



11-3-2015

The Global Health "Interactive Curricula Experience (iCE) Platform & App": Technology that Enables Inter-professional Innovation

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Recommended Citation

Plumb, MD, MPH, James; Leon, PharmD, Nicholas; Hunter, PT, DPT, Louis N.; Ankeny, M.Ed, Martha Langley; Plumb, MD, Ellen; and Pilling, EdD, MPH, RN, Lucille B., "The Global Health "Interactive Curricula Experience (iCE) Platform & App": Technology that Enables Inter-professional Innovation" (2015). *College of Population Health Lectures, Presentations, Workshops*. Paper 44.

<http://jdc.jefferson.edu/hplectures/44>

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Presenter Disclosures

James Plumb MD, MPH

(1) The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

No Relationships to Disclose



Jefferson™

Thomas Jefferson University, located in Philadelphia, is dedicated to the health sciences and **community health** via education, research, and health services *to improve the health of the populations we serve.*



Background

Center for Teaching and Learning (CTL)

- Promotes teaching excellence and effective student learning through the use of advanced education techniques, effective information technologies, and models of best practices in order to foster creativity, collaboration, and innovation.
- The Center provides service to all Jefferson faculty, staff, and students, helping each achieve their goals in class and in practice.

About the *Interactive Curricula Experience (iCE)*

- The "interactive Curricula Experience (iCE) Platform & App" is an innovative technology that is timely and important for medical educators.
- It is a content management system that facilitates the organization and delivery of Jefferson-developed content for faculty.
- iCE provides a mechanism to rapidly create new learning objects/course content that can be accessed, used as is, or duplicated and modified by instructors for use in different courses.
- The courseware is available to students via iPad, as well as on laptop and desktop computers.
- It enables migration to new academic models with engaging content that encourages exploration.

Background

Global Health Initiatives Committee (GHIC)

- Serves the Jefferson community as the *point of engagement* for students & faculty interested in medical and public health issues that transcend national boundaries
- Creates an *institutional focus* on preparing students for public service careers in population health and public policy at local, national, and global levels

Goal

To enable all TJU faculty to:

- Deliver global health education, in a friendly, interactive format
 - Does not require an expert to deliver
 - Can be used in very small or large pieces depending on needs

iCE Dashboard Used to Develop a Global Health Module

- Built utilizing existing curricula and up-to-date evidence based research
- Utilizes multiple methodologies to draw attention to key issues, terminology, and information; these include: “watch and learn” animation, hot spots, meters, timelines, decision trees.
- Fluidly adapts and incorporates the newest information, crises, global summits, and events
- Monitored continuously and periodic quantitative and qualitative evaluations with instructors and students are planned.

Global Health in the Classroom: List of GHIC Modules

- **Intro to Global Health - Topics, History & Trends**
- The Role of Culture in Global Health
- **Using Medical Interpreters**
- Measuring Global Health
- **Social, Economic and Political Dimensions/Determinants of Global Health**
- Human Rights Dimensions of Global Health – Ethics, Health, Equity
- Healthcare Delivery Systems
- Global Health Policy
- **Communicable Diseases**
- **Non-communicable Diseases**
- **Women's and Children's Health**
- Nutrition and Mental Health
- The Global Response/Disasters
- Environmental Dimensions of Global Health




 **MY DASHBOARD**

 **SEARCH**

 **CLASSES**

 **MODULES**

 **TOPICS**

 **OBJECTS**

 **ICE HOME**

My Dashboard

Your dashboard shows you all content you have entered into iCE. If you wish to add a new collection or object, click the appropriate button.



ADD CLASS



ADD MODULE



ADD TOPIC



ADD OBJECT

Class

The screenshot shows an iPad app interface with a top status bar displaying 'iPad', signal strength, '11:14 AM', and battery level at '100%'. A yellow oval highlights the 'Home' icon and the 'LI 002: Global Health' course card. The left sidebar contains a list of course cards with icons and text. The main content area shows details for the selected course, including a title, instructor name, and a list of topics. To the right, there are several promotional cards for other programs and events.

Home

LI 002: Global Health
3 Modules Available

Introduction to Global Health
Martha Ankeny
Added 08/10/2015 | 7 Topics

Working with Medical Interpreters
Martha Ankeny
Added 08/10/2015 | 4 Topics

Non-communicable diseases
Martha Ankeny
Added 08/10/2015 | 1 Topic

MC Retreat 2015
Agenda and Information

NEW HFD Schedule
The HFD Schedule has been upgraded to reflect University closures due to the Papal visit. Changes affect Weeks 8, 9 and 10

A Deeper Dive into Cultural Competence
A collection of resources to help you on your journey

Cultural Empathy & Humility
Learn to think from a culturally empathetic perspective

Who Am I?
How to define yourself

Course List (Left Sidebar):

