Authors	Year	Country	Design		Sample		Risk factors of abuse		
Aumors	rear	Country	Design	Number	Severity of dementia	Overall	Psychological	Physical	Neglect
Current study	-	Korea	Cross-sectional		MMSE=0-29 CDR=0.5-3	Not evaluated	Education ^p Severe dementia ^p , duration of illness ^p , BPSD ^p , low income ^c Severe care burden ^c DOCAD ^c	Non-AD ^P Severe dementia ^P , duration of illness ^P , BPSD ^P , low income ^C Severe care burden ^C Poor knowledge about dementia ^C	Not evaluated
⁷ an ⁶	2014	China	Prospective (Duration of follow up= 6 months)	149	Not described	Not evaluated	Agitated behavior ^p , emotional exhaustion ^c , depresonalization ^c , abuse at baseline ^c Large number of co-residing days ^c	Agitated behavior ^P , emotional exhaustion ^C , depersonalization ^C , abuse at baseline ^C Lack of personal achievement ^C	Not evaluated
Cheng et al. ¹⁸	2013	China	Cross-sectional	76	Not described	Behavioral problems ^P , poor forgiveness ^C , severe care burden ^C	Not evaluated	Not evaluated	Not evaluated
∕an and Kwok⁵	2011	China	Cross-sectional	122	Not described	Not evaluated	Large number of co-residing days ^c Young age ^P , agitated behavior ^P , high level of any care burden ^C , lack of assistance from a domestic helper ^E	Large number of co-residing days ^c	Not evaluated
Camden et al. ¹⁹	2011	UK	Prospective (Duration of follow up= 1 years)	63	MMSE=0-28	Care burden ^c , anxiety and depression ^c , negative reason for caring ^c	Not evaluated	Not evaluated	Not evaluated
Cooper et al. ¹⁴	2010a	UK	Prospective (Duration of follow up= 1 years)	131	Not described	No qualification ^P , shorter duration of memory problems ^P , change of anxiety and depression ^C , receiving fewer hours of in-home social care at baseline ^E	Not evaluated	Not evaluated	Not evaluated
Niglesworth et al. ⁷	2010	USA	Cross-sectional	129	Dementia Severity Rating Scale=mild-severe	Physical assault ^P , psychological aggression ^P , care burden ^C Low income ^P , role limitations due to emotional problems ^C , low education ^C , poor emotional status ^C , depression ^C , anxiety ^C	Physical assault ^P , psychological aggression ^P , care burden ^C	Physical assault ^P , psychological aggression ^P Low income ^P , role limitations due to emotional problems ^C	Psychological aggression ^P , care burden ^C , low income ^P Low education ^P , social contacts ^C
Cooper et al. ¹¹	2010c	UK	Cross-sectional	220	MMSE=0-29	More hours of care provided ^P , living with cargiver ^P , BPSD ^P , ADL ^P , abusive behaviors towards the caregiver ^P , depression ^C , anxiety ^C , care burden ^C , dysfunctional coping ^C , fewer previous relationship rewards ^C	Not evaluated	Not evaluated	Not evaluated
Cooper et al. ¹³	2008a	UK	Cross-sectional	86	MMSE=9.4*	More cognitive impairment ^P , less ADL impairment ^P , irritability ^P , receiving 24h care ^P , men ^C , care burden ^C , anxiety ^C	Not evaluated	Not evaluated	Not evaluated
Cooney et al. ¹⁶	2006	UK	Cross-sectional	82	Not described	Current relationship ^{BC}	Current relationship ^{P,C} , younger age ^P , total BPSD ^P , active-disturbed BPSD ^P , mood disturbed BPSD ^P , receiving longer breaks from caring ^C , poor social interaction between dementia patients and caregivers ^{P,C} , poor prior relationship ^{P,C} , history of regular arguments prior to dementia ^{P,C}	Current relationship ^{RC} , better physical health ^C	Current relationship ^{P,C}
Compton et al. ¹⁷	1997	UK	Cross-sectional	38	Not described	Problem behavior ^P , verbal and physical abuse by patient ^P , anxiety ^C , poor premorbid relationship ^{P,C} , less happy with the help caregivers received from others ^E	Not evaluated	Not evaluated	Not evaluated
Pot et al.8	1996	Netherland	Cross-sectional	169	MMSE=10.1-16.5 [†]	Men ^P , more cognitive impairment ^P , IADL ^P , caregiving tasks ^C , living with patient ^C , spouse ^C	Men ^P , more cognitive impairment ^P , IADL ^P , caregiving tasks ^C , living with patient ^C	Men ^P , more cognitive impairment ^P , IADL ^P , living with patient ^C , spouse ^C	Not evaluated
Cooney and Mortimer ¹⁵	1995	UK	Cross-sectional	67	Not described	Not evaluated	Poor premorbid relationship ^{P,C} , verbal reciprocity ^{P,C} , prior frequent arguments ^{P,C}	Physical reciprocity ^{PC} Psychological distress ^C , social isolation ^C , length of time caring ^C	Poor premorbid relationship ^{RC}
Coyne et al. ¹⁰	1993	USA	Cross-sectional	342(277)‡	Not described	Not evaluated	Not evaluated	Lower functioning level ^p , care for more years ^c , care for more hours per day ^c , care burden ^c , depression ^c	Not evaluated

^{*}mean of MMSE, †mean of MMSE is 16.5 for no abuse, 12.0 for psychological abuse and 10.1 for physical abuse, ‡number in blank was actual analyzed subject number. P: patient's factor, C: caregiver's factor, E: environmental factor, AD: Alzheimer's dementia, ADL: Activities of Daily Living, IADL: Instrumental Activities of Daily Living, BPSD: Behavioral and Psychological Symptoms of Dementia, CDR: Clinical Dementia Rating, COPE: Coping Orientations to Problems Experienced scale, DOCAD: duration of care after dementia diagnosis, MMSE: Mini Mental Status Examination