses two scoring methods per item: frequency of patient behavior problems and CG distress or reaction to the patient behavior problems.) Perceived burden Three domains: (1) Activity for which patient required help; (2) Activity for which CG provided help; (3) Stress by providing help Subjective burden	scales. 1) Frequency of patient behavior: 5-point Likert scale (0=Never occurred, 1=Not in the past week, 2=1 to 2 times in the past week, 3=3 to 6 times in the past week, 4=Daily or more often) 2) Reaction of "upset" by CG: 5-point Likert scale (0=Not at all, 1=A little, 2=Moderately, 3=Very much, 4=Extremely) 15 items, 2-point scale (0=No, 1=Yes) 13 items,	A PCA approach with Varimax rotation was used to study the underlying dimensions of the scale using "frequency scorings". The analysis yielded a 24-item, 3-component/factor scale explaining 53.4% of the variance. Concurrent validity was examined calculating Pearson correlations between RMPBC subscales and well-known (benchmark) scales measuring similar constructs. Correlations were estimated separately by scoring method Behavior Frequency and Caregiver Reaction. For the Behavior Frequency scoring, significant positive Pearson correlations were obtained between the RMPBC Depression subscale and the HAM-D Scale (r=0.44, p<0.01) as well as between the RMPBC Memory-Related Problems subscale and the MMSE. For the Caregiver Reaction scoring, validity was demonstrated by significant positive Pearson correlations between all RMPBC subscales and the CES-D scale and the Caregiver Stress Scale (CSS) (all p-values < 0.01). Depression measured by the CES-D correlated with the RMPBC Memory-Related Problems (r=0.29), Depression (r=0.31), and Disruption (r=0.26) subscales. Burden measured by the CSS correlated with the RMPBC Memory-Related Problems (r=0.32), Depression (r=0.42), and Disruption (r=0.41) subscales. Discriminant validity was established for RMPBC Behavior Frequency by non-significant correlations between the RMPBC Depression subscale and the Mini-Mental State Exam (r=-0.04, p>0.05) as well as non-significant correlations between the RMPBC Memory-Related problems subscale and the HAM-D Scale (r=0.001, p>0.05). Content validity and the creation of items was not addressed in the article. Authors reviewed the literature on perceived burden and state the importance of measuring burden associated with specific caregiving tasks. Results of the authors-developed CBS scale are presented as a pilot study. Structural validity. No examination of the underlying structure of the scale is presented. Concurrent validity for the CBS scale was established by a significant positive Pearson correlation with the CES-D (r=0.38, p<	Cronbach's α by subscales: Depression (α =0.80) Memory-Related problems (α =0.79) Disruption (α =0.67) Caregiver Reaction Scoring: Cronbach's α , full scale =0.90 Cronbach's α by subscales: Depression (α =0.89) Memory-Related problems (α =0.88) Disruption (α =0.84) Cronbach's α , full scale =0.87

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The	,		2=Disagree, 3=Agree on		Personal consequences (α =0.74) Relationship (α =0.77)
Netherlands			the other, 4=Agree, 5=Agree very much) Note: Items were recoded to binary, 2-point scale (1,2=0; 3,4,5=1)	time point (after 3 months) produced similar results explaining 37.6% of the variance.) Based on these results and an inspection of item loadings, authors further reduced the 20-item scale to a 13-item scale.	Subscales: Relationship α=0.77,
Gilleard <i>et al.</i> (1994) ¹⁵ United Kingdom	(DQ)	Dementia knowledge Three domains: (1) Biomedical knowledge; (2) Services knowledge; (3) Coping knowledge	scale (including a fifth "don't know" option)	pilot tested the 34-item scale, and all items were scored 'correct' by at least eight out of 10.	Cronbach's α, full scale =0.88 Spearman-Brown (SB) split-half reliability estimate for subscales: Biomedical Knowledge (SB=0.78) Services Knowledge (SB=0.71) Coping Knowledge (SB=0.71)
Hinrichsen & Niederehe (1994) ¹⁶ United States	Management Strategies Scale (DMSS)	Management strategies Three factors: (1) Managing criticism; (2) Encouragement; (3) Active management		Content validity was established in a prior study by Niederehe & Scott (1987). ¹⁷ A 34-item pool was developed based on literature reviews, clinical work with dementia patients and family members, and	Cronbach's α by subscales: Criticism (α =0.85) Encouragement (α =0.80) Active management (α =0.77)
