Appendix 1: Table to show papers included in qualitative synthesis of literature examining associations between loneliness, social isolation, cardiovascular disease and mortality

Paper	Author	Publication date
Loneliness and social isolation as risk factors for mortality: a meta-analytic review	Stephenson et al	2015
Social isolation, loneliness, and all-cause mortality in older men and women	Wardle et al	2013
A Prospective Study of Social Isolation, Loneliness, and Mortality in Finland	Anttila and Tanskanen	2016
Loneliness and mortality among older adults in China	Waite and Luo	2014
Loneliness, social isolation, their synergistic interaction, and mortality	Wagner and Beller	2018
Reported loneliness rather than social isolation is a risk factor for 10-year mortality in older men	Andrew	2012
Social isolation: a predictor of mortality comparable to traditional clinical risk factors	Adler et al	2013
Loneliness, health, and mortality in old age: a national longitudinal study	Cacioppo et al	2012
Does the mortality risk of social isolation depend upon socioeconomic factors?	Patterson	2016
Loneliness, health and mortality	Anderssson et al	2019
Loneliness, social networks, and mortality: 18 years of follow-up	Stessman et al	2011
Situational versus chronic loneliness as risk factors for all-cause mortality.	Shiovitz-Ezra and Avalon	2010
Social isolation and adult mortality: the role of chronic inflammation and sex differences	Li et al	2013
Among elderly men, feelings of loneliness are associated with increased 10-year mortality risk, independent of social isolation and medical and psychiatric conditions	Obisesan	2013
Older people who report loneliness have increased risk of mortality and functional decline	Theeke	2013
Loneliness and risk of mortality: a longitudinal investigation in Alameda County, California Patterson and Veenstra		2010
Consequences of loneliness on physical activity and mortality in older adults and the power of positive emotions	Stewart et al	2013
Effect of loneliness on mortality after retirement.	Niemi	1979
Social isolation, C-reactive protein, and coronary heart disease mortality among community-dwelling adults	Gramling et al	2013
Increased risk of mortality associated with social isolation in older men: only when feeling lonely? Results from the Amsterdam Study of the Elderly (AMSTEL)	Schoevers et al	2012
Suffering from loneliness indicates significant mortality risk of older people	Pitkälä KH. Et al	2011
Social isolation and loneliness as risk factors for myocardial infarction, stroke and mortality: UK Biobank cohort study of 479 054 men and women	Elovainio et al	2018
Emotional loneliness is associated with mortality among mentally intact nursing home residents with and without cancer: a five-year follow-up study.	Ranhoff et al	2013
Feelings of Loneliness and Living Alone as Predictors of Mortality in the Elderly: The PAQUID Study.	Dartigues et al	2016
Impact of loneliness and depression on mortality: results from the Longitudinal Ageing Study Amsterdam	Schoevers et al	2016
Relationship of depression, anxiety, and social isolation to chronic heart	Gottlieb et al	2006

