Predictors of Intention to Provide Quality Physical Education and Recreation Services to Student with Disabilities

Thea Kavanaugh New Mexico State University

Student Research Brown Bag Seminar October 5, 2017

Objectives

- Share experiences developing a primary research study
 - 1st stage: Topic, Literature review, Committee, Research Questions, Hypothesis, Theoretical Models, and Prospectus
 - 2nd Stage: Proposal, IRB Process
 - 3rd Stage: Sample Identification, survey development,
 - 4th Stage: Survey Distribution
- Next Steps
- Lessons Learned
- Implications/Potential Impact

1st Stage

Developing a Topic Literature Review Committee Research Questions Hypothesis Theoretical Model Spring 2016-Spring 2017

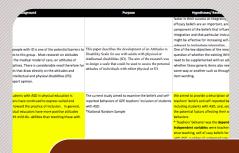
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Topic Development

- Professional Experience
- MPH 579 Research and Resources in Community Health



Literature Review

- Sample Population
- Theory
- Instruments
- Methods
- Results
- Recommendations for future research

f-Efficacy, Motivation and Professional Preparedness as Predictors of Inteuality Physical Education and Recreation Services to Students with Disabil

> A Graduate Thesis Prospectus Submitted to the faculty of The Department of Public Health

New Mexico State University

Identify Thesis Committee Chair

- Brainstorm/Sell Idea
- Identify Committee
- Prospectus
- Prospectus Defense

Background

Students with Disabilities (ages 6-21)

- 8.7% of US students
- Approximately 45,422 students in New Mexico
- Diagnostic categories

Existing Literature:

- Lack of or limited access to quality PE and recreation services
- PE pre-service teachers and PE teachers
- Limited research sampling other qualified professionals who provide PE and recreation services.
- Lack of elevated standards of professional prerequisites that adequately support and advance the provisions of quality physical education and recreation services to students with disabilities

Federal Law

- Equal Rights
- Highly Qualified Personnel

Recommendations:

- Further development of quantitative examinations investigating predictive relationships between teachers' training and behavior
- Inquiry into the preservation of self-efficacy beliefs extending throughout teacher preparation and into his/her career

Physical Education and Recreation Services in New Mexico:

➤ Physical Education:

Physical Education (PE) Teacher Adapted Physical Education (APE) Teacher

➤ Recreation Services (as a related service)

Recreational Therapist (RT)

Among NM school personnel with differing levels of professional preparedness and who deliver physical education or recreation services to students with disabilities:

- How does level of professional preparation affect behavioral intentions to provide quality physical education or recreational services?
- How does psychosocial factors such as attitudes, selfefficacy, and motivation influence behavioral intentions to deliver quality physical education or recreation services?
- How does level of professional preparedness influence the psychosocial factors (i.e., attitudes, self-efficacy, and intrinsic/extrinsic work motivation) affecting behavioral intentions to provide quality physical education and recreation services?

Hypothesis 1: NM school personnel with more professional preparedness in disability-related content will report more positive attitudes, higher self-efficacy, and greater motivation towards working with students with disabilities than personnel with lower levels of professional preparedness.

Hypothesis 2: NM school personnel who report greater positive attitudes, higher self-efficacy, and higher motivation will have greater perceived behavioral intention to provide quality services to students with disabilities than personnel who report lower levels of these qualities.

2nd Stage Proposal IRB Submission

Summer 2017

onal Preparedness of Recreation Therapists for Service Delivery in the Sexual Preparedness of Self-Efficacy and Attitudes to Intention and Competence.