Carruth (1996) ¹⁸ United States	Caregiver Reciprocity Scale (CRS)	CG reciprocity Four factors: (1) Warmth and regard; (2)	26 items, 5-point Likert scale (ranging from 1=Strongly disagree to 5=Strongly agree)	Content validity was established by an initial 50-item pool developed from a literature review and interviews with family CGs. Two panels of experts rated items relevance and CVIs were computed. Items with low CVIs were eliminated reducing the pool to 32 items. A pilot test with 30 CGs provided data for further item reduction by "item-to-item", "item-to-subscale", and "item-to-total" correlations further reducing the scale to 30 items. Structural validity. Before attempting to establish validity, an inter-item analysis dropped four poorly-correlated items reduce the 30-item scale to 26 items. The sample (N=303) was randomly split into two subsamples to perform EFA (N=130) and CFA (N=173). An EFA performed by factor analysis with Varimax rotation yielded a 22-item, 4-factor solution that accounted for 62.9% of the variance. The CFA with the cross validation sample established the acceptability of the 4-factor model with adequate fit indexes (e.g., GFI=0.88; AGFI=0.85; RMR=0.05; TLI=0.95). AVE was used to assessed the convergent validity of the 4 factors extracted by CFA. AVE values ranged from 0.47 to 0.64. (Three of the four AVEs were slightly below the recommended threshold of 0.50.)	Cronbach's α by subscales: Warmth and regard (α =0.89) Intrinsic rewards for giving (α =0.82) Love and affection (α =0.86) Balance within family caregiving (α =0.78) Test-retest reliability was estimated using Pearson's correlations with a convenience sample of N=35 who retested 2 weeks after the initial test. Test-retest reliability by subscales: Warmth and regard (r=0.70); Intrinsic rewards for giving (r=0.69); Love and affection (r=0.88); Balance within family caregiving (r=0.58)
Keady & Nolan (1996) ¹⁹ United Kingdom	instrumental stressors in Dementia (BISID)	(ADL) (3) Continence	the scale below and <u>also</u> according to "Way of	items with 38 dementia CGs confirmed the scale's content acceptability to CGs. Structural validity. No formal examination of the underlying factor structure of the scale using factor analysis is presented.	Cronbach's α estimates from the BISID subscales were obtained from two independent samples. The first sample comprised 205 caretakers and the second independent sample included 264 caretakers. Cronbach's α by subscales (N=205): Behavioral (α =0.89). ADL (α =0.90) Continence (α =0.92) Cronbach's α by subscales in the second independent sample (N=264) were very close and also within acceptable ranges:

Vernooij- Dassen <i>et al.</i> (1996) ²⁰ The Netherlands	(SCQ)	Feelings of competence	3=Totally unable to complete the activity) Ratings for "Perceived stress level" 4-point Likert scale (from 0=Not stressful to 3=Very stressful) 27 items, 4-point Likert scale (1=Disagree Very Much, 2=Disagree, 3=Agree, 4=Agree Very Much)	Content validity was determined through classification of items by a 39-person panel of experts. Structural validity was established through EFA. Authors reported conducting an EFA that yielded the same 3-factor structure that the panel of experts had previously predicted. No further details of the EFA extraction procedures were provided. Note: The 7-item abbreviated version of the SCQ scale (S-SCQ) developed later by Vernooij-Dassen et al. (1999) ²¹ also produced the same 3-factor structure through an EFA. Using the same sample of CGs, authors found significant Pearson's correlation between the S-SCQ and the original SCQ (r=0.88).	(α=0.55); Satisfaction with one's CG
Davis et al. (1997) ²² United States	Caregiver Activity Survey (CAS)	Time spent in caregiving activities (One "total score" measure) Scores were the hours and minutes engaged in the activity during a 24 hour	6 items, The six items included: (1) communicating; (2) using transportation (3) dressing; (4) eating (5) looking after one's appearance; (6) supervising	Content validity. Special efforts were made to find terms that could be used with a variety of populations in different cultures. Several versions of the scale were pilot-tested. in different cultural settings. Specialists reviewed the scale drafts to develop cultural and linguistic equivalents in several	Test-retest reliability was established by retesting N=42 CGs within a 2-week interval (i.e., week 1 and week 3), and calculating the ICC. The ICC=0.85,
