Additional file 5. General and methodological characteristics of reviews included

General and methodological characteristics of reviews included					Underlying studies in the reviews			
Reference, first author's country of origin	Review design	Review objective	Review's eligibility criteria	Information sources and search periods	Score methodolog ical assessment:	Number, design and control conditions	Participants in underlying studies included in reviews	Number of sessions, intervention period and professional who delivered the intervention
Boots et al. (2013) Netherlands	Systematic review	(1) To present an overview of the evidence of the effectiveness and quality of Internet interventions for the informal caregivers of patients with dementia; (2) to assess which types of interventions are most effective (i.e., provide the best outcome for the participants); and (3) to indicate the feasibility of such interventions.	Inclusion criteria: - studies that reported the effects (quantitative and qualitative) of an internet- based intervention - informal (nonprofessional) caregivers of patients with mild cognitive impairment/dementia Exclusion criteria: - interventions solely aimed at the patient instead of the caregiver	PubMed, PsycINFO, CINAHL, Web of Science, and the Cochrane Library Additional searches: searches of references listed in the reviewed papers and meta- analyses Search period: 1988-2013	5	12 studies Design: (pretest/posttest) RCT, mixed method, formative evaluation, quasi-experimental Control conditions: – usual care, waitlist controls – a limited version of the intervention	Informal caregivers of persons with dementia. Setting was not further specified	Number of intervention sessions/modules ranged from 3 to 7 Intervention duration ranged from 4 weeks to 12 months Professionals - caregiver-therapist - technical experts in caregiving
Chien et al. (2011) Taiwan	Meta-analysis	To provide an integrated analysis of the effectiveness of support group intervention for caregivers of patients with dementia and to identify the significant predictors variables of outcomes	Inclusion criteria: - nonprofessional caregivers of patients with dementia - articles using quantitative methods and excluding qualitative studies - support groups led by professionals - support groups ypes including mutual support groups, educational psychology groups, and educational training groups - studies of quasi- or true experimental designs - control groups were general care, waiting list, or minimal support, including caregiving manuals and videos, information guides, personal consultation, traditional support groups, and short-break services - journal articles on caregivers' psychological well-being on burden and social consequence Exclusion criteria: - groups organized on the internet, by telephone, or in the community - single-subject or single-group design	Cochrane, Medline, PubMed, PsycARTICLES, PsycINFO, ERIC, Ageline, CINAHL, Psychology and Behavioral Sciences Collection Additional searches: Google search and reference lists of retrieved articles Search period: 1998-2009	7	30 studies Design of underlying studies is not reported (reported in inclusion criteria) Control conditions: – general care, waiting list – minimal support	Spouse (27-100%) of persons with dementia. Setting was not further specified	Number of intervention sessions is not specified Intervention duration (follow up after session) is not provided Professionals - single professional background - interdisciplinary

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Mantovan et al. (2010) Italy (correspond ence address)	Systematic review	To collect the current state of knowledge regarding relief or promoting interventions for family caregivers of people with dementia from international studies	Inclusion criteria: - caregiver and people with dementia (dyads) (> 18 years) - the care takes place at home (home care) by caregiver - relief and promotional offers through health and social service providers - Outcomes: stress, depression, wellbeing / quality of life, coping skills / management, institutionalization - quantitative studies of evidence Class 1-11 (Antes et al, 2003.) - publications from 2004-2009 - English, German, and Italian language studies (English abstracts in foreign languages) Exclusion criteria: - frail children (<18 years) - oncological care needed (terminal stage) - nursing care with congenital disabilities - care by professional nurses in social institutions - pharmacological interventions - studies of evidence Class 111-1V (Antes et al, 2003.) - gray literature - publications for 2004 - foreign language studies without English abstract	Cochrane Library, Medline (PubMed), Embase, Cinahl (Ebsco) und PsycINFO (Ebsco) Additional searches: journals were searched for relevant studies and their references in English and German Search period: 2004-2009	5	9 studies were reviewed Design: RCT, CT, secondary data analyses. In addition, 3 systematic reviews and 2 systematic reviews with meta-analysis were included Control conditions: – a limited version of the intervention	Family caregivers (not further specified) of person with dementia living at home	Number of intervention sessions ranged from 5 to 6 Intervention duration ranged from 3 to 18 months Professionals: - case manager, volunteer
