Factors Contributing to Stress and Burnout among Elementary School Teachers in the United States and Germany

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Presentation Outline

Rationale/significance of the research

Method and findings

Implications and future directions

Visits to classrooms

Introduction

- Teacher stress and burnout is a world-wide phenomenon (Kyriacou, 2001)
- Burnout: a psychological syndrome and combination of emotional exhaustion, tendency to depersonalize others, and reduced sense of personal accomplishment (Maslach & Jackson, 1981)
- Stress: the degree to which work demands cause pressure (Gugliemi & Tatrow, 1998)

Introduction

- United States: high teacher turnover rate (25-33%) in first three years of teaching, national shortage of qualified teachers (NCES)
- Germany: 74% of all teachers retired early compared to 46% of early retirements in other professions (Schaarschmidt, 2005), often due to mental health issues; >50% of teachers exhibited work-related behaviors, putting them at risk for burnout

Significance

- Informs efforts in
 - increasing teachers' coping skills to prevent burnout and attrition
 - promoting job satisfaction, teacher health and wellness
 - maximizing student achievement
 - understanding cross-cultural similarities and differences

Predictors of Stress and Burnout

- Cultural and societal factors
 - Educational systems
 - Educational leadership (Hancock & Müller, 2008)
- School-specific factors
 - Type of school, job demands and available resources
 - Interactions with students and parents
- Teacher-specific factors

Teacher-specific Factors

- Demographic variables
 - Gender, age, marital status (Kőrner, 2002)
 - Years of experience (Forlin, 2001)
- Individual personality, characteristics, coping resources
 - Locus of control (Byrne, 1999)
 - Self esteem (Greenberg et al., 1992)
 - Social support (Greenglass et al., 2003)
 - Self-efficacy (Brouwers & Tomic, 2000)
 - Self-acceptance (Lambert et al., 2008)

Research Purposes

- To replicate in Germany a study of teacher stress, coping, and burnout that was conducted in the U.S.
- To examine relationship of elementary teachers' years of experience, perceived occupational stress, and preventive coping/self-acceptance to burnout symptoms in the United States and Germany
- To explore which type of factors/predictors (teacher- or school-specific) are more strongly associated with burnout in both samples

Participants and Settings

<u>U.S. Sample</u>

- 451 elementary teachers (grades K-5) from 13 schools within three adjacent counties in North Carolina
- Response rate: 77.62% (within school rates: 59.26% to 96.77%)

(McCarthy, Lambert, O'Donnell, & Melendres, 2009)

German Sample

- 469 elementary teachers (grades 1-4) from 62 Baden-Württemberg schools in four districts (Freiburg, Karlsruhe, Stuttgart, Tübingen)
- Response rate: 60.56% (within school rates: 17.65% to 100.00%)

Survey Procedures

<u>U.S. Sample</u>

- Questionnaires were distributed during staff meetings
- Returned to school office
- Teachers offered incentives

German Sample

- Translation
- Principals were contacted by email
 - Options: (a) Researcher administering during a staff meeting, (b) printing and postage reimbursement, (c) researcher provided questionnaires, envelopes, and postage, (d) individual summaries of results for their schools

Independent / Predictor Variables

- Perceptions of classroom demands
 - CARD measure (Lambert et al., 2001)
- CARD occupational stress score (D-R)
- Self-acceptance
 - PRI Self-Acceptance Scale (McCarthy & Lambert, 2001)
- Years of experience (number of years at current school, number of years in profession)

Dependent Variable

- Burnout: Measured by Maslach Burnout Inventory - Educator Survey (MBI-ES; Maslach, Jackson, & Leiter, 1996) and MBI-D (Enzmann & Kleiber, 1989; German version)
 - Emotional Exhaustion (EE): feeling of being overextended emotionally
 - Depersonalization (DP): a cynical stance towards others
 - Personal Accomplishment (PA): lowered feelings of competence

Measures

- Classroom Appraisal of Resources and Demands (CARD) – 84 items
 - Demographics and classroom characteristics, classroom demands (5-pt scale), helpfulness of resources (5-pt scale)

Instruments/Measures

Maslach Burnout Inventory (MBI) – 22 items

- Preventive Resources Inventory (PRI)
 Self-acceptance 16 items
 - Measures how well a respondent is able to accept personal weaknesses and strengths when faced with challenging life situations

Analyses

Three level HLM measurement models

 Items responses within burnout construct, scale scores within teachers, teachers nested within their schools

 Overwhelming majority of variance in burnout scores was between teachers within schools, not between schools (< 1%) for both samples

Findings – Burnout and Self-Acceptance Main Differences in Means

	U.S. Sample	German Sample
Maslach Burnout Inventory (MBI)		
Emotional Exhaustion (EE)	20.56*	14.96
Depersonalization (DP)	4.46	3.90
Personal Accomplishment (PA)	13.28	13.68
Total Score	38.10*	32.51
Self-acceptance	4.01*	3.82

Findings – Association between Burnout Symptoms and Predictor Variables

Predictors	U.S. Sample	German Sample
Years at current school	EE↑	EE ↓
Years at current school		DP ↓
Years at current school	Burnout ↑	Burnout ↓
New to teaching (1-2 years)		EE↓
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Years of experience		DP ↑
Stress	EE ↑	
Stress	DP ↑	
Stress		PA ↑

Findings – Association between Burnout Symptoms and Predictor Variables

Predictors	U.S. Sample	German Sample
Self Acceptance	EE ↓	EE ↓
Self Acceptance	DP ↓	DP ↓
Self Acceptance	PA ↓	PA ↓
Self Acceptance	Burnout↓	Burnout ↓

Summary of Findings

- Self-acceptance is the strongest predictor for burnout in both samples.
- Number of years in current school is strongly associated with level of burnout (U.S. sample ↑; German sample ↓).
- For teachers in German sample, higher stress level is associated with lower sense of personal accomplishment and self-acceptance.

Implications

It is important to address individual teacher development (e.g., coping and teaching skills).

It is beneficial to promote organizational improvement of schools (e.g., provision of resources, leadership development, social support).

Future Research

 Develop more complex models including school level variables, cultural work values, job satisfaction, intentions to leave education

Examine different grade levels

Future Research

 Explore differences in teacher support and induction programs in both countries

 Collect observational data to explain differences found in the study regarding teachers' coping skills and perceptions of resources and demands



Observations & Interviews in Baden-Württemberg

- * We spent an entire school day in each classroom and conducted a follow-up interview with each teacher.
- * We interviewed administrators when they were available.
- * We visited schools in the following cities:

Endersbach

Ludwigsburg

Stuttgart

Radolzell

















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