Picot <i>et al.</i> (1997) ²³ United States	Picot Caregiver Rewards Scale (Picot-CRS)	(1) External rewards:	24 items, 5-point Likert scale (0=Not at all, 1=A little, 2=Somewhat, 3=Quite a lot, 4=A great deal)	Content validity was established by interviews with eight family CGs to identify themes about positive feelings and changes (i.e., rewards) resulting from caregiving. Twenty-seven items were generated from caregiving literature and considering caregiving's external and internal rewards. A pilot test with 20 CGs led to a reduction from 27 to 24 items. The underlying factorial structure of the scale was not examined. Concurrent validity was demonstrated by a significant positive Pearson correlation between PCRS scores and "caregiving demands" (r=0.22, p<0.05) measured by Texas Research Institute of Mental Sciences Behavioral Problem Checklist (TRIMS BPC) as well as by a significant positive association between PCRS scores and palliative coping (r=0.26, p<0.05) measured by the Jalowiec Coping Scale. A hypothesized negative association between rewards and costs as measured by the Costs of Care Index (CCI) was not found (r=0.07, p>0.05).	
Schoefield <i>et</i> <i>al.</i> (1997) ²⁴ Australia	instrument to assess the experience of	Social Support Three factors/components: (1) Family support; (2) Friends support; (3) Esteemed by family and	7 items, 5-point Likert scale (ranging from 1=Strongly disagree to 5=Strongly agree)	Content validity was demonstrated by reviewing literature and instruments and conducting interviews with CGs to generate key domains and a preliminary bank of items. A pilot test with 98 CGs that included a comparison group of 78 non-CGs was also conducted that further refined the initial item	Cronbach's α by subscales: Family support (α =0.64) Friend's support (α =0.57) Esteemed by family and friends (α =0.56)
		(1) Closeness; (2) Conflict Caring role Three factors/components: (1) Satisfaction/Love; (2) Resentment; (3) Anger Help needs by care recipient	6 items, 3-point Likert scale (1=Less, to 3=More) 16 items, 5-point Likert scale (1=Strongly disagree to 5=Strongly agree) 11 items,	The <u>structural validity</u> for the 16-item scale administered to CGs was assessed through a PCA with Varimax rotation that produced a 3-factor/component structure explaining 44.2% of the variance.	Cronbach's α by subscales: Closeness (α =0.68) Conflict (α =0.70) Cronbach's α by subscales: Satisfaction (α =0.71) Resentment (α =0.69) Anger (α =0.71) Cronbach's α by subscales:
	Needed by Recipient Scale 5: Behavior Problem	Two factors/components: (1) ADLs; (2) IADLs Behavior problems Three factors/components: (1) Aggressive; (2)	3-point Likert scale (from 1=No help, 2=Some help, 3=A lot of help) 18 items,	Varimax rotation that resulted in a 2-factor/component solution accounting for 57.1% of the variance. Finally, the <u>structural validity</u> for the 18-item scale administered to CGs was determined through a PCA, also with Varimax rotation that produced a 3-factor/component solution accounting for 41% of the variance.	ADL (α =0.82) IADL (α =0.68) Cronbach's α by subscales: Aggressive (α =0.84) Depressive (α =0.60) Forgetfulness/Confusion (α =0.73)

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			Forgetfulness/confusion			
Kaufer <i>et al.</i>	ADRD	The	Subjective CG distress	10 items,	Content validity. A preliminary version of the NPI-D included items from the three subscales contained	Test-retest reliability was established
(1998) ²⁵		_				by retesting 23.5% (N=20) of the CGs
(,						within an average of 4.5 days and
United States		Caregiver			psychological or emotional distress. As a result, a revised version of the NPI-D scale excluded items from	
		Distress (NPI-D)	developed as an adjunct	Note: The 10 items	the physical and social subscales.	correlation (r=0.92, p<.001).
			scale of Neuropsychiatric		, •	Interrater reliability was also
					, , ,	calculated with the ICC between two
					, , ,	raters of the NPI-D in <u>16 CGs</u>
			neuropsychiatric symptoms		p<0.001). (The abridged RSS included 2 of the 3 subscales: personal distress and negative feelings.) The	(ICC=0.96, P < 0.001).
