Breaking News from Religion, Spirituality & Health Research

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Overview

• Brain structure and depression (Columbia University)

• Suicide rates

• Religious vs. Secular CBT in Depression (Duke)

• Religious involvement and mortality

• Biological mechanisms underlying RSH relationship

• Future research at Duke, Harvard, U of Michigan

• Applications – Duke Adventist Health System Study

• Further resources
Religious involvement is related to:

Less depression, faster recovery from depression
272 of 444 studies (61%) (prior to 2010)
[67% of best]

More depression (6%)

Neuroanatomical Correlates of Religiosity and Spirituality
A Study in Adults at High and Low Familial Risk for Depression

Lisa Miller, PhD1,2; Ravi Bansal, PhD2,3; Priya Wickramaratne, PhD2,4,5; Xuejun Hao, PhD2,3; Craig E. Tenke, PhD6; Myrna M. Weissman, PhD2,4,5; Bradley S. Peterson, MD2,3

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Religion/Spirituality and Cortical Thickness: A functional MRI Study

Areas in red indicate reduced cortical thickness

Religion NOT very important
Religion very important

Citation: Miller L et al (2014). Neuroanatomical correlates of religiosity and spirituality in adults at high and low familial risk for depression. JAMA Psychiatry 71(2):128-35
Is Emotional Disorder Different in the Religious?

Is depression the same in those with deep religious faith?

Even if depressed, research suggests that deeply religious people experience more positive emotions:

- greater purpose and meaning
- greater optimism and hope
- more gratitude and thankfulness
- more generosity

Religious involvement is related to:

Less suicide and more negative attitudes toward suicide (106 of 141 or 75% of studies)
Suicide – latest research

British Journal of Psychiatry 2014; 204:254–255
20,014 U.S. adults (NHANES-III Study)
Prospective study from 1988 to 2006
> 2/month religious attendance: HR=0.06 (95% CI=0.01-0.54)

British Journal of Psychiatry 2015; 206(6):466-740
1,106,104 adults in Northern Ireland
Prot lower risk than Cath (HR=0.71, 95% CI 0.52-0.97)
Conserv Prot (ages 35-54) lower risk than Cath (HR=0.50, 95% CI 0.29-0.85)

JAMA Psychiatry (Archives of General Psychiatry) forthcoming
89,708 white U.S. women (Nurse’s Health Study)
Harvard school of public health
Prospective study 1996 to 2014
Death rates from suicide (Catholics vs. Protestants)
Religious attendance and suicide incidence

Religious involvement gives life meaning and purpose
Religious Psychotherapy Study

132 persons with major depressive disorder and chronic medical illness (the majority over age 50) randomized to Religious CBT vs. Conventional Secular CBT

65 from Durham County, North Carolina (Duke University)
67 from Los Angeles County (Glendale Adventist)

Ten 50-minute psychotherapy sessions by telephone over 12 weeks
5 religious-integrated psychotherapies:

Christian
Jewish
Buddhist
Muslim
Hindu

Manuals and workbooks now up on our Duke website:
http://www.spiritualityandhealth.duke.edu/index.php/religious-cbt-study/therapy-manuals

A training video is now available on website:
http://www.spiritualityandhealth.duke.edu/index.php/religious-cbt-study/training-video
Group by time interaction B=0.50, SE=0.55, t=0.91, p=0.36, Cohen’s d=0.10, favors RCBT

Citation: Koenig et al. Journal of Nervous and Mental Disease 2015; 203(4):243-251
Treatment response in those with HTR1A genotype C/C (serotonin receptor in the brain) (B for group by time interaction=3.33, SE=1.17, df=62, t=2.86, p<0.01, n=28, Cohen’s d=0.73, in those with low religiosity)

Citation: Koenig et al. *Austin Journal of Psychiatry & Behavioral Sciences* 2015; 2(1): 1036
Religious CBT Study – Epinephrine Levels

Mixed model intent-to-treat analysis (log transformed): time $B=-0.24$, $p<0.0001$; main effect of group $B=-0.19$, $p=0.156$; group x time interaction $B=0.13$, $p=0.063$ (favors RCBT)

Citation: Berk, Dellinger, Koenig et al (2015). Open Journal of Psychiatry 5(3): 238-259
Difference significant between RCBT and SCBT at 12 week f/u ($t=-2.10$, $p=0.038$) in per-protocol analysis

Citation: Koenig et al. *Depression & Anxiety* 2015, in press
Mortality (all-cause)
(systematic review)

Religious involvement related to:

- Greater longevity in 82 of 120 studies (68%)
- Shorter longevity in 7 of 120 studies (6%)
- Higher quality studies, 47 of 63 greater longevity (75%)
Research now being done to understand the underlying biological mechanism that may help explain WHY religious involvement is related to better physical health in later life and greater longevity.
Religious Involvement and Telomere Length in Women Caregivers

Citation: Koenig et al. (2016). Journal of Nervous and Mental Disease 204(1):36-42
Citation: Koenig et al. (2016). *Journal of Nervous and Mental Disease* 204(1):36-42
Replication Study: Religion and Telomere Length

Nashville Stress and Health Study
1,252 random sample of adults ages 22-69 in Davidson County, TN

Religiosity (attendance, prayer, self-rated religiosity)
Telomere length (monochrome multiplex quantitative PCR method)

Analyses controlled for depressive symptoms, smoking, drinking, allostatic load, SES, stressful life events, age, gender, employment status, financial strain, marital status, family support, friend support