failure outpatient mortality		
Extreme social isolation, use of community-based senior support services,	Nickerson et al	1997
and mortality among African American elderly women.	I NONCIOUII EL AI	1337
Loneliness and All-Cause, Cardiovascular, and Noncardiovascular	Giltay et al	2016
Mortality in Older Men: The Zutphen Elderly Study	Jiliay Gi ai	2010
The feeling of loneliness prior to coronary artery bypass grafting might be	Karlsson et al	1998
a predictor of short-and long-term postoperative mortality	Nansson et ai	1990
Combined effects of job strain and social isolation on cardiovascular	Theorell et al	1989
disease morbidity and mortality in a random sample of the Swedish male	THEOLEII Et al	1909
working population		
Social isolation and mortality in ischemic heart disease. A 10-year follow-	Edwards et al	1988
up study of 150 middle-aged men	Lawards ct ai	1300
Effects of psychosocial group rehabilitation on health, use of health care	Tilvis et al	2009
services, and mortality of older persons suffering from loneliness: a	ו וועוס כו מו	2009
randomized, controlled trial		
All-cause mortality and multimorbidity in older adults: The role of social	Haro et al	2017
support and loneliness	i iaiu ei ai	2017
Social isolation, health literacy, and mortality risk: Findings from the	Steptoe et al	2018
	Siepide et al	2010
English Longitudinal Study of Ageing Social isolation and all-cause mortality: a population-based cohort study in	Ehrenstein et al	2018
Denmark	Enrenstein et al	2018
	O#0	2018
Heartbeat: Social isolation is associated with increased mortality after	Otto	2016
acute myocardial infarction or stroke	Miret et al	2018
Association of loneliness with all-cause mortality: A meta-analysis.		
The Pathophysiology of Perceived Social Isolation: Effects on Health and	Bhatti and Hag	2017
Mortality.	Llanos et al	2017
Relationships between social isolation, neighbourhood poverty, and cancer mortality in a population-based study of US adults	Lianos et ai	2017
	Fujiwara at al	2019
Co-existence of social isolation and homebound status increase the risk of	Fujiwara et al	2019
all-cause mortality	Constur et el	2010
Social Isolation and Mortality in US Black and White Men and Women.	Gapstur et al	2019
Loneliness, social isolation and risk of cardiovascular disease in the	Hanratty et al	2018
English Longitudinal Study of Ageing	Knov and Lhinas	1000
Social isolation and cardiovascular disease: an atherosclerotic pathway?	Knox and Uvnäs-	1998
Landings and cardiovaccular disease and the rate of late life degrees and	Moberg K.	2010
Loneliness and cardiovascular disease and the role of late-life depression	Van der Mast et	2018
Langlinger and all agree mantality in a consequence to the all their	al Chan at al	2045
Loneliness and all-cause mortality in community-dwelling elderly	Chan et al	2015
Singaporeans	\//h:to -t -!	2015
Social isolation, cognitive decline, and cardiovascular disease risk	White et al	2015
Depression, isolation, social support, and cardiovascular disease in older	Arthur et al	2006
adults	luction of all	2012
Does social isolation predict hospitalization and mortality among HIV+ and	Justice et al	2013
uninfected older veterans?	Lastin at 1	0040
The personal and community impact of a Scottish Men's Shed	Leslie et al	2018
Loneliness in older adults is associated with diminished cortisol output	Comijs et al	2017
Sleep disturbance and longitudinal risk of inflammation: Moderating	Irwin et al	2015
influences of social integration and social isolation in the Coronary Artery		
Risk Development in Young Adults (CARDIA) study	D : 1:	0000
Longitudinal study of suicide after traumatic injury	Dischinger et al	2006
Social isolation and health, with an emphasis on underlying mechanisms	Cacioppo and Hawkley	2003
Type A behaviour, social support, and coronary risk: interaction and	Orth-Gomer and	1990
At a series and a series A series and a series and		

significance for mortality in cardiac patients	Unden	
Older Adults' Social Relationships and Health Care Utilization: A	Hanratty et al	2018
Systematic Review	Trainally of a	2010
Frequency of Leaving the House and Mortality from Age 70 to 95	Stessman et al	2018
Whites but Not Blacks Gain Life Expectancy from Social Contacts	Assari	2017
Does current smoking predict future frailty? The English longitudinal study	Walters et al	2018
of ageing	Validio	2010
An overview of systematic reviews on the public health consequences of	Caan et al	2017
social isolation and loneliness	Oddir ct ai	2017
The association between social support and physical activity in older	Van Uffelen et al	2017
adults: a systematic review	Vali Olicicii et al	2017
Prevalence of orthostatic hypertension in the very elderly and its	Stessman et al	2016
relationship to all-cause mortality	Olcosinan ci ai	2010
Gender-specific secondary prevention? Differential psychosocial risk	Stewart et al	2016
factors for major cardiovascular events	Stewart et ai	2010
Psychosocial interventions for patients with coronary heart disease and	Thompson et al	2016
depression: A systematic review and meta-analysis	Thompson et al	2010
Gender differences in the roles for social support in ensuring adequate fruit	Rugel and	2015
and vegetable consumption among older adult Canadians	Carpiano	2013
unobtrusive in-home detection of time spent out-of-home with applications	Austin et al	2014
to loneliness and physical activity	Austin et ai	2014
Role of social factors on cell death, cerebral plasticity and recovery after	Venna and	2015
stroke	McCullough	2015
Nutritional risk and body mass index predict hospitalization, nursing home	Locher et al	2014
	Locher et al	2014
admissions, and mortality in community-dwelling older adults: results from		
the UAB Study of Aging with 8.5 years of follow-up Using multi-level data to estimate the effect of social capital on hazardous	McKee et al	2014
alcohol consumption in the former Soviet Union	Michee et al	2014
Social networks, social support, and burden in relationships, and mortality	Caan et al	2013
after breast cancer diagnosis in the Life After Breast Cancer Epidemiology	Caan et ai	2013
(LACE) study		
Socioeconomic status, structural and functional measures of social	Singh-Manoux et	2012
support, and mortality: The British Whitehall II Cohort Study, 1985-2009	al	2012
Living alone and alcohol-related mortality: a population-based cohort study	Kivimaki et al	2011
	Kiviiiiaki et ai	2011
From Finland Registive life orientation prodicts good curvival prognesis in old age	Pitkala et al	2012
Positive life orientation predicts good survival prognosis in old age Long-term effect of social relationships on mortality in patients with		2004
	Murberg	2004
Is depression in old age fatal only when people feel lonely?	Mostandara et al	2005
	Westendorp et al	
Predictors of cognitive decline and mortality of aged people over a 10-year	Strandberg et al	2004
period Towards a suicide free society: identify suicide provention as public health	Singh and Cinak	2004
Towards a suicide free society: identify suicide prevention as public health	Singh and Singh	2004
Policy Esting hebits and appetite central in the alderly; the approvia of aging	Connelle et el	2002
Eating habits and appetite control in the elderly: the anorexia of aging.	Cannella et al	2003
Effects of depression and social integration on the relationship between	Rogers et al	2002
alcohol consumption and all-cause mortality	Managalistal	2004
Longitudinal study of psychiatric symptoms, disability, mortality, and	Massagli et al	2001
emigration among Bosnian refugees	Mork of cl	2004
Characteristics of socially isolated patients with coronary artery disease	Mark et al	2001
who are at elevated risk for mortality	Kaakaanna - (- l	2000
Self-reported life satisfaction and 20-year mortality in healthy Finnish	Koskenvuo et al	2000
adults Why do man get mare heart disease than weman? An international	Moidner	2000
Why do men get more heart disease than women? An international	Weidner	2000