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Research and Resources in Community Health

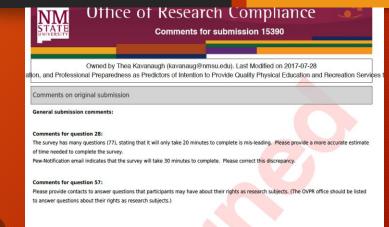
Proposal

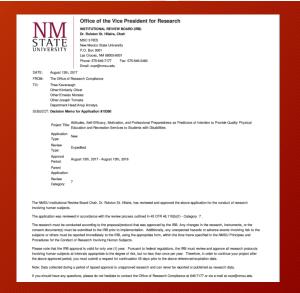
- Proposal-Drafts/Revisions
- Final Proposal
- Proposal Defense



IRB

- Human Subjects Training Certificate
- <u>Submission</u>
- Survey Instrument
- Recipient Letters
- Amendment
- Approval

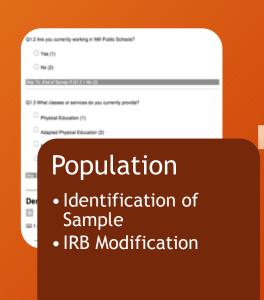


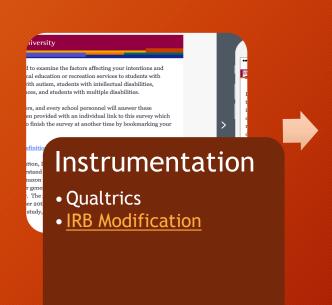


3rd Stage

Population Instrumentation Procedure

Fall 2017 August-Current





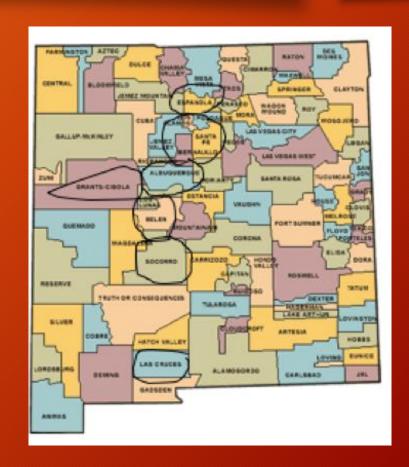


Sample Population:

NM school personnel currently providing physical education or recreation services to students with disabilities (ages 6-22) in NM public schools.

Anticipated Total n = 140

- Estimation based on current available data
 - There are 89 school districts including approximately 784 schools
 - APE teachers (n=57) and RTs (n=33) in NM
 - Random sample schools from districts that employ either RT or APE personnel (n=50).
 - Anticipated sample total will be 140 participants.



Final Sample: Survey Recipients

Total Sample n = 239

Adapted Physical Education Teachers & Recreational Therapists

- 1. Request of public records from NM Public Education Department (Request)
- 2. Number of FTE Staff by District (NMPED Document)
- 3. Called every school to identify contact info of FTE staff (either APE, RT or both)
- 4. Total Sample; n = 60
 - APE: n = 44 (estimated n = 57)
 - RT: n=16 (estimated n = 33)

Physical Education Teachers

- Identification of districts employing APE and/or RT
- Identification of elementary, middle, and high schools in districts (elementary: n=186; middle: n= 56; high = 46)
- IRB Modification Submission
 - Simple Random Sample (30 each)
 - Update/Changes to Survey Questions
- Random Sample via <u>Excel Software</u>
- School Website Search
- Called Schools for PE Contact Info
- Total Sample; n = 179
 - Elementary: n = 42
 - Middle: n = 54
 - High: n = 83

Survey Design

Four Disability Categories in Survey:

1) Intellectual Disability, 2) Multiple Disabilities, 3) Emotional Disturbance, 4) Autism

Definition of Terms

Demographics:

- Gender.
- Age,
- Job title,
- Level of Education,
- Academic Degree,
- Type(s) of Certification,
- Grade level of students,
- Setting where students with disabilities are served,
- Number of students with disabilities expected to serve during the 2017-2018 school year

Professional Preparedness:

- Number of formal courses (undergraduate and graduate) completed specific to: a) adapted physical education,
 b) special education, c) therapeutic recreation, and d) disability-specific course;
- Number of years working with children with disabilities;
- Personal Experiences with people with: a) intellectual disabilities, b)multiple disabilities, c) emotional disturbance, d) autism
- Formal practicum experience working with individuals with disabilities (undergraduate and graduate);
- Number and sources of informal and formal professional development/in-service training opportunities in the past 18 months with disability specific-content.

