

Public Health 2.0: Leveraging Social Media and Technology for Better Health

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Are you 1.0 or 2.0?



- Do you have an "old fashioned" cellphone?
 - Do you text? How many times per day?
 - Have you browsed the mobile web?
- Do you have a smartphone?
- Have you downloaded apps? Paid for apps?
- Do you have a tablet computer?
 - Have you brought it on trips instead of your laptop?
- Do you use social networking sites?
- Facebook? Twitter? Aggregators like Tweetdeck?
- Do you have a landline telephone?

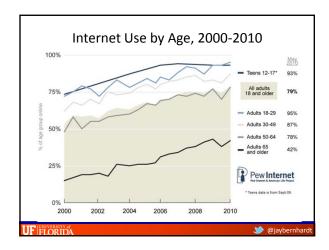


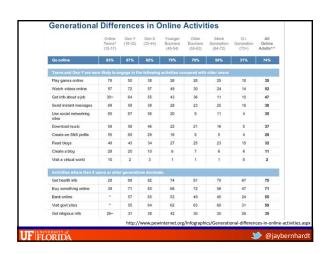
How Millennial Are You? http://pewresearch.org/millennials/

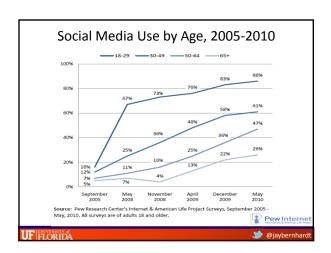


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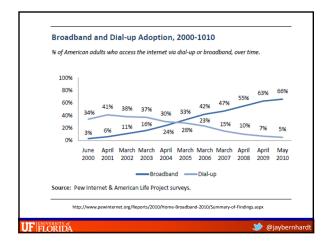




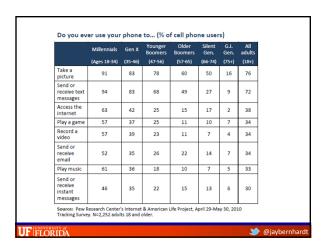


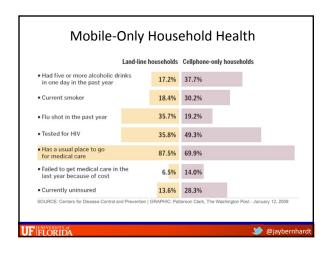






Cellphone Use by US Adults Dec 2010 Wireless subscribers 208M 303M Wireless penetration 69% 96% Wireless only households 27% 8% Minutes of use 1.5T 2.2T Annual text messages 81B 2.1T











TAKE HOME MESSAGE:

COMMUNITIES RANGE FROM 0.0 TO 1.0 TO 2.0 BUT 2.0 IS GROWING AND MOBILE CAN HELP CROSS THE DIGITAL DIVIDE

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PUBLIC HEALTH 1.0

http://www.thisispublichealth.org/CampaignIdeas.htm

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Public Health Defined

- "The science and the art of preventing disease, prolonging life, and promoting physical health and efficiency through organized community efforts..."
 - Charles-Edward A. Winslow (1920)
- "What we, as a society, do collectively to assure the conditions for people to be healthy."
 - Institute of Medicine (1988)

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John Snow (1813-1858)	
	http://en.wikipedia.org/wiki/File:John_Snow.jpg
	http://www.ph.ucla.edu/epi/snow/broadstreetpump.htm
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21st Century Public Health	

- Prevent epidemics and the spread of disease
- Protect against environmental hazards
- Prevent injuries and increase safety
- Promote and encourage healthy behaviors
- Respond to disasters and assist in recovery
- Assure quality & accessibility of health services



