

E-Learning for Medicine:

Best Practices and Lessons Learned

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UPCM - Medical Informatics Unit

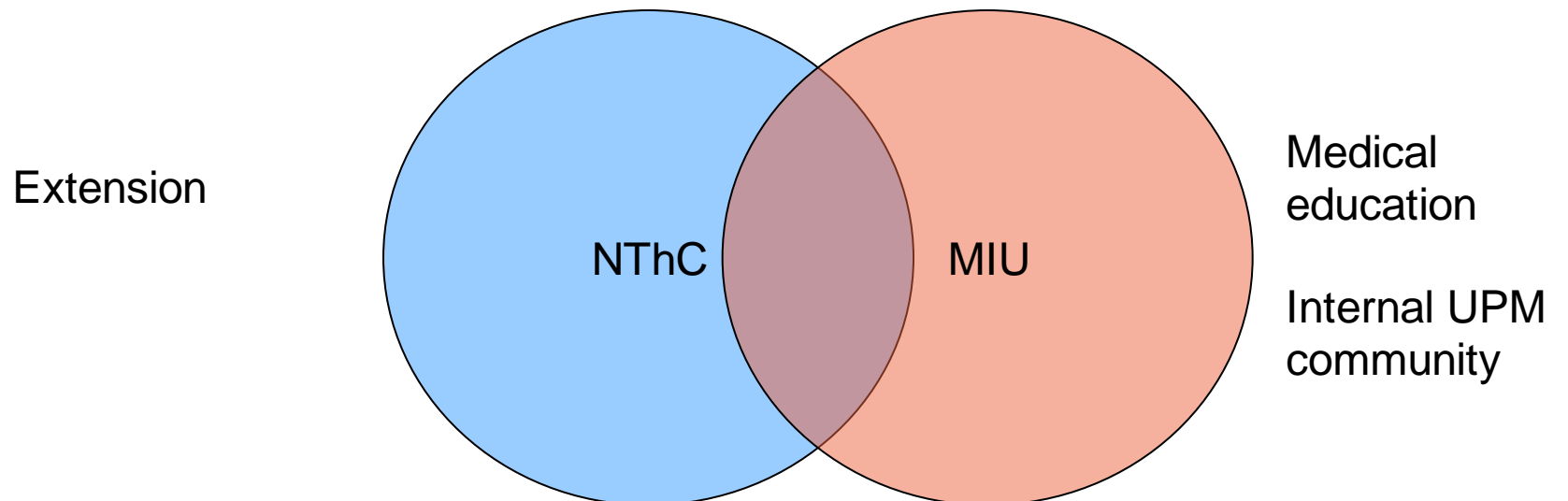
UPM - National Telehealth Center

Outline

- About us
- What is e-learning
- Resources
- What works
- What does not work [as well]
- Strategies for success
- Next steps

About us

- Two hats
 - UPCM - Medical Informatics Unit (1997)
 - UPM - National Telehealth Center (1998)



MIU

- Manage the UPCM network infrastructure
- Coordinate with the UP Manila network
- Develop informatics applications (faculty database, exam analyzer, Moodle for course management)
- MI220 Elective in Medical Informatics (YL IV)
- Masters of Science in Health Informatics (PGIM)

National Telehealth Center

- Electronic health records
- E-learning for community health workers
- Telemedicine (for DOH doctors-to-the-barrios)

What is e-learning

- the use of information and communications technology for education

Resources

- If you have a USB drive
 - E-Learning Folder
 - MedEdPortal tutorial
 - PDF files on e-learning
 - Sample webinars
 - This lecture
 - Bitnami stack for Moodle

What does not work as well

- Web 1.0
- converting lectures/presentation into self-running slides
- simply putting your presentation slides online available for download
- not placing attention to copyright
- borrowing slides and images without permission
- anything that does not make the student 'work' for that extra knowledge and skill