2 Open Ended Questions

Survey

1. Literature Review:

- Variables:
 - Attitudes
 - Self-Efficacy
 - Intention
 - Motivation
 - Professional Preparedness
- Theory-based Research/Instruments
 - Theory of Planned Behavior (TPB)
 - Self-Efficacy Theory (SET)
 - Self-Determination Theory (SDT)
- Validity & Reliability

Contacted Authors of Publications

- Research Gate
- Find contact info on institution websites

TPB: Attitudes & Intention

- Attitudes Toward Disabled Persons (ATDP) —Adapted from the Attitudes Toward Disabled Persons (ATDP) Scale, Form O (Yuker, Block & Younng, 1970) Public Domain
- Physical Educators' Judgments about Inclusion Instrument (Hodge, Murata, & Kozub, 2002) Provided by author, Hodge, S. on 3/29/17
- Examining Physical Education Teachers' Intentions and Behaviors for Including Students with Autism in General Physical Education Classes (Beamer & Yun, 2014) Provided by author Beamer, J. on 2/17/17
- Physical Educators' Intention Toward Teaching Individuals with Disabilities (PEITID-III) (Tripp & Rizzo, 2006) <u>Provided by author Rizzo, T. on 2/16/17</u>
- Teachers' Beliefs and Intentions toward Teaching Students with Disabilities (TBITSD) scale (Jeong & Block, 2011) Provided by Block, M.E. on 6/30/17

SET: Self-Efficacy & Intention

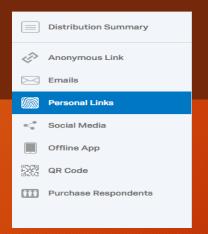
- Physical Educators' Self-Efficacy Toward Including Students with Disabilities-Autism (PESEISD-A scale) (Taliaferro, Block, Harris, & Krause, 2011; Taliaferro, Hammond & Wyant, 2015) Provided by author, Taliaferro, A. on 3/16/17
- Self-Efficacy Scale for Physical Education Teacher Education Majors towards Children with Disabilities (SE-PETE-D) (Block, Hutzler, Barak, & Klavina, 2013) *Provided by author Block, M.E. on* 5/24/17
- Teachers' Sense of Efficacy Scale (long form or short form)
 (Tschannen-Moran & Woolfolk, 2001) <u>Public Domain</u>
- Bandura's Instrument Teacher Self-Efficacy Scale. (Bandura, 2006) <u>Public Domain</u>

SDT: Motivation

- Why Do You Do Your Work? (Tschannen-Moran & McMaster, 2009) <u>Public Domain</u>
- The Situational Motivation Scale (SIMS) (Guay, Vallerand, & Blanchard, 2000) <u>Public Domain</u>

Qualtrics

- Survey book
- IRB Maestro Submission #1
 - Word Version of Survey
- IRB Maestro Modification #2
 - Parameters of data
 - Updated Survey using Qualtrics
- Distribution





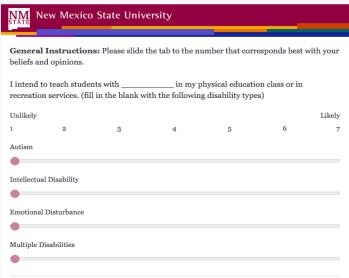
Directions: This survey is designed to examine the factors affecting your intentions and behaviors to provide quality physical education or recreation services to students with disabilities, specifically students with autism, students with intellectual disabilities, students with emotional disturbances, and students with multiple disabilities,

There are no right or wrong answers, and every school personnel will answer these questions differently. You have been provided with an individual link to this survey which will allow you to save and return to finish the survey at another time by bookmarking your last completed page.

