Key considerations when selecting family carer outcome measures



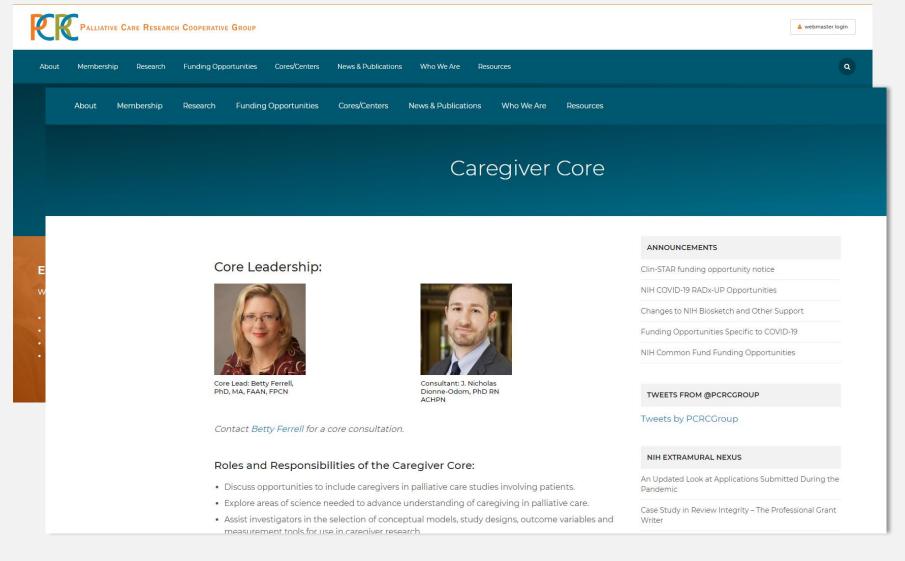


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What is the Caregiver Core of the Palliative Care Research Cooperative Group?



PCRC website: https://palliativecareresearch.org/

PCRC Core page: https://palliativecareresearch.org/corescenters/caregiver-core

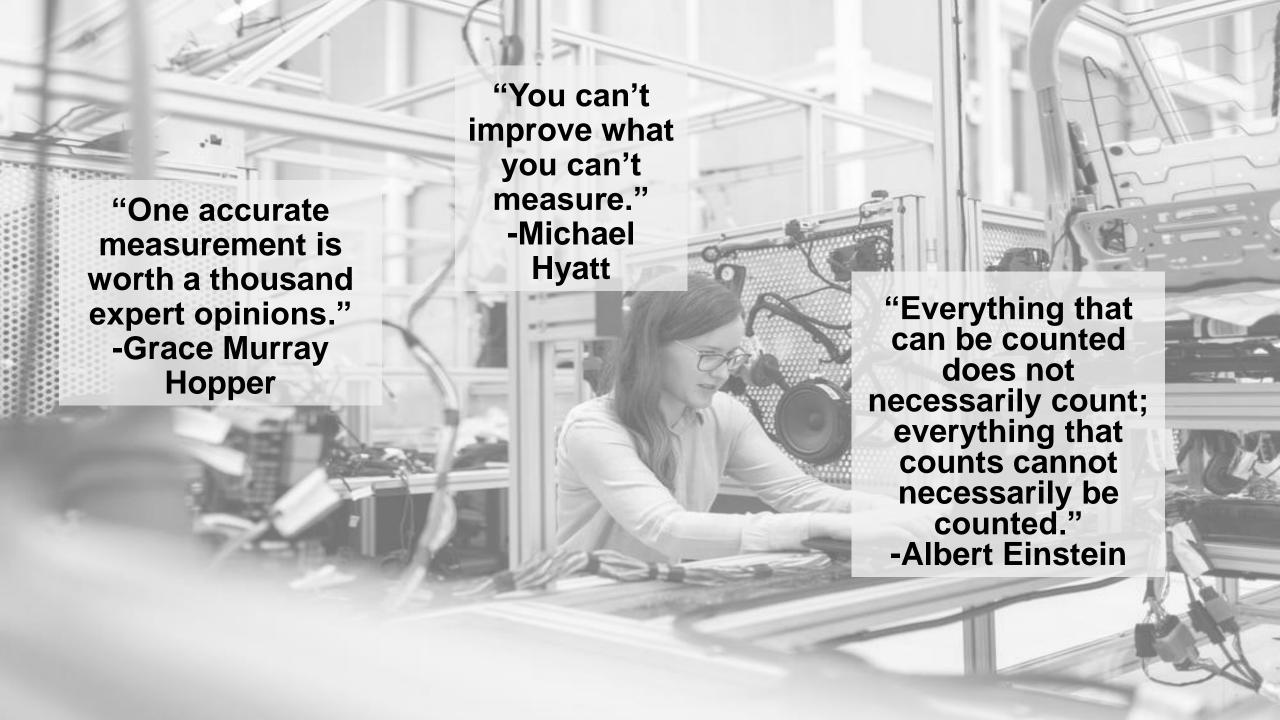
What does the PCRC Caregiver Core do?