			, ,		correlation between total NPI and NPI-D scores was 0.83 (p < 0.001).	
Zeiss <i>et al.</i>	Mixed		patients on CG distress. Self-care self-efficacy	each of these symptoms.	Content validity was established through literature reviews and authors' own experiences working with	Cranbachic or full coals =0.76
(1999) ²⁶	iviixeu	•		10 items, Rating of confidence in	CGs resulting in the development of items for two separate measures: Self-care self-efficacy and	Crombach's α , full scale =0.76.
(1333)		•	that reduce stress and		, ,	Test-retest reliability with a subsample
United States			enhance well being	r	wording and to decide the best method for administration. As the result of the pretesting, the measures	
						high Pearson coefficient (r=0.675,
						p<0.001).
				confident).	structure of the scales is presented.	
					Concurrent validity for the Self-Care Self-Efficacy scale was established by a significant positive Pearson	
					correlation between Self-Care and the "network size" subscale of the Arizona Social Support Interview	
					(r=0.30, p<.001).	
			Problem-solving self-efficacy		Concurrent validity for the Problem-Solving Self-Efficacy scale was established by a significant positive	<u>Cronbach's α, full scale</u> =0.83.
		•		Rating of confidence in performing item activity	Pearson's correlation between Problem Solving and the Logical Analysis subscale of the Daily Living Questionnaire (r=0.19, p<0.05).	Test-retest reliability with a subsample
			0.	(ranging from 0%=No		(18%) retested after 11 weeks was a
			related to psychological	confidence to		high Pearson coefficient (r=0 .683,
				100%=Completely		p<0.001).
				confident).		,
Farran <i>et al.</i>	ADRD	Finding Meaning	Positive aspects of	43 items,	Content validity was demonstrated through a preliminary qualitative study of family CGs of demented	Cronbach's α, full scale =0.91
(1999) ²⁷			caregiving	5-point Likert scale		Cronbach's α by subscales:
		Caregiving Scale			· ·	Loss/Powerlessness (LP) (α=0.89)
United States			(1) Loss/Powerlessness (LP);(2) Provisional meaning			Provisional Meaning (PM) (α =0.88)
			(PM); (3) Ultimate meaning	agree)	The shortened FMTCS measure resulted from the examination of item-to-scale, item-to-item, and item-to-total correlations. This pilot produced "acceptable" reliability estimates both by three	Oitimate Meaning (OM) ($\alpha = 0.91$)
			(UM)		factors/subscales (0.88 to 0.95) and total scale (0.91). The pilot test-retest reliability (one-month	
			(OIVI)		interval), estimated with Spearman correlation, ranged from 0.85-0.89 for the three subscales and 0.80	
					for the full FMTCS.	
					Given that the three original subscales had a "strong" theoretical base, the authors used CFA to	
					establish the factorial validity of the FMTCS using an independent sample of N=215 caretakers (only	
					N=208 had available data on the FMTCS). The CFA model confirmed the 3-factor structure identified in	
					the previous pilot study and provided an adequate overall fit (e.g., GFI=0.998 and a coefficient of	
					determination=0.763).	
					Concurrent validity was established by Pearson's correlations between FMTCS scores and existing measures hypothesized to be related. Scores on the LP subscale were significantly (all p-values < 0.01)	
					correlated with scores on a) Patient Problem behaviors (r=0.44), b) Marital tension (r=0.38), c) Global	
					role strain (r=0.70), and d) depression (r=0.61), as measured by the CES-D. Scores on the PM subscale	
					were significantly correlated with a) Marital satisfaction (r=0.24), b) Caregiver Satisfaction (r=0.64), and	
					c) Personal gain(r=0.57). Scores on the UM subscale were significantly correlated with a) Religious	
					participation (r=0.53), b) Personal religion beliefs (r=0.61), and c) Religious support satisfaction (r=0.24).	