perspective		
Depressive symptoms and lack of social integration in relation to prognosis	Oth-Gomer et al	2000
of CHD in middle-aged women. The Stockholm Female Coronary Risk	Otti-Gorner et al	2000
Study		
Pet ownership protects against the risks and consequences of coronary	Patronek and	1993
heart disease	Glickman	1995
Social Networks and Health Outcomes: Importance for Racial and	Child and Albert	2018
Socioeconomic Disparities in Cardiovascular Outcomes	Offilia aria / libert	2010
A conceptual model of social networks and mechanisms of cancer	Molina et al	2018
mortality, and potential strategies to improve survival	Woma et al	2010
The role of social relationships in the link between olfactory dysfunction	Leschak	2018
and mortality	Losonak	2010
Loneliness, Social Isolation, and Cardiovascular Health	Xia and Li	2018
Loneliness and Health in Older Adults: A Mini-Review and Synthesis	Ong et al	2016
Breast cancer and social environment: getting by with a little help from our	De Vries et al	2016
friends.	De viies et ai	2010
One is the deadliest number: the detrimental effects of social isolation on	McCullough et al	2015
cerebrovascular diseases and cognition.	Wicoullough Ct ai	2013
Personal Networks and Mortality Risk in Older Adults: A Twenty-Year	Steverink et al	2015
Longitudinal Study	Otovornik ot ar	2013
The neuroendocrinology of social isolation	Cacioppo	2015
Toward a neurology of loneliness	Cacioppo	2014
Social network ties and inflammation in U.S. Adults with cancer	Frenk et al	2014
Social relationships and health: The toxic effects of perceived social	Cacioppo and	2014
isolation	Cacioppo	2014
An exploration of the value and mechanisms of befriending for older adults	Lester et al	2012
in England	Lostor of ar	2012
Suicide and suicidal behavior	Nock et al	2008
Vitamin D and the social aspects of disease	Grimes et al	2011
Social Isolation	Cacioppo	2011
Loneliness matters: A theoretical and empirical review of consequences	Hawkley and	2010
and mechanisms	Cacioppo	2010
Neural pathways link social support to attenuated neuroendocrine stress	Lieberman et al	2007
responses	Lioboiman of ai	2007
Peritoneal dialysis-related peritonitis: Can we predict it?	Chow and Li	2007
Social integration is associated with fibringen concentration in elderly	Seeman et al	2005
men	o o o marrot ar	2000
The anatomy of loneliness	Berntson et al	2003
Loneliness and pathways to disease	Hawkley and	2003
20110m1000 and pairmays to allocate	Cacioppo	2000
Psychosocial influences on the development and course of coronary heart	Smith and Ruiz	2002
disease: Current status and implications for research and practice		
Social relationships and mortality in patients with congestive heart failure	Murberg and Bru	2001
Segregation and mortality: The deadly effects of racism?	Collins et al	1999
The role of social relations in health promotion	Berkman	1995
Social relationships and health	House et al	1988
Contribution of risk factors to excess mortality in isolated and lonely	Kivimaki et al	2017
individuals: an analysis of data from the UK Biobank cohort study.		
Exploring interactive surface designs for eliciting social activity from elderly	Binda et al	2016
adults		
Myocardial infarction and coronary death among women: psychosocial	Castelli et al	1992
predictors from a 20-year follow-up of women in the Framingham Study.		

