

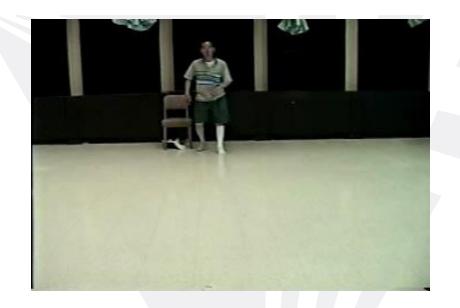
IPRO309: Orthotics and Prosthetics Education in Latin America and US

Professor Meade

Eduardo Aramayo, Allison Bagby, Lydia Benger, Seth Buntain, Hua Chen, Solomon David, Cristina Kovacs, Emily Moore, Stefanie Rozborski, Heather Selby, Ryan Yarzak



Maas





Untreated

With orthosis



Problem

- 2.5 million people with disabilities and unmet needs
- One accredited O&P educational program
- Less than 50 certified practitioners and 1,500 uncertified practitioners



Purpose

- To improve the opportunities to learn about orthotics and prosthetics in Latin America and the United States
- Support development of first Category III International Society for Prosthetics and Orthotics (ISPO O&P Technician) program in Latin America (Bogotá, Colombia)
- Support development of the orthotics and prosthetics technician program at Joliet Junior College (similar to the program in Colombia)



Bryan Malas, MHPE, CO, CPed





IPRO 309 History

- First IPRO 309 Spring Semester 2006
 - Conference in Bogotá in May 2006 (5 IIT students attended and presented modules)
- Continuation of IPRO 309 in Fall Semester 2006 and Spring Semester 2007
 - Conference in Bogotá in May 2007 (5 IIT students attended and presented modules)
- Continuation of IPRO 309 in Fall Semester 2007
 - Material to be presented at Joliet Junior College in December
- IPRO 309 continuing through Spring Semester 2008
- Similar program to begin Spring 2008 at Universidad de los Andes (Colombia)

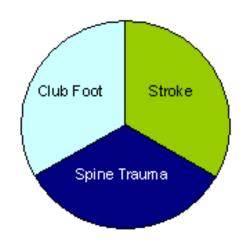


Goals

- 3 educational modules:
 - Club foot
 - Spinal Trauma
 - Stroke



 Presenting at an open house this fall at JJC (recruiting students)



ILLINOIS INSTITUTE OF TECHNOLOGY

Team Organization

- 3 Subgroups
 - Club Foot
 - Spinal Trauma
 - Stroke

Denis I - Anterior compression



 An anterior compression fracture is an injury of the spine in which the front side, or anterior column, of the vertebra is injured. The spine is bent, or flexed, when a force is applied to the spine.

Deformities in Club Foot



- Ankle joint is flexed (Equinus deformity)
- □ Heel is turned in (Varus deformity)
- High medial arch (Cavus deformity)
- □ Foot is bean shaped and curled outer border (Adductus deformity)

//www.global-lielp.org/publications/books/lielp_cfponseti.pdf

What happens when you have a stroke?

- The rupture or blockage prevents the brain from getting the blood and oxygen that it needs to function in a healthy way.
- There are two types of stroke: hemorrhagic and ischemic.





Team Leadership

- Project Manager: Allison Bagby
- Content Manager: Eduardo Aramayo
- Webmaster: Lydia Benger
- Vocabulary Manager: Ryan Yarzak
- Minutes Recorder: Heather Selby
- Poster Designer: Heather Selby and Stefanie Rozborski



Research Methodology

- Overview of disease
- Physical effects
- Pharmacological/Non-pharmacological treatments
- Orthotic Treatment
- Fabrication of device
- Case study throughout each step
- Vocabulary/Notes sheet
- Overview Brochure



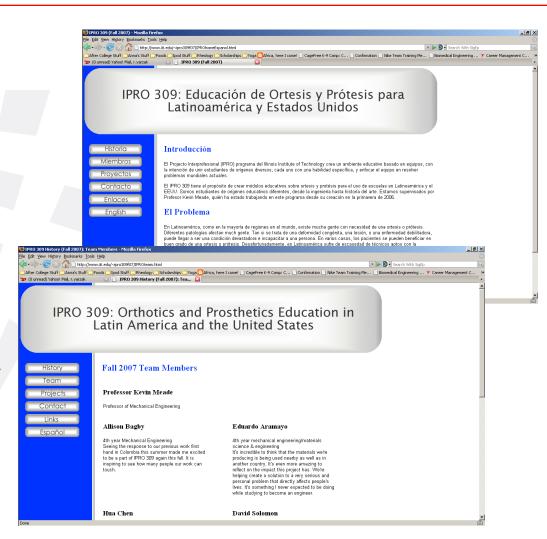
Michael Brncick, M.Ed., CPO





Obstacles

- Broad topic
- High school and first year college students
- Vocabulary
- Language Barrier
- Case studies
- Website



Results



- Three educational modules:
 - Club foot
 - Spinal Trauma
 - Stroke

Guest speaker:
Bryan Malas, MHPE, CO, CPed

 Case studies presented by: Dr. Kevin Meade





Laboratorio Gilete - Bogotά





What's Next?

- Conference in Bogotά May 2008
- Open house at Joliet Junior College
- New Modules Next Semester
 - Pediatric
 - Adult
 - Geriatric



Acknowledgements

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- Illinois Institute of Technology; Chicago, IL
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- Laboratorio Gilete, Bogotά; Colombia;
- Michael Brncick, M.Ed., CPO
- Northwestern University Prosthetics and Orthotics Center (NUPOC); Chicago, IL
- Universidad de los Andes; Bogotά Colombia