- Home
- Universal Search
- State Authorization 000
- Preventive Healthcare and Self-Care Issues PHARM 000
- Martha Ankeny- Staging Class LI 001
- LI 002: Global Health 002**
- International Students & Scholars OIA 100
- Meet iCE: Jefferson's Interactive Curricula ICE 101
- iCE Orientation and Training CTL 101
- iCE Workshop Materials ICE 102
- Denise Brown- Staging Class TEST 325
- Julia Ward- Staging Class TEST N...
- Telehealth Facilitator TFP

Module

The screenshot shows an iPad app interface with a top status bar displaying 'iPad', signal strength, '11:14 AM', and battery level at '100%'. The app has a blue sidebar menu on the left with icons for Home, Universal Search, and various course categories. The main content area is divided into several sections:

- LI 002: Global Health** (highlighted with a yellow circle):
 - Introduction to Global Health** by Martha Ankeny, Added 08/10/2015 | 7 Topics
 - Working with Medical Interpreters** by Martha Ankeny, Added 08/10/2015 | 4 Topics
 - Non-communicable diseases** by Martha Ankeny, Added 08/10/2015 | 1 Topic
- MC Retreat 2015** (purple header):
 - Introduction to Global Health** by Martha Ankeny, Added 08/10/2015 | 7 Topics
 - Working with Medical Interpreters** by Martha Ankeny, Added 08/10/2015 | 4 Topics
 - Non-communicable diseases** by Martha Ankeny, Added 08/10/2015 | 1 Topic
- NEW HFD Schedule** (yellow header):
 - The HFD Schedule has been upgraded to reflect University closures due to the Papal visit. Changes affect Weeks 8, 9 and 10.
- A Deeper Dive into Cultural Competence** (blue header):
 - A collection of resources to help you on your journey.
- Cultural Empathy & Humility** (orange header):
 - Learn to think from a culturally empathetic perspective.

The sidebar menu includes the following items:

- Home
- Universal Search
- State Authorization (000)
- Preventive Healthcare and Self-Care Issues (PHARM 000)
- Martha Ankeny- Staging Class (LI 001)
- LI 002: Global Health** (LI 002)
- International Students & Scholars (OIA 100)
- Meet iCE: Jefferson's Interactive Curricula (iCE 101)
- iCE Orientation and Training (CTL 101)
- iCE Workshop Materials (iCE 102)
- Denise Brown- Staging Class (TEST 325)
- Julia Ward- Staging Class (TEST N...)
- Telehealth Facilitator (TFP)

Topic

The screenshot shows an iPad interface for a course titled "LI 002: Global Health". The top status bar shows "iPad", "11:45 AM", and "98%" battery. The app header includes a home icon, the course title "LI 002: Global Health", and the page title "Introduction to Global Health". A sidebar on the left lists various topics, with "LI 002" highlighted in orange. The main content area features a blue header with the text "Introduction to Global Health" and a sub-header "GLOBAL HEALTH?". Below this, there is a paragraph starting with "an economic and social development. The health of each of us is linked to the health of all of". A video player shows a person holding a sign that reads "Why do you care about global healthcare? I CARE BECAUSE...". Below the video is a link to "IHME U.S. Health Map" and a link to "A daily summary of global health policy news produced by Kaiser Family Foundation". The Kaiser Family Foundation logo is visible at the bottom right.

iPad 11:45 AM 98%

LI 002: Global Health Introduction to Global Health

Introduction to Global Health
Martha Ankeny
Added 08/10/2015 | 7 Topics

Working with Medical Interpreters
Martha Ankeny
Added 08/10/2015 | 4 Topics

Non-communicable diseases
Martha Ankeny
Added 08/10/2015 | 1 Topic

definition

Global Health

Global" signifies a
not only to improving
o to achieving true
n and among peoples.
interest in
health issues and
rdisciplinary study, and

Why Do you Care About Global Health?
I CARE BECAUSE...

IHME U.S. Health Map

A daily summary of global health policy news produced by Kaiser Family Foundation

KAISER

Topics

The Multiple Determinants of Global Health

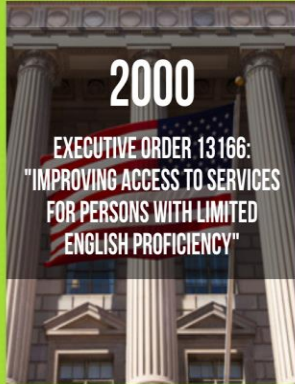
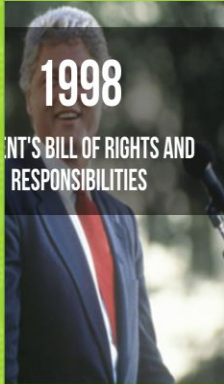
<https://ice.jefferson.edu/node/4789>

Communicable Disease

<https://ice.jefferson.edu/node/1204>

Linear “Timeline” Object

FEDERAL MANDATES



EXECUTIVE ORDER 13166:
"IMPROVING ACCESS TO
SERVICES FOR PERSONS WITH
LIMITED ENGLISH PROFICIENCY"

Requires federal agencies that provide federal financial assistance to develop guidance to clarify the language access obligations of recipients of such assistance.