Disability, psychosocial factors and mortality among the elderly in a rural	Albarede et al	1990
French population		
Social ties and survival among the elderly in Tampere,	Jylha and Aro	1989
Finland. International Journal of Epidemiology		
Relationship between respiratory mortality and self-perceptions of aging	Levy and Myers	2005
Psychological predictors of mortality in old age	Maier and Smith	1999
Social networks and longevity. A 14 year follow-up study among elderly in	Waldstrom et al	1991
Denmark.		
Effects of social support and personal coping resources on mortality in	Van Eijk et al	1997
older age: the Longitudinal Aging Study Amsterdam		
Positive life orientation as a predictor of 10-year outcome in an aged	Tilvis et al	2004
population. Journal of clinical epidemiology		
Loneliness in older persons: a predictor of functional decline and death.	Covinsky et al	2012
, , ,		2014
Social isolation, social activity and loneliness as survival indicators in old	Pitkala et al	2012
age; a nationwide survey with a 7-year follow-up		
Mortality and depressive symptoms in inhabitants of residential homes.	Cuijpers	2001
Psychosocial factors and breast cancer: a 6-year Italian follow-up	Grassi et al	1997
study. Psychotherapy and psychosomatics		
Health and social networks as predictors of survival in old age.	Ljungguist and	1996
	Sundstrom	
A longitudinal analysis of factors related to survival in old age	Wenger	1992
Social networks, social support, and mortality among older people in	Liu et al	1994
Japan		

Appendix 2: Thematic grouping of papers included in synthesis of literature examining associations between loneliness, social isolation, cardiovascular disease and mortality

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Theme	Supporting papers
Original research and	Loneliness and social isolation as risk factors for mortality: a meta-analytic review
reviews exploring the	Social isolation, loneliness, and all-cause mortality in older men and women
link between	A Prospective Study of Social Isolation, Loneliness, and Mortality in Finland
loneliness/social	Loneliness, social isolation, their synergistic interaction, and mortality
isolation and mortality	Reported loneliness rather than social isolation is a risk factor for 10-year mortality in older men
	Social isolation: a predictor of mortality comparable to traditional clinical risk factors
	Loneliness, health, and mortality in old age: a national longitudinal study
	Does the mortality risk of social isolation depend upon socioeconomic factors?
	Loneliness, health and mortality
	Loneliness, social networks, and mortality: 18 years of follow-up
	Situational versus chronic loneliness as risk factors for all-cause mortality.
	Among elderly men, feelings of loneliness are associated with increased 10-year mortality risk,
	independent of social isolation and medical and psychiatric conditions
	Older people who report loneliness have increased risk of mortality and functional decline
	Effect of loneliness on mortality after retirement.
	Increased risk of mortality associated with social isolation in older men: only when feeling lonely?
	Results from the Amsterdam Study of the Elderly (AMSTEL)
	Suffering from loneliness indicates significant mortality risk of older people
	Social isolation and loneliness as risk factors for myocardial infarction, stroke and mortality: UK
	Biobank cohort study of 479 054 men and women
	Emotional loneliness is associated with mortality among mentally intact nursing home residents
	with and without cancer: a five-year follow-up study.
	Feelings of Loneliness and Living Alone as Predictors of Mortality in the Elderly: The PAQUID Study.
	Impact of loneliness and depression on mortality: results from the Longitudinal Ageing Study
	Amsterdam
	Relationship of depression, anxiety, and social isolation to chronic heart failure outpatient
	mortality
	Extreme social isolation, use of community-based senior support services, and mortality among
	African American elderly women.
	Loneliness and All-Cause, Cardiovascular, and Noncardiovascular Mortality in Older Men: The
	Zutphen Elderly Study
	The feeling of loneliness prior to coronary artery bypass grafting might be a predictor of short-
	and long-term postoperative mortality
	Combined effects of job strain and social isolation on cardiovascular disease morbidity and
	mortality in a random sample of the Swedish male working population
	Social isolation and mortality in ischemic heart disease. A 10-year follow-up study of 150 middle-
	aged men
	All-cause mortality and multimorbidity in older adults: The role of social support and loneliness
	Social isolation, health literacy, and mortality risk: Findings from the English Longitudinal Study
	of Ageing
	Social isolation and all-cause mortality: a population-based cohort study in Denmark Heartbeat: Social isolation is associated with increased mortality after acute myocardial infarction
	or stroke
	Association of loneliness with all-cause mortality: A meta-analysis.
	The Pathophysiology of Perceived Social Isolation: Effects on Health and Mortality.
	Co-existence of social isolation and homebound status increase the risk of all-cause mortality
	Social Isolation and Mortality in US Black and White Men and Women.
	Loneliness, social isolation and risk of cardiovascular disease in the English Longitudinal Study
	of Ageing
	Loneliness and all-cause mortality in community-dwelling elderly Singaporeans
	Social isolation, cognitive decline, and cardiovascular disease risk
	Depression, isolation, social support, and cardiovascular disease in older adults
	Does social isolation predict hospitalization and mortality among HIV+ and uninfected older
	veterans?
	Type A behaviour, social support, and coronary risk: interaction and significance for mortality in

