Spirituality/Religion in Healthcare: Research and Clinical Applications

Harold G. Koenig, MD

Professor of Psychiatry and Behavioral Sciences Associate Professor of Medicine Duke University Medical Center, Durham, North Carolina USA Adjunct Professor, King Abdulaziz University, Jeddah, Saudi Arabia Adjunct Professor, Ningxia Medical University, Yinchuan, People's Republic of China Visiting Professor, Shiraz University of Medical Sciences, Shiraz, Iran





Overview

- 1. Role of religion in coping
- 2. Research on religion and mental health
- 3. Research on religion and physical health
- 4. Theoretical model explaining effects
- 5. Clinical applications
- 6. Conclusions
- 7. Further resources

Religion as a Coping Behavior

- 1. Many persons turn to religion for comfort
- 2. Religion used to cope with common problems in life, especially highly stressful situations
- 3. Religion often used to cope with challenges such as:
 - uncertainty
 - fear
 - loss of control
 - discouragement and loss of hope

"When you have no where to go, go to your knees"

Religious Coping – does it help?

Research on Religion, Spirituality and Mental Health

Review of the Research 1887 to 2018

Handbook of Religion and Health (Oxford University Press, 2001, 2012, 2022, forthcoming)

Religion and Mental Health: Research & Clinical Applications (Academic Press, 2018)

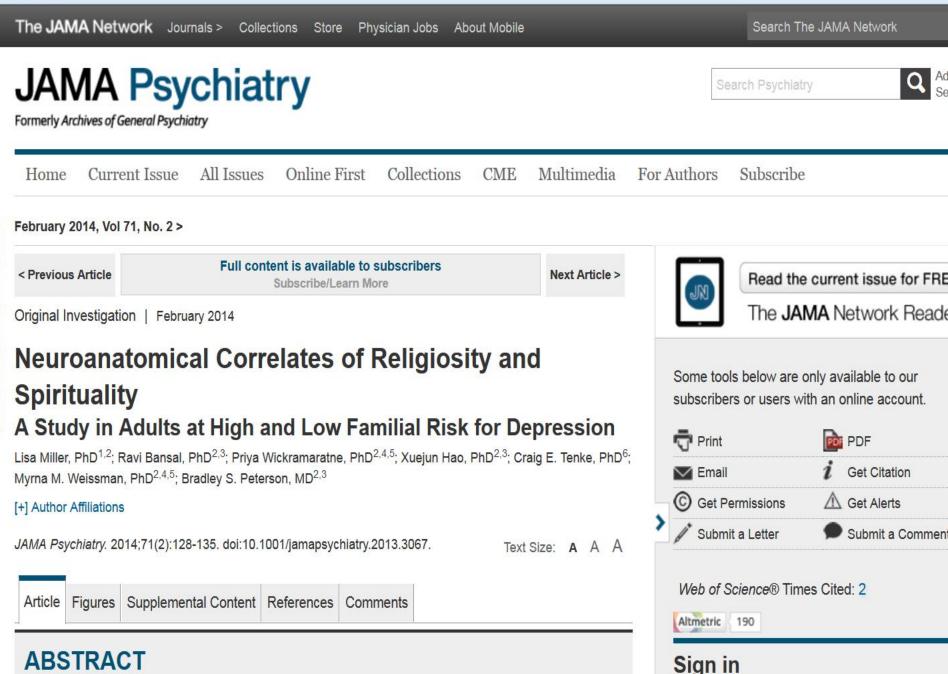
Depression

The most common emotional disorder in the world, especially among medical patients.

