

Pathways to Progress: Current and Future Trends of Blended Learning and Public Health Education

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What we will cover

- i. Basics of blended learning
- ii. Blended learning in public health education
- iii. Our study of public health educators in higher education
- iv. Wrap-up

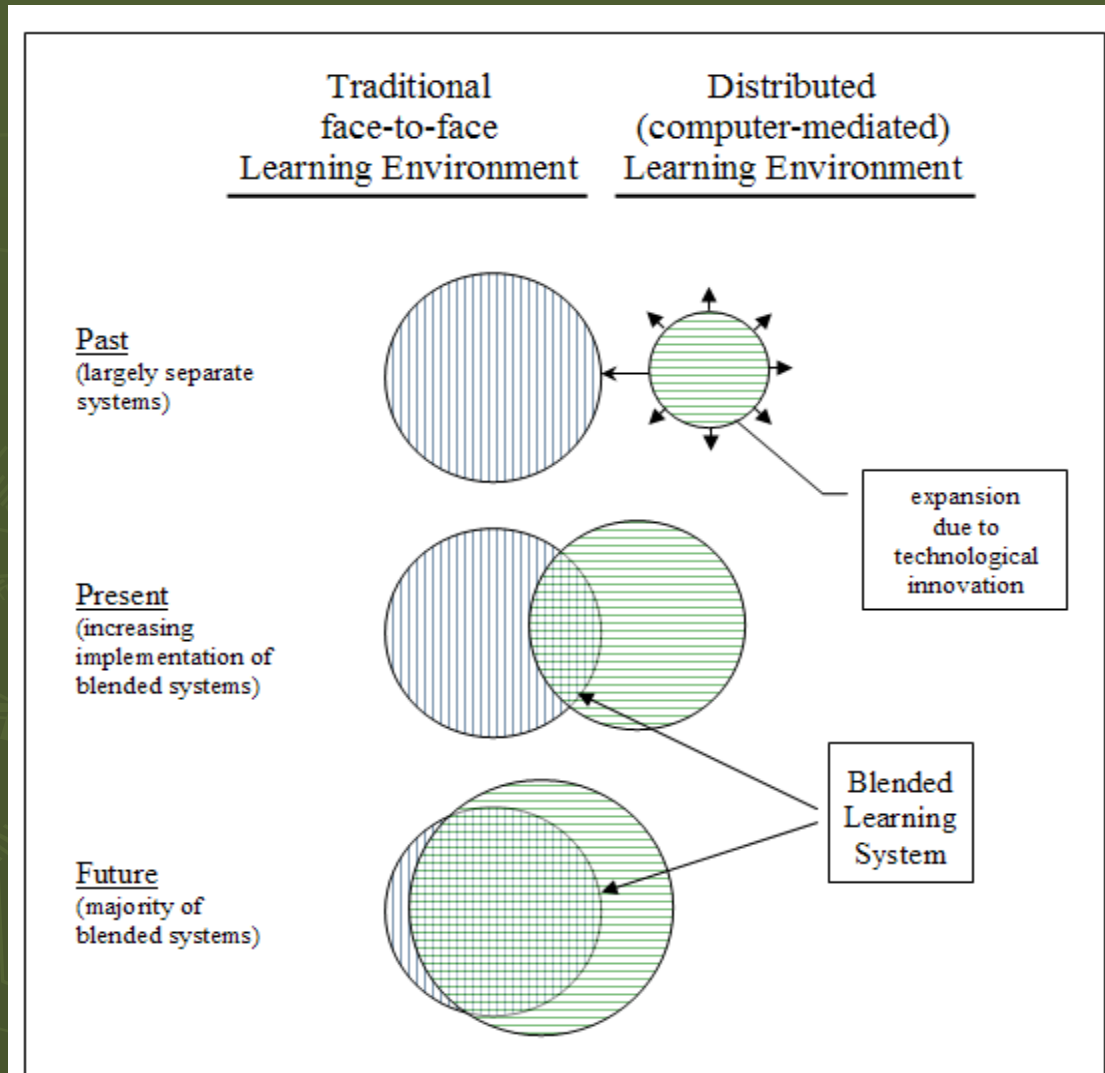


Part I: Basics of Blended Learning

- ▶ “Blended learning refers to events that combine aspects of online and face-to-face instruction” (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)



Historical Emergence of Fully Online and Blended (Graham, 2006)



The Sloan Consortium

(2003). Sizing the Opportunity: The Quality and Extent of Online Education in the U.S., 2002 and 2003

http://www.sloan-c.org/resources/sizing_opportunity.pdf

Proportion of content delivered online	Type of Course	Typical Description
0%	Traditional	Course with no online technology used - content is delivered in writing or orally.
1 to 29%	Web facilitated	Course which uses web-based technology to facilitate what is essentially a face-to-face course. Might use Blackboard or WebCT to post the syllabus and assignments, for example.
30 to 79%	Blended/Hybrid	Course that is a blend of the online and face-to-face course. Substantial proportion of the content is delivered online, typically uses online discussions, typically has some face-to-face meetings
80+%	Online	A course where the vast bulk of the content is delivered online. Typically has no face-to-face meetings.

Models of Blending



Blending occurs at the following four levels:



Fully Online and **Blended** Learning Advantages

1. **Increased Learning**
2. More effective pedagogy and interaction
3. **Course access at one's convenience and flexible completion**
4. Reduction in physical class or space needs, commuting, parking
5. **Increased opportunities for human interaction, communication, & contact among students**
6. **Introverts participate more**



Part II: Blended learning in public health education

□ Current examples



Blended learning Ex 1: Health-related news

The screenshot shows the CDC website in Microsoft Internet Explorer. The browser's address bar displays <http://www.cdc.gov/>. The website header includes the CDC logo and the tagline "Your Online Source for Credible Health Information". Navigation options for "CDC en Español" and "Tagalog" are available, along with a "Text Size" control.

The main content area features a large banner for "MRSA in Schools" with the subtitle "Preventing the Spread of Skin Infections" and a "GO" button. To the right of the banner is a vertical menu with links to "Wildfires", "MRSA in Schools", "Pet Reptiles", "Global Poverty", and "Safety".

Below the banner is the "Health & Safety Topics" section, which is organized into a grid of six categories, each with an icon and a list of related conditions or topics:

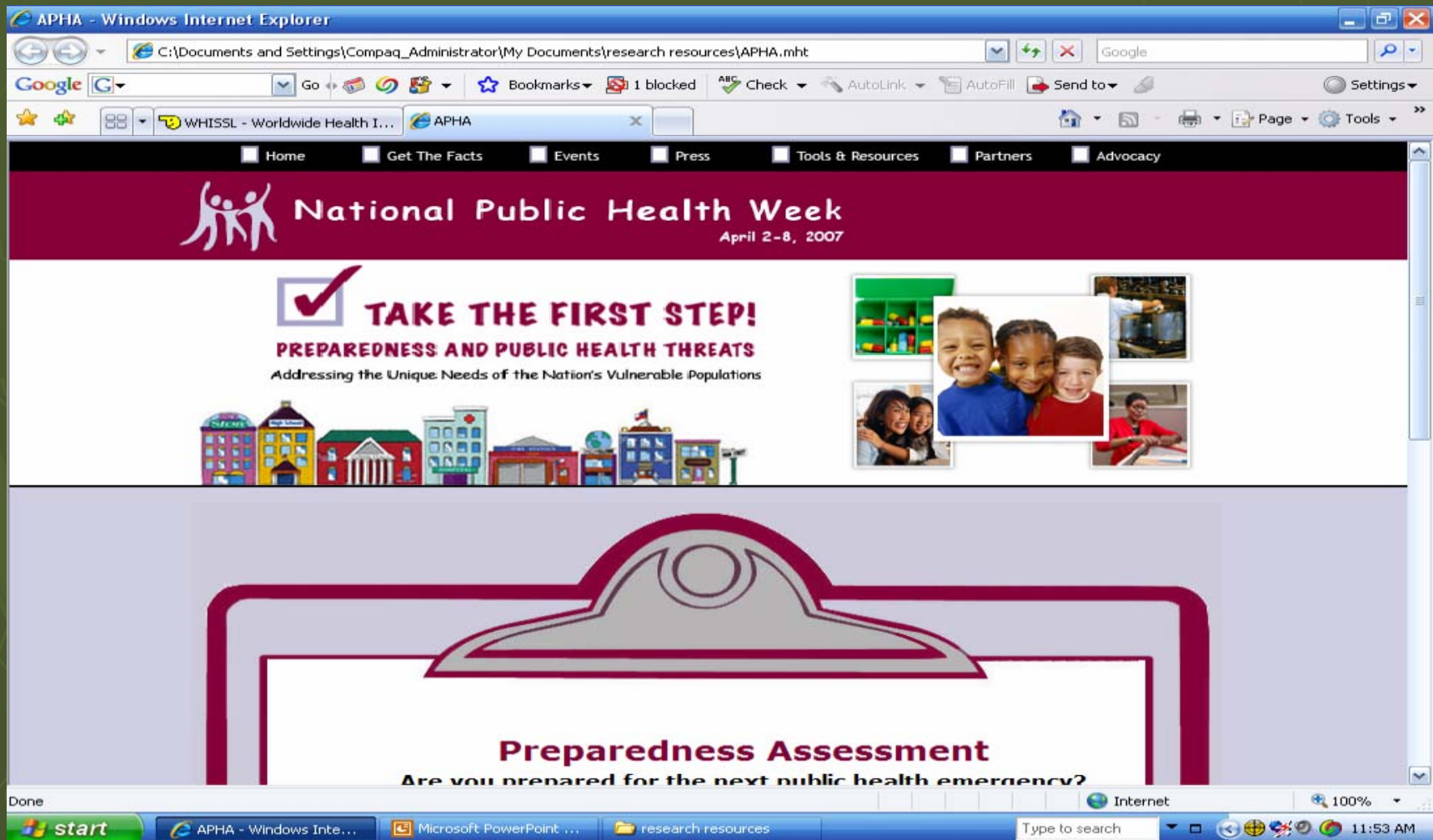
- Diseases & Conditions:** ADHD, Birth Defects, Cancer, Diabetes, Fetal Alcohol Syndrome, Flu, Hepatitis, HIV/AIDS, STDs...
- Healthy Living:** Bone Health, Physical Activity, Immunizations, Genetics, Sexual Health, Smoking Prevention...
- Emergency Preparedness & Response:** Bioterrorism, Chemical & Radiation Emergencies, Outbreaks, Severe Weather...
- Injury, Violence & Safety:** Brain Injury, Child Abuse, Falls, Fires, Food Safety, Poisoning, Suicide, Youth Violence...
- Environmental Health:** Air Pollution, Carbon Monoxide, Lead, Mold, Water Quality, Climate Change...
- Travelers' Health:** Destinations, Outbreaks, Travel Vaccinations, Yellow Book...
- Life Stages & Populations:** Infant & Child, Men, Minorities, Pregnancy, Seniors, Women...
- Workplace Safety & Health:** Asbestos, Chemical Safety, Construction, Mining, Office Environments, Respirators...

The "DATA & STATISTICS" section features a bar chart titled "Percentage of States That Require Schools to Prohibit Offering Junk Foods* in School Settings, 2000 and 2006". The chart compares three categories: "A la carte during breakfast or lunch periods", "School stores, canteens, or snack bars", and "Vending machines". The data shows an increase in the percentage of states requiring prohibition from 2000 to 2006 across all categories.

The "NEWS & EVENTS" section includes a link to "Water Conservation at CDC Acting as responsible stewards of the environment" and "Laboratory Safety and The Select Agent Program CDC experts appear at House hearing".

The browser's taskbar at the bottom shows several open applications: "Start", "Public Health Grand Roun...", "Centers for Disease C...", "APHA Presentation Dr V", "Presentation2", and "Presentation3". The system clock indicates the time is 1:19 PM.

Blended learning Ex 2: Online Public Health Surveys



Blended Learning Ex 3: Accredited Distance Learning Courses and Programs

The screenshot shows a Windows Internet Explorer browser window displaying the ASPH website. The address bar shows the URL <http://www.asph.org/document.cfm?page=718>. The page title is "ASPH | education, academic public health, education, graduate, employment, fellowships, interns". The main content area features a purple header with the ASPH logo and a navigation menu on the left. The central heading is "Distance Learning Programs Available at Accredited SPH". Below this heading is a row of five images: a satellite dish, Earth from space, a computer keyboard, a hand holding a CD, and a hand using a mouse. The text below the images states: "Many of the accredited schools of public health offer full master's degrees or certificate programs via [distance learning](#) modalities." A call to action says "You can find current offerings on ASPH's [Search Engine!](#)" with a small globe icon. A list of links includes "Centers for Public Health Preparedness Resource", "Public Health Training Centers' Distance Education Opportunities", "ASPH/March of Dimes Folic Acid Education Project", and "Additional Resources". A feedback form link is also present. The browser's taskbar at the bottom shows the Start button, several open applications, and the system clock at 11:47 AM on October 27, 2007.