					Total FMTSC scores revealed similar relationships. FMTSC total scores were positively associated with	
					measures of a) Marital satisfaction (r=0.46), b) Caregiver satisfaction (r=0.58), c) Personal gain (r=0.39),	
					c) Religious participation (r=0.37), d) Religious beliefs (r=0.54), and e) Religious support satisfaction	
					(r=0.21). Total FMTSC scores, however, were <i>negatively associated</i> with Patient Problem behaviors (r=-	
	1055				0.35), Marital tension (r=-0.49), Role strain (-0.64), and Depression (-0.60).	
Matsuda	ADRD	Subjective	Subjective burden	14 items,	The <u>content validity</u> of the SBS scale is not formally addressed by the author. However, a prior	Cronbach's α, full scale =0.87

(1999)28	Burden Scale	Three domains:	5-point Likert scale	publication by the same author ²⁹ described the development of items for the tool based on literature	Split-half reliability of the full scale was
	(SBS)	(1) Wellbeing of CG	(0=No, 1=Yes, a little bit,	reviews on stress and coping theories as well as clinical experiences. Development of items also	estimated using the Spearman-Brown
Japan		(emotional, physical, social,	2=Yes, to some degree,	addressed differences in family context unique to Japan. For example, there is a higher proportion of	formula (r= 0.80).
		and financial); (2) Wellbeing	3=Yes, to much degree,	three-generation households and daughter-in-law CGs in Japan with CG stressors unique to family	Rest-retest reliability (6-month
		of CG's family; (3)	4=Yes, very much)	members and relationships.	interval) was calculated in a subsample
		Interpersonal stress among		No examination of the underlying factorial structure or dimensionality of the 14-item scale is presented.	(N=50) using a Pearson's correlation
		relatives		Concurrent validity was assessed by calculating a Pearson's correlation coefficient between the SBS	coefficient (r=0.72).
				total scores and a mental health criterion measured by the General Health Questionnaire (GHQ) (r=0.41,	, ,
				p<0.001).	
				Group discriminant validity was established by comparing SBS scores for CGs with high scores in the	
				GHQ (17 or higher-MU group) vs CGs with low GHQ scores (16 or under-MH group) using a t-test. The	
				MU group showed significantly higher SBC scores that the MH group (t=5.45, $p < 0.001$).	

Note: AD = Alzheimer's disease; ADRD = Alzheimer's disease and related dementias; ADL = Activities of Daily Living; AGFI = adjusted goodness-of-fit index; AVE = average variance extracted. A recommended threshold for convergent validity is an AVE > 0.50; CG = Caregiver; CATPCA = categorical principal component analysis; CES-D = Center for Epidemiological Studies Depression Scale; CFA = confirmatory factor analysis; CFI = comparative fit index; CR = composite reliability. A recommended threshold for convergent validity is a CR > 0.70; CVI = content validity index; ¹⁹¹ EFA = exploratory factor analysis; GFI = goodness of fit index; Hamilton Depression Rating Scale = HAM-D; Hospital and Anxiety Depression Scale = HADS; IADL = instrumental activities of daily living; ICC = Intra-class correlation coefficient; IFI = incremental fit index; IRT = item response theory; LSNS= Lubben Social Network Scale; ML = maximum likelihood; MLE = maximum likelihood estimation; MMSE = Mini-Mental State Examination; NPI = Neuropsychiatric Inventory; NFI = Normed Fit Index; NNFI = non-normed fit index; PAF = principal axis factoring; PCA = principal components analysis; POMS= Profile of Mood States; RMPBC = Revised Memory and Behavior Problems Checklist; RMSEA = root mean square error of approximation; SF-36 = Short form 36 Health Survey; SRMR = standardized root-mean-square residual; TLI = Tucker-Lewis Index; ZBI = Zarit Burden Interview; PSI = person separation index.¹⁹² PSI values above 0.70 indicate good to excellent reliability in differentiating persons along the measured trait. Proposed rule of thumb thresholds for ICCs are: between 0.50 and 0.75 (moderate); ≥ 0.75 (good), and ≥ 0.90 (excellent).¹⁹³ Generally accepted threshold for "good" Cronbach's α test of reliability is considered to be ≥ 0.70. Responsiveness (longitudinal validity) refers to the ability of an instrument to detect clinically important change over time.¹⁹⁴ Measures such as minimal important change (MIC), smallest detectable change (SDC), effect siz