Discuss
opportunities to
include
caregivers in
palliative care
studies
involving
patients

Explore areas of science needed to advance understanding of caregiving in palliative care

Discuss
opportunities
for inclusion of
qualitative data
in caregiver
research

Assist
investigators in
the selection of
conceptual
models, study
designs,
outcome
variables and
measurement
tools for use in
caregiver
research



5 measurement considerations in family carer research



- 1. What instrument(s) best operationalize concepts in my research question/aims?
- 2. Does the instrument link my study's larger theoretical framework?
- 3. What instruments should I use?
- 4. What carer demographics should I collect?
- 5. What are some good resources to find instruments?

What instrument best operationalizes concepts in my research question?



Patient Focused Constructs

Relationship Focused Constructs

Health and well-Caregiver health being outcomes **Caregiver skills** utilization Out of pocket costs Quality of life Communication **Distress** Primary care/wellness Preparedness Caregiver visits Burden/strain **Decision-making Focused** Caregiver hospital Mood days/ED visits Knowledge (beware of **Outcomes** (depression/anxiety) Dunning-Kruger effect) Work time off Physical health Nursing task (e.g., med administration, wound Paid help Grief/bereavement care)

Patient Focused Outcomes

Health and wellbeing outcomes

- Quality of life
- Physical health
- Mood (depression/anxiety)
- Symptoms
- Mortality

Patient healthcare utilization

- Hospital/ICU days
- ED visits
- ACP behaviors/living will completion/DPOAH designation

End of life outcomes

- QOL at EOL
- Medical treatment intensity (last 30/last 7 days)
- Place of death
- Symptoms at end of life

Relationship Focused Outcomes

Patient-family healthcare clinician relationships

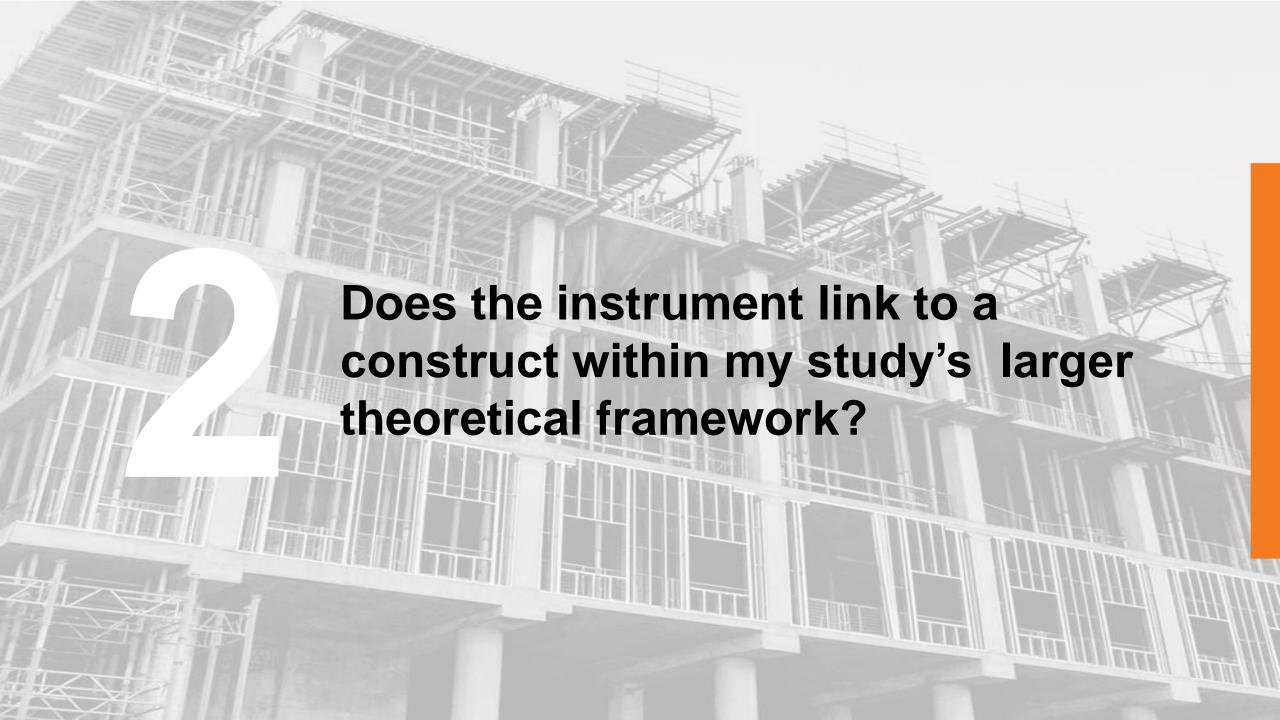
- Patient-familyprovider quality of communication
- Satisfaction with care
- Patient-familyhealthcare clinician
 concordance