Religious involvement is related to:

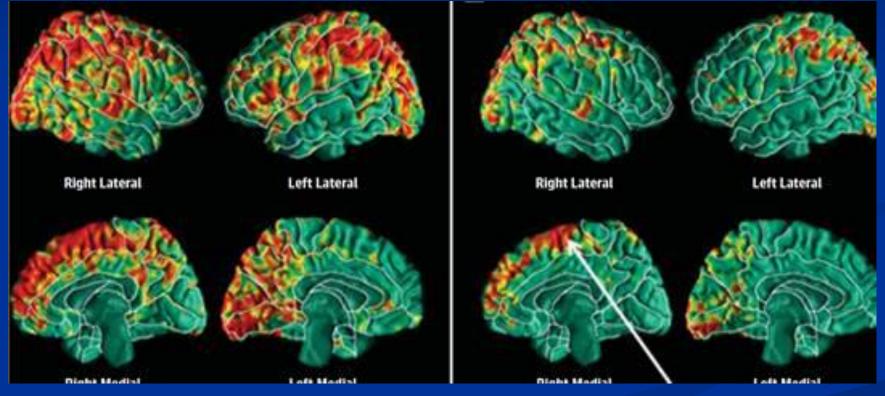
Less depression, faster recovery from depression 272 of 444 studies (61%) [67% of best]

More depression (6%)



Religion/Spirituality and Cortical Thickness: A functional *MRI Study*

Areas in red indicate reduced cortical thickness



Religion NOT very important

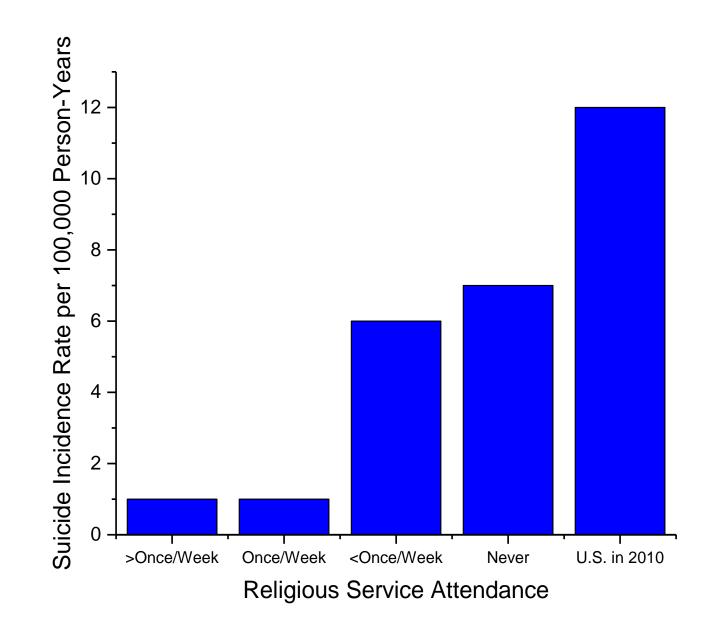
Religion very important

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



Religious involvement is related to:

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



Nurses Health Study: 89,708 women followed from 1996 to 2010 (**HR=0.16**, 95% CI 0.06-0.46) VanderWeele et al (2016). JAMA Psychiatry (Archives of General Psychiatry) 73(8):845-851

Alcohol Use/Abuse/Dependence (systematic review)

Religious involvement is related to:

Less alcohol use / abuse / dependence 240 of 278 studies (86%)

[90% of best designed studies]



Religious involvement is related to:

Less drug use / abuse / dependence 155 of 185 studies (84%)

[86% of best designed studies]

[95% of RCT or experimental studies]

Well-being and Happiness

(systematic review)

Religious involvement is related to:

Greater well-being and happiness 256 of 326 studies (79%)

[82% of best]

Lower well-being or happiness (3 of 326 studies, <1%)

Meaning, Purpose, Hope, Optimism (systematic review)

Religious involvement is related to:

Greater meaning and purpose 42 of 45 studies (93%) [100% of best]

Greater hope 29 of 40 studies (73%)

Great optimism 26 of 32 studies (81%)

All of the above have consequences for patients' motivation for self-care and efforts toward recovery

Social Support (systematic review)

Religious involvement is related to:

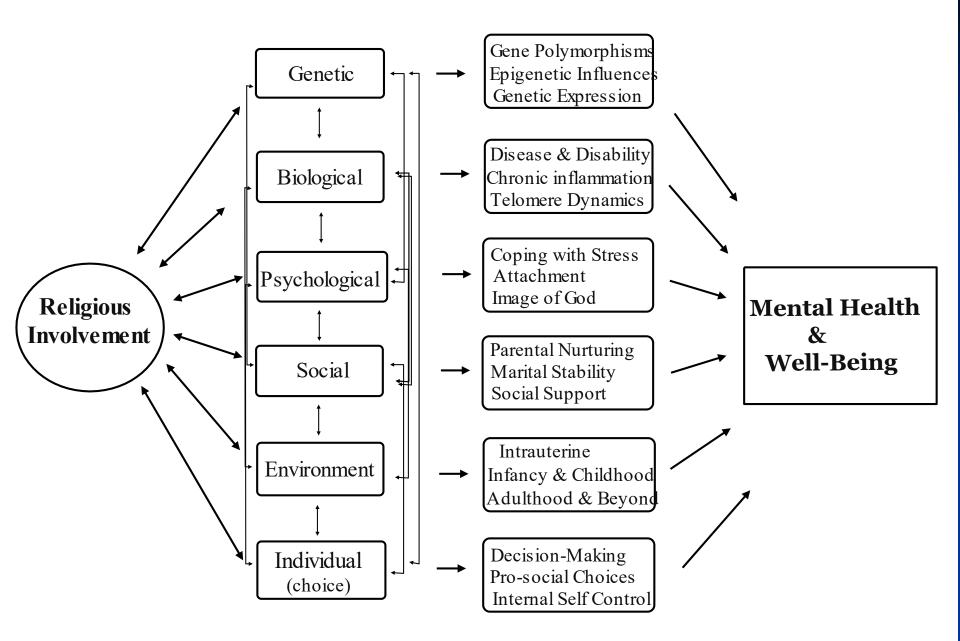
 Great social support (61 of 74 studies) (82%)

Delinquency and Crime (systematic review)

At least 104 quantitative peer-reviewed studies have now been published that have examined the spirituality-delinquency/crime relationship. Of those, 82 (79%) reported inverse relationships between spiritual involvement and delinquency or crime.

Of the 60 best studies, 82% found significant inverse relationships.

Of the studies published during the past 10 years that have examined relationships between spiritual involvement and school performance (GPA or persistence to graduation), all 11 (100%) indicated that spiritual students performed significantly better.



Research on Religion, Spirituality and Physical Health

Research on Religion & Health Behaviors

Exercise, Weight, Risky Behaviors (systematic review)

Religion is related to:

- More exercise/physical activity (25 of 37 studies) (68%)
- Less extra-marital sex, safer sexual practices (fewer partners) (82 of 95 studies) (86%)
- Lower weight
 (7 of 36 studies) (19%)
- Heavier weight (14 of 36 studies) (39%)



Cigarette smoking (systematic review)

Religious involvement is related to:

Less cigarette smoking, especially among **the young** (122 of 135 studies) (90%)

Religion and Physical Health

Immune and Endocrine Functions (systematic review)

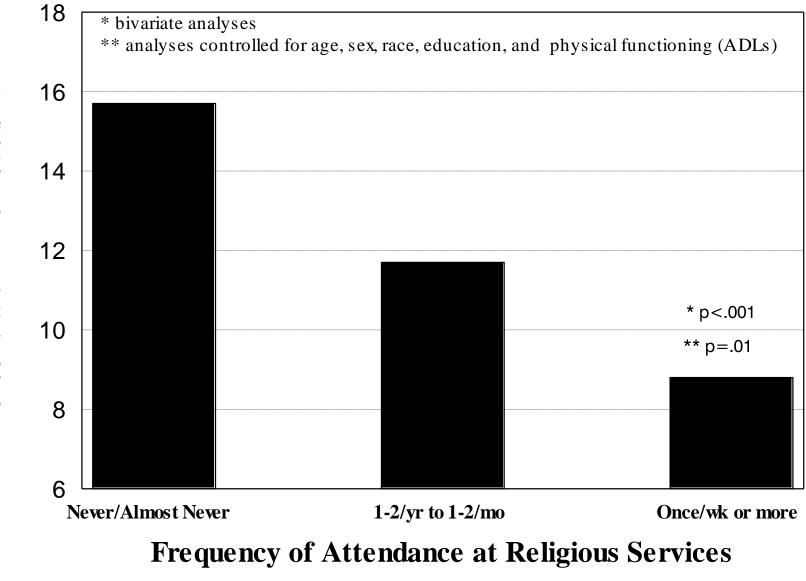
Religious involvement is related to:

Better immune functions (14 of 25 studies) (56%)

Better endocrine functions (23 of 31 studies) (74%) (majority involving meditation)

Serum IL-6 and Attendance at Religious Services

(1675 persons age 65 or over living in North Carolina, USA)



Citation: International Journal of Psychiatry in Medicine 1997; 27:233-250

Percent with IL-6 Levels >5

Replication

Attending religious services more than once weekly was a significant predictor of lower subsequent 12-year mortality and elevated IL-6 levels (> 3.19 pg/mL). Mortality was lower by 68% (OR=0.32, 95% CI = 0.15-0.72; p <.01) and likelihood of having high IL-6 levels was reduced by 66% (OR=0.34, 95% CI = 0.16-0.73, p <.01) among weekly attendees, compared with those never attending religious services. Results were independent of covariates including age, sex, health behaviors, chronic illness, social support, and depression.

Lutgendorf SK, et al. Religious participation, interleukin-6, and mortality in older adults. <u>Health Psychology</u> 2004; 23(5):465-475

Cardiovascular Functions

(systematic review)

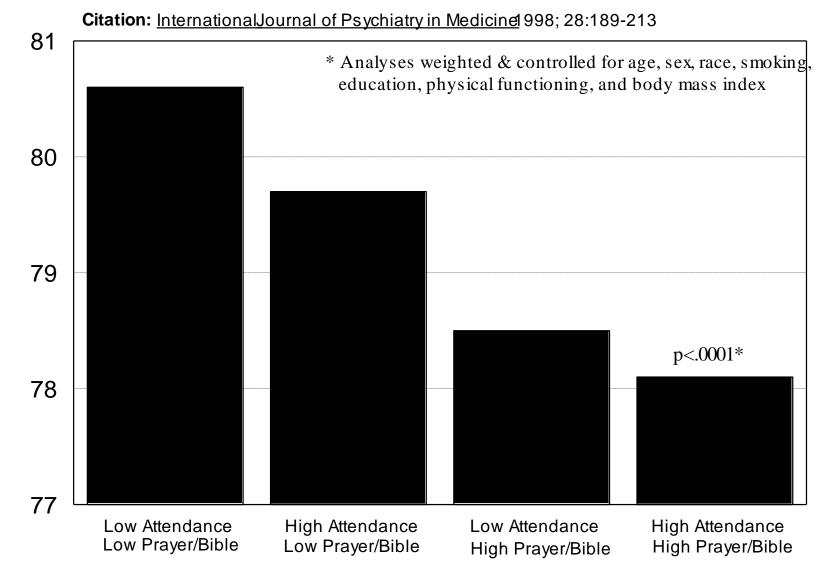
Religious involvement is related to:

Lower blood pressure (36 of 63 studies) (57%)

Better cardiovascular functions (CVR, HRV, CRP) (10 of 16 studies overall) (63%)

Less coronary artery disease (12 of 19 studies overall) (63%)

