Structuring Caring Science Data for Operations and Outcomes

Caring International Research Collaborative Special Session
Sigma Theta Tau International 25th Research Congress

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**Date:** July 27th, 2014
**Place:** Hong Kong
Structuring Caring Science Data for Operations and Outcomes

❖ Agenda

1. Structural Phenomenology
2. Phenomenology (theories of caring)
3. Example of structure of two frameworks of patient care
   a) Relationship Based Care (RBC)
   b) Caring Behaviours Assurance System (CBAS)
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- Structural Phenomenology
  1. Facilitates organization of complex research
  2. Enhances application of findings operationally
  3. Supports replication
  4. Strengthens science
Structuring Caring
Science Data for Operations and Outcomes

❖ Structural Phenomenology, Background
  • Outcomes, falls and risk of falls not improved in 15 countries (over 120,000 fall events) Cameron, et al. (2012) Cochran Review
  • Patients not safer in last 10 years (RWJF, 20140)
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❖ Structural Phenomenology, Background

- Models of care need in relationship to outcomes
  - *Daily plan of care review related to lower mortality in 69 intensive care units* (Checkly et al., 2014)
  - *Better interdisciplinary communication and collaboration* (RWJF, 2014)
  - *Professional models of care over task oriented models improved six outcomes* (med errors, falls, pneumonia, UTI, restraint use and PUs; Dubois et al., 2013)
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- Watson Theory of Caring
  1. Practice loving kindness
  2. Instill faith and hope
  3. Support spiritual beliefs
  4. Establish helping and trusting relationship
  5. Promote expression of feelings
  6. Teach in a way patient learns
  7. Creative problem solving
  8. Create a healing environment
  9. Allow belief in miracles
  10. Practice holistic care of mind/body/spirit (basic needs)
Swanson Theory of Caring

1. Knowing (e.g. listening and seeking to understand)
2. Maintaining belief (e.g. supporting patient as they act on strength)
3. Being with (e.g. acting with thought, not reacting)
4. Doing for (e.g. providing resources)
5. Enabling (e.g. teaching self-care strategies)
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- Personal Demographics (Main Income): R² = 5.7%
- Clarity of Self-Concept: R² = 5.9%
- Clarity of Role: R² = 11.2% (Ed Hrs)
- Clarity of System: R² = 4.4% (Prof Yrs)
- Professional Demographics (Unit, Education Hours, Professional Years): R² = 2.8%
- Caring for Self (employee): R² = 28.4%
- Job Satisfaction: R² = 40.3%
- Caring Competence (of employee to patient): R² = 30.1%

Relationship Based Care (RBC), USA
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- **Clarity of Self-Concept**: $r = .39$
- **Clarity of Role**: $r = .67$
- **Clarity of System**: $R^2 = 1.7\%$
- **Professional Demographics (role)**
- **9 facets of physical structure**
- **Number of supply rooms & caring for self**: $r = -.35$
- **Number of bathroom & job satisfaction**: $r = -.34$
- **Number of supply rooms & job satisfaction**: $r = -.44$
- **Major structural unit change & job satisfaction**: $\text{sig } t, p = .07$

- **Caring for Self (employee)**
  - $R^2 = 11.7\%$
  - $R^2 = 22.4\%$
  - $R^2 = 25.9\%$

- **Job Satisfaction**
  - $R^2 = 6.1\%$
  - $R^2 = 3.0\%$
  - $R^2 = 2.6\%$
  - $R^2 = 3.0\%$
  - $R^2 = 32.9\%$

- **Caring Competence (of employee to patient)**
  - $R^2 = 8.8\%$
  - $R^2 = 4.4\%$

- **Fewer sick days/month**
- **Salivary cortisol**
- **Patient feels cared for**
  - $R^2 = 11.4\%$
- **Vacancy Rate**
- **Unit Cost**

- **Patient Falls (refer to fall model)**
- **Number of supply rooms & job satisfaction**: $R^2 = 25\%$
- **Number of bathroom & job satisfaction**: $R^2 = 11\%$
- **Number of supply rooms & job satisfaction**: $R^2 = 23\%$
- **Major structural unit change & job satisfaction**: $t, p = .07$
- **Salivary cortisol**: $R^2 = 6\%$

- **Relationship Based Care (RBC), USA**
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- Compassionate Behaviours Assurance System (CBAS), Scotland

Diagram:
- Staff Outcomes (e.g. job satisfaction, etc.)
- Caring Competence (reported by staff)
- Caring (reported by patient)
- Patient outcomes (e.g. patient falls, etc.)

- Professional Demographics
- 7 C’s
- Personal Demographics

THE CARING INTERNATIONAL RESEARCH COLLABORATIVE (CIRC) IS A RESEARCH COMMUNITY OF SIGMA THETA TAU INTERNATIONAL (STTI)
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- Compassionate Behaviours Assurance System (CBAS), Scotland

Statistically significant change from quarter 3 to quarter 4, using an alpha of .05
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- Compassionate Behaviours Assurance System (CBAS), Scotland
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- Implementing CBAS
  - Time: $R^2 = 6.4$
  - Unit: $R^2 = 16.0$
  - Patient or Family: $R^2 = 4.0$

- Compassionate Behaviours Assurance System (CBAS), Scotland

Caring (reported by patient)
Thank you!