Caregiver-patient relationship

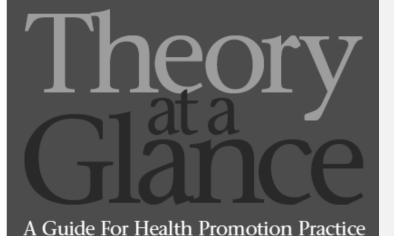
- Relationship strain
- Marital satisfaction
- Intimacy
- Serious illness conversation

Caregiver health utilization

- Out of pocket costs
- Primary care/wellness visits
- Use of community and other professional support services



What is a conceptual model or theory?



"A theory presents a systematic way of understanding events or situations. It is a set of concepts, definitions, and propositions that explain or predict these events or situations by illustrating the relationships between variables." (p. 4)

U.S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES
National Institutes

What is a conceptual model or

Step 1:

propositions that theor Identify a theory or conceptual framework predict

situations by illustrating the relationships between variables."

"A theory presents

understanding

definitions, and

It is a set of

concepts,

a systematic way of

events or situations.

(p. 4)



Core Leadership:





May 2019, Issue 36 PCRC Newsletter Open Position: NIH DIRECTOR OF THE NINR DIVISION OF EXTRAMURAL SCIENCE PROGRAMS PCRC's Heart Failure Special Interest Group to host a Work-in-Progress meeting

ANNOUNCEMENTS

Caregiving Research Resources.

- Selecting a Conceptual Model of Caregiving Research
- Methodological considerations for caregiver Research References
- Case Western Reserve University's Distance Caregiver Study website
- Latino Family Caregiving at End of Life video: A video-soap opera, telenovela entitled Cuidadores como yo/Caregivers Like Me for the education of family caregivers. Available in English or Spanish.
 - Cruz-Oliver DM, Fernandez N, Parikh M, Malmstrom TK, Gonzalez J, Sanchez-Reilly S. <u>Education Intervention "Caregivers Like Me" for Latino Family Caregivers Improved Attitudes Toward Professional Assistance at End-of-life Care.</u> American Journal of Hospice and Palliative Medicine. 2015 May 27. pii: 1049909115584315. [Epub ahead of print]
 - Cruz- Oliver DM, Ellis K, Sanchez-Reiley S. Caregivers Like Me: An Education Intervention for Family Caregivers of Latino
 Elders at End-of-Life. MedEdPORTAL Publications. 2016;12:10448. http://dx.doi.org/10.15766/mep-2374-8265.10448.
 - Cruz-Oliver DM, Parhk M, Wallace C. What did Latino Family Caregivers expect and learn from Education Intervention "Caregivers Like Me?" Am J Hosp Palliat Care. 2017 Jan 1:1049909117709550.
 - Cruz-Oliver DM, Malmstrom TK, Roegner M, Gwen Y. Evaluation of a video-based seminar to raise healthcare professionals' awareness of culturally sensitive end-of-life (EOL) care. J Pain Symptom Manage. 2017 Jul 14.