http://www.lep.gov/faqs/faqs.html#Two_EO13166_FAQ



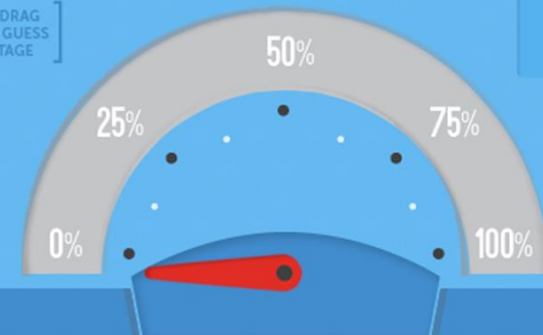
Working with Medical Interpreters

Meter Object

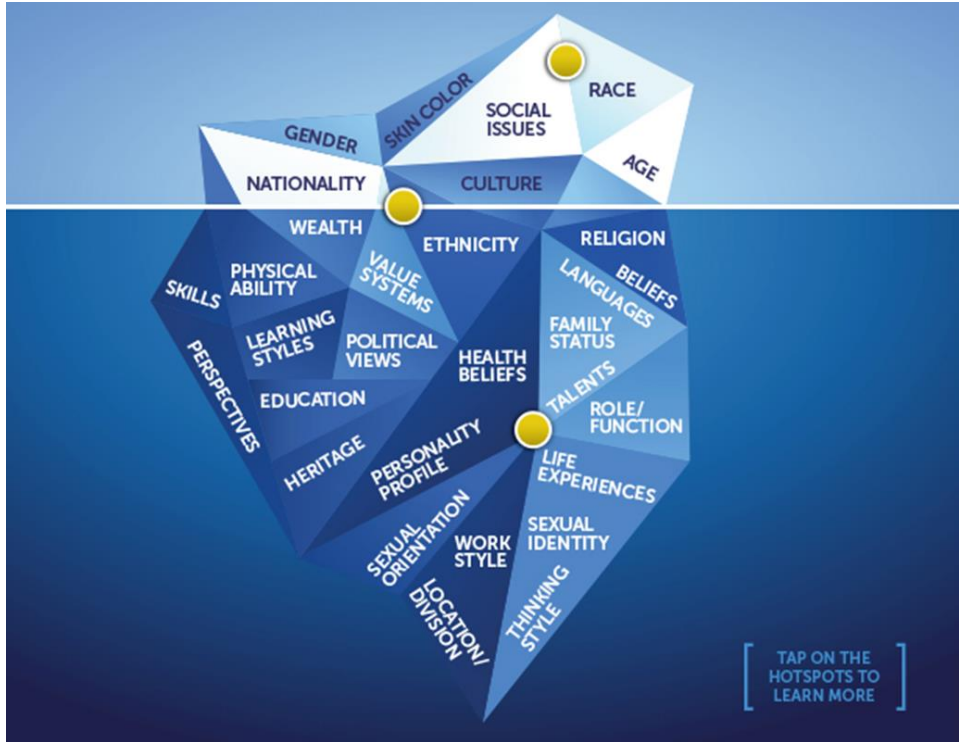
WHAT PERCENTAGE OF THE ENTIRE POPULATION IN THE U.S. (ABOVE THE AGE OF 5) SPEAKS A LANGUAGE OTHER THAN ENGLISH AT HOME?

TAP AND DRAG METER TO GUESS PERCENTAGE

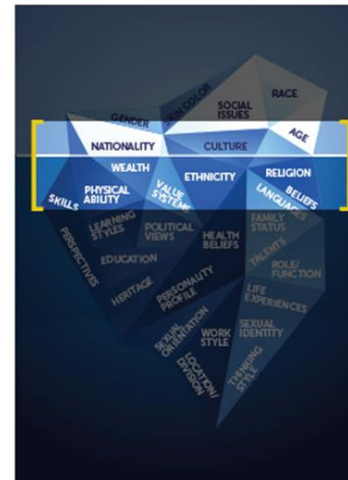
0 %



Hotspot Object



PRESUMPTIVE CULTURE



This layer of culture presents attributes that may seem readily observable but much of the meaning is not explicitly apparent without interaction and inquiry. It includes concepts like:

- Nationality
- Physical Ability
- Ethnicity
- Wealth
- Social Status
- Culture
- Religion
- Living Environment

This layer is partially observable and may lead to assumptions that support unconscious stereotypes. Example: This person is dressed in old clothing and therefore must be poor.

Cultural Empathy and Humility

Next Steps and Challenges

- Entire module could be used in a classroom “lecture”
- A particular topic(s) and/or object(s) within a module could be used in the classroom to be incorporated into something one already does
- Could post module (or any combination of its components) in Blackboard Learn for students to use for an assignment or as a study aid
- Use a module and add discipline-specific content to it
- Combine different components (topics and objects) to form your own module
- The ongoing challenge is having to continuously update the information.
- Faculty monitor websites and review relevant articles, reports, conferences, webinars and post them to iCE modules.