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Role of Patient-Centered Communication in the Association between Usual Source of Health Care and Patients' Ratings of Quality of Care

### **Overview**

- ➤ Background
  - Usual source of care
  - Patient-centered communication
- **➤** Communication Framework
- ➤ Mediation Analysis HINTS 4 (cycle 1)

# **Background**

### Usual source of healthcare

- Greater use of preventive services;
- Decreased use of emergency services;
- Higher ratings of quality and satisfaction
  - Ongoing patient-provider relationships may, in part, be fostered by patient-centered communication.

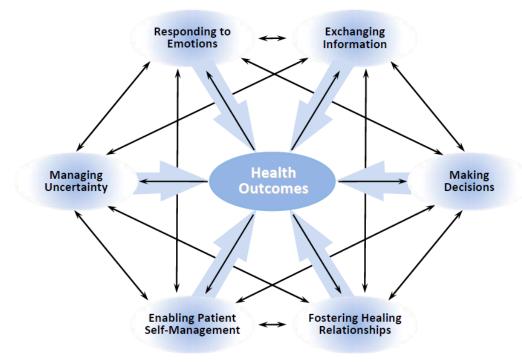
### Patient-centered communication

- Adherence to treatment recommendations;
- Management of chronic disease;
- Quality of life;
- Disease-related outcomes.



# Patient-Centered Communication Framework

Communication functions that guide clinical interactions:



#### Patient-Centered Communication in Cancer Care

Promoting Healing and Reducing Suffering Epstein, R.M., Street, Jr., R.S. (2007) P. 18

## **Purpose**



Evaluate the interrelationships between having a usual source of care, patient-centered communication, and patients' ratings of health care quality.



Hypothesis: the association between usual source of care and ratings of healthcare quality would be **mediated** by patient-centered communication.

### **Methods**

#### Data

- HINTS 4 Cycle 1
- October 2011 February of 2012
- n=3959

#### Mode

- Mailed questionnaire
- English and Spanish

### Sampling

- Frame: comprehensive national listing of USPS addresses
- Design: two-stage, stratified sample (household/individual)

### Response Rate

- Household x Individual
- Final: 36.7%



### **Measures**

Sociodemographic Variables

Usual Source of Healthcare

Healthcare Use

Ratings of Healthcare Quality

- Sex, age, education, race/ethnicity, annual household income, health insurance status.
- "Not including psychiatrists and other mental health professionals, is there a particular doctor, nurse, or other health professional that you see most often?" (yes/no)
- "In the past 12 months, not counting the times you went to the emergency room, how many times did you go to a doctor, nurse, or other health professional to get care for yourself?"
- "Overall, how would you rate the quality of healthcare you received in the last 12 months?".

### **Measures: Patient-Centered Communication**

**Exchanging** Information

Responding to Emotions

Making Decisions

Enabling Patient Self-Management

Managing Uncertainty

Foster healing relationships

- "Give you the chance to ask all the health-related questions you had"
- "Explain things in a way you could understand"
- "Give the attention you needed to your feelings and emotions?"
- "Involve you in decisions about your healthcare as much as you wanted?";
- "Make sure you understood the things you needed to do to take care of your health?"
- "Help you deal with feelings of uncertainty about your health or healthcare?".
- •"During the past 12 months, how often did you feel you could rely on your doctors, nurses, or other healthcare professionals to take care of your healthcare needs?"
- •"Spend enough time with you?"

# **Data Analysis**

#### SUDAAN version 9.0.1

- Analyze the complex survey data
- Obtain correct variance estimates.

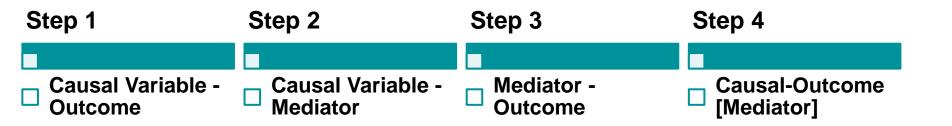
### Weighted Data

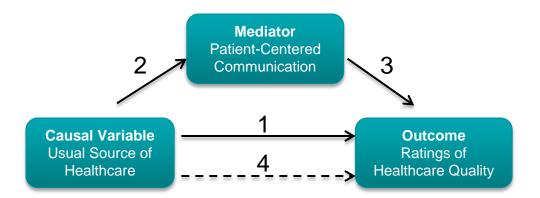
Representative estimates of the adult US population.

### Mediation analysis

Barron and Kenny's method

# Regression Models: Establish Mediation







### Results

### Usual source of care observed more frequently among:

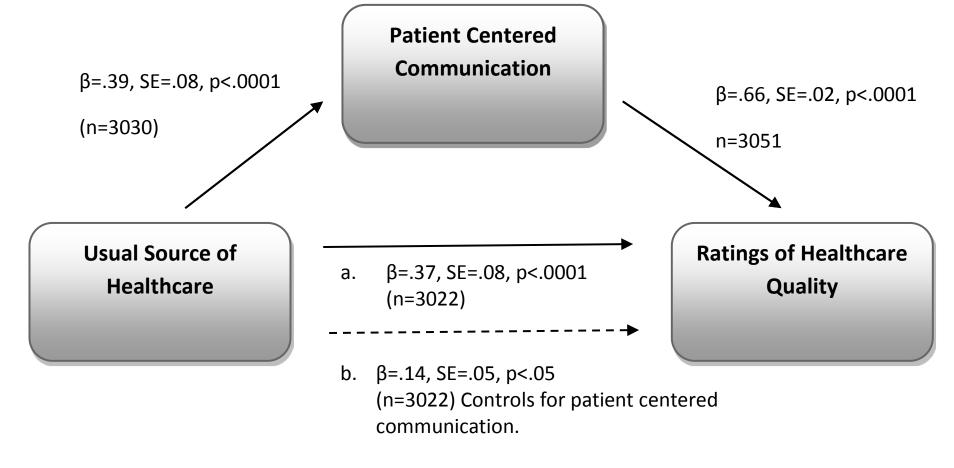
- Females
- Older adults
- Non-Hispanic whites
- Those with higher education
- Those with health insurance
- Those with higher incomes

### Those with a usual source of care had significantly:

- More visits to healthcare providers during the past year;
- Higher ratings of healthcare quality;
- More patient-centered communication.



### Results



<sup>\*</sup> Sobel test statistic: 4.82, p<.0001. Regression analyses control for gender, age, education, income, race/ethnicity, health insurance status, and frequency of healthcare use.

### **Limitations**

- Data are cross sectional
- Assessment of the patient-physician relationship can be nuanced and complex
- Low response rates

# **Summary**

- Respondents with a usual source of care reported better healthcare quality, and more patientcentered communication.
- The impact of usual source of care on ratings of care quality was hypothesized to operate through exposure to patient-centered communication, and our results supported this hypothesis.

### **Conclusions**

- This nationally representative study lends support to putting a usual source of healthcare and patient-centered communication in the center of the patient-centered medical home.
- ➤ With high rates of chronic disease and associated complex care regimens in the U.S., patient-centered communication may be more important than ever.
- ➤ Fostering healing, trusting, and effective patientprovider relationships takes significant effort on the part of patients and their medical team.
- ➤ Research to investigate how to promote patientcentered communication and that evaluates its impact will play an increasingly important role in our efforts to reduce chronic disease and improve population health.