ASPH | education, academic public health, education, graduate, employment, fellowships, interns - Windows Internet Explorer

http://www.asph.org/document.cfm?page=718

Google

ASPH | education, academic public health, education, ...

ASSOCIATION OF SCHOOLS OF PUBLIC HEALTH
Association of Schools of Public Health

welcome to [asph.org](#)
good afternoon | saturday, october 27 | 2:47p eastern

Distance Learning Programs Available at Accredited SPH

Many of the accredited schools of public health offer full master's degrees or certificate programs via [distance learning](#) modalities.

You can find current offerings on ASPH's [Search Engine!](#)

Information on other distance learning training opportunities can be found on these ASPH web pages:

- [Centers for Public Health Preparedness Resource](#)
- [Public Health Training Centers' Distance Education Opportunities](#)
- [ASPH/March of Dimes Folic Acid Education Project](#)
- [Additional Resources](#)

To help us improve our distance learning web pages please complete this [four-question feedback form](#). Your input is voluntary and will be anonymous.

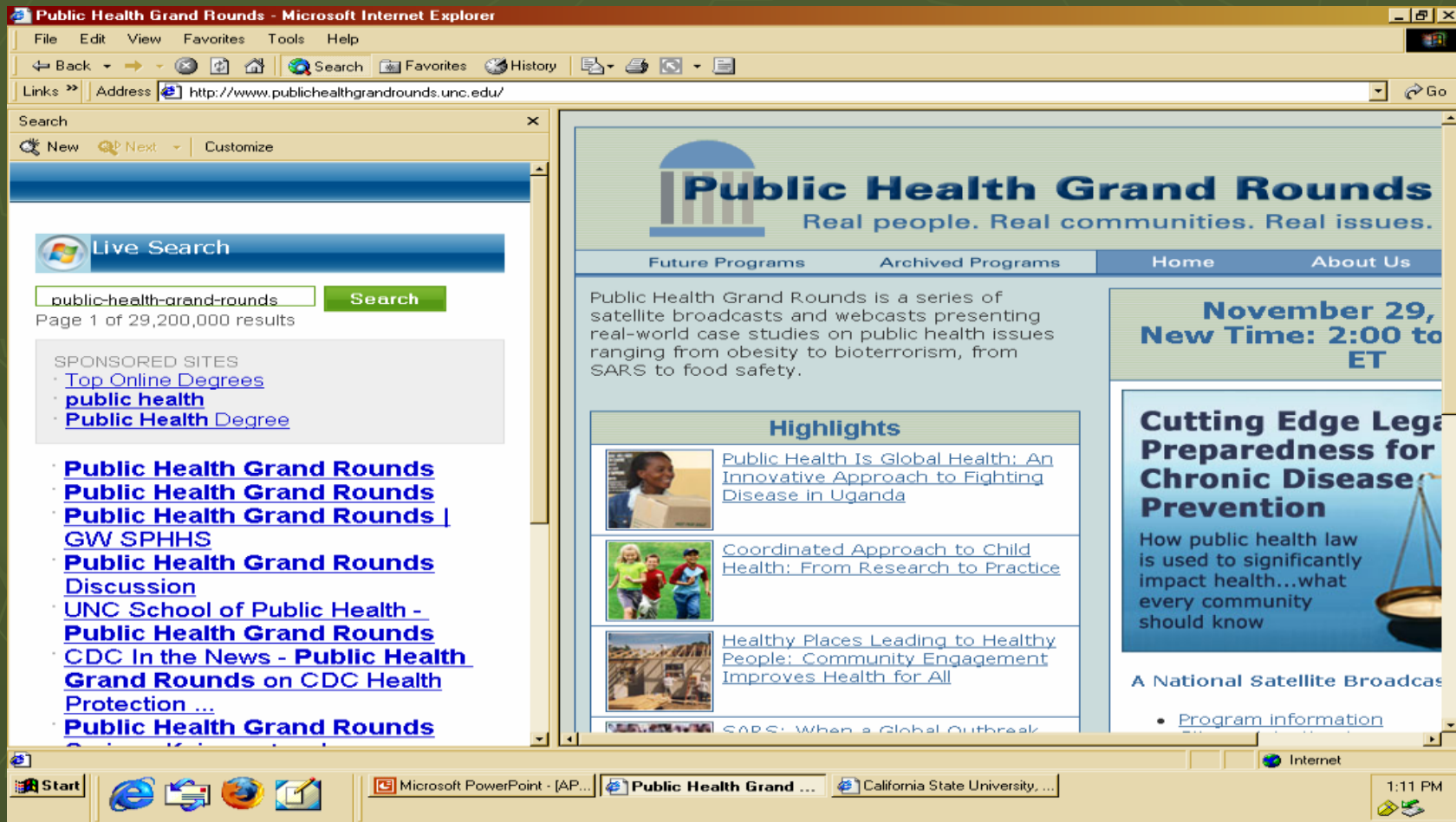
Information on the public health distance learning program search page is updated by the Academic Distance Learning Coordinator at each school of public health using the [site administration page](#). Information about this webpage is available through ASPH staff member [Cillia Silver at \[csilver@asph.org\]\(mailto:csilver@asph.org\)](#)

Go Back
Print this page
E-mail this page

http://www.asph.org/index.cfm

start ASPH | education, ac... Microsoft PowerPoint ... Type to search 11:47 AM

Blended Learning Ex 4: Webcasts, podcasts, and videostreams



Blended Learning Ex 5: Online open education Resources

The screenshot shows the MERLOT website in a Windows Internet Explorer browser window. The browser's address bar displays the URL <http://www.merlot.org/merlot/index.htm>. The website's header features the MERLOT logo and a search bar with a "GO" button. Below the header is a navigation menu with tabs for Home, Communities, Learning Materials, Member Directory, My Profile, and About Us. The main content area is divided into several sections: a "Welcome to MERLOT" banner with a "Take A Tour of the new MERLOT" button; a "Browse the Collection" sidebar with a list of disciplines; a "Visit a Discipline Community" section with a grid of disciplines; an "Exploring MERLOT" section with icons for Learning Materials, Colleagues, Personal Collections, and Assignments; and a "Log In" section with fields for Username and Password, a "Remember Me" checkbox, and a "Log In" button. A sidebar on the right promotes membership and participation, stating "Become a Member today! Membership is FREE" and "Participate As a Member you can:". The bottom of the browser window shows the Windows taskbar with the Start button, open applications (MERLOT - Multimedia..., Microsoft PowerPoint...), and the system tray with the time 11:24 AM.

MERLOT - Multimedia Educational Resource for Learning and Online Teaching - Windows Internet Explorer

http://www.merlot.org/merlot/index.htm

Google

MERLOT - Multimedia Educational Resource for Learning and Online Teaching

MERLOT
Multimedia Educational Resource
for Learning and Online Teaching

Search Materials: **GO**
advanced search | search more digital libraries

Home Communities Learning Materials Member Directory My Profile About Us

Take A Tour of the new MERLOT

Welcome to MERLOT
Putting Educational Innovations Into Practice
Find peer reviewed online teaching and learning materials. Share advice and expertise about education with expert colleagues. Be recognized for your contributions to quality education.

Browse the Collection

- Arts
- Business
- Education
- Humanities
- Mathematics and Statistics
- Science and Technology
- Social Sciences

[View category index](#)

What's New in MERLOT

News & Announcements

17876 materials,
167 recently added
52365 members,
1224 recently joined

[Show more](#)

Visit a Discipline Community
Find discipline expertise and online curricula to help you advance your career.

- Biology
- Business
- Chemistry
- Criminal Justice
- Engineering
- Faculty Development
- Fire Safety
- Health Sciences
- History
- Information Technology
- Mathematics
- Music
- Physics
- Psychology
- Statistics
- Teacher Education
- World Languages

Exploring MERLOT

- Learning Materials**
Browse peer reviewed online learning materials in your discipline.
- Colleagues**
Find expert colleagues in your discipline.
- Personal Collections**
View personal collections from people in your discipline.
- Assignments**
Get assignments you can use with your students.

Log In

Username: [Forgot username?](#)

Password: [Forgot password?](#)

Remember Me **Log In**

Become a Member today!
Membership is FREE

Participate

As a Member you can:

- Contribute learning materials
- Create a personal collection
- Develop a personal profile
- Share your online expertise
- Receive peer recognition

Become a Campus, System, Corporate or Institutional Partner

MERLOT
International Conference
Minneapolis
August 7-10, 2008

MERLOT

start MERLOT - Multimedia ... Microsoft PowerPoint ... Internet 100% Type to search 11:24 AM

Blended Learning Ex 6: OpenCourseWare Public Health Examples

OCW Home | Tufts University

TuftsOpenCourseWare

SEARCH

SCHOOLS | COURSE LIST | ABOUT OCW | HELP | FEEDBACK | CONTACT US

> [OCW Home](#)

IDP200 Pathophysiology of Infectious Diseases, Fall 2004/2005



Mosquito-borne disease. (Image courtesy of CDC.)

Course Faculty

- Susan Hadley
- Michael Barza
- Shenwood Gorbach
- Linden Hu
- Laura Kogelman
- Debra D. Poutsika
- John Ross
- David Snyderman
- Chelete Thome

[Course Home](#)

- [Syllabus](#)
- [Calendar](#)
- [Lectures](#)
- [Exams and Quizzes](#)
- [Readings](#)
- [Cases](#)


[Feedback](#)

JHSPH OPEN COURSEWARE
JOHNS HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH

INVEST IN OPEN COURSEWARE | JHSPH HOME | OCW HOME | ABOUT OCW | HELP | FEEDBACK

JHSPH OpenCourseWare >> International Nutrition

222,649.01 International Nutrition



Staff
Instructors:
Keith West and
Parul Christian

Originally Offered:
Spring 2005

Feedback
Send [feedback](#)
about OCW or this
course.

Description
Presents major nutritional problems that influence the health, survival, and developmental capacity of populations in developing societies. Covers approaches

Search

- [Home](#)
- [Syllabus](#)
- [Schedule](#)
- [Readings](#)
- [Lecture Notes](#)
- [Other Resources](#)

Blended Learning Ex 7: Open access library resources

Subject List - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Links » Address <http://www.nlm.nih.gov/hsrinfo/hsrsites.html> Go

United States
National Library of Medicine
National Institutes of Health

Search NLM Web Site
Go
NLM Home | Contact NLM | Site Map | FAQs

National Information Center on Health Services Research and Health Care Technology (NICHSR)

NICHSR Home | About Us | Contact Us

Home > Health Services Research & Public Health > Home HSR Info

HSR News | About HSR Info Central | Suggest a Link

HSR Information Central

Literature and Guidelines

Data Tools and Statistics

Grants and Funding

Legislation

Training and Education

Meetings and Conferences

Discussion and E-mail Lists

Alphabetic List - All Web sites in alphabetic order

Subject List - Web sites by other categories including: Health Economics, Rural Health, and State Resources

Subject List

Web sites by other categories including:
Health Economics, Rural Health,
and State Resources

[Federal Agencies](#) | [Associations](#) | [Data Sets and Data Sources](#) | [Epidemiology and Health Statistics](#) | [Evidence Based Medicine and Health Technology Assessment](#) | [Funding](#) | [Health Policy and Health Economics](#) | [Informatics](#) | [Public Health](#) | [Rural Health](#) | [State Resources](#) | [Disparities](#)

- [Cancer Research Network \(CRN\)](#) - (National Cancer Institute, NIH (NCI)) - The CRN consists of research programs, enrolled populations, and data systems of 12 health maintenance organizations nationwide. The goal of the CRN is to conduct research on cancer prevention, early detection, treatment, long-term care and surveillance.
- [National Cancer Institute Support and Resources](#) - (National Cancer Institute, NIH (NCI)) - Provides general support information for those with cancer, lists support organizations, details information about finances and insurance, and offers information about hospices and home care, and support for children with cancer.
- [Quality of Cancer Care](#) - (National Cancer Institute, NIH (NCI)) - Describes NCI's areas of research in quality of care and the initiatives being carried out in order to enhance the state of the science on the quality of cancer care and inform federal and private-sector decision making on care delivery, coverage, regulation, and standard setting.

Start | Internet | 3:48 PM

Public Health Grand Roun... | Subject List - Microso... | Microsoft PowerPoint - [Pr...

Blended learning Ex 8: E-books and other virtual documents

Disaster Response: Principles of Preparation and Coordination - Windows Internet Explorer

C:\Documents and Settings\Compaq_Administrator\My Documents\research resources\Disaster Response Principles of Prep

Google

Go

Bookmarks

1 blocked

Check

AutoLink

AutoFill

Send to

Settings

WHISSL - Worldwide Health I...

APHA

Disaster Response: Princi...

Home

Page

Tools

Disaster Response

Principles of Preparation and Coordination

Chapters: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) Appendixes: [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [Index](#)

Welcome to the Disaster Response online book

The widely popular Disaster Response: Principles of Preparation and Coordination by Erik Auf der Heide is out of print but, by special arrangement with the author, it can be viewed in its entirety online.

