Embrace Technology: The Do-It-Yourself (DIY) Technology Toolbelt

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# Global Technology Taskforce Members

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Global Technology Taskforce Outcomes

• Identify and disseminate information related to Best Practices in the application of new technologies supporting nursing practice, education, and research

• Educate members on strategies for finding and evaluating web-based content to support nursing practice and education

• Provide recommendations for expanded use and more innovative applications of the Circle and other social media applications

• Recommend strategies to increase member awareness and use of STTI’s web-based resources

• Increase member involvement in the Circle and Sharecare
Objectives

• The learner will be able to describe the challenges and best practices in using new technology
• The learner will be able to identify different technology tools and how to evaluate the tools to support nursing practice, education and research.
Complications

• New technology
• How to evaluate
• How to support
  – Nursing practice
  – Education
  – Research
• How to engage members
• Time
TIGER Initiative

• Technology Informatics Guiding Education Reform
• Started in 2004
• Prepare nurses and colleagues
• Transform practice
• IOM report
TIGER Initiative

- Informatics Competencies:
  - Set of competencies for nurses to succeed in practice
    - Basic computer competency
    - Information literacy
    - Information management
TIGER Initiative

• Usability of New Technology
  – Design of new systems
    • Effective
    • Efficient
    • Satisfaction
TIGER Initiative

• Education and Faculty Development
  – Curriculum development
  – Resources for faculty
  – Strategies for current and future nurses
    • Education
    • Practice
    • Research
Challenges in using new technology

• Usability -
• The lack of user friendliness is the key barrier to user acceptance (Staggers & Kobus, 2000).
Human Factors

Ergonomics

Human-Computer interaction

Usability
Usability

• Usability is centered on the fit between elements (Rubin, 1995).

• Usability topics:
  – how easy a product is to learn
  – to remember
  – to use in everyday work or play
  – and the effectiveness of a product for a specific task at hand.
Effectiveness

Safety

Usefulness

Efficiency

Productivity

Learnability

Satisfaction

Perceived efficiency

Perceived effectiveness

Adapted from figure 2
Objective...describe the best practices in using new technology

- The significance of usability
- Usability is crucial:
  - Design
  - Implementation
  - Adoption
  - Use of clinical products
Clinical Application Design

• IT systems should integrate evidence-based practice with clinical expertise
• Strengthen practice through interdisciplinary collaboration using a systems-thinking design.
• Should foster techniques for data-mining to allow nurses to analyze and create new knowledge.
TIGER Initiative

- Leadership Development
  - Program development
  - Expand competencies
  - Promote sharing of best practices
TIGER Initiative

• Other resources:
  – National League for Nursing
  – American Association of Colleges of Nursing
  – Resourcefully Enhancing Aging in Specialty Nursing (REASN)
Genetic Criteria Used in Evaluating Web Resources

• Accuracy
• Authority
• Objectivity
• Currency
• Coverage
Accuracy

- Reliable
- Free from error
- Who is hosting the site
- Bias
- Statement of purpose
- Verify information
Authority

- Determine authorship References
- Created other technology/website
- Check qualifications
Objectivity

- Determine purpose
- Bias to informational content
- It is sponsored commercially
- Advertisements
Currency

- It the information up-to-date
- When was it last updated
Coverage

• Information adequately covered
• Compare the information
• References listed
• Provide listing to get more info
How to Engage Members

• Teach them how to use the site/technology
• Give them all the tools they need
• Plan for questions
• Follow up with them
• Give out prizes to engage participation
Use Technology to Your Advantage

• Create electronic registration for events
  – Create a registration form
  – Create name badges with mail merge
  – Communicate to members about events

• Create Webinars
  – Access members who cannot travel
  – Record event and put on website
  – Members can access event in their own time
Use Technology to Your Advantage

- Create Virtual Awards Process
  - Upload thesis/projects to Google Drive
  - Create evaluation form
  - Engage retired or far away members
  - Engage past officers
Benefits of Technology

• Communicate in variety of ways
• Transcend geography, time, and social status
• Offer a variety of programs
• Engage new members
• Increase participation
• Reach out to vast geography
Wordpress.com (Blog)

Welcome to WordPress!
We've assembled some links to get

Customize Your Site
or, change your theme completely

WordPress is web software you can use to create a beautiful website or blog. We like to say that WordPress is both free and priceless at the same time.

The core software is built by hundreds of community volunteers, and when you're ready for more there are thousands of plugins and themes available to transform your site into almost anything you can imagine. Over 60 million people have chosen WordPress to power the place on the web they call "home" — we'd love you to join the family.

Ready to get started? Download WordPress 3.6

Wordpress is also available in English and Français.
TwitterFall.com (Tweet Chat)
TheCircle.NursingSociety.org (Social Network)
ShareCare.com (Social Network)
Twitter.com (Microblog)
LinkedIn.com
(Social Network)

American Organization of Nurse Executives (AONE)

Founded in 1967, the American Organization of Nurse Executives (AONE), a subsidiary of the American Hospital Association, is a national organization of nurse leaders who design, facilitate and manage care. The organization provides leadership, professional development, advocacy and research in order to advance nursing practice and patient care, promote nursing leadership excellence and shape health care public policy.