Marim et al. (2013) Brazil	Systematic review and meta-analysis	To examine the evidence available in the literature on how effective education and support programs are in reducing the burden of caregivers of patients with dementia	Inclusion criteria: - RCTs with blinded assessments - interventions which provided interdisciplinary education and support for caregivers of patients with dementia - outcomes: the scale of caregiver burden using the Zarit Burden Interview Exclusion criteria: - not provided	PubMed, LILACS, EMBASE, SciELO, The Cochrane Library, Web of Science, CINAHL Additional searches: www.controledtrials.com database and abstracts of conference papers, references to review articles, published systematic reviews and references to randomized clinical trials Search period: inception-2011	7	7 studies All studies were RCTs Control conditions: – usual care	Caregivers (not further specified) of person with dementia. Setting was not further specified	Number of intervention sessions is not provided Intervention duration ranged from 4 to 12 months Professionals: - not reported

Parker et al	Systematic	To assess the	Inclusion criteria:	CINAHI MEDIJNE PSYCINEO	5.5	3/1 studios	Snouse (52%)	Number of intervention sessions
Parker et al. (2008) Australia	Systematic review and meta-analysis	To assess the effectiveness of interventions that assist caregivers to provide support for people living with dementia in the community	Inclusion criteria:	CINAHL, MEDLINE, PsycINFO, Cochrane (CDSR, DARE, CCTR, CENTRAAL), APAIS health, Current Contents, ERIC, Professional Development Collection, Psycarticles, Dissertation and Thesis Abstracts, NHMRC guidelines, Social Science Citation, Ageline, Econlit, Sociological Abstracts Additional searches: hand searching reference lists of articles retrieved, foundation works older than five years referred to in the literature were also included in the review Search period: 2000-2005	5.5	34 studies All studies were RCTs. In addition 3 meta-analyses and 3 systematic reviews were included Control conditions: – usual care, waiting list – a limited version of the intervention	Spouse (52%) Caregivers taking responsibility for the care of a person with dementia living in the community	Number of intervention sessions ranged from 1 to 38 Intervention period: post test ranged from 1 to 24 months 2nd post test ranged from 3 to 24 months 3rd post test ranged from 6 to 36 months Professionals: - project staff member, occupational therapist, psychologist, nurse(s), volunteers who had been caregivers
Peacock & Forbes (2003) Canada	Systematic review	To determine the effectiveness of a range of interventions to enhance the well-being of caregivers of elderly persons with dementia living in the community	Inclusion criteria: - studies published in 1992 or later - interventions directed at caregivers of an elderly individual with dementia living in the community - caregiver outcomes: well-being (physical, mental, social, or financial), depression, strain, and/or other (e.g., institutionalization, health-care expenditure) - incorporated a control group or a pretest-posttest design with a sample size greater than one Exclusion criteria: - not provided	CINAHL, PubMed, PsycINFO Additional searches: hand searching the table of contents of The Gerontologist, Journal of Gerontological Nursing, and Journal of the American Geriatrics Society as well as searches in the reference lists of retrieved studies Search period: 1992-2002	5.5	11 studies All studies were RCTs Control conditions: – usual care – Interventions: respite care, a limited version of the intervention	Caregivers (not further specified) of persons with dementia living in the community	Number of interventions sessions ranged from 14 to 72 Intervention period ranged from 12 weeks to 8 years Professionals: family coordinator, case manager, clinical psychologist, clinical nurse specialist, family counselors, nurse

Pinguart &	Meta-analysis	To investigate effects of	Inclusion criteria:	PsycINFO, MEDLINE, Ageline,	6	127 studies were	Spouse (60%), adults	Overall:
Sörensen (2006)	ivieta-arialysis	interventions on caregiver	– care receiver has dementia	Psyndex	8	reviewed of which	child (39%)	Number of intervention sessions
Jorensen (2000)		burden, depression,	- an intervention condition was compared to	rsylluex		111 consist SMS	of people with	ranged from 1 to 180 (median =
Germany		indicators of positive	a control condition that did not receive the	Additional searches: cross-		interventions (16	dementia living at	9).
Germany		subjective well-being,	treatment	referencing		studies are respite	home (two	3).