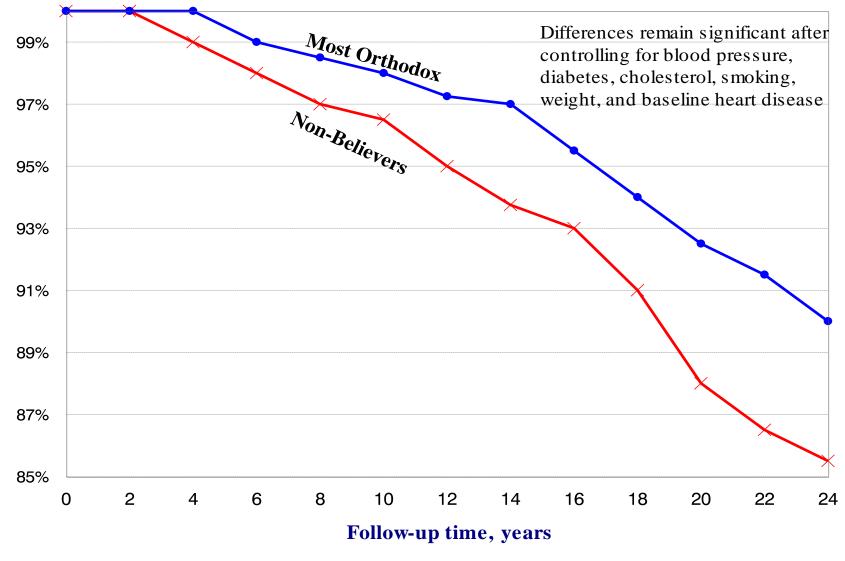
Religious Activity and Diastolic Blood Pressure (n=3,632 persons aged 65 or over)



High = weekly or more for attendance; daily or more for prayer **Low**= less than weekly for attendance; less than once/day for prayer

Mortality From Heart Disease and Religious Orthodoxy

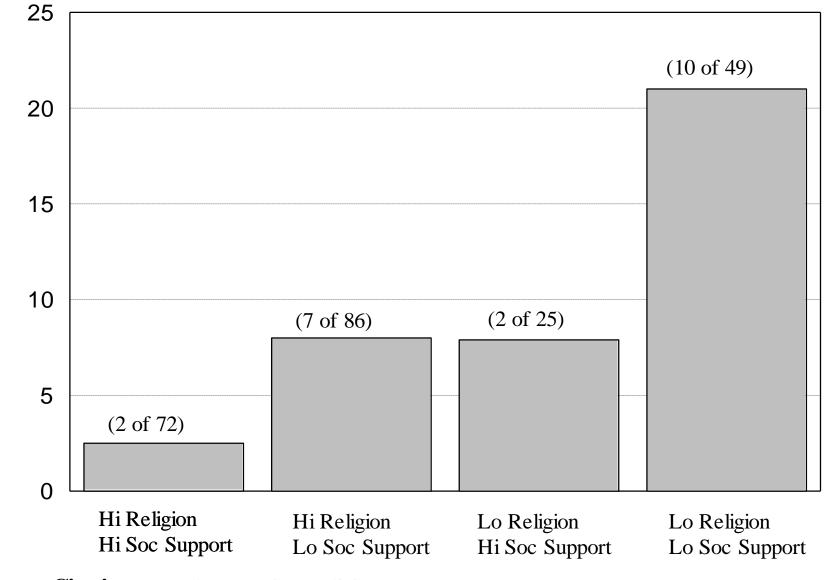
(based on 10,059 civil servants and municipal employees)



Kaplan-Meier life table curves (adapted from Goldbourt et al 1993<u>Cardiology</u> 82:100-121)

Six-Month Mortality After Open Heart Surgery

(232 patients at Dartmouth Medical Center, Lebanon, New Hampshire)