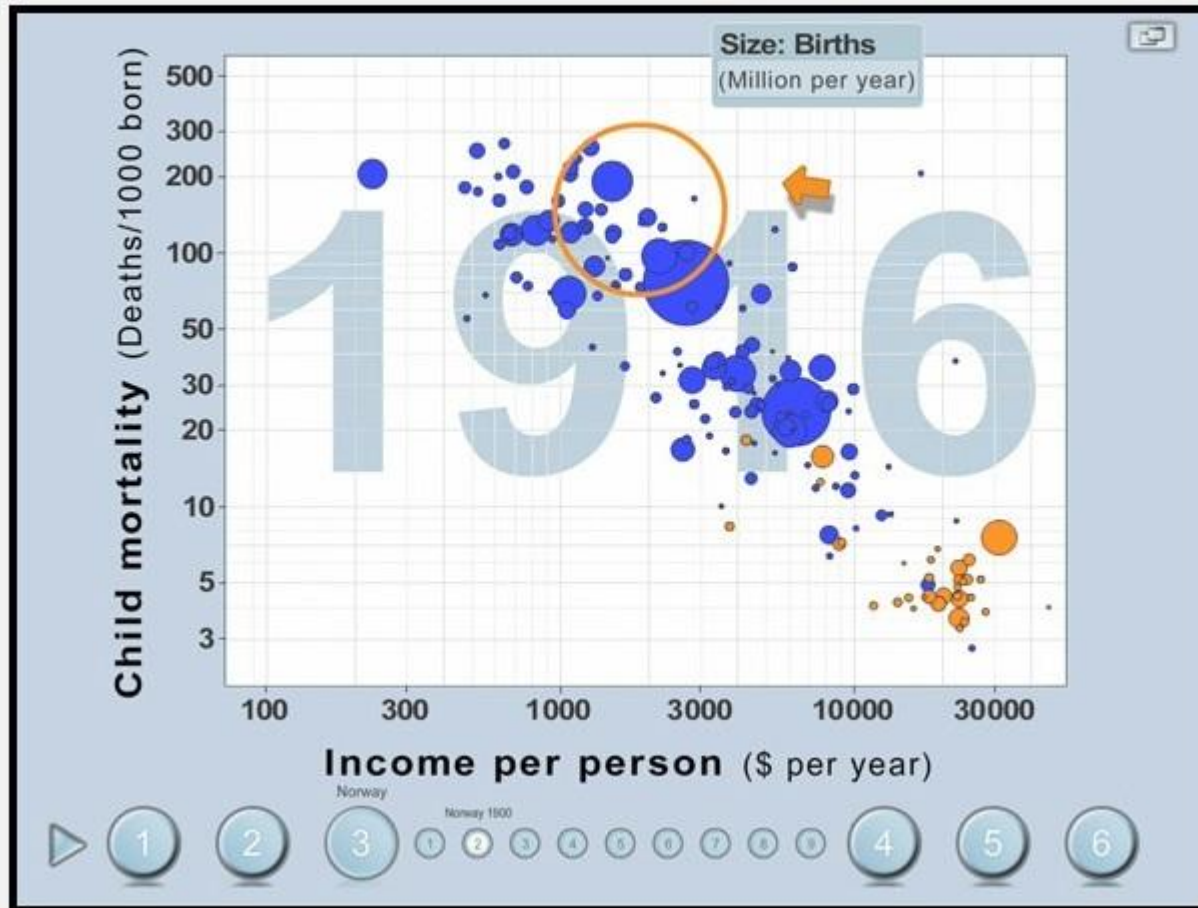
What works

- Guided Internet searching
- Web 2.0 -- Interactivity
- Social constructivist methods
 - Wiki (not for content but for the effort of collaborating on content)
 - Freemind (Mapminder)
 - Gapminder.org
- Using free and/or open source software
- Using Creative Commons license



MDG 4 - REDUCING CHILD MORTALITY

Posted January 8, 2009 1 comment. [Comment here.](#)




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[edit](#)
[history](#)
[protect](#)
[delete](#)
[move](#)

Editing Graph Test

Preview

Note: Remember that this is only a preview, and has not

Some more testing:

```
+-----+   +-----+   +-----+
| Bonn | --> | Berlin | --> | Frankfurt |
+-----+   +-----+   +-----+
```

navigation

- [Main Page](#)
- [Community portal](#)
- [Current events](#)
- [Recent changes](#)
- [Random page](#)
- [Help](#)

search

toolbox

- [What links here](#)
- [Related changes](#)
- [Special pages](#)



Some more testing:

```
<graph>
[ Bonn ] -> [ Berlin ]
[ Berlin ] -> [ Frankfurt ]
</graph>
```

NThC E-Learning for Health Website

You are not logged in. (Login)
English (en)

Main Menu

- Site news

Available Courses

- MI220: Introduction to Medical Informatics**
 Teacher: Iris Isip-Tan
 Teacher: Ryan Banez
 Teacher: Alvin Marcelo

Offered to Year Level 4 of the Organ Systems Integrated Curriculum of the UP College of Medicine
- E-Health 101**

WHO states: "...eHealth is the cost-effective and secure use of information and communications technologies in support of health and health-related fields, including health-care services, health surveillance, health literature, and health education, knowledge and research." This short course will provide a general overview of e-health and how it impacts on Philippine society.
- Data Warehousing for Health**

Analytics for large volume datasets
- Digital Medical Photography**

This is a short course on how to properly use digital imaging technologies for medical purposes. It defines protocols and standards for quality imaging and techniques and tips to meet those benchmarks.
- Free and/or Open Source Software**

An introductory course on free and/or open source software
- EH102: Open Source Electronic Health Records**

A one-week introductory course on electronic health records for health personnel. It provides the organizational, technical, and social aspects of implementing electronic health records in a health facility.
- HI201: Health Informatics**

An overview of the field of health informatics -- bioinformatics, medical informatics and public health informatics

This is the Moodle site for the online courses offered by the UP Manila National Telehealth Center. It has both degree (masters of science in health informatics) and non-degree courses (digital medical photography). Interested parties are requested to contact Ms. Tina Onzaga (mconzaga@yahoo.com) if they wish to enroll in these courses.

Calendar

January 2009

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|-----|-----|-----|-----|-----|-----|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

Strategies for Success

- Internet – fast Internet
 - good cabling, good wireless
 - competent, professional, dedicated IT office
- Dedicated faculty to create applications
 - course management system
 - to train other faculty
 - question bank
 - learning objects
- Embed e-learning into curriculum

Strategies for Success

- Faculty-Student teams to create learning objects
 - faculty for content
 - student for the technical implementation
- Collaborative Portal
- Leadership and management support

Next steps

- Name a chief for your own MIU
 - network
 - applications
- Capability-building on Integrating Medical Informatics into the Medical Curriculum
 - Short courses on Electronic Health Records, E-Learning, and Telemedicine





Summary

- E-learning effectively augment teaching and learning.
- E-learning requires substantial resource allocation (faculty, network, IT).
- E-learning interventions must be closely linked to the school's vision and mission.

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www.upcm.ph

www.miu.ph

[**www.telehealth.ph**](http://www.telehealth.ph)

Call for participation -

Training of trainers - “Standard Course for eHealth and Telemedicine”
(May 4-6, 2009)

1st National Conference on eHealth and Telemedicine (May 7-8, 2009)