Online Interprofessional Education

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Background

- Identified need for
  - Interprofessional education
  - Traditional BSN students
  - RN-BSN students
  - Focus on global health
Interprofessional Education

- Traditional BSN students
  - Simulations
  - Clinical experiences
  - Class activities
RN-BSN Interprofessional Education

• Work in interprofessional environment
  • Lack skills for collaboration
  • Lack understanding of other professions
• Barriers
  • Online education
  • Asynchronous learning environment
Course Development

• Opportunity
  • New general education package
    • global embedded requirement
    • Identified need for global health

• Endorsement by multiple programs
  • Required by 4 programs & open to others

• Developed by faculty from two different programs
  • Jeri Burger – nursing
  • Kevin Valadares – Health Administration

• Lots of coffee
Conceptual framework
Global Health

- Global health from different perspectives
  - Physical
  - Social
  - Social justice and stewardship of resources
  - Connections with local health and healthcare
Interprofessional Education
Group interaction

• Intentional groups

• Group discussion

• Group projects
Groups

- Faculty assigned groups
- 4 – 5 students per group
- At least one non-nursing major in each group
- Team building activities
  - Introductions
  - Discussion Board – beginning awareness of cultural differences
Group Discussion

• Social responses to global health
• Engagement – focus on current issues
• Epidemiology
Group Projects

- Country Projects
- Poster Presentations
Country Projects

• Explore assigned country
• Healthcare system
• Health
  • Social determinants of health
• Comparison to US
• Local implications
Poster Presentation

• Social justice and Stewardship of resources
• Explore a topic related to the country
• Present using a PowerPoint Poster template
Food Security:

Food Security: The World Health Organization since the 1996 Summit indicates that food security is present “when all people at all times have access to sufficient, safe, nutritious food to maintain a healthy and active life.”

Food & Agriculture Organization of the United Nations (3) Main Goals
- Eradication of hunger, food insecurity and malnutrition
- Elimination of Poverty
- Sustainable management of natural resources, such as land, water, air for future generations

Brazil Facts
- Brazil is a member of the World Trade Organization
- Follow the Sanitary and Phytosanitary (SPS) Agreement and the CODEX principles
- Brazil is an upper middle-income country with a population of 191 million.
- Major food supplier to international markets supplying the U.S. with 15% of the food supply

Brazil Consumption in KiloGrams per Capita

<table>
<thead>
<tr>
<th>Food Category</th>
<th>Increase/Decrease</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetables &amp; Fruits</td>
<td>Increasing</td>
</tr>
<tr>
<td>Staples (beans &amp; starchy roots)</td>
<td></td>
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<tr>
<td>Grain Products</td>
<td></td>
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<tr>
<td>Milk</td>
<td></td>
</tr>
<tr>
<td>Red Meat and Poultry</td>
<td>Decreasing</td>
</tr>
</tbody>
</table>

Implications for Health in Brazil

Child Mortality
According to the WHO, 75% of all child deaths are attributed to just six conditions: neonatal causes, pneumonia, diarrhea, malaria, measles, and HIV/AIDS. Child Mortality in Brazil affects 8.9% of the total population.

The healthcare resources needed to decrease child mortality:
- Increased access to Health Care for mothers and children
- Increased availability of Pediatric services
- Improved delivery care and neonatal care
- Increased availability and use of immunizations
- Increased education on nutrition, breast-feeding and good hygiene

Malnutrition
Malnutrition is a major health problem, especially in developing countries such as Brazil. According to The World Health Bank 6.9% of the Brazilian population was undernourished in 2011.