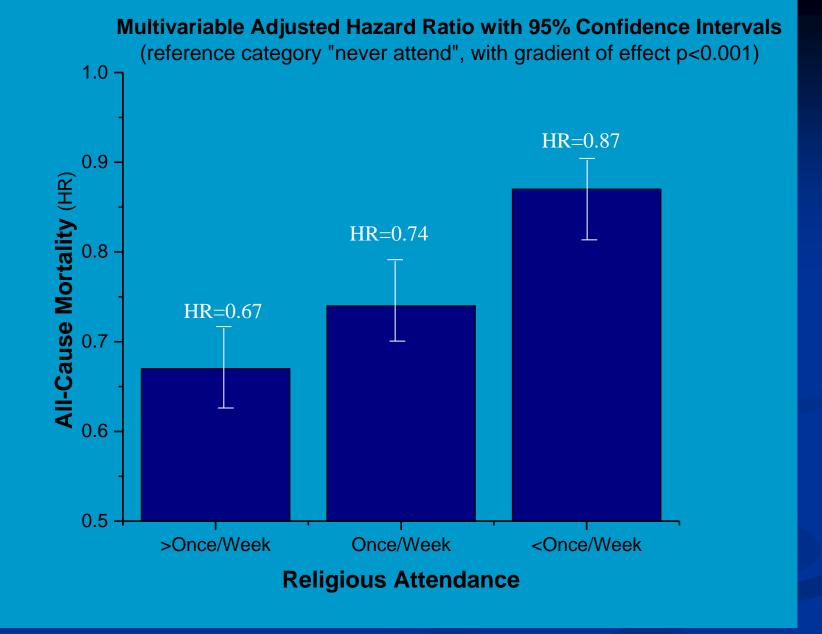
Citation: Psychosomatic Medicine 1995: 57:5-15

% Dead

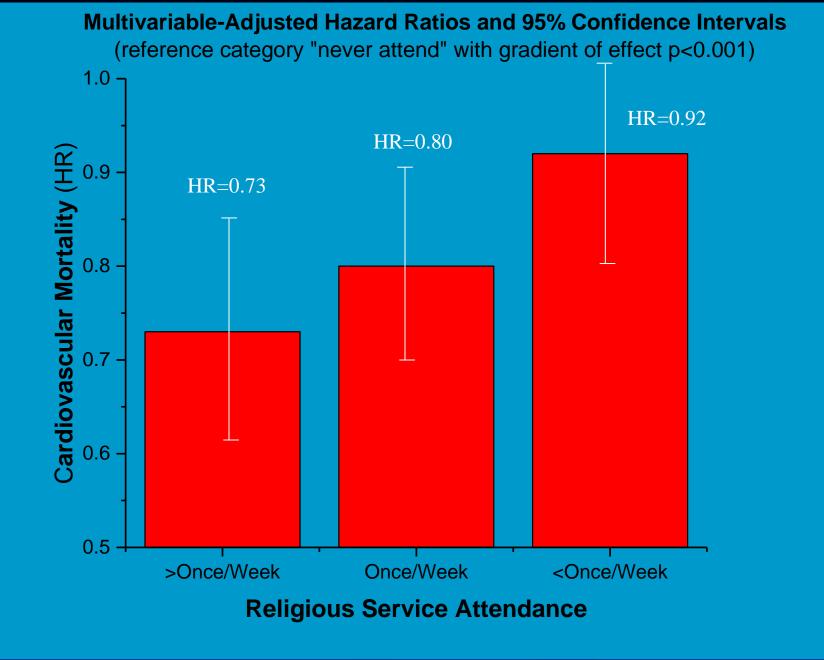
Mortality (all-cause) (systematic review)

Religious involvement related to:

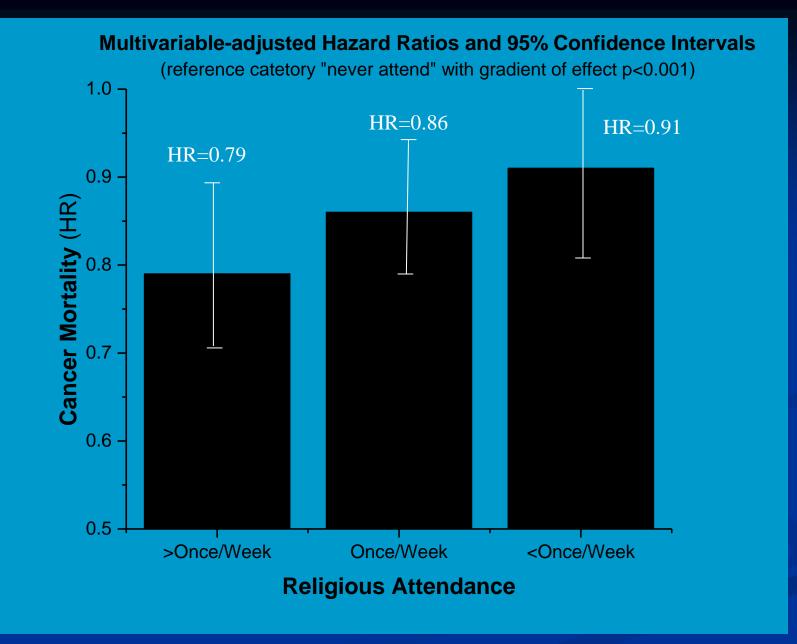
- Greater longevity in 82 of 120 studies (68%)
- Shorter longevity in 7 of 120 studies (6%)



