Duke University School of Medicine Doctor of Physical Therapy

Background

- The prevalence of persistent pain among older adults ranges from 50-83% in the United States.
- Additionally, social isolation and loneliness occur more frequently among older adults.
- Emerging research has stressed the importance of an individual's social environment on their overall health and quality of life.

Purpose

This systematic review examined current literature for relationships between persistent pain and either social isolation, loneliness, or decreased social support among communitydwelling older adults.

Methods

- Literature Search: Three databases—PubMed, CINAHL, PsycINFO—were queried for available literature between 2007 and 2017.
- Study Inclusion: Observational studies which assessed the relationship between social factors and persistence of pain in community-dwelling older adults over the age of 55.

	Study Population	Study Attrition	Prognostic Factor Measurement	Outcome Measurement	Confounding Measurement & Account
Conte (2015)	М	Н	М	Н	L
Hirsch (2010)	М	н	Μ	Н	L
Lee (2016)	L	L	L	L	L
Matos (2017)	М	L	L	L	L
Leung (2016)	L	L	L	L	L
Emerson (2017)	L	Н	М	Н	L
Mouodi (2016)	М	Н	Μ	Н	Μ
Shega (2012)	L	L	М	Н	L

Risk of Bias

Social Isolation, Loneliness, and Social Support Among Community-**Dwelling Older Adults with Persistent Pain: A Systematic Review** Katlin Harker, SPT, CSCS; Haley Brooks, SPT; Alex Wood, SPT; Lindsay Ballengee, PT, DPT; Corey Simon, DPT, PhD



Results

Study	Design	Social Factor	Pain Conditior
Conte (2015)	cross- sectional	support	unspecified chronic pain
Hirsh (2010)	cross- sectional	support	post-polio syndrome
Lee (2016)	longitudinal	support	chronic arthritis pain
Matos (2017)	longitudinal	support	chronic musculo- skeletal pair
Leung (2016)	longitudinal	network	unspecified chronic pain
Emerson (2017)	longitudinal	loneliness	unspecified chronic pain
Mouodi (2016)	cross- sectional	living alone	unspecified chronic pain
Shega (2012)	cross- sectional	vulnerability	"bodily pain"



Conclusions

- tring.

Association with **Persistent Pain**

Y (-): high social support, reduced chronic pain (OR=0.7; CI=0.5, 1.0)

Y (+): high social support, higher pain intensity (b=0.44; CI=0.20, 1.08)

Y (+): high social support, higher pain (beta= 0.40)

Y (+): high perceived promotion of dependence, increased pain related disability

(R²= 0.378; CI= 0.230-0.782; R²=0.508; CI=0.189-0.906)

Y (+): larger social network, less pain

(OR=1.50; CI=1.06, 2.12)

Y (+): increased loneliness, onset/persistence of pain (OR=1.58; CI=1.08, 2.32)

Y (-): living alone, greater likelihood of chronic pain (OR= 4.451; CI= 1.418-13.970)

Y (+): greater social vulnerability, greater likelihood of moderate to severe pain (OR=0.44; CI=0.21-0.66)

- criteria
- adults with persistent pain.
- Social Factors Examined:
- Research Limitations:
 - factors and pain duration
 - factors and pain outcomes
 - adults with negative social factors

Clinical Relevance

As the aging population increases in conjunction with the persistent pain population, clinical care will need to consider all factors associated with persistent pain, including social factors.



Acknowledgements

We would like to acknowledge Research & Education Librarians, Jamie Conklin, MLIS and Leila Ledbetter, MLIS, for their assistance with the database search.

• Of 727 articles appraised, 8 studies met eligibility

• All 8 studies found an association between social factors and pain intensity among older

social isolation, loneliness, and social support

 no studies on the association between social the direction of the association between social lack of inception cohort studies to examine the development of persistent pain among older