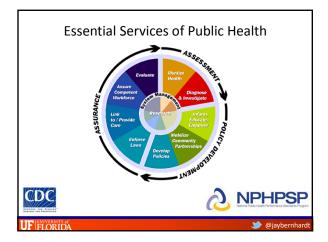
Essential Services of Public Health

- Monitor health status
- Diagnose and investigate
- Inform, educate, and empower
- Mobilize community partnerships
- Develop policies and plans
- Enforce laws and regulations
- Link people to needed services / assure care
- Assure a competent workforce
- Evaluate health services
- System Management and Research

http://www.health.gov/phfunctions/public.ht

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ESSENTIAL PUBLIC HEALTH SERVICES 2.0

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1. Monitor Health to Identify and Solve Community Health Problems



- Accurate, periodic assessment of the community's health status, including:
 - Identification of health risks
 - Attention to vital statistics and disparities
 - Identifications of assets and resources
- Population health registries

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Public Health 2.0: Monitor Health • Open-source data • Data "mashups" • Social media data mining an Energy Mashup Platta.cov Platta.co

2. Diagnose and Investigate Health Problems and Hazards in the Community



- Timely identification and investigation of health threats
- Availability of diagnostic services, including laboratory capacity
- Response plans to address major health threats

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Public Health 2.0: Diagnose & Investigate

- Mobile wireless data collection
- Public health informatics







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3. Inform, Educate, and Empower People About Health Issues



- Initiatives using health education and communication sciences to:
 - Build knowledge and shape attitudes
 - Inform decision-making choice
 - Develop skills and behaviors for healthy living
- Health education and health promotion partnerships within the community to support healthy living
- Media advocacy and social marketing

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Public Health 2.0: Health Promotion

- User Generated Content
- Social media campaigns



• Gamification







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4. Mobilize Community Partnerships to Identify and Solve Health Problems



- Constituency development and identification of system partners and stakeholders
- Coalition development
- Formal and informal partnerships to promote health improvement

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Public Health 2.0: Networks & Partnerships • Social networks for building coalitions and communities 5. Develop Policies & Plans That Support Individual and Community Health Efforts • Policy development to protect health and guide public health practice 6. Enforce Laws and Regulations That Protect Health and Ensure Safety • Review, evaluation, advocacy, revision, education, and support of legal authority, laws, and regulations Public Health 2.0: Laws & Policies • Engage and organize through social media • Apps and GPS-based policy education • Smart video capture

7. Link People to Needed Personal Health Services and Assure the Provision of Health Care when Otherwise Unavailable



- Identifying populations with barriers to care
- Effective entry into a coordinated system of care
- Ongoing care management
- Culturally appropriate and targeted health information for at risk population groups
- Transportation and other enabling services



Public Health 2.0: Location Based Services

- Location based services
- Using mobile for hard to reach
- Tailored tracking and messages









8. Assure a Competent Public and Personal Healthcare Workforce



- Assessment of public health & healthcare workforce
- Maintaining public health workforce standards
 - Efficient processes for licensing / credentialing requirements
 - Use of public health competencies
- Quality improvement and life-long learning
 - Leadership development
 - Cultural competence

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Public Health 2.0: Workforce

- Distance education
- Social networks for professionals
- Web 2.0 training and access at work





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9. Evaluate Effectiveness, Accessibility, and Quality of Personal and Population-based Health Services

10. Research for New Insights and Innovative Solutions to Health Problems

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Public Health 2.0: Research & Evaluation

- Technology for data collection and mining
- QR codes and mobile for real-time feedback
- Online tools to speed translation/dissemination







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PUBLIC HEALTH 2.0 CONCLUSIONS

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Advantages of Public Health 2.0 Programs

- Increased & Sustained Reach
- Deeper Audience Relevance, Involvement, and Engagement



• Scalable and Affordable Interventions



 Facilitates Measurement and Program Evaluation



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Challenges to Public Health 2.0 Programs

- Understanding and access among target audiences and priority communities
 - Mobile, voice, and youth access growing rapidly
- Understanding and access among public health professionals and organizations
 - IT security concerns must NOT inhibit progress!
- Research and evaluation to determine and disseminate evidence-based best practices
 - Innovation is not an excuse for bad methodology

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