Group Members in Your Network

- Pamela Ressler
  Experienced Healthcare and Social Media Consultant, Educator, and Stress Management Expert

- Mary Molle
  Public Health Nursing Consultant / Professor Emeritus. Promoting health of individuals & communities— Advancing Nursing

- Sandy Summers
  Executive Director at The Truth About Nursing

- Danny Pessut
  Director Densford International Center for Nursing Leadership

About this Group
Cream Date: May 20, 2009
Type: Professional Group
Members: 12,418

Owner: Eric Francque
Managers: Rena Barron, CAPM
Website: http://www.aone.org

Group Statistics
CHECK OUT INSIGHTFUL STATISTICS ON THIS GROUP

3,759
Heart failure

Heart failure (HF), often called congestive heart failure (CHF) or congestive cardiomegaly (CCF), occurs when the heart is unable to provide sufficient pump action to maintain blood flow to meet the needs of the body. Heart failure can cause a number of symptoms including shortness of breath, leg swelling, and exercise intolerance. The condition is diagnosed by patient physical examination and confirmed with echocardiography. Blood tests help to determine the cause. Treatment depends on severity and cause of heart failure. In a chronic patient already in a stable situation, treatment commonly consists of lifestyle measures such as smoking cessation, light exercise, dietary changes, and medications. Sometimes, depending on etiology, it is treated with implanted devices (pacemakers or ventricular assist devices) and occasionally a heart transplant is required.

Common causes of heart failure include myocardial infection and other forms of ischemic heart disease, hypertension, valvular heart diseases, and cardiomyopathy. The term heart failure is sometimes incorrectly used for other cardiac-related illnesses, such as myocardial infarction (heart attack) or cardiac arrest, which can cause heart failure but are not equivalent to heart failure. Heart failure is a common, costly, disabling, and potentially deadly condition in developed countries, around 2% of adults suffer from heart failure, but in those over the age of 85, this increases to 6-10%.
Information-Shareapy.com
(Bookmarking)
Google Hangouts
(Video Conference)
Google Docs (Collaboration)

- Availability
- Ease of use
- Time saving
- Response time
- Security

System Quality
Care-Challenge.com
(Sharing Platform)
Facebook.com
(Social Network)
PatientsLikeMe.com
(Social Network)
WiThings.com
(Activity Tracker)
Mendeley.com
(Social Network/Reference Manager)
EverNote.com
(Digital Notebook)

Remember everything.

Capture anything.
Save your ideas, things you like, things you hear, and things you see.

Access anywhere.
Evernote works with nearly every computer, phone and mobile device out there.

Find things fast.
Search by keyword, tag or even printed and handwritten text inside images.
Figure 1 (Photo Sharing)

Free, safe photo sharing for healthcare professionals

"I developed Figure 1 because I wanted a safe way to share medical images with the medical community, while protecting patients' privacy."

Joshua Landy, MD, Co-Founder

Download on the App Store
iTunesU (Content Sharing)
Dropbox.com
(Cloud Storage)
Plus.Google.com
(Social Network)
Overview of the Structures & Functions of the Nervous System

Central NS
- Brain & spinal cord
- PNS (peripheral nervous system)
  - Spinal & cranial
- ANS (autonomic nervous system)
  - Sympathetic NS
  - Parasympathetic NS

Somatic NS

C- 8
T- 12
L- 5
S- 5
C- 1

ANS (or adrenergic or parasympathetic response)

- SNS involved in fight or flight response
- Release of norepinephrine (adrenaline – catecholamine)
- Adrenal medulla (enters vasoconstrictor)

Effects of SNS (anti-cholinergic/adrenergic)
1. Dilate pupil – to aware of surroundings
2. Dry mouth
YouTube.com (Video Sharing)
SlideShare.net (Slide Sharing)

Proposed Common Guidelines in the Preparation and Evaluation of Student Nursing Care Plan
LiveMinutes.com
(Conference Call)

Visual conference calls, from the office or on the go

Want to setup a conference call with your team scattered on 5 different continents? Or simply start a quick call with your designer who’s working from home?

You can now join conferences with your Browser, Skype or your Phone, toll free numbers and no pin codes. Setting up conference calls has never been easier.
AnyMeeting.com

Start a Meeting Now | Schedule a Meeting

Your Meeting URL: www.anymeeting.com/juliejones1
Your Public Profile: Click here to create your profile
Your Free Conference Call: 213-416-1560
Presenter Access Code: 958 423 738
Guest Access Code: 830 757 170

"Kappa Tau Induction" on Sunday, September 23, 5:15 PM - Overdue by 338 Days
(UTC-05:00) Eastern Time (US & Canada)
References