		ability/knowledge of	- outcomes: caregiver burden, depression,	referencing		interventions)	exceptions)	Intervention period: range of
		caregivers, symptoms of	subjective wellbeing (e.g. life-satisfaction,	Search period: 1982-2005		interventions,	схесриона	intervention period is not
		care receivers and the risk	happiness), knowledge and/or coping abilities	Search period: 1502 2005		Design of underlying		provided. Follow up (in n=32) was
		of institutionalization.	of the caregiver, CR symptoms and			studies are not		on average after 11 months
			institutionalization			reported		(SD=11.1)
		To compare effects of	- statistics could be converted into effect sizes			· ·		,
		different forms of	- studies written in English or German, or in a			Control conditions		Professionals:
		interventions (such as	language for which we could get translation			were not reported		- not reported
		caregiver education,				,		·
		general support, and	Exclusion criteria:					
		respite)	– not provided					
		To analyze the impact of						
		study characteristics on						
		intervention effects, such						
		as group-based versus						
		individualized						
		interventions						
Thompson et al.	Systematic	To assess the	Inclusion criteria:	Search of the Specialized	5	44 studies	Informal caregivers	Number of sessions ranged from
(2007)	review and	effectiveness of	- RCTs	Register of the Cochrane			(individuals who	2 to 72
	meta-analysis	interventions based	 principal informal caregiver (not a paid 	Dementia and Cognitive		All studies are RCTs	provide	
United Kingdom		around information and	professional) and care recipient (diagnosed	Improvement Group			extraordinary,	Intervention period ranged from
		support provision for	with dementia) dyad living in the community			Control conditions:	uncompensated care,	1 month to 24 months
		informal caregivers of	- information and/or support interventions	Additional searches: citation		- wait list, usual care	predominantly in the	
		people with dementia in	– outcomes: caregiver outcomes (quality of	searches for key papers,		- interventions: a	home, carried out	Professionals:
		community settings	life, physical and mental health, burden or	reference checking and		limited version of the	primarily by family	– nurse moderator, case
			satisfaction); and patient outcomes (activities	contact with authors		intervention	members) of persons	manager, counselor, psychologist,
			of daily living or behaviours); health service				with dementia living	volunteers
			utilization (numbers of in-patient, outpatient or primary health care contacts); economic	Search period: inception - 2005			in the community	
			· · · · · · · · · · · · · · · · · · ·	2005				
			outcomes (time spent on caring activities)					
			Exclusion criteria:					
			– not provided					
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Van 't Leven et al. (2013) Netherlands	Systematic review	To update Smits et al.'s (2007) systematic review, and to provide the current best evidence about psychosocial programs for the dyads that involve face-to-face contact between professional caregivers and both the patient and the caregiver	Inclusion criteria: - effect studies evaluating dyadic psychosocial interventions for both older people with dementia living in the community and their caregivers. - interventions had to involve face-to-face contact between care professional and the person with dementia as well as the informal caregiver and the same care professional - interventions had to target psychosocial outcomes, improving mental health or wellbeing - RCTs Exclusion criteria: - RCTs involving respite interventions, and technological devices, as well as costeffectiveness studies, studies among nursing home residents, and integrated studies where results could not be related to a specific intervention or program	PsycINFO, EMBASE, MEDLINE, and CINAHL for single studies and reviews, and the Cochrane Library for systematic reviews Search period: 2005-2012 (also update of review of Smits et al.)	5.5	23 studies All studies were RCTs Control conditions: - usual care, waiting list - interventions: educational materials/visits, medication - not reported	Informal caregivers (not further specified) of person with dementia living in the community	Number of sessions ranged from 2 to 15 Intervention period ranged from 5 weeks to 3 years Professionals: - professional with master's degree, occupational therapist, multidisciplinary team, home health prof, nurse/case manager/coordinator, home care advisor psychiatrist, primary care physician/nurse practitioner/psychologists
Vernooij-Dassen et al. (2011) Netherlands	Systematic review	To evaluate the effectiveness of cognitive reframing interventions for carers of people with dementia To indicate the nature and quality of the evidence available To contribute to providing an evidence base for clinical practice	Inclusion criteria: - RCTs - family carers taking care of a person with any type of dementia; spouse, child, other family member or friend - interventions aimed at reduction of caregiver problems; family carers' beliefs about their responsibilities, about own need for support and assistance and their interpretations of behaviors of people with dementia. No restrictions regarding control interventions - outcomes: psychological morbidity and distress of family carers (including depression and anxiety), QoL of family carers, family carers' appraisal of their role performance (burden, coping, self-efficacy and problem behaviors), healthcare utilization outcomes (admission to residential care or number of general practice visits) Exclusion criteria: - not provided	Cochrane Dementia and Cognitive Improvement Group (CDCIG) Specialized Register including The Cochrane Library, MEDLINE, EMBASE, PsycINFO, CINAHL and LILACS Additional searches: ongoing trial databases and other gray literature sources Search period: inception-2009	7	11 studies All studies were RCTs Control conditions: - usual care, wait list - interventions: telephone calls, multiple different control groups - not reported	Spouse (40.2%) Adult child (28.1%) and other (6.7%) of community- dwelling people with dementia (25% of carers no relationship to person with dementia was specified)	Number of sessions ranged from 8 to 14 Intervention period ranged from 9 weeks to 4 months Professionals: - not reported