Model 5 (all controls, including religious support and religious coping)
B=0.037 (SE 0.011), p<0.05

Hill TD, Ellison CG, Burdette AM, Taylor J, Friedman FL (forthcoming). Dimensions of religious involvement and leukocyte telomere length. Social Science and Medicine, in press
Developing New Spiritually-Integrated Treatments

Spiritually-Oriented Cognitive Processing Therapy
for
“Moral Injury” in Veterans with PTSD
Events

Killing
Violence to others
Witnessing violence
Not protecting
Morally compromising position
Rape, torture (victim or perpetrator)

Transgress moral code

Religious Moral Injury (religious)

Non-Religious Moral Injury (psychological)

Religious Struggles
Loss of Faith

Guilt
Shame
Self-Condensation
Feeling Betrayed
Loss of Trust
Unable to Forgive
Loss of Meaning

Clinical Outcomes
PTSD Symptoms
Depression
Anxiety
Substance Abuse
Sleep Problems
Relationship Prob
Headaches/Pain
Physical Disability
Unemployment

Spiritually-Oriented Cognitive Processing Therapy
(using Veteran’s spiritual resources)
New Book: You Are My Beloved, Really?

1. You are my beloved
2. When nothing makes sense
3. Does God exist?
4. What is God like?
5. Why does God allow evil?
6. The cause of evil
7. Does God love Christians?
8. Does God love Jews?
9. Does God love Muslims?
10. Does God love Buddhists?
11. Does God love Hindus?
12. Does God love Veterans?
13. How does God love us?
14. I don’t feel God’s love
15. Change your mind
16. Accept, be grateful, & love back
17. The relationship forms
18. The relationship deepens
19. Loving others
20. God’s favor
21. The way forward for Christians
22. The way forward for non-Christians
23. A personal note
24. Final thoughts

Notes

(available on Amazon.com for UK, France, Italy, Netherlands, Germany)
Future Research at Major U.S. Universities

University of Michigan at Ann Arbor

Neal Krause and the Religious Landmark Study
(cross-sectional study of 3,500 national U.S. sample)

Harvard School of Medicine, School of Public Health, and Divinity School

Tracy Balboni, M.D. and Michael Balboni, Ph.D.
Radiation Oncology, Dana Farber Cancer Center

Tyler VanderWeele, Ph.D. (biostatistics)

Alexandra Shields, Ph.D.
Harvard/MGH Center on Genomics, Vulnerable Populations, and Health Disparities
Applications in Clinical Practice

Duke-Adventist Health System Study

Adventist Health System (AHS) is the largest Protestant healthcare system in the U.S. (and Catholic Health Care has also demonstrated interest in partnering with us in a similar venture)

What is unique about a faith-based health system?

Integrating spirituality into patient care in outpatient physician offices
Formation of “spiritual care teams” to address spiritual needs

Physician does “screening” spiritual history (3 questions)
If spiritual needs come up, refers to “spiritual care coordinator”
Spiritual care coordinator addresses issue or refers to chaplain

Assessment at baseline, 1-month, and 12-month follow-up
5 CME-qualified 45-60 min Training Videos on How to Integrate Spirituality into Patient Care

Go to the following Duke University website:

http://www.spiritualityandhealth.duke.edu/index.php/cme-videos
Conclusions

1. Research is rapidly advancing on RSH, some of it coming out of mainstream well-known research groups (Harvard, Columbia, Duke, etc.)

2. Observational studies involving prospectively followed large random samples are discovering more and more links between religious involvement and health, particularly in the West, Middle-East, Africa, & South America (but also in many other regions as well).

3. Treatments are now being developed and tested in clinical trials, and faith-based health systems are now integrating spirituality in ways that are sensible and highly patient-centered (and respectful of those who are not R/S)

4. The research is exciting and growing in many parts of the world, especially those parts where religious faith is important to a significant proportion of the population (but also in secular countries as well, such as China)
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Welcome

The Center was founded in 1998, and is focused on conducting research, training others to conduct research, and promoting scholarly field-building activities related to religion, spirituality, and health. The Center serves as a clearinghouse for information on this topic, and seeks to support and encourage dialogue between researchers, clinicians, theologians, clergy, and others interested in the intersection.

Mission

The five main goals of the Center are to:

- Conduct research on religion, spirituality and health
- Train those wishing to do research on this topic
- Interpret the research for clinical and societal applications
- Explore the meaning of the research for pastors and theologians
- Discuss how theological input can advance the research

Upcoming Events

Current, Past and Future Seminars
2015 Spirituality and Health Research Workshop

Recent News

Health and Well-Being in Islamic Societies
MONTHLY eNEWSLETTER
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View Videos

Annual Meetings
2008
2009
2010
Summer Research Workshop
August 15-19, 2016
Durham, North Carolina

5-day intensive research workshop focus on what we know about the relationship between spirituality and health, applications, how to conduct research and develop an academic career in this area. Leading spirituality-health researchers at Duke, Yale University, Johns Hopkins, and elsewhere to give presentations:

- Strengths and weaknesses of previous research
- Theological considerations and concerns
- Highest priority studies for future research
- Strengths and weaknesses of measures of religion/spirituality
- Designing different types of research projects
- Primer on statistical analysis of religious/spiritual variables
- Carrying out and managing a research project
- Writing a grant to NIH or private foundations
- Where to obtain funding for research in this area
- Writing a research paper for publication; getting it published
- Presenting research to professional and public audiences; working with the media

Partial tuition Scholarships are available

If interested, contact Dr. Koenig: Harold.Koenig@duke.edu