PCRC Caregiver Core Resources for Theory/Conceptual Frameworks

https://palliativecareresearch.org/corescenters/caregiver-core





Step 2:

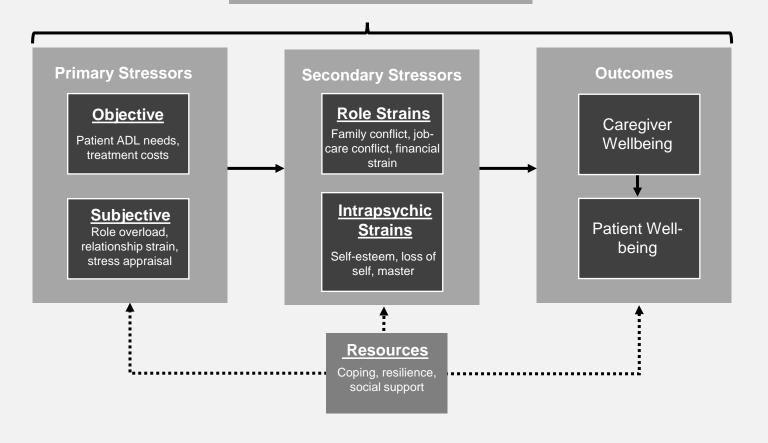
- Latino Family Caregiving at End of Life video: A video-soap opera, telenovela entitled Cuidadores

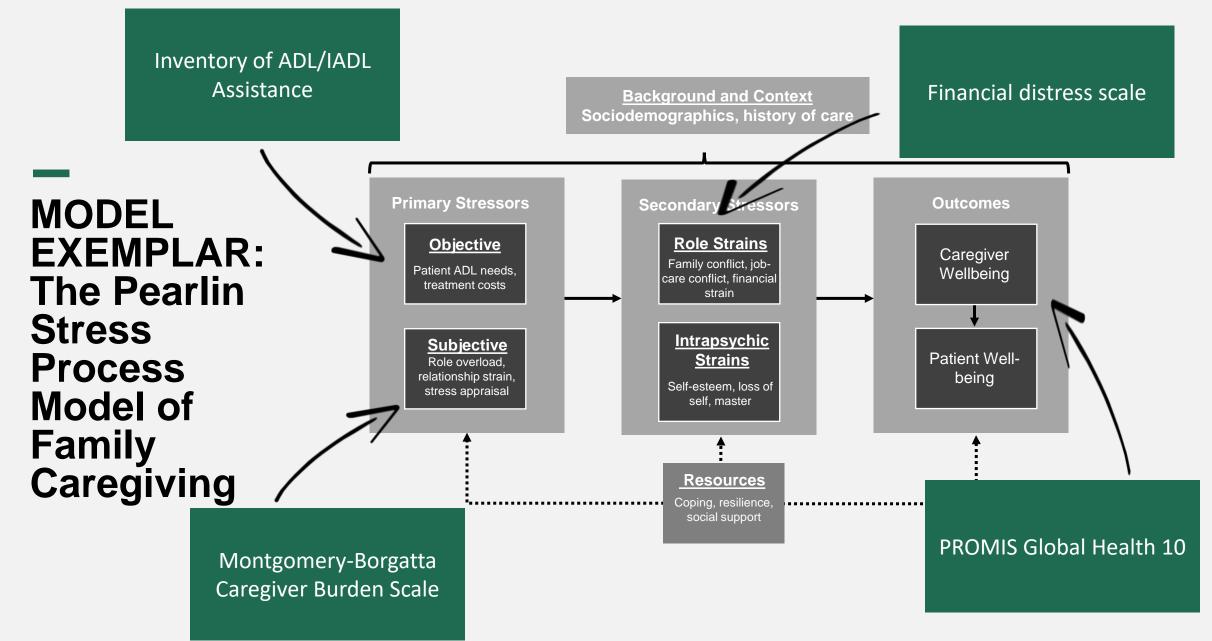
PCRC Caregiver Core Resources for Link constructs in your theoretical model to instruments

https://palliativecareresearch.org/cor escenters/caregiver-core

Background and Context
Sociodemographics, history of care

MODEL EXEMPLAR: The Pearlin Stress Process Model of Family Caregiving







What instruments should I use?