Nurses Health Study: 74,534 women followed from 1996-2012 Li et al (2016). JAMA Internal Medicine 176(6):777-785



Li et al...VanderWeele (2016). JAMA Internal Medicine 176(6):777-785

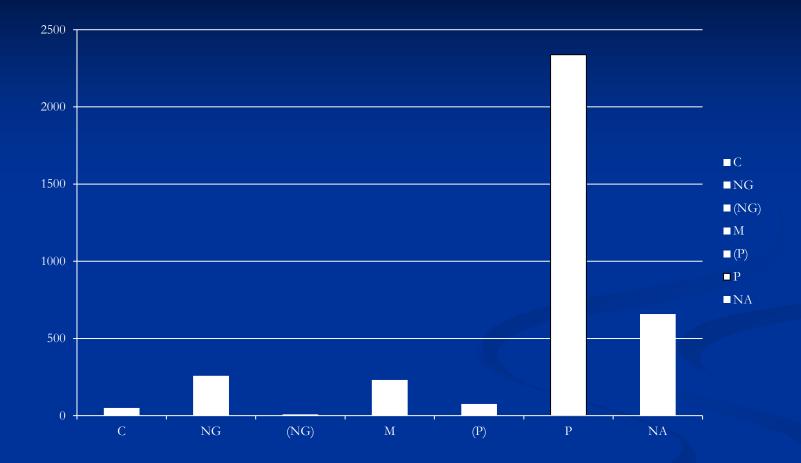


Li et al...VanderWeele (2016). JAMA Internal Medicine 176(6):777-785

Mediation Analysis for the Religious Attendance – **All-Cause Mortality Effect**

Depressive Symptoms (CES-D)	11%	p<0.001
Current Smoking	22%	p<0.001
Optimism	9%	p<0.001
Social Integration	23%	p=0.003
Unexplained	35%	
(no mediation for alcohol use, diet quality, phobic anxiety)		
Li et alVanderWeele (2016). JAMA Internal Medicine 176(6):777-785		

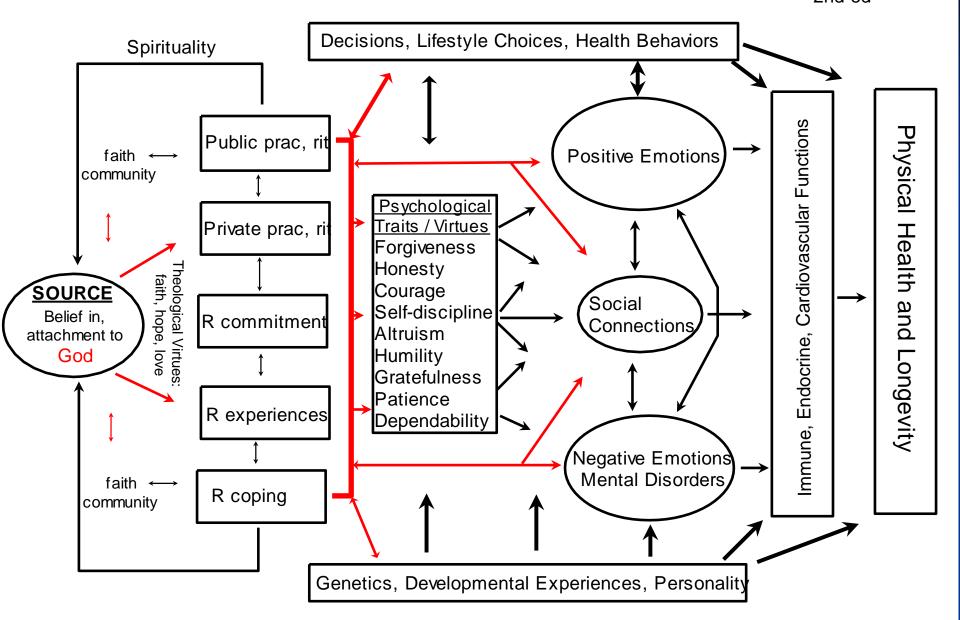
The Relationship between Religion and Health: All Studies



