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

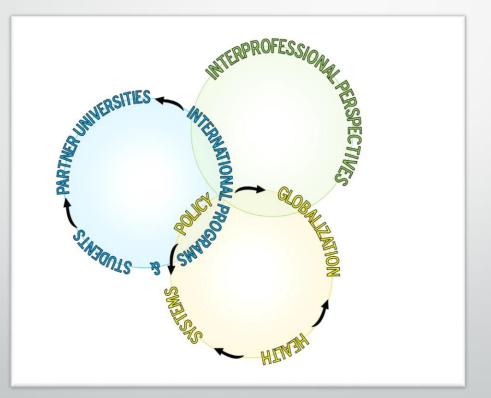
Developed by faculty from two different programs

- 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



Health Professions

Poster Presentation

- Social justice and Stewardship of resources
- Explore a topic related to the country
- Present using a PowerPoint Poster template





Brazil: Food Security

Bonnie Roberts, Staci Sutton, Keith Hercamp, Christi Riggs **IPH: Interprofessional Perspectives on Global Health** University of Southern Indiana, 8600 University Blvd, Evansville, IN 47712

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

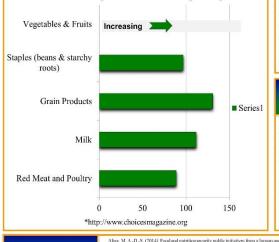
- · Eradication of hunger, food insecurity and malnutrition
- · Elimination of Poverty
- · Sustainable management of natural resources, such as land, water, air for future generations

Brazil Facts

References

- · 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

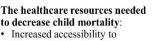


2014 from http://www.dhhs.state.nh.us/dfa/foodstamps

Implications for Health in Brazil

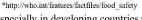
Child Mortality

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.



- Primary Health Care for mothers and children · Increase availability in
- Pediatric services
- Improved delivery care and neonatal care
- Increased availability and use of immunizations
- Increased education on nutrition, breast-feeding and good hygiene.

Malnutrition



Cook

Thorougly

Keep Clean

Separate

Raw &

Cooked

Use Safe

Water & Raw

Materials

Keep Food

at Save

Femperature

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 dietician'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

Taylor M. (2014 November 5) Food Safety in a Global Environment: Based on a Common Culture of intion and Verification Retrieved November 12, 2014, from

http://www.fda.gov/Food/GuidanceRegulation/FSMA/ucm421685 The World Health Bank. (2011). Retrieved November 2014, from http://www.worldbank.org

U.S. Department of Health & Human Services (2014 November 4) FDA Food and Safety Moder involution Act. Retrieved November 2014, from http://www.fda.gov/Food/GuidanceRegulation/FSMA/default.htm United States Department of Agriculture (2011 December) U.S. Food Safety Policy Enters a New Era. (E. R. Service, Producer) Retrieved November 6, 2014, from

http://www.ers.usda.gov/amber-waves/2011-december/us-food-safety-nolicy.aspx#.VFwlit5ePz1 Valdes, C. L. (n.d.). Brazil's Changing Food Demand Callengesthe Farm Sector. Retrieved November 6, 2014 from http://www.choices zine org/article nh?art World Health Organization. (n.d.). Retrieved November 12, 2014, from http://www.who.int

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 based 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"

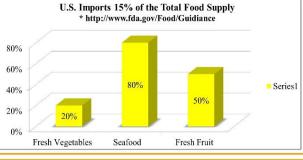
2011 FDA - Food Safety Modernization Act - Shifting from catching food safety problems to prevention across the food system.

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.



Sovbeans: 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)

Food and Agriculture Organization of the United Nations (n.d.) The EAO Strategic Objectives Retrieved November 12, 2014, from http://www.fno.org/about/en International Food Policy Research Institute (IFPRI). (n.d.), Retrieved November 2014, from Food socieconomic development perspectives: Mapping experience within the 1996 World Summit signatorics. Social Science & Medicine, 104, 74-79. Department of Health & Human Services . (n.d.). Food Stamp Program. Retri Security Portal: www.foodsecurityportal.org/Brazil ed Novo MacDonald M S (2001) Cattle sovanization and climate change. Retrieved November 12, 2014 Fearnside, P. (2002). Soybeancultivation as a threat to the environment in Brazil. doi:10.1017 so376892901000030 from www.brightergree.org/files/brazil bg pp 2011.pdf

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



Health Professions

Challenges with Interprofessional Teaching

- Different perspectives
 - See through different lenses
- Different teaching styles
- Experience with different student populations



Health Professions

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