General considerations:

- What has been documented in systematic reviews?
- What have similar studies used?
- Unless you're a psychometrician, don't develop a new instrument

A Review of Family Caregiving Intervention Trials in Oncology

Betty Ferrell, RN, PhD, MA, FAAN, FPCN, CHPN 1: Elaine Wittenberg, PhD2

¹Director, Division of Nursing Research and Education, City of Hope National Medical Center, Duarte, CA; ²Associate Professor, Division of Nursing Research and Education, City of Hone National

Abstract: This article contains a review of literature published from 2010 to 2016 on family caregiving in oncology. An analysis of 810 citations resulted in 50 randomized trials. These trials describe the need to prepare family caregivers for the complex role

Heart Fail Rev (2017) 22:543-557 DOI 10.1007/s10741-017-9597-4



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Family caregiving for persons with heart failure at the intersection of heart failure and palliative care: a state-of-the-science review

J. Nicholas Dionne-Odom¹ · Stephanie A. Hooker² · David Bekelman³ Gwen McGhan1 · Lisa Kitko4 · Anna Strömberg5 · Rachel Welk1 · M Zehra Gok Metin 7 + Gisella Mancarella 1 + Salpy V. Pamboukian 8 + Lorraine Evangelista 9 · Harleah G. Buck 10 · Marie A. Bakitas 1 · On b IMPACT-HF National Workgroup

Published online: 4 February 2017 (C) Springer Science+Business Media New York 2017

Abstract Many of the 23 million individuals with heart failure (HF) worldwide receive daily, unpaid support from a family member or friend. Although HF and palliative care practice cused on

Effectiveness of Family and Caregiver Interventions on Patient Outcomes among Adults with Cancer or **Memory-Related Disorders: A Systematic Review**

Department of Veterans Affairs
Health Services Research & Development Service Evidence-based Synthesis Program.

April 2013

Prepared for:

Department of Veterans Affairs Veterans Health Administration Health Services Research & Development Service

Evidence-based Synthesis Program (ESP) Center

Investigators: Principal Investigator Joan M. Griffin, Ph.D.

Co-Investigator Laura Meis, Ph.D.

Research Associates: Maureen Carlyle, M.P.H. Nancy Greer, Ph.D. Agnes Jensen, B.S. Indulis Rutks, B.S.

Roderick MacDonald, M.S.



Quality Enhancement Research Initiative Washington, DC 20420 Prepared by:

Minneapolis VA Medical Center

Timothy J. Wilt, M.D., M.P.H., Director



What instruments should I use?

General considerations:

Identify instruments that are valid and reliable

Validity: how well specific instruments measure what they are intended to measure

Reliability:
extent to which a
measure yields
the same results
on repeated trials

Understanding the error of our ways: Mapping the concepts of validity and reliability

Patricia A. Higgins, RN, PhD Andrew J. Straub, ANP, GNP Nurs Outlook 2006;54:23-29. 0029-6554/06/\$—see front matter Copyright © 2006 Mosby, Inc. All rights reserved. doi:10.1016/j.outlook.2004.12.004

Clinicians increasingly desire evidence upon which to base their practice decisions. One of the difficulties in their decision-making, however, is answering the fundamental question, "How do I evaluate the relevance and applicability of the findings?" There are a number of factors involved in such an evaluation and, frequently, readers can easily determine the usefulness

straightforward than others; for example, the timeliness, research setting, cultural relevance, and/or types of subjects involved. On the other hand, evaluating the methodology (design and instruments) that produced those findings may not be as easily accessible, in part because of the complexity of the terms and relation-

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External Validity, Generalizability, and Knowledge Utilization

Linda Ferguson

Purpose: To examine the concepts of external validity and generalizability, and explore strategies to strengthen generalizability of research findings, because of increasing demands for knowledge utilization in an evidence-based tractice environment.