[Copyright](#) [Foreward](#) [Preface](#) [Acknowledgements](#) [References](#)

Text by Erik Auf der Heide

Online edition designed by the Center of Excellence in Disaster Management & Humanitarian Assistance

[Index](#) | [1](#) | [2](#) | [3](#) | [4](#) | [5](#) | [6](#) | [7](#) | [8](#) | [9](#) | [10](#) | [A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [Foreward](#) | [Preface](#) | [Acknow](#) | [Refs](#)

Internet 100%

start

Disaster Response: P...

Microsoft PowerPoint ...

research resources

Type to search

11:54 AM

Blended Learning Ex 9: Health-related simulations

WHISSL - Worldwide Health Information System Simulation Linkage - Windows Internet Explorer

http://whissl.utmb.edu/WHISSL/index.asp

Google

WHISSL - Worldwide Health Information System Simul...

WORLDWIDE HISS LINKAGE

Health Information System Simulation
The Worldwide Linkage

UTMB

[Home](#)
[Cases](#)
[EPR](#)
[New](#)
[Evaluation](#)
[How to Use](#)

The case of Anthony Riker, which is based on the movie *Hat for Tad* is available for use. Click on the link for the further information.

Healer is shooting and daily updates are available.

WHISSL Workshops
Five WHISSL workshops have been held over the last year. They were held on the UTMB campus, at the University of Arkansas for Medical Sciences, University of Cincinnati, University of Texas Health Sciences Center in Houston, and in Austin as part of the Innovations in On-line Education Conference sponsored by the UT TeleCampus.

Workshop Guide: A sample workshop guide is available. You need to set your browser to allow pop-ups from this site, because the links on this page, and others elsewhere on this site, are pop-ups.

Seminar Guide from the May 12, 2006 Advanced Geriatric Seminar is still available. This interactive seminar used two WHISSL cases as the basis for a live, videoconferenced discussion between five sites in East Texas. Sponsored by the UTMB East Texas Geriatric Education Center.

Become a Registered User of WHISSL
Click on the rocket icon on the right. Register if you would like to create your own.

start WHISSL - Worldwide ... Microsoft PowerPoint ... Type to search 100% 11:52 AM

Blended learning Ex 10: Educational simulations and role-play



U.N. Food Force, called the first humanitarian game, simulates problems of getting supplies to wartime refugees.



Terrorist Bus Bombing is a virtual-reality tool to help psychotherapists treat survivors of actual terrorist attacks.

Blended Learning Ex 11: Exploring virtual worlds (ex. Second Life)

CDC - About CDC Second Life - Windows Internet Explorer

http://www.cdc.gov/about/stateofcdc/everywhere/secondLife.htm

Centers for Disease Control and Prevention
Your Online Source for Credible Health Information

About CDC

- About CDC Home
- CDC Leadership
- CDC Organization
- Health Protection Goals
- News and Events
- State of CDC**
 - Everyone
 - Everyday
 - Everywhere
- Opportunities at CDC
- Business Practices
- Our History
- Advisory Committees
- More About CDC
- Site Map

About CDC > State of CDC > Everywhere

Goal 4: Healthy People in a Healthy World

Everywhere

"Second Life" Lets CDC Be Everywhere—All at Once

Just as CDC has rebuilt its bricks-and-mortar Atlanta headquarters to meet the needs of the future, the agency has also opened shop in a location a bit harder to find on any map. In August 2006, CDC set up its first test site for sharing public health information in an online, "cyber community." The community is named Second Life and has more than 3.3 million members. CDC's member of this community is named Hygeia Philo ("lover of health"). And just like CDC staff, Hygeia is the virtual public health worker in this "virtual

CDC en Español Italiano

SEARCH

CDC A-Z Index

A	B	C	D	E	F	G	H	I
J	K	L	M	N	O	P	Q	R
S	T	U	V	W	X	Y	Z	#

Email this page
 Printer-friendly version
Text Size:
 Get Email Updates
 Podcasts
 RSS

HOT LINKS

- [Acerca de los CDC \(Spanish\)](#)
- [Visit CDC](#)
- [Contact CDC](#)
- [Employment](#)
- [The State of CDC](#)
- [Mission and Vision](#)
- [CDC Speakers Bureau](#)

CONFERENCES & EVENTS

- [CDC's Global Health Odyssey](#)
- [The End of Polio: Photographs of Sebastião Salgado](#)

start | CDC - About CDC Sec... | Microsoft PowerPoint ... | Type to search | 100% | 11:21 AM

Blended Learning Ex 12: Procedure Games

The screenshot shows a Windows Internet Explorer browser window displaying the 'The POD Game' website. The browser's address bar shows the URL: C:\Documents and Settings\Compaq_Administrator\My Documents\Shirley - PH projects\LBHD - Risk Communications\online. The website has a navigation menu with 'Home', 'Learn', 'Play', 'Deploy', and 'About Us'. The main content area features the 'the POD game' logo and a game interface. The interface includes a character in a video window, a list of questions, and a resource table. The Windows taskbar at the bottom shows the Start button, open applications, and system tray.

	TOTAL	
ADULT BOTTLE(s)	-1	+1
PEDIATRIC BOTTLE(s)	-1	+1
DOSING SYRINGE(s)	-1	+1
BOTTLE ADAPTORS(s)	-1	+1

You are about to be transported into the middle of a drug dispensing center will all the distractions of a frightened and confused public. Stay calm and focused as you get as many people

Blended Learning Ex 13: Public health portals for supplemental educational or training activities

www.health.gov is a portal to the Web sites of a number of multi-agency health initiatives and activities of the [U.S. Department of Health and Human Services \(HHS\)](#) and other Federal departments and agencies.

Creating a Culture of Wellness: 2007 National Prevention and Health Promotion Summit
November 27-29, 2007 · Hyatt Regency Capitol Hill · Washington, D.C.

General Health Information

- [healthfinder.gov](#) — [Daily Health News](#), [Reliable Health Information](#), [Consumer Health Information Search](#), and [Online Checkups](#)
- [National Health Information Center](#)
- [National Women's Health Information Center](#)
- [MedlinePlus®](#)
- [2007 National Health Observances](#)
- [2007 Federal Health Information Centers](#)
- [2007 Toll-Free Numbers for Health Information](#)

Special Initiatives

- [HealthierUS.gov](#)
- [Healthy People 2010](#)

Health News

- [Clinical Trials Update: Oct. 26, 2007](#)
- [Survey Finds Many Women Misinformed About Cancer](#)
- [Some Female Athletes Risking Weaker Bones](#)
- [More Health News >>](#)
- [Get Health News by E-mail >>](#)
- [Noticias en Español >>](#)

Federal Agencies

- [U.S. Department of Health and Human Services \(HHS\)](#)
- [HHS Agencies](#)
- [Office of Public Health and Science](#)
- [Office of the Surgeon General](#)
- [Other Key Government Agencies With Direct Health](#)

Part III: A Study of Public Health Educators

- ▶ The purpose of this study was to examine public health educators' perceptions about current and future trends in blended learning.



Research online learning in public health education

- ▶ Online learning **supports the exchange of communication between students and faculty** (according to J. McKimm, C. Jollie, and P. Cantillon, 2003).
- ▶ Online learners **retained twice as much knowledge as classroom learners** (according to study by C. M. Schart and J. Garrison, 2002).
- ▶ RNs using a web-based course **found the experience meaningful and more convenient** (according to study by L. Atack and J. Rankin, 2002).

Method

- ▶ This study was conducted via an online survey service, SurveyShare.
- ▶ A nationwide random sample of Public Health educators was surveyed.



Instrument

- ▶ An online questionnaire was developed consisting of three categories:
 1. Demographic information
 2. Current status of online learning at respondents' organizations
 3. Predictions about online teaching and learning in public health education

Data Collection and Analysis

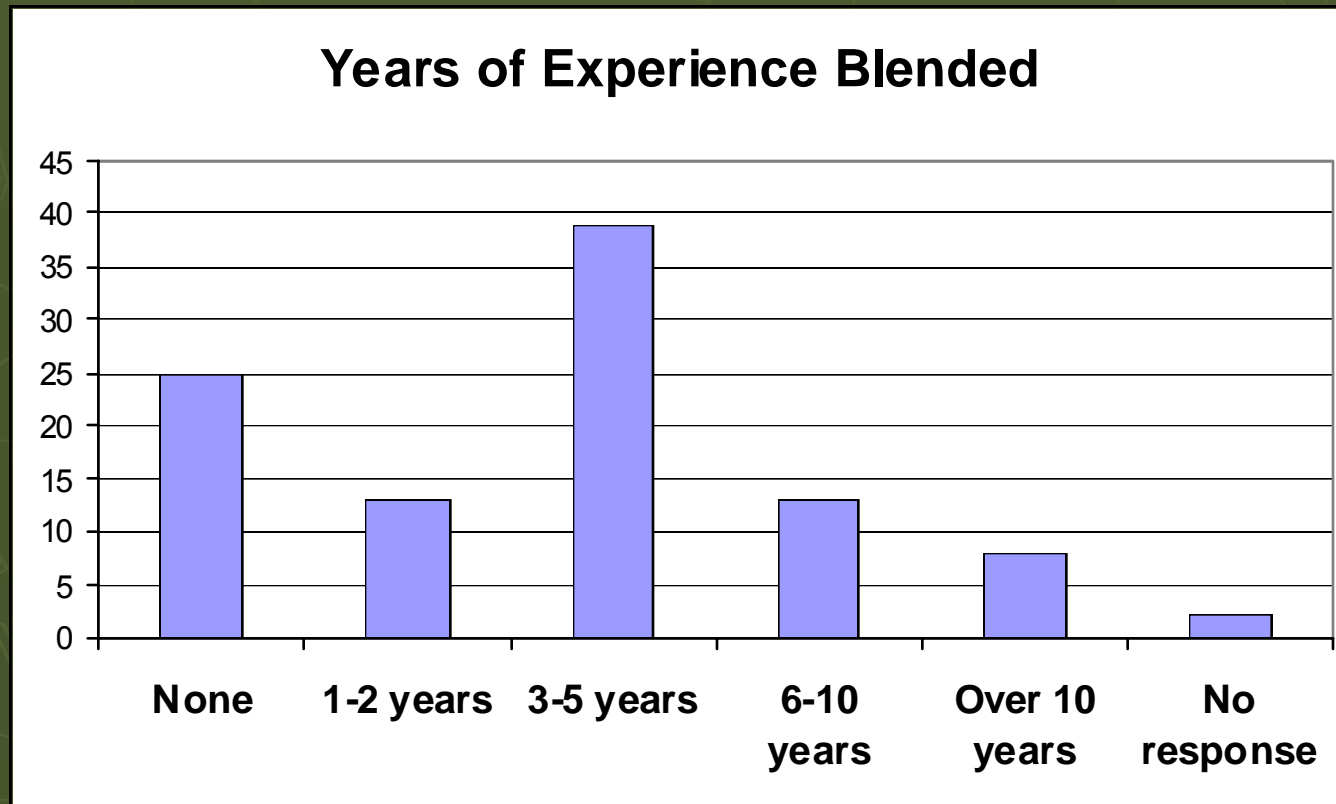
- ▶ Invitation was sent by e-mail to the sample of public health educators.
- ▶ 51 individuals completed the confidential survey.
- ▶ Descriptive data analysis was conducted using the data analysis tool provided on the online site.