For a point of reference, see the Definition of terms

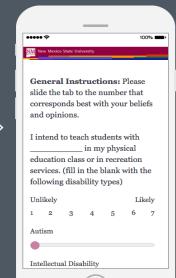
By clicking the next page arrow button, I am providing my consent as a willing participant in this research study. I also understand that upon entering the survey, my name will be entered in a drawing for 1 of 10 Amazon Gift Cards, each at a value of \$20. The winners will be selected randomly via computer generated software. The drawings will occur three days following the closure of the survey. The gift cards will be distributed to all winning participants no later than December 20th. I also understand that if I choose to withdraw from participating in the research study, I will remain as an eligible entry for the drawing.





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4th Stage

Survey Distribution Data Collection

Fall 2017

Sept 15 -Nov 3

A four-round schedule will be used for distribution of survey collection modes including:

- 1) Initial e-mail pre-notification of study;
- 2) Distribution of <u>survey via e-mail</u> (postal mail for bounced e-mail recipients or recipients who request mailed surveys);
- 3) a <u>thank you</u> for participation or <u>follow up e-mail</u> reminder to participate in survey will be sent to all participants; and
- 4) a follow up e-mail or <u>post card</u> reminder to encourage participation in survey prior to closure

Incentives

- Increase response rate
- Evokes a sense of reciprocal obligation

Personal Links						
Contacts	Created Date	Link Expiration	Links	Surveys Started	Surveys Finished	
PE High	29 Sep 2017 1:18 PM MDT	28 Nov 2017 1:18 PM MST	82	74	1	\$ ~
PE Middle	29 Sep 2017 11:52 AM MDT	28 Nov 2017 11:52 AM MST	55	54	4	\$ ~
PE Elementary	29 Sep 2017 10:27 AM MDT	28 Nov 2017 10:27 AM MST	42	42	5	\$ ~
1st Sample-RT/APE Personnel	15 Sep 2017 3:55 PM MDT	14 Nov 2017 3:55 PM MST	59	59	26	\$ ~

Completion Rates

PE High = 1% completion rate
PE Middle = 7% completion rate
PE Elementary = 11% completion rate
RT = 46% completion rate
APE = 41% completion rate
Total = 16 % completion rate

Next Steps:

Data Collection Data Analysis

Fall 2017 -Spring 2018 November -January

- Transfer data from Qualtrics to SPSS
- Record all response rates
- Code for responses including misrepresented responses
 - Example: On average, what is the number of students with disabilities you are expected to serve from 2017-2018 school year?
 - 30+
 - Approximately 40
 - 50-75
- Missing value analysis
- Internal-consistency reliability
- Screening for univariate and multivariate outliers
- Check the assumption of equal variances
- Correlational research design
 - Descriptive statistics to analyze participant characteristics including frequencies, percentages, and means
 - Inferential statistics may include confidence intervals, correlation, analysis of variance (ANOVA), and regression analysis

Lessons Learned

- Time Intensive
- Topic of Interest
- Learning Experience No regrets!
- Revisit sample population
- Reformat data parameters for some of my survey questions
- Quality physical education and recreation services
- Report bias
 - 1) this study does not observe school personnel's actual behavior to deliver quality services to students with disabilities but predicts behavior based on self-report behavioral intention; and
 - 2) self-report of attitudes and self-efficacy may not be representative of the participant's actual beliefs and behavior toward students with disabilities.

Implications/Potential Impact

- Inform state policy committees, school districts, and school administrators who make decisions on hiring and supporting the development of highly qualified personnel.
- Provide justification for continuing education opportunities and for higher education curriculum development to improve professional preparedness in working with students with disabilities.
- Contribute to the research literature on education of students with disabilities, including services provided by APE and RT personnel.

Thank you

Thesis Committee: Dr. Tomaka, Dr. Moralez, Dr. Oliver Sponsored by: Southwest Institute for Health Disparities Research