Framework: The concepts of external validity and generalizability are examined, considering theoretical aspects of external validity and conflicting demands for internal validity in research designs. Methodological approaches for controlling threats to external validity and strategies to enhance external validity and generalizability of findings are discussed.

Conclusions: Generalizability of findings is not assured even if internal validity of a research study is addressed effectively through design. Strict controls to ensure internal validity can compromise generalizability. Researchers can and should use a variety of strategies to address issues of external validity and enhance generalizability of findings. Enhanced external validity and assessment of generalizability of findings can facilitate more appropriate use of research findings.

JOURNAL OF NURSING SCHOLARSHIP, 2004; 36:1, 16-22. ©2004 SIGMA THETA TAU INTERNATIONAL.



What demographics on carers should I collect?

2020 Report

Caregiving in the U.S.

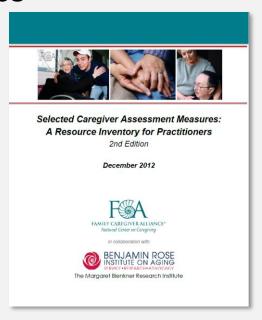
- Age
- Gender
- Race/Ethnicity
- Care recipient relationship (This person is my...)
- Education
- Employment status
- Relationship status
- Religious preference
- Care recipient dwelling status

- Household status (Who lives with you? Who lives with care recipient?)
- Caregiver socioeconomic status
- Month/year started caregiving
- Days/week providing support
- Hours/day providing support
- Medical insurance status

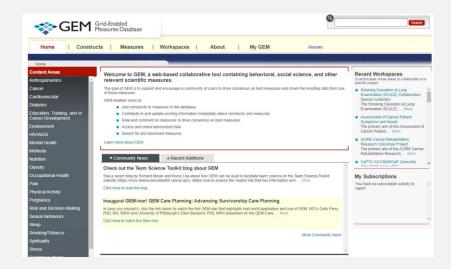


National Alliance for Caregiving Assessment Measures

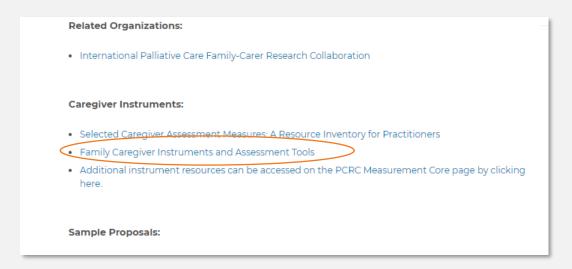
Instrument libraries and databases



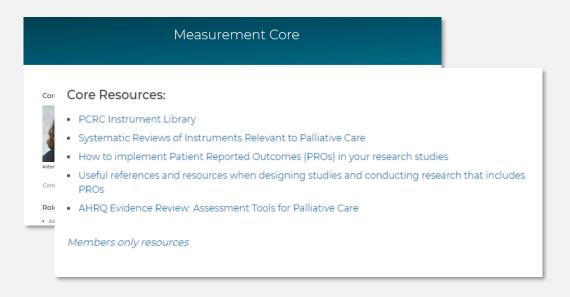
GEM: Grid-Enabled Measures Database



PCRC Caregiver Core Instrument library

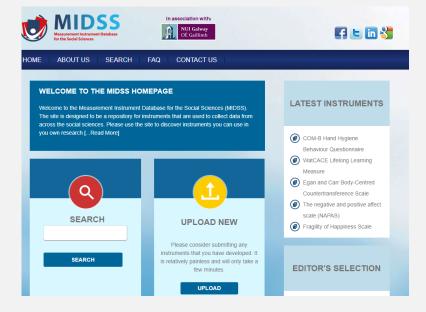


PCRC Measurement Core Instrument library:



Instrument libraries and databases

MIDSS:
Measurement
Instrument
Database for
the Social
Sciences



PROMIS®



PhenX Toolkit



In summary:

- 1. Choose instruments that operationalize specific carer constructs in your research aims
- 2. Identify a theoretical framework containing both the concept you desire to measure and other concepts of interest named in your research aims
- 3. Choose validated and reliable instruments that have ideally been used by others in the area
- 4. Collect carer demographic information that allows you to make comparisons to other work
- 5. Utilize established instrument databases and expert guidance to help find optimal instruments

Thank you!

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