Demographics

- ▶ Nationwide survey
- ▶ Gender
 - 51% were female
 - 49% were male
- ▶ Experience of integrating technology tools
 - 24% had 3-5 years
 - 37% had 6-10 years
 - 27% had more than 10 years
- ▶ Required training for online courses
 - 47% yes
 - 53% no
- ▶ Department offers fully online courses
 - 82% yes
 - 18% no

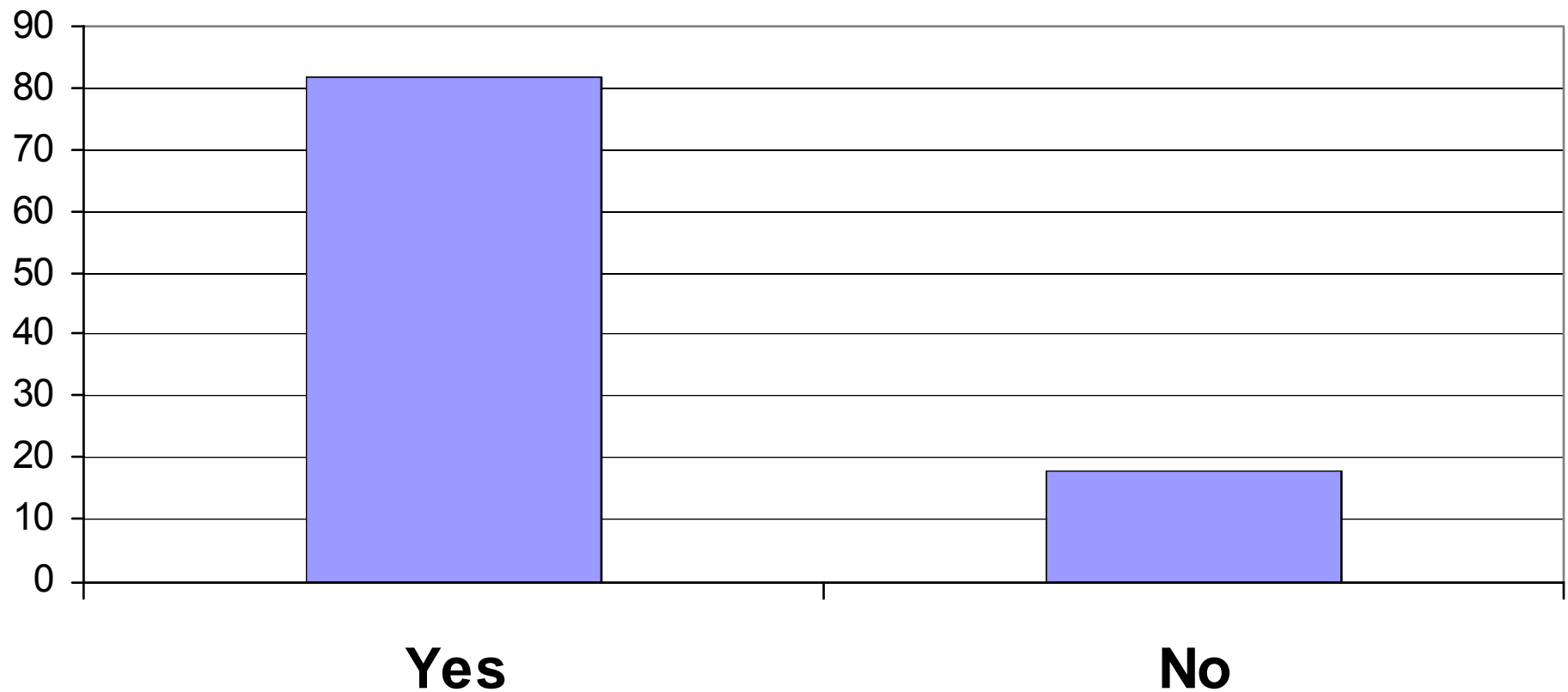
Experience with Technology

- ▶ How much experience do you have in teaching blended learning courses?



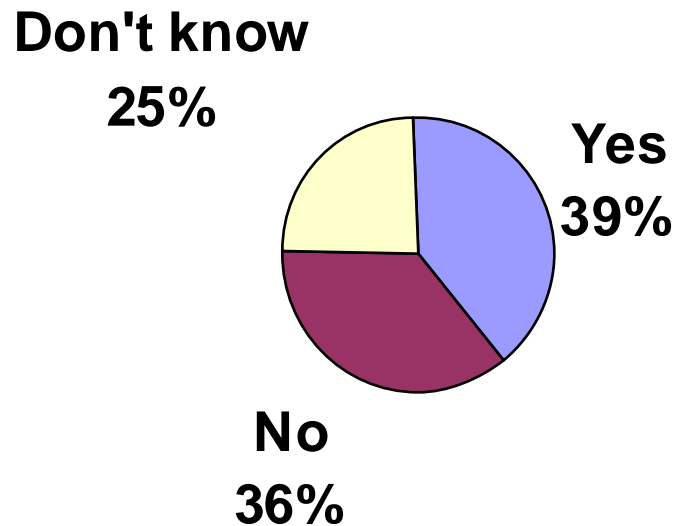
Organization teaching online?

Does your department or program currently offer any fully online course?



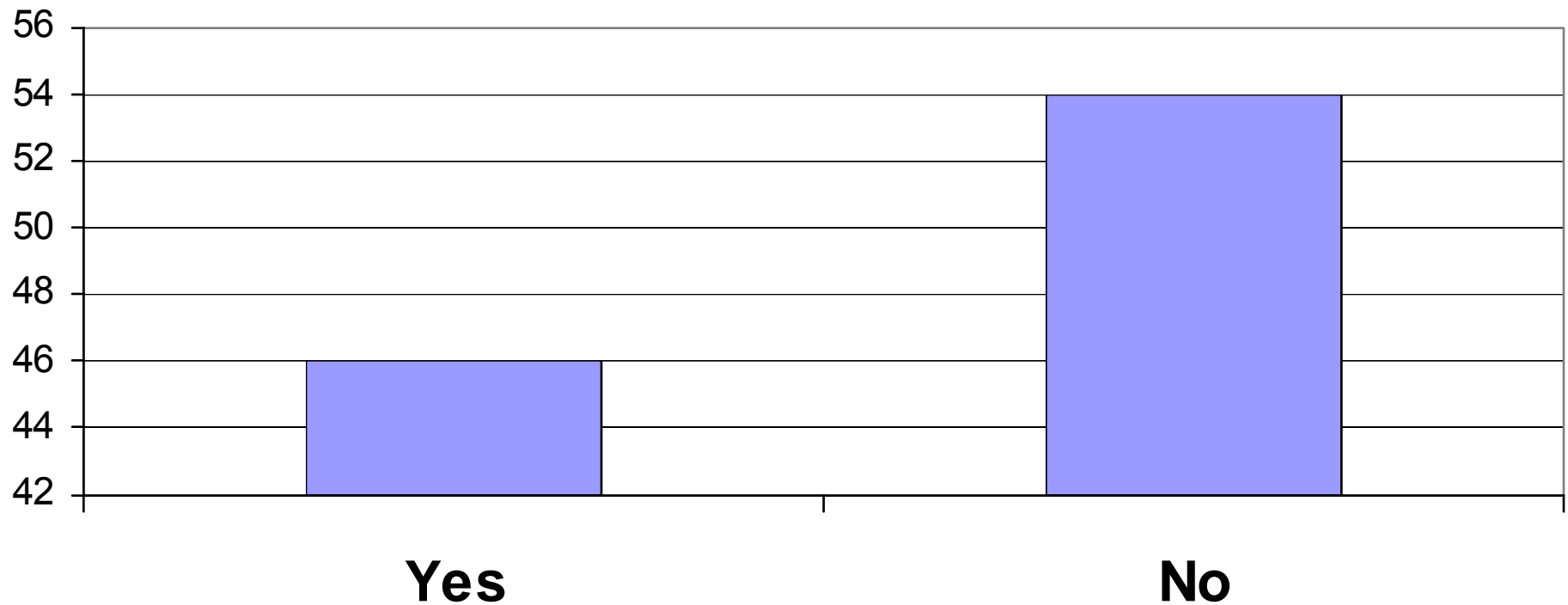
Unique Partnerships?

Is your department or program entrepreneurial in forming partnerships or consortia with other organizations to offer new courses degrees programs or credentials?

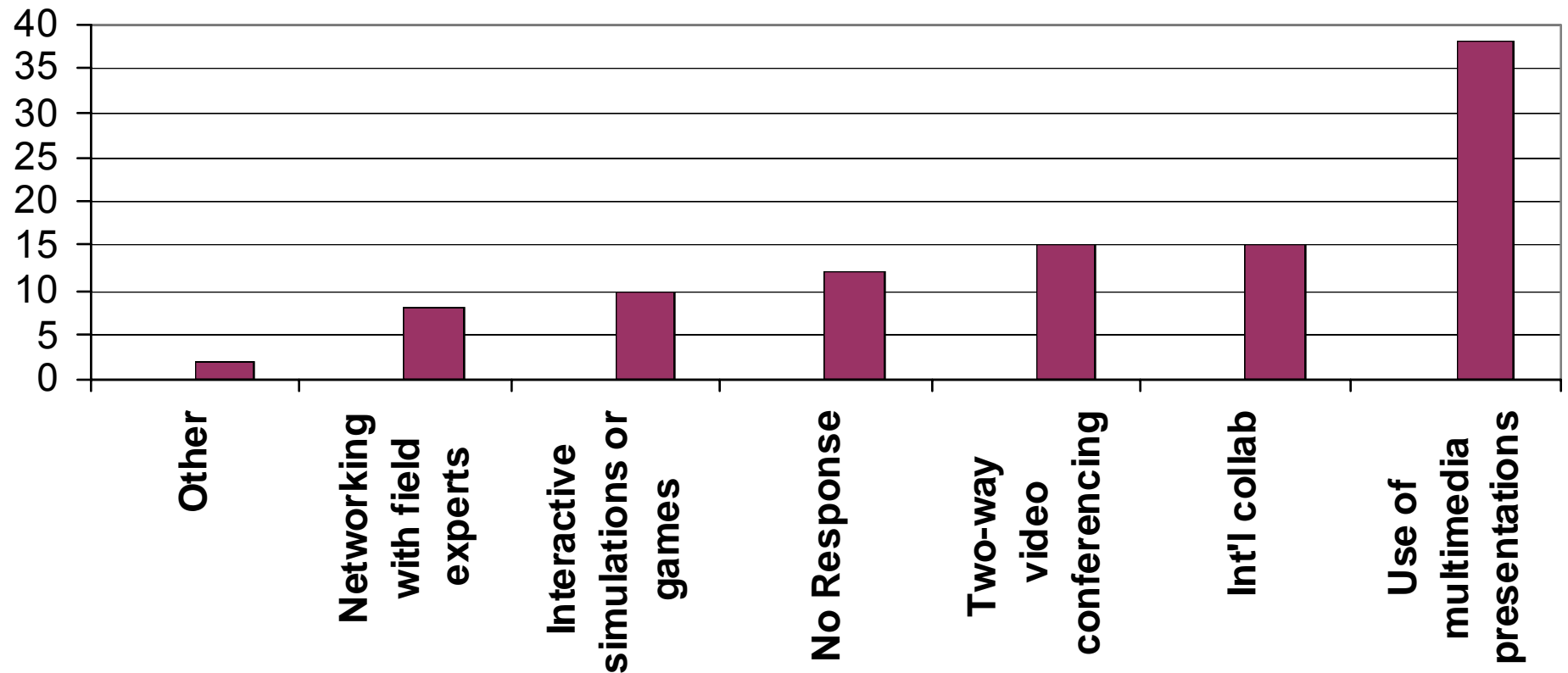


Is instructor training needed?

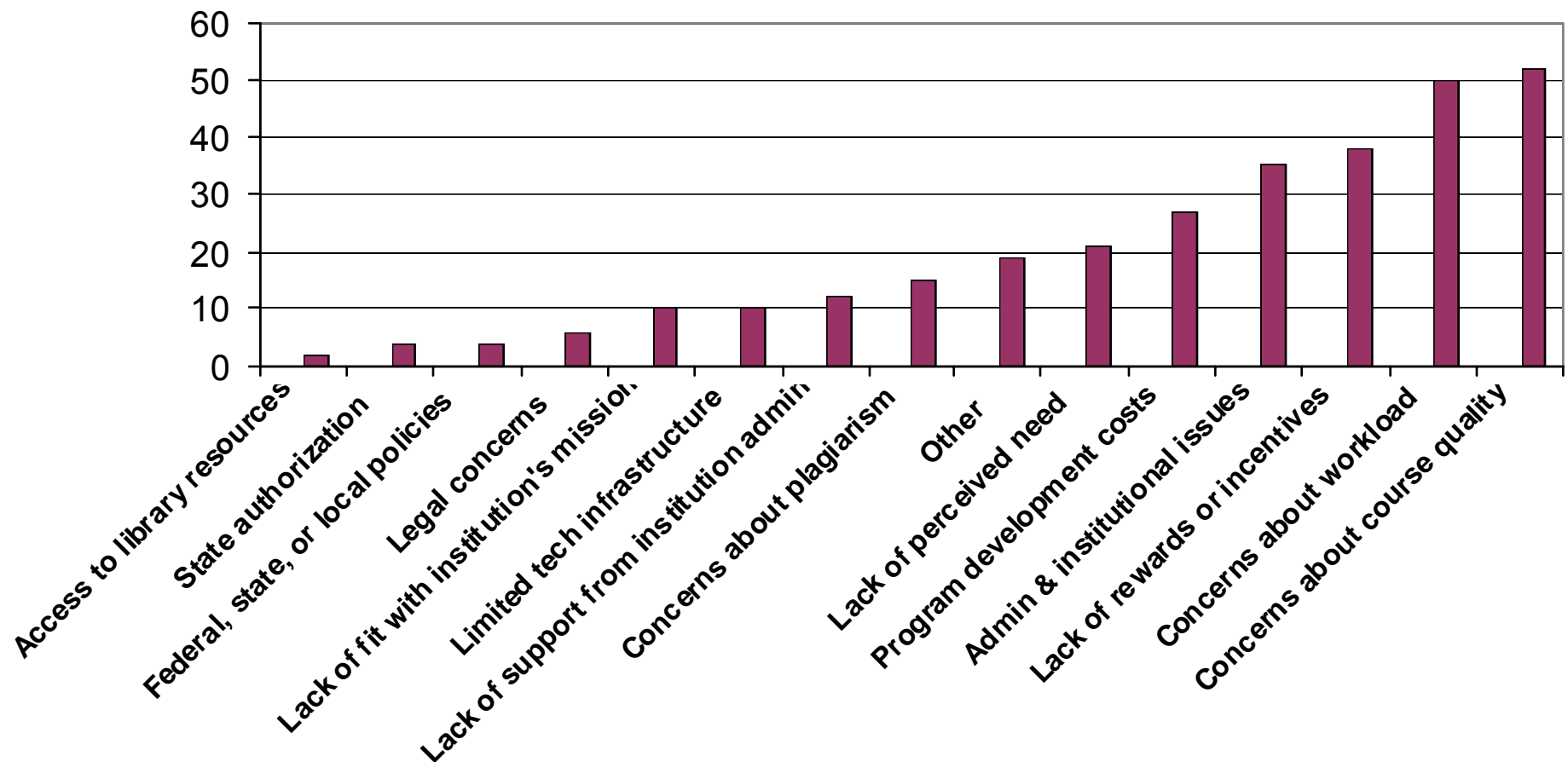
Is training required of instructors who teach fully online courses in your organization college or university?