Number of studies includes some studies counted more than once (see Appendices of 1st and 2nd editions). Prepared by Dr. Wolfgang v. Ungern-Sternberg

Theoretical Model of Causal Pathways

(c) Handbook of Religion & Health 2nd ed



*Model for Western monotheistic religions (Christianity, Judaism, and Islam)

Applications in Healthcare

- Health professionals should take a <u>spiritual history</u> -- talk with patients about these issues
- Respect, value, support beliefs and practices of the patient
- Identify the spiritual needs of the patient
- Ensure that someone meets patients' spiritual needs (pastoral care)
- Pray with patients if **patient requests**
- Work with the faith community, if patient consents

From: Spirituality in Patient Care (Templeton Foundation Press, 2013)

The Spiritual History¹

- 1. Do your beliefs provide comfort?
- 2. Are your beliefs a source of stress?
- 3. Do you have beliefs that might influence your medical decisions?
- 4. Are you a member of a faith community, such as a church, synagogue, or mosque? If yes, is it supportive?
- 5. Do you have any other spiritual concerns that you'd like someone to address?

¹Adapted from Koenig HG (2002). Journal of the American Medical <u>Association (JAMA)</u> 288 (4): 487-493

Activities Besides Taking a Spiritual History

- 1. Support the religious/spiritual beliefs of the patient (verbally, non-verbally)
- 2. Ensure patient has resources to support their spirituality
- 3. Accommodate environment to meet spiritual needs of patient

5 CME-qualified 45-60 min Training Videos on How to Integrate Spirituality into Patient Care (using the "Spiritual Care Team" approach)

Go to the following Duke University website:

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

Conclusions

- 1. Religious involvement (RI) is related to better mental, social, and behavioral health, and improves these aspects of health over time
- 2. As RI lessens in the Americas (the result of increasing secularization), crime rates, alcohol & drug use, and addiction are increasing
- 3. RI is also related to better physical health, less functional disability, and less cognitive decline with aging
- 4. These findings have huge implications for public health and healthcare costs as RI becomes less common with each younger cohort.
- 5. The clinical applications of the research on religion/spirituality and health are vast in terms of provision of mental and physical health care

Further Resources

Monthly FREE e-Newsletter

CROSSROADS... Exploring Research on Religion, Spirituality & Health

- Summarizes latest research
- Latest news
- Resources
- Events (lectures and conferences)
- Funding opportunities

To sign up, go to website: <u>http://www.spiritualityandhealth.duke.edu/</u>

Spirituality Health Research

Methods Measurement Statistics and Resources



Harold G. Koenig, MD

Summer Research Workshop August 9-13, 2021 Durham, North Carolina

5-day intensive research workshop focus on what we know about the relationship between spirituality and health, clinical applications, how to conduct research, and how to develop an academic career in this area. Faculty includes leading spiritualityhealth researchers at Duke, Yale University, Emory, and elsewhere.

-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

Third Edition

Spirituality in Patient Care

Why, How, When, and What

Harold G. Koenig, MD

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Velcor	ne					Mission		Up	coming	Events
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.						 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 		anc (Au on,	16th Annual 5-day Spirituality and Health Research Worksho (August 12-16, 2019) Monthly Research Seminars Recent News	

theologians

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• Discuss how theological input can advance the research

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Questions and Discussion