cardiac patients

Older Adults' Social Relationships and Health Care Utilization: A Systematic Review

Whites but Not Blacks Gain Life Expectancy from Social Contacts

An overview of systematic reviews on the public health consequences of social isolation and loneliness

Gender-specific secondary prevention? Differential psychosocial risk factors for major cardiovascular events

Role of social factors on cell death, cerebral plasticity and recovery after stroke

Social networks, social support, and burden in relationships, and mortality after breast cancer diagnosis in the Life After Breast Cancer Epidemiology (LACE) study

Socioeconomic status, structural and functional measures of social support, and mortality: The British Whitehall II Cohort Study, 1985-2009

Positive life orientation predicts good survival prognosis in old age

Long-term effect of social relationships on mortality in patients with congestive heart failure

Predictors of cognitive decline and mortality of aged people over a 10-year period

Towards a suicide free society: identify suicide prevention as public health policy

Longitudinal study of psychiatric symptoms, disability, mortality, and emigration among Bosnian refugees

Characteristics of socially isolated patients with coronary artery disease who are at elevated risk for mortality

Self-reported life satisfaction and 20-year mortality in healthy Finnish adults

Why do men get more heart disease than women? An international perspective

Depressive symptoms and lack of social integration in relation to prognosis of CHD in middleaged women. The Stockholm Female Coronary Risk Study

<u>Social Networks and Health Outcomes: Importance for Racial and Socioeconomic Disparities in Cardiovascular Outcomes</u>

A conceptual model of social networks and mechanisms of cancer mortality, and potential strategies to improve survival

The role of social relationships in the link between olfactory dysfunction and mortality Loneliness, Social Isolation, and Cardiovascular Health

Loneliness and Health in Older Adults: A Mini-Review and Synthesis

Breast cancer and social environment: getting by with a little help from our friends.

Personal Networks and Mortality Risk in Older Adults: A Twenty-Year Longitudinal Study

Social relationships and health: The toxic effects of perceived social isolation

Vitamin D and the social aspects of disease

Social Isolation

Loneliness and pathways to disease

Social relationships and mortality in patients with congestive heart failure

Segregation and mortality: The deadly effects of racism?

Social relationships and health

Myocardial infarction and coronary death among women: psychosocial predictors from a 20-year follow-up of women in the Framingham Study.

Disability, psychosocial factors and mortality among the elderly in a rural French population Social ties and survival among the elderly in Tampere, Finland. International Journal of Epidemiology

Relationship between respiratory mortality and self-perceptions of aging

Psychological predictors of mortality in old age

Social networks and longevity. A 14 year follow-up study among elderly in Denmark.

Effects of social support and personal coping resources on mortality in older age: the Longitudinal Aging Study Amsterdam

Positive life orientation as a predictor of 10-year outcome in an aged population.

Loneliness in older persons: a predictor of functional decline and death.