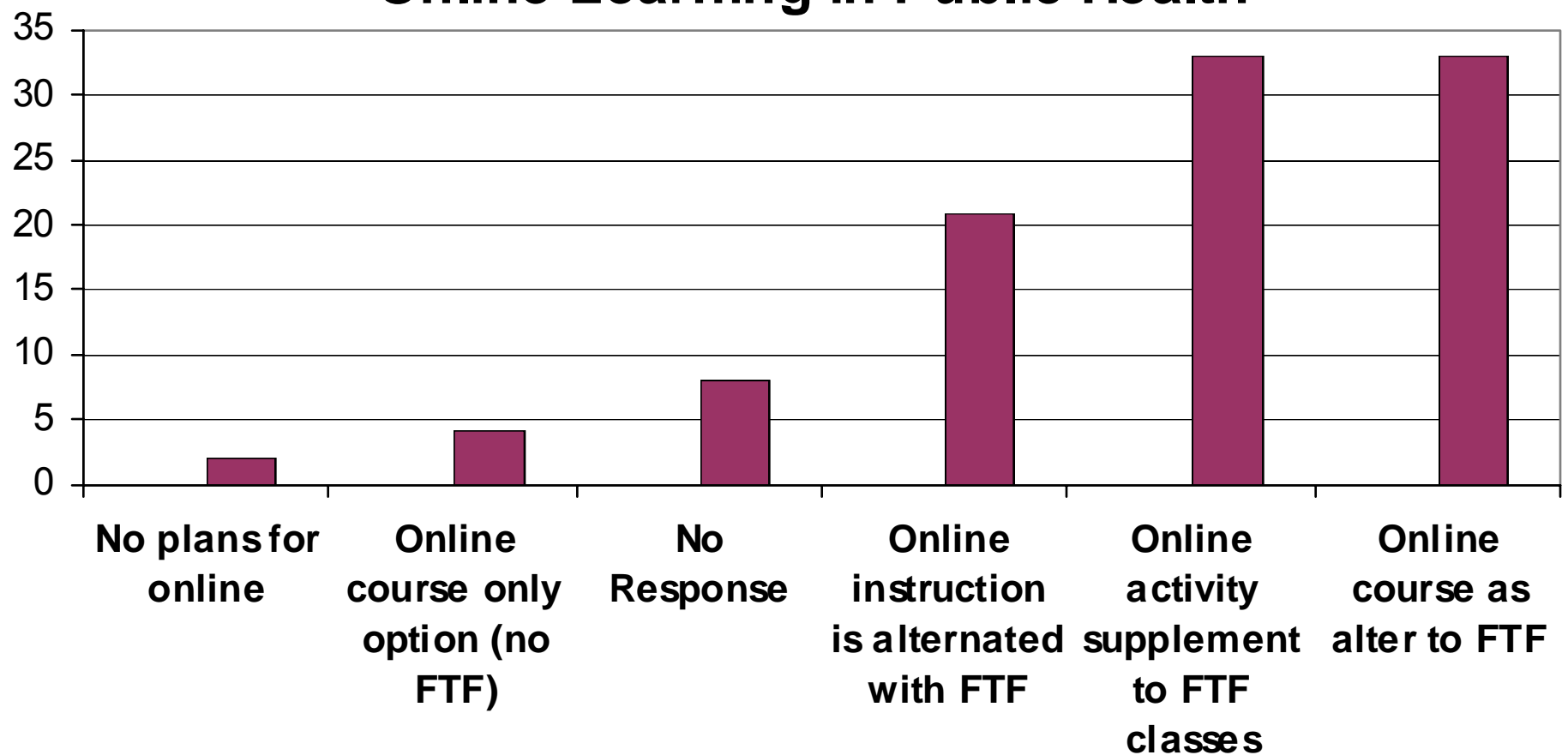
How will Advances in Technology Influence on Public Health and Health Education



Roadblocks to Online Learning Expansion or Implementation



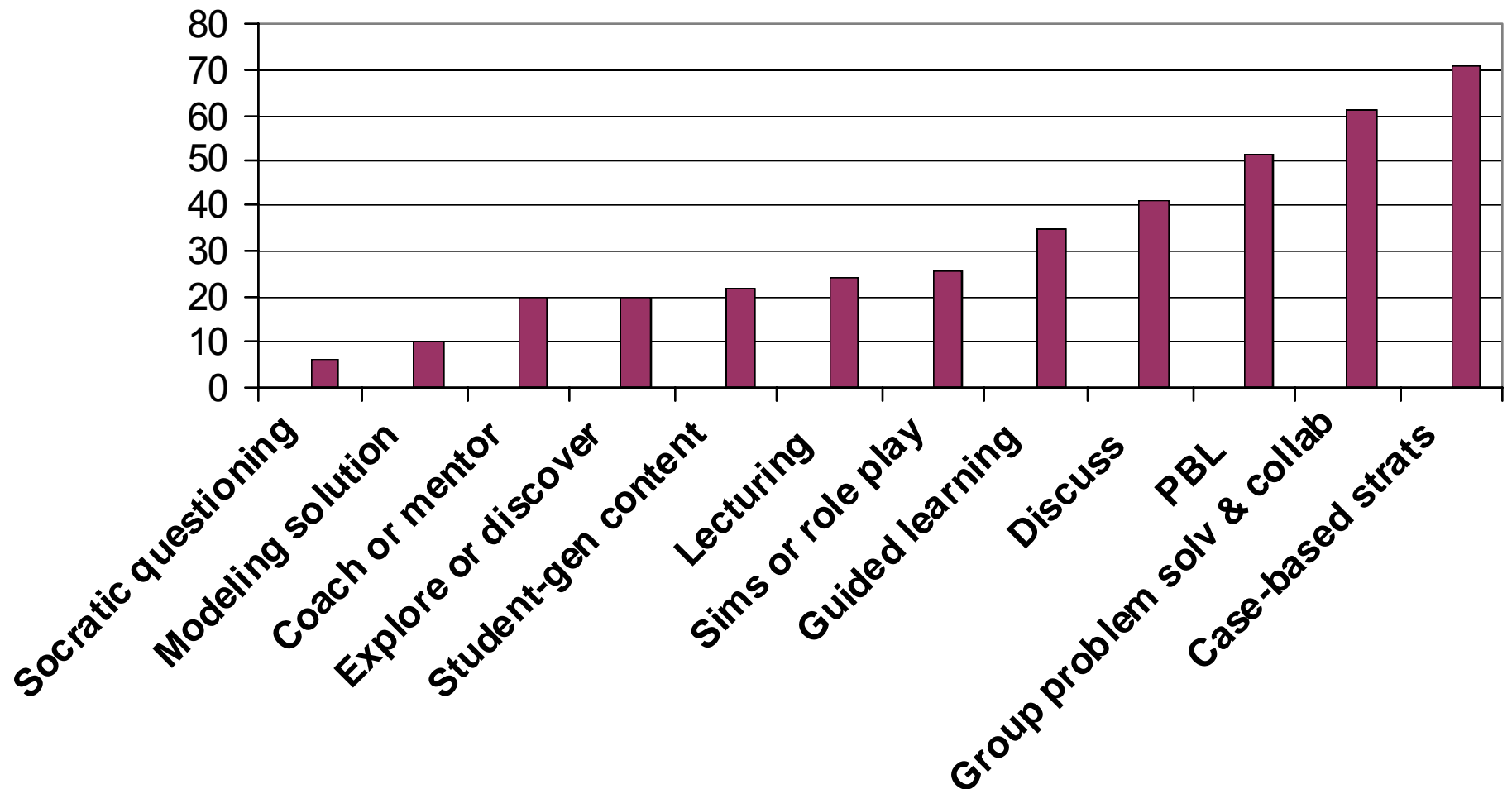
Future Growth Areas for Blended and Fully Online Learning in Public Health



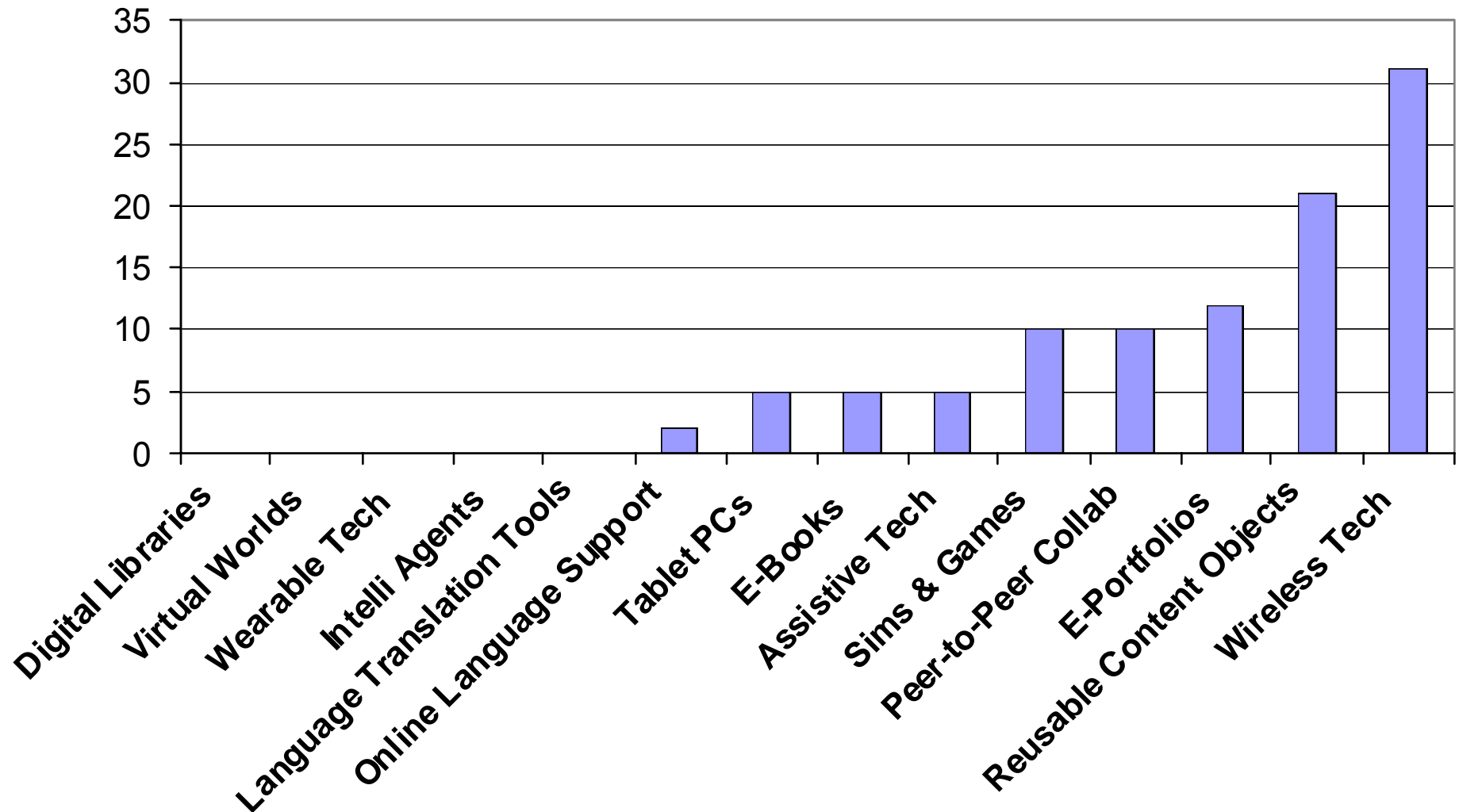
Envision the Direction of Learning

- ▶ Current status of online instruction in public health education
- ▶ Next generation of the online environment
- ▶ Technological and pedagogical advantages

