Do athletic trainers feel adequately trained to work with athletes with disabilities?

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ATTR 540 RESEARCH METHODS IN HUMAN PERFORMANCE

Increased participation by athletes with disabilities

- 2-3 million US residents with disabilities participated in some form of recreation or organized sports (Stopka 2003)
- 8500 students with disabilities participated in adaptive sports (Monaghan 2011)
- Legislation has removed many participation barriers (Peck 1994)

Individuals with Disabilities Education Act 2004

- Governs how states and public agencies provide early intervention, special education, and related services to children with disabilities
- Disabilities Covered

Autism

Deafness-blindness
Developmental delay
Intellectual disabilities
Orthopedic Impairment
Specific Learning Disorder
Traumatic Brain Injury

Deafness

Emotional Disturbance Hearing Impairments Other Health Impairments Multiple Disabilities

Speech or language impairment

Visual impairment.

Complications with participation

- Participation involves same inherent risk (Ramirez et al. 2009)
- Conditions identified in athletes with disabilities are cardiovascular diseases (congenital and acquired), seizure disorders, vision problems, asthma and allergies, musculoskeletal conditions, joint laxity, and Down Syndrome (Platt 2001)
- Vision problems occur in almost half of the population with intellectual disabilities (Platt 2001)

Beliefs toward working with athletes with disabilities

 Directors of Athletic Training Education Programs did not feel adequately trained in specialized equipment (Conatser 2009)

 Athletic Training Students were concerned about their ability to relate to the athletes and did not know what to expect (Davis, Woodward, Ferrara & Campbell 2004)

Athletic Training Education regarding athletes with disabilities

• Certified Athletic Trainers and Athletic Training students believe that more education is need when it comes to dealing with athletes with special needs(Conatser 2009) (Davis, Woodward, Ferrara & Campbell 2004)

 The Athletic Training Educational Competencies do not explicitly mention working with athletes who have intellectual disabilities, autism, sensory impairments, or specific physical disabilities

Purpose

 To determine if high school athletic trainers feel competent to evaluate, treat and rehabilitate athletes with disabilities

Hypotheses

 Certified Athletic Trainer's are comfortable working with athletes with orthopedic impairments and some health impairments

 Certified Athletic Trainer's will feel they would benefit from more education on working with athletes with certain disabilities

Hypotheses (cont.)

 Certified Athletic Trainer's with more experience with athletes with disabilities feel more competent in evaluating, treating and rehabilitating athletes with disabilities

Participants

- Certified Athletic Trainers employed in the high school setting working in the United States
- 1000 surveys will be emailed
- 19.7% return rate

Instrumentation

- Assessing Adequacy of Training
- The content validity of the survey was tested by a panel of experts

Procedures

- IRB Approval was received from Manchester University
- Once IRB approved I applied to have the National Athletic Trainers' Association send out the survey
- Survey was emailed out through the NATA to 1000 randomly selected athletic trainers working in the high school setting within the United States
- A reminder email was sent out to participants after two weeks

Statistical Analysis

- All data will be entered into a password protected computer
- PASW Software
 - Repeated Measures ANOVA
 - Chi-squared test for Independence

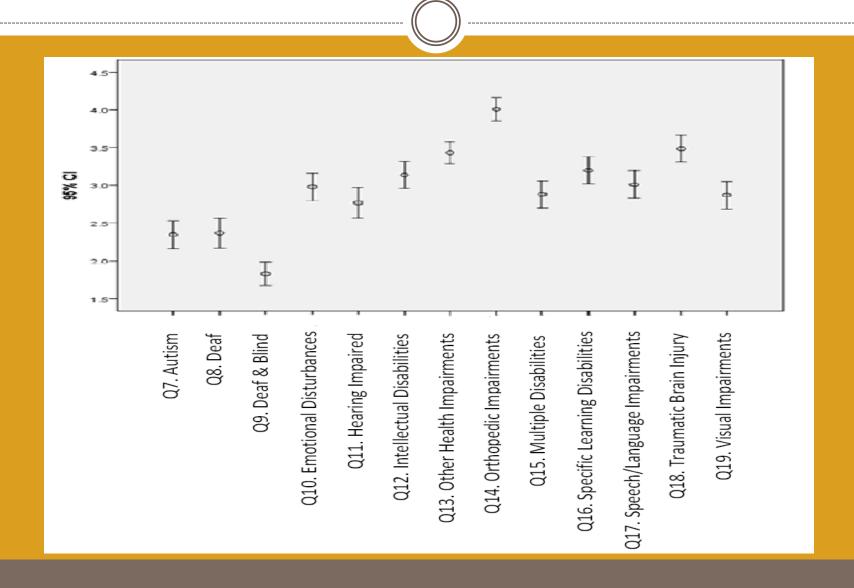
Results

49.7% of participants were ages 25 to 34

• 59.8% were female, 40.2% were male

Experience ranged from 1.5 years to 35 years

Mean Responses



Results (cont.)

 Statistically significant association between experience working with athletes with disabilities and how they responded to each question for all questions except one

Pearson Chi-Square Test					
Disability	Value	df	Asymp. Sig. (2-sided)		
Q7. Autism	95.504	12	0.000		
Q8. deaf	44.576	12	0.000		
Q9. deaf & blind	36.871	12	0.000		
Q10. emotional disturbances	47.54	12	0.000		
Q11. hearing impaired	41.9	12	0.000		
Q12. intellectual disabilities	49.021	12	0.000		
Q13. other health impairments	42.158	12	0.000		
Q14. orthepedic impairments	20.623	12	0.056		
Q15. multiple disabilities	55.041	12	0.000		
Q16. specific learning disabilitis	36.801	12	0.000		
Q17. speech or language impairments	42.72	12	0.000		
Q18. traumatic brain injury	31.718	12	0.002		
Q19. visual impairments	46.862	12	0.000		

Results (cont.)

 Statistically significant difference between responses to each question

o <u>Post-hoc analysis</u>

Results (cont.)

 Majority believe that they would have benefited from a class or clinical experience working with athletes with disabilities

Do you believe a class specifically geared toward treating, evaluating, and rehabilitating athletes with disabilities would have been beneficial in training to work with athletes with disabilities?	Response Percent	Response Rate
Yes	93.30%	181
No	7.70%	15
	Total	
	Response	194

Do you believe a clinical experience working with		
athletes with disabilites would have been benefical in	Response	
training to work with athletes with disabilities?	Percent	Response Rate
Yes	94.90%	186
No	5.10%	10
	Total Response	196

Discussion

Hypotheses were all accepted

Further Research

• How can this help Certified Athletic Trainers?

Any Questions?