Loneliness, health, and longevity

Social isolation, social activity and loneliness as survival indicators in old age; a nationwide survey with a 7-year follow-up

Mortality and depressive symptoms in inhabitants of residential homes.

Psychosocial factors and breast cancer: a 6-year Italian follow-up study. Psychotherapy and psychosomatics

Health and social networks as predictors of survival in old age.

A longitudinal analysis of factors related to survival in old age

	Casial naturaliza again armount and mountality amount adda nagala in Japan
	Social networks, social support, and mortality among older people in Japan
Research exploring biological links between loneliness/social isolation and mortality	Social isolation and adult mortality: the role of chronic inflammation and sex differences Social isolation, C-reactive protein, and coronary heart disease mortality among community-dwelling adults Social isolation and cardiovascular disease: an atherosclerotic pathway? Loneliness in older adults is associated with diminished cortisol output Sleep disturbance and longitudinal risk of inflammation: Moderating influences of social integration and social isolation in the Coronary Artery Risk Development in Young Adults (CARDIA) study Social isolation and health, with an emphasis on underlying mechanisms Frequency of Leaving the House and Mortality from Age 70 to 95 Prevalence of orthostatic hypertension in the very elderly and its relationship to all-cause mortality One is the deadliest number: the detrimental effects of social isolation on cerebrovascular diseases and cognition. The neuroendocrinology of social isolation Toward a neurology of loneliness Social network ties and inflammation in U.S. Adults with cancer Loneliness matters: A theoretical and empirical review of consequences and mechanisms
	Neural pathways link social support to attenuated neuroendocrine stress responses
	Peritoneal dialysis-related peritonitis: Can we predict it?
Research exploring behavioural links	Social integration is associated with fibrinogen concentration in elderly men Loneliness and mortality among older adults in China Loneliness and risk of mortality: a longitudinal investigation in Alameda County, California
between	Consequences of loneliness on physical activity and mortality in older adults and the power of
loneliness/social	positive emotions
isolation and mortality	The Pathophysiology of Perceived Social Isolation: Effects on Health and Mortality.
Research exploring	Sleep disturbance and longitudinal risk of inflammation: Moderating influences of social integration and social isolation in the Coronary Artery Risk Development in Young Adults (CARDIA) study Social isolation and health, with an emphasis on underlying mechanisms Does current smoking predict future frailty? The English longitudinal study of ageing The association between social support and physical activity in older adults: a systematic review Gender differences in the roles for social support in ensuring adequate fruit and vegetable consumption among older adult Canadians Unobtrusive in-home detection of time spent out-of-home with applications to loneliness and physical activity Nutritional risk and body mass index predict hospitalization, nursing home admissions, and mortality in community-dwelling older adults: results from the UAB Study of Aging with 8.5 years of follow-up Using multi-level data to estimate the effect of social capital on hazardous alcohol consumption in the former Soviet Union Living alone and alcohol-related mortality: a population-based cohort study from Finland Eating habits and appetite control in the elderly: the anorexia of aging. Effects of depression and social integration on the relationship between alcohol consumption and all-cause mortality The anatomy of loneliness Contribution of risk factors to excess mortality in isolated and lonely individuals: an analysis of data from the UK Biobank cohort study. Loneliness and risk of mortality: a lonelitudinal investigation in Alameda County. California
Research exploring	Loneliness and risk of mortality: a longitudinal investigation in Alameda County, California The Pathophysiology of Parceived Social Isolation: Effects on Health and Mortality
psychological links between	The Pathophysiology of Perceived Social Isolation: Effects on Health and Mortality. Loneliness and cardiovascular disease and the role of late-life depression
loneliness/social	Longitudinal study of suicide after traumatic injury
isolation and mortality	Is depression in old age fatal only when people feel lonely?
	Suicide and suicidal behavior Psychosogial influences on the development and course of coronary heart disease: Current
	Psychosocial influences on the development and course of coronary heart disease: Current status and implications for research and practice
Papers exploring	Effects of psychosocial group rehabilitation on health, use of health care services, and mortality
potential interventions	of older persons suffering from loneliness: a randomized, controlled trial

to decrease loneliness and social isolation	The personal and community impact of a Scottish Men's Shed Psychosocial interventions for patients with coronary heart disease and depression: A systematic review and meta-analysis
	Pet ownership protects against the risks and consequences of coronary heart disease An exploration of the value and mechanisms of befriending for older adults in England
	The role of social relations in health promotion Exploring interactive surface designs for eliciting social activity from elderly adults