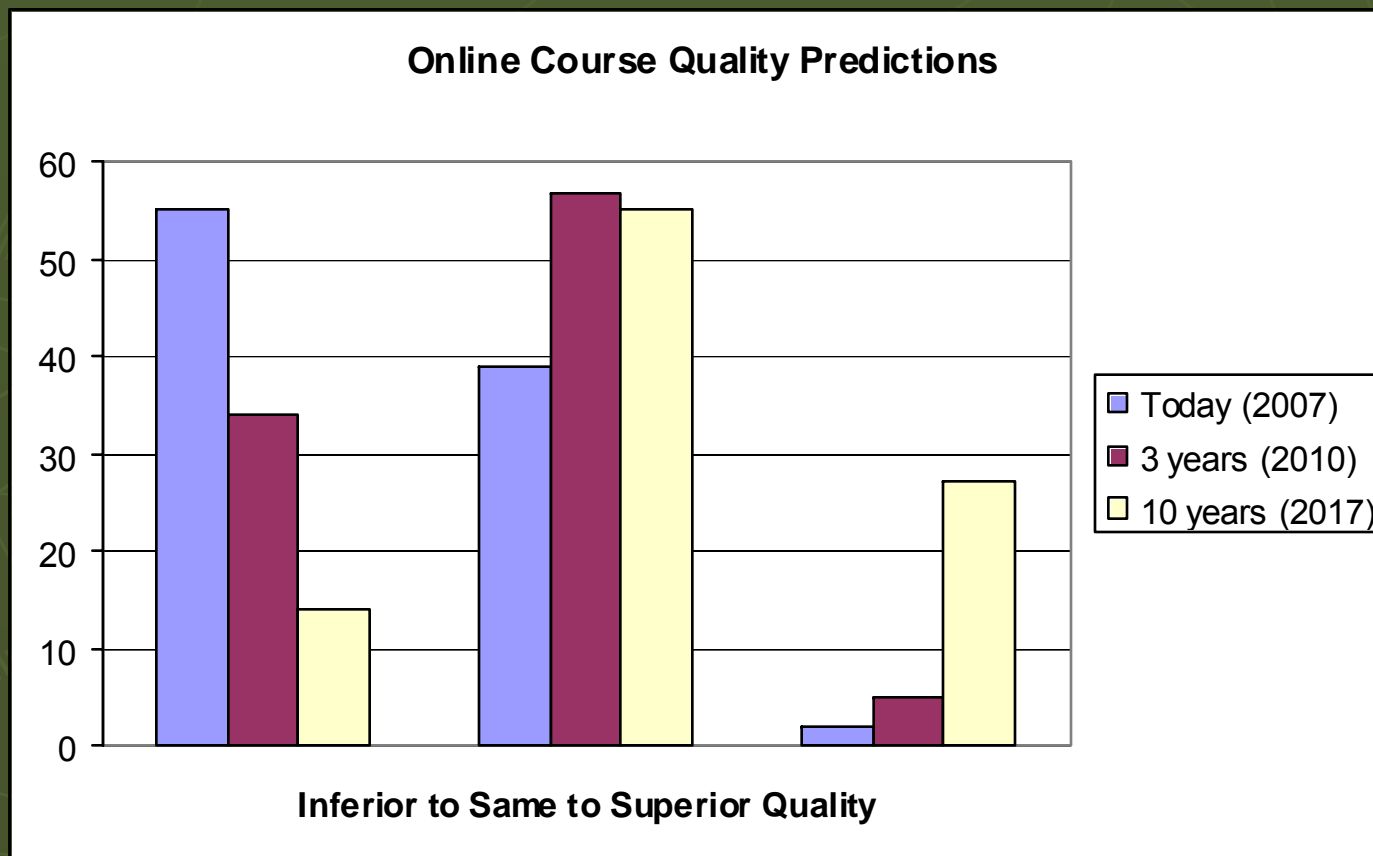
Instructional approaches to be More Widely Used in Public Health Education over next 10 years



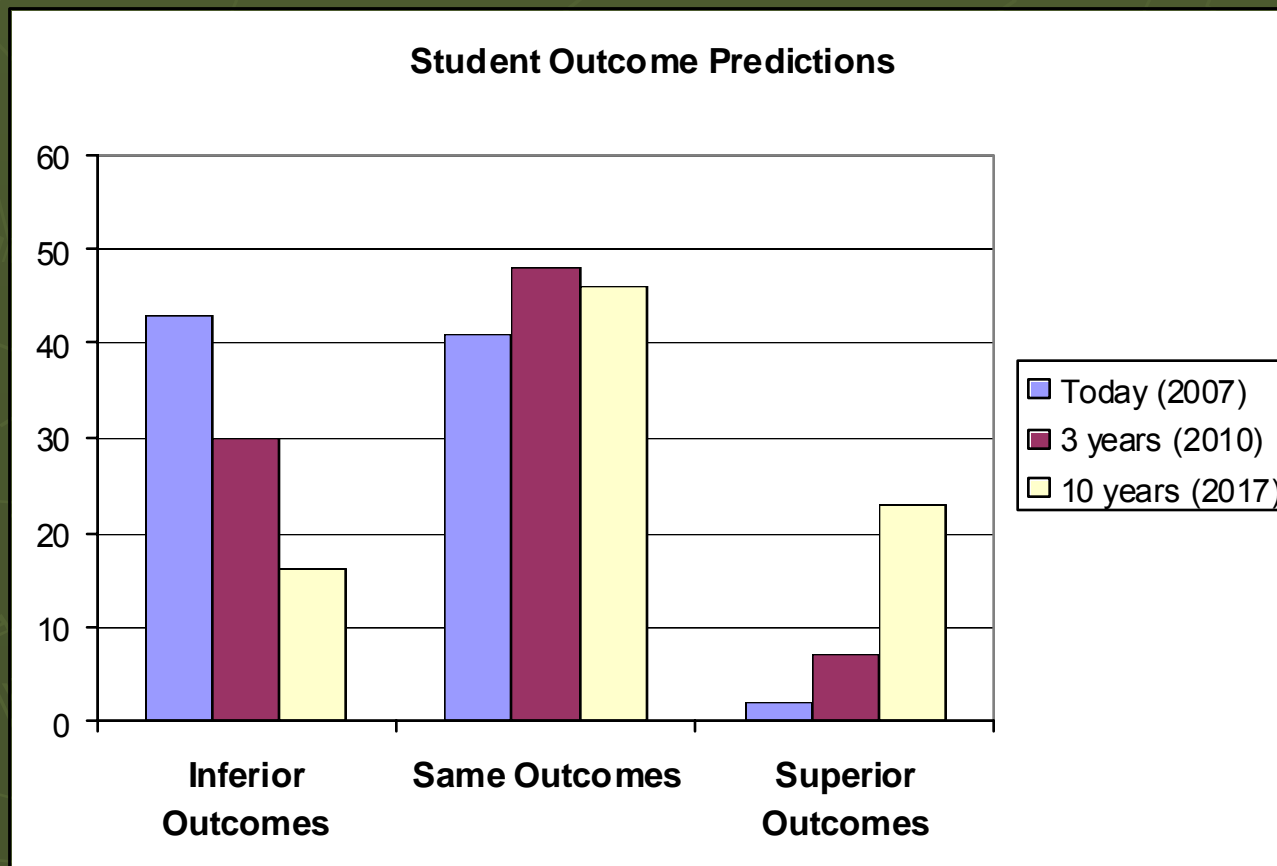
Which one of the following technologies will most greatly impact the delivery of online learning in your department or program during next 5 years?



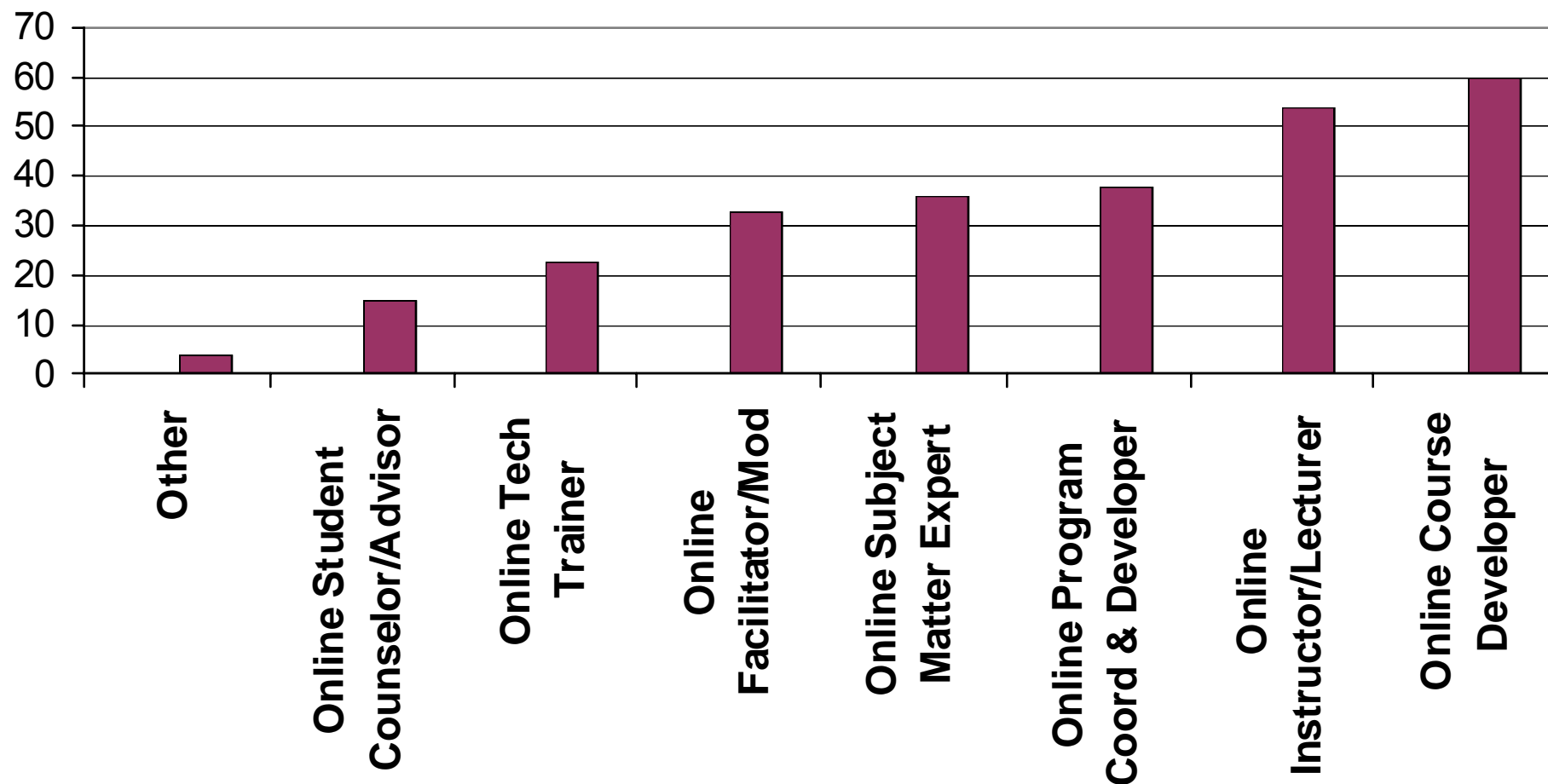
Projected Course Quality Trends of Online Learning Compared to Traditional Instruction



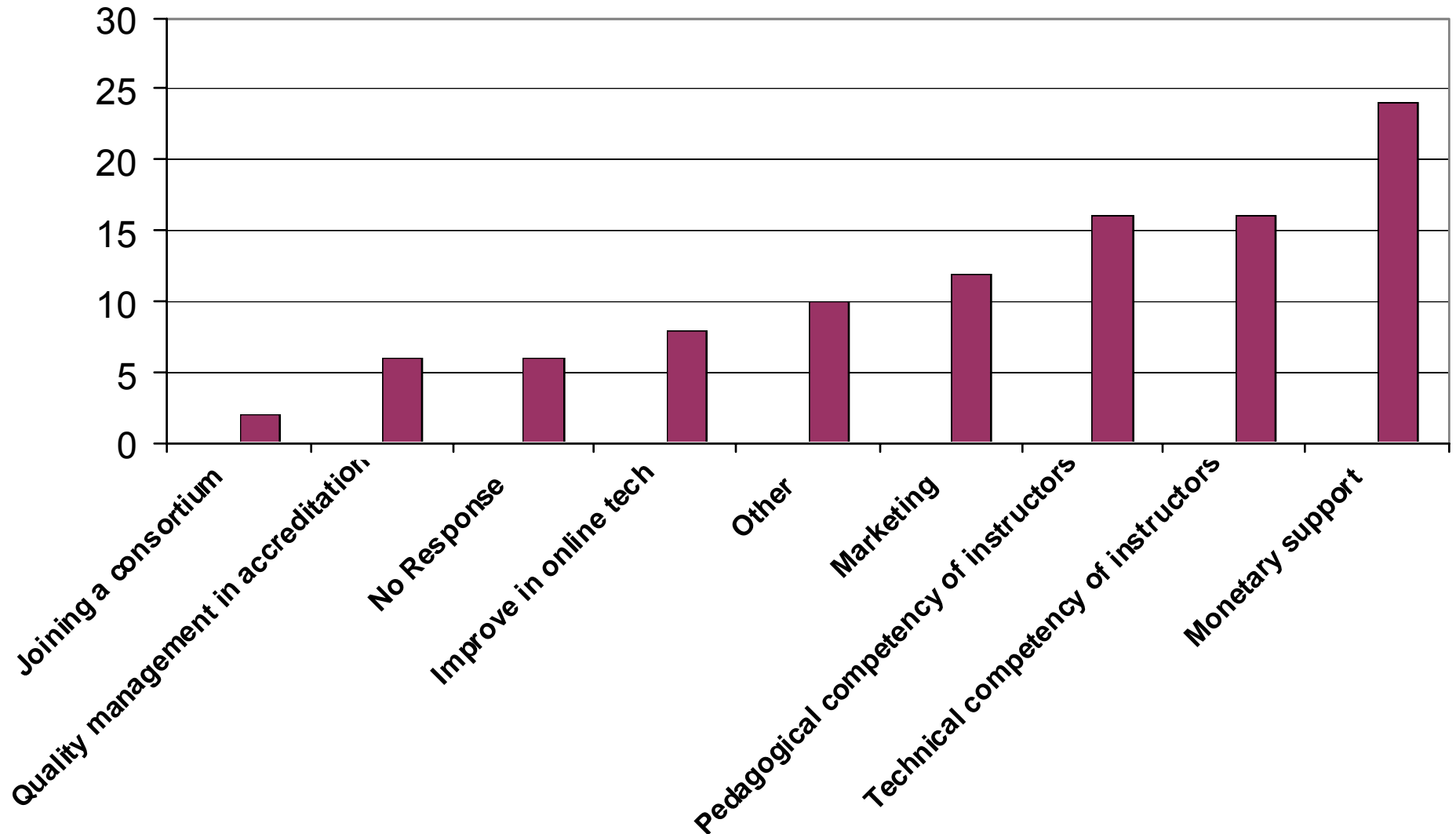
Projected Student Outcomes Trends of Online Learning Compared to Traditional Instruction