The healthcare resources needed to decrease malnutrition:
- Increase availability and affordability of healthy foods
- Educate children and adults about nutrition and healthy dietary practices
- Provide dietary counseling in primary health care
- Promote healthy foods in schools
- Increase in healthcare workers especially dietitian's

Ethical Considerations

Fome Zero – “Zero Hunger”
- Fome Zero - Brazil's government strategy to guarantee the right of access to basic food
- Diverse programs from creating water cisterns to direct financial aid to the poorest
- Biggest initiative in Brazilian government to fight hunger

Exporting food results in malnutrition
- In Northern Brazil, malnutrition affects over 13% of the population
- Brazil is the leading exporter of beef, veal, and world largest exporter of soybeans

U.S. Comparison to Brazil

According to the Economic Research Service, estimated 14.3% of American households were food insecure in 2013.

UN Food & Ag Organization estimates more than 925 million people worldwide go to bed each night malnourished and hungry. Brazil’s strides over the last 40 years has strengthened the links with the United States in food security.

According to FDA.org, the FDA develops regulations on laws set forth in Food, Drug, & Cosmetic Act or other laws including the Family Smoking Prevention & Tobacco Control Act.

“From the Field to the Table”
2011 FDA - Food Safety Modernization Act – Shifting from catching food safety problems to prevention across the food system.

Food Stamp Supplemental Nutrition & Assistance Program
Food Stamp Program - Provide U.S. citizens in need with benefits to purchase food items such as milk and dairy products, fish, poultry, beans, cereals, infant formula and special diabetic food.

Food Supplement program for women, infants and children (WIC) Also offers to pregnant women and children under the age of five nutritious food (milk, cheese, fruits and vegetable) along with nutrition education.

Brazil: Food vs. Fuel
- Brazil’s increased growth in soybeans is to produce biodiesel instead of food

Stewardship: Protecting the environment for Brazilians and others
- Soybean production in Brazil is destroying the Rain Forest
- Clearing the Rain Forest for agriculture releases more carbon than the biodiesel benefits
- Brazil is the world's 4th largest emitter of harmful Greenhouse Gases (GHG)

References


Online Group Projects
Making it Work

Group Roles
• Group assigns roles and content areas
• Group Roles:
  • Leader
  • Informant Communicator
  • Finisher

Content Assignments
• Introduction & conclusion
• Policy making & Health services: Access to healthcare and barriers to health care
• Social factors: Social & physical determinates of health
• Individual behaviors, biology & genetics
Tools for Collaboration

Education on Blackboard Tools
- File sharing
- Discussion Boards
- Journals
- Blogs

Groups choose how to collaborate
- Blackboard tools
- Texting
- Skype
- Conference calls
Teaching – Interprofessional

- Faculty co-teach the course
- Guest speakers from other programs
  - Nursing
  - Health administration
  - Informatics
  - Radiology Technology
  - Health services – epidemiology
  - Academic advisor with global health experience
  - International students
Evaluation

• Attitudes toward Interprofessional Education
  • RIPLS Survey
    • Little change in attitudes toward interprofessional education
  • Anecdotal data
    • Enjoyed interaction
    • Challenge of group work
Challenges

• Some students have little experience with healthcare
  • Difficult to explore perspectives of different providers
  • Learn skills in teamwork and collaboration
• Group work online
  • Communication! Communication! Communication!
• Large number of nursing students
  • RN-BSN
  • Traditional BSN
  • Some pre-nursing students
Challenges with Interprofessional Teaching

• Different perspectives
  • See through different lenses
• Different teaching styles
• Experience with different student populations
Lessons Learned

• Allow time for groups to form before first project
• Provide structure for group activities
  • Roles
  • Content areas
• Group and individual grading of projects
• Embrace all differences, not just interprofessional
  • Generational differences
  • Life experiences
  • Professional experiences
• Embrace diverse faculty perspectives
Going Forward

• Study Abroad Opportunities
• Increasing demand
  • Experienced faculty help orient additional faculty
    • Keep the spirit of the course alive
• Faculty load
  • Combine online sections
  • Faculty assigned to one section with guest speakers
• Explore additional teaching methodologies
• Bring in speakers from the outside
Questions?