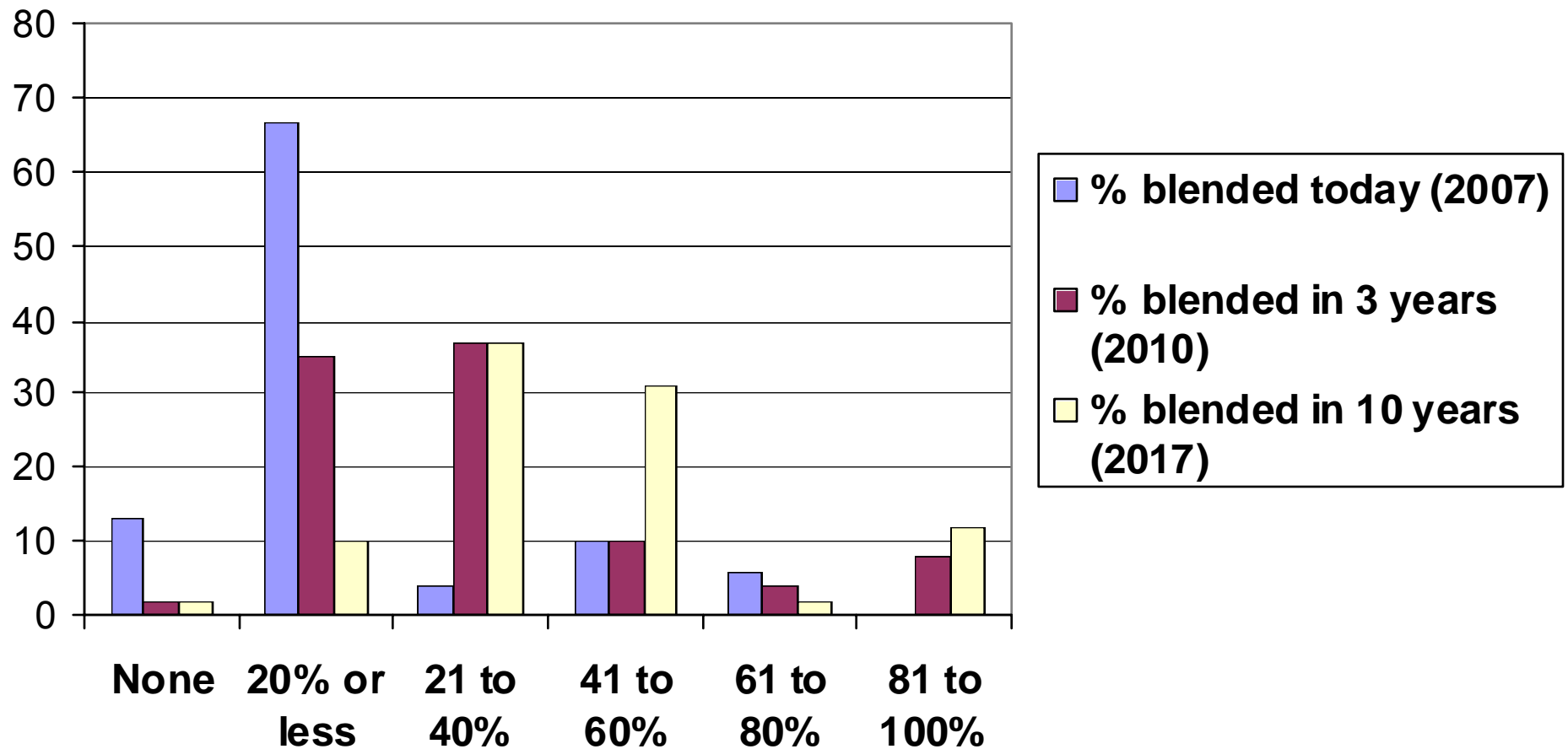
Skills Vital for Public Health Instructors in 2010



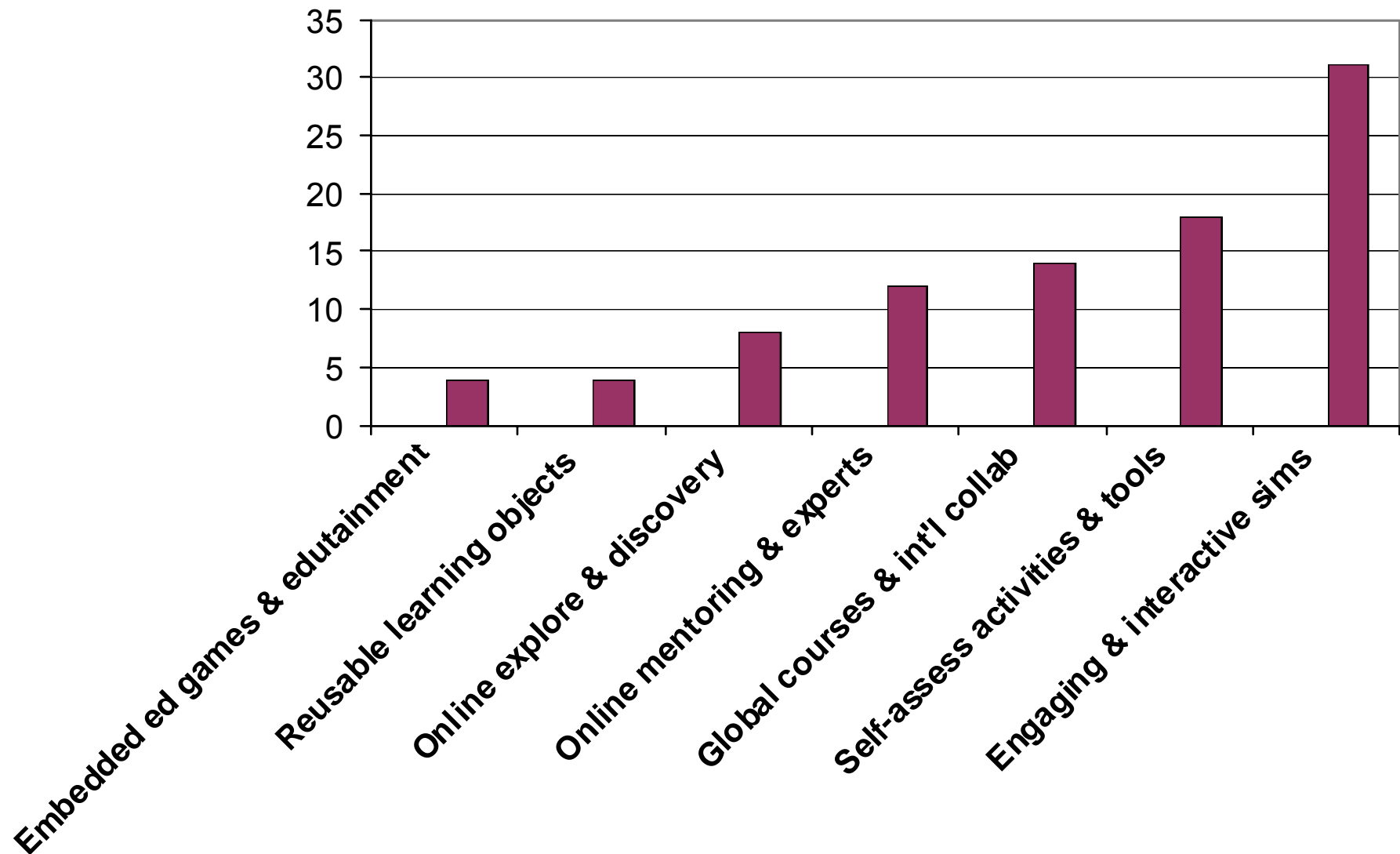
Predicted Success Factors



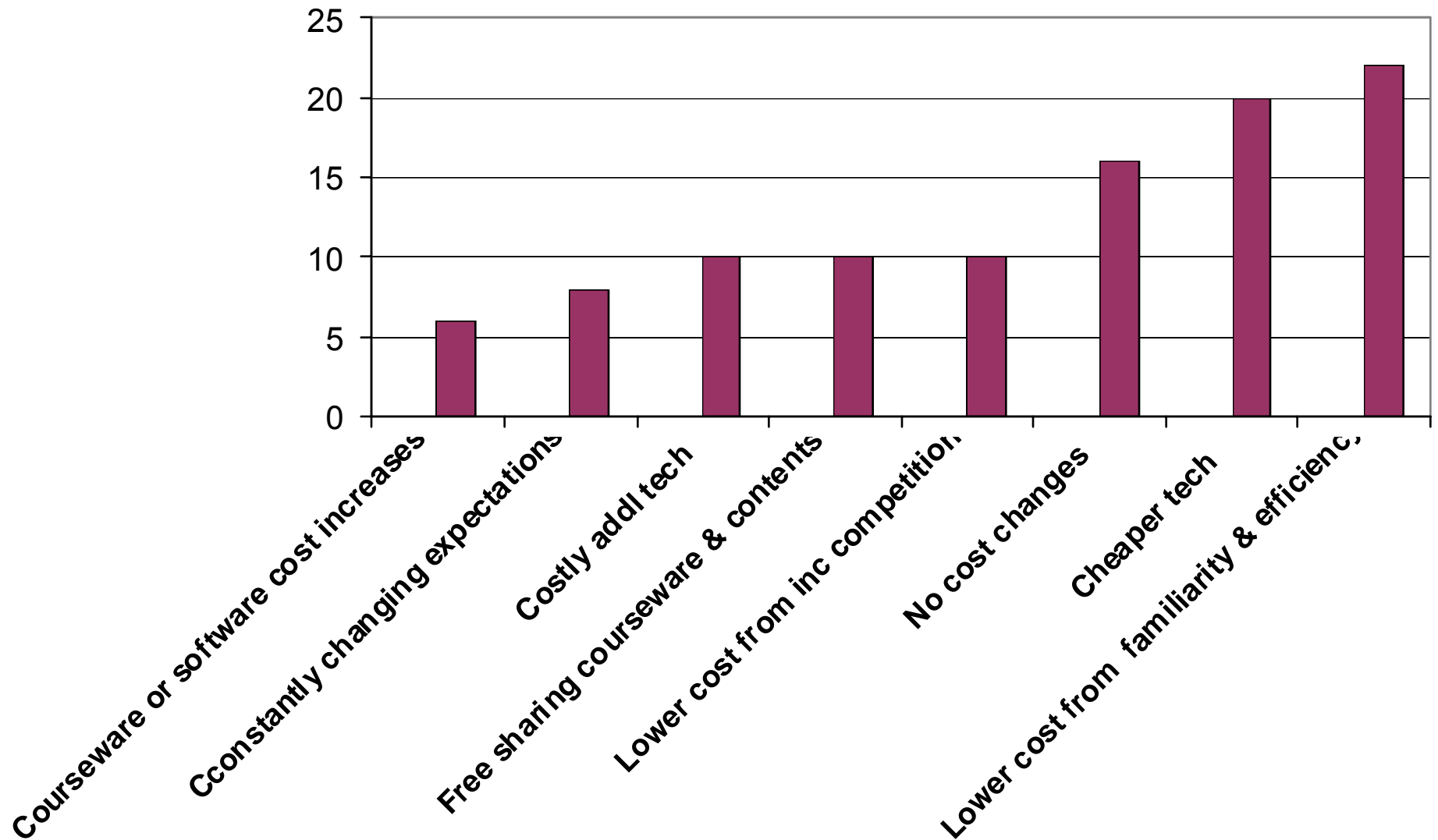
Predictions of Percentage of Student Learning that is Blended



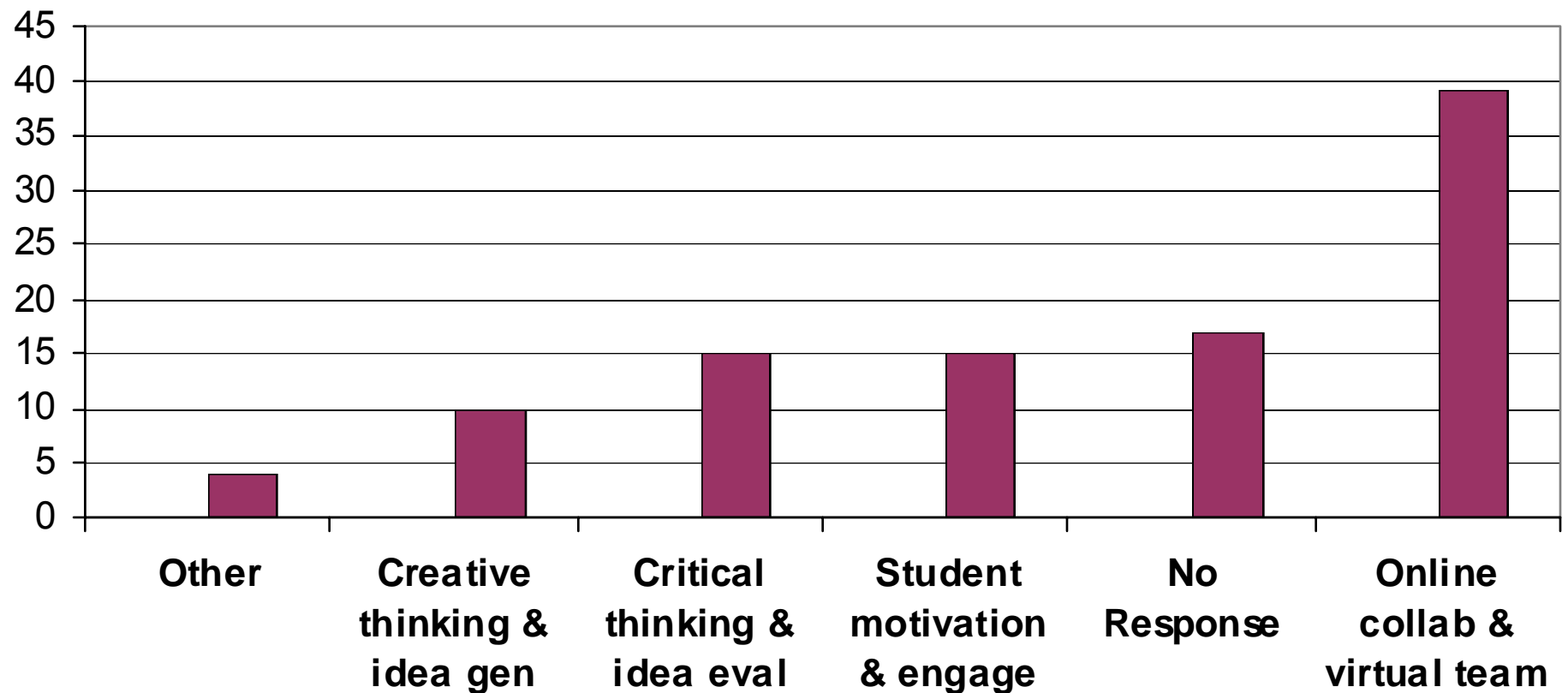
Activities, Tools, and Resources Influencing Course Web Sites in the Future



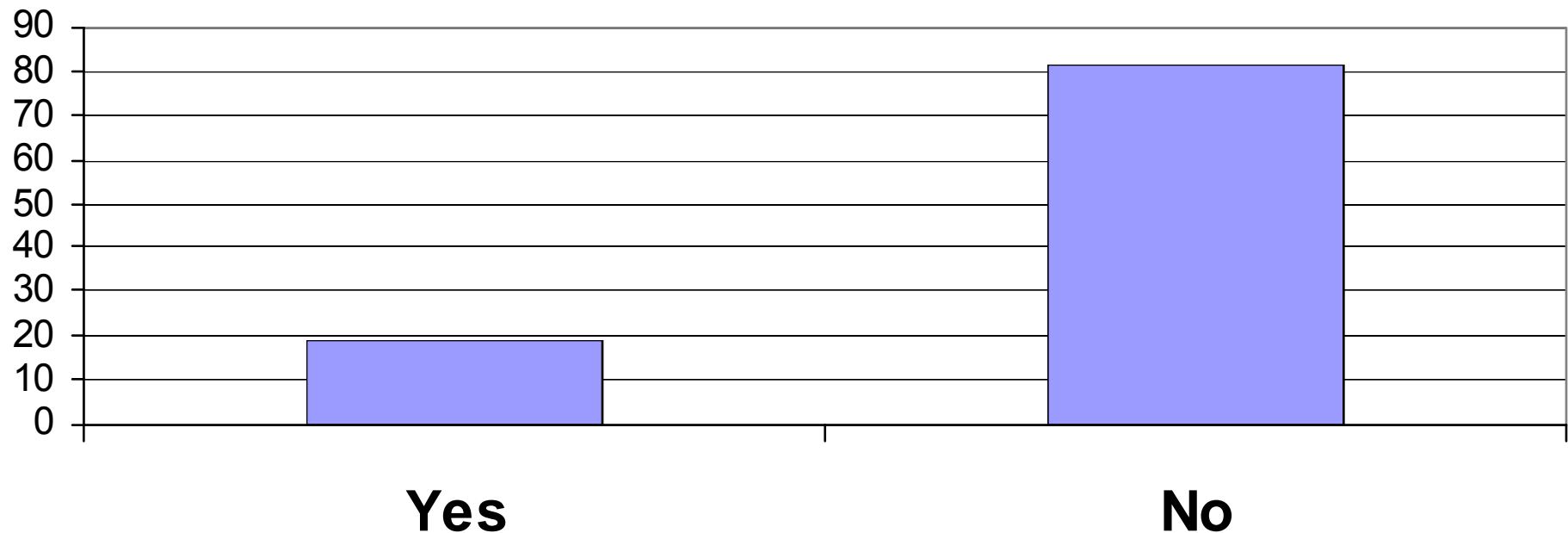
Changes in Online Learning Costs by Year 2017



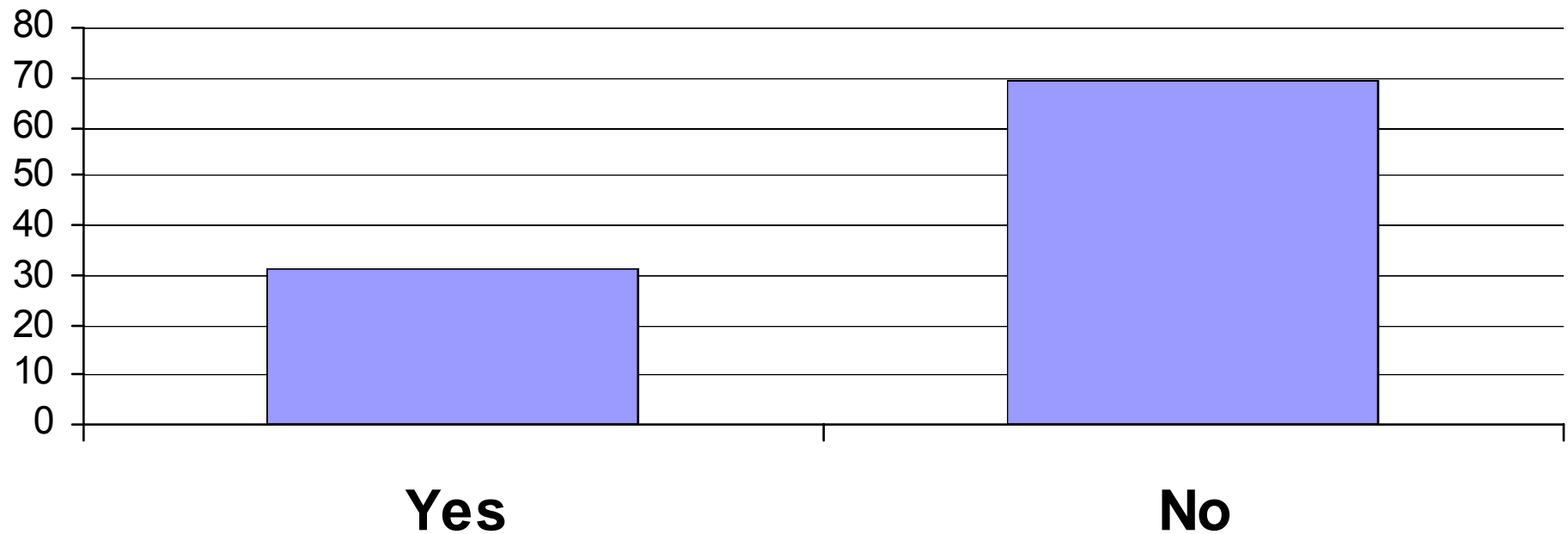
Pedagogical Improvements in Public Health Education Over Next 10 Years Due to Online Learning



Have you taught as a freelance online instructor for another organization or institution in the past (either for blended or fully online courses)?



Do you anticipate teaching as a freelance online instructor for another organization or institution by the end of the decade (either for blended or fully online courses)?

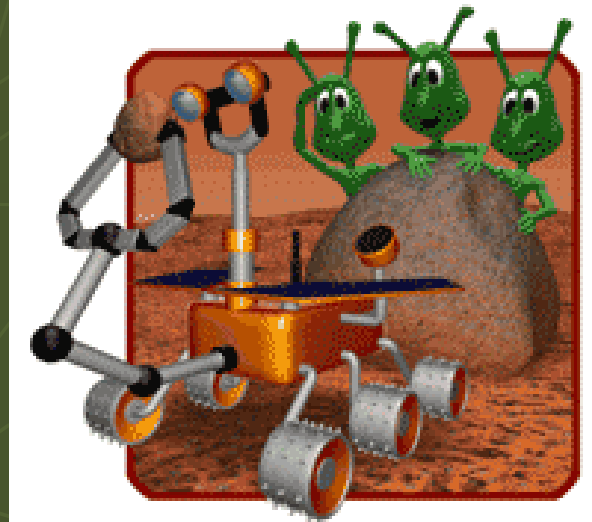


Implications

1. Blended learning will grow more than fully online.
2. Online learning resources benefit public health.
3. Online learning develops student collab/eval skills.
4. Improving online learning requires address pedagogy
 - a. Collaboration; PBL; Case learning
5. Our data indicates necessary training support:
 - b. Workshops; Courses; Degree programs
6. Technology interests and use is growing:
 - c. Wireless technologies; Simulations

Limitations of the Research

- ▶ Only university faculty were surveyed
- ▶ Students were not surveyed
- ▶ Small sample size



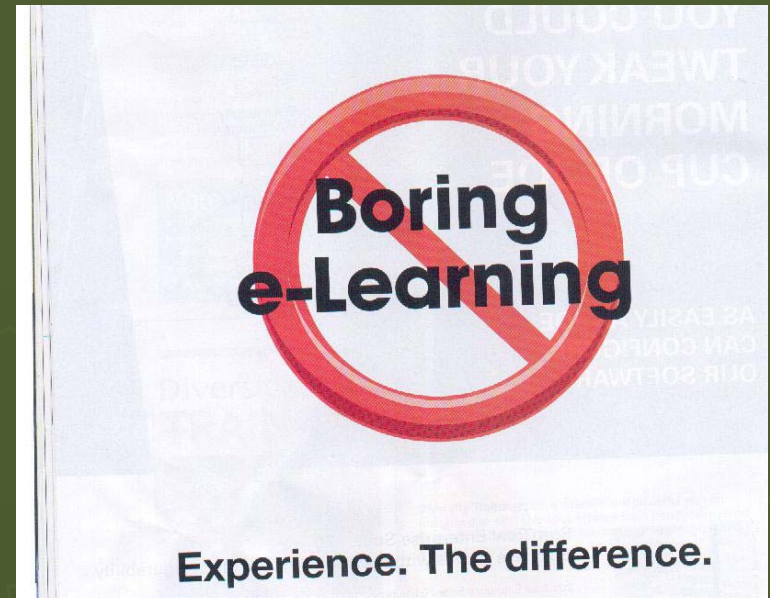
Recommendations for further Research

- ▶ Follow up studies should investigate:
 - Types of blended learning
 - Success of blended learning
 - Instructor training

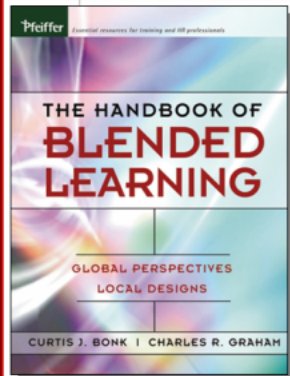


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- ▶ J. McKimm, C. Jollie, and P. Cantillon. ABC of Learning and Teaching Web Based Learning. *British Medical Journal*, 326, 870-873, April 2003.
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Questions???



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