Guus van den Brekel Central Medical Library. University Medical Center Groningen. The Netherlands EAHIL Workshop Krakow, September 11-15<sup>th</sup> 2007

# Get your Consumer Health Information

from

an Avatar!

## Diabetes Do you know the warning signs?



losing 10 to 15 pounds if you weigh 200 pounds, walking briskly for 30 minutes most days, and making healthy food choices.

### **Get Real!**

You don't have to knock yourself out to prevent diabetes.

h's about taking small steps: | It's about big rewards: living a longer and healthier life-and avoiding serious health problems such as heart attacks, strokes, blindness, kidney failure, or amputation.

Take the first step today. If you're over 45 and overweight, you may be at high risk for diabetes. Talk to your health you may be at high risk for diabetes. Talk to your health exerprovider today. For free information about preventing diabetes, call 1-800-438-5383.

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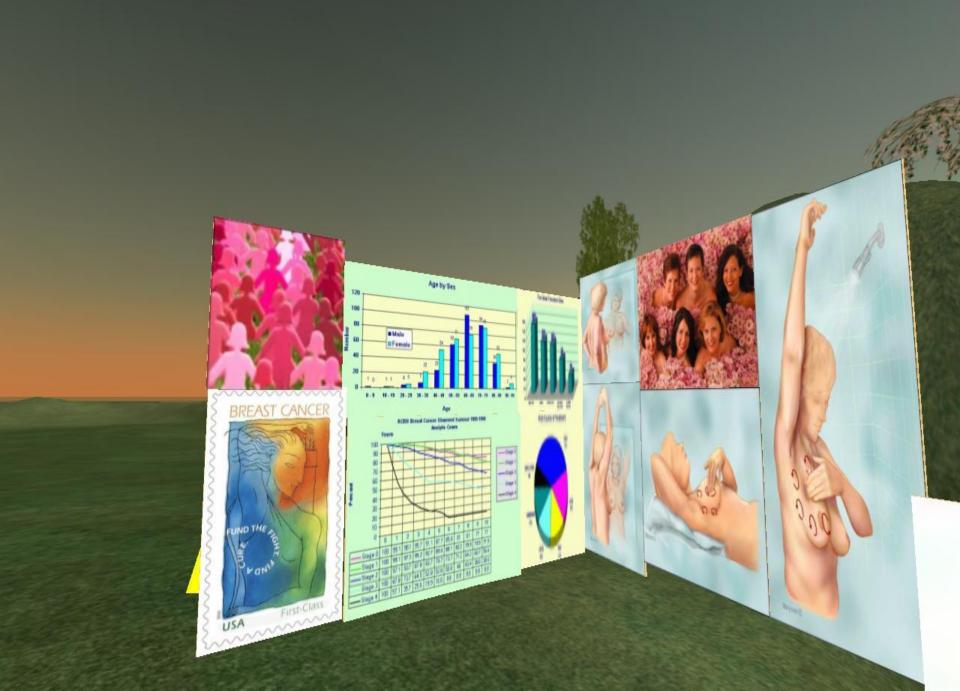
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### Stroke References

American Heart Association. (2007a). Statistical Fact. Sheet Populations 2007 Update: American Indians' Alaska Natives and Cardiovasodar Deases-Statistics. Ion appresent particulate-on Retrieved July 26, 2007 from http://anercontent.org downloadable/heart 1168553154544FS62AMIN/7 pt

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CDC (2015). Age-adomit promise with center. Blacks have twice the risk of first ever stroke second of selected citation decess anon priors 16 years of age and over, by selected characteristic

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stroke patients tend to be younger, black, dabetic, hypertensive, myocardial infraction, and have high cholesterol than non-diabetic patients Compared with whites, blacks develop HSP earlier in life and their average BP is higher. As a result, compared with whites, blacks have a 1.3

have had a stroke

African Americans

compared with whites.

The 2003 stroke death rate for Hispanic/Latino

males was 43.0 and 38.1 for females The BASIC study demonstrated an increased incidence of stroke among Mexican Americans compared to whites. The crude cumulative incidence rate was 168/10.000 in Mexican Ameri-

cans and 136/10.000 for whites. 74.6% of men and 73.0% of woman 20 and older are overweight or obese

11.0% of men and 10.9% of women that are

Mexican American and are 20 and older have

physician diagnosed diabetes (AHA, 2007c)

Data from the GCNKSS study show that schemic

STROKE Are You Susceptible?

Stroke is the 3rd lead

and the most commo

ability (ASA, 2007a)

About 700,000 Amer

or recurrent stroke (A

Strokes kill more than

2007a &Rosamond e

Prepared by 1

**Diversity Con** 

Public Health

2007)

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Student

Assembly

### Do you know the warning signs of a stroke?

### Click here for a notecard !

Stroke in Racial and Ethnic Minoriti

Age After age 55, the chances of having a stroke doubles. people under 65 also have strokes (ASA, 2007b)

Heredity Stoke risk increases when a person's parent, grandparent, sister or brother have had a stroke.

Sex (Gender) Stokes are more common among men than women, regardless of age (ASA, 2007b) Although mannini, regerupero la egle (n.u.r., curu u), nen eveger more nen have stokes than women, women are evene study to dat from estadator (ACA, rotorn), more likely to die from strokes (ASA, 2007b). 46.000 more women have a stroke each year more then men (Rosamond et al. 2007)

Race/Ethnicity African American hein and women are at greater task of Wing from a stocke than Whiles (ASA 2007b) In 2004 73.9% of African American male deaths were due to stokes compared to White males at 48.1% (ASA, 2007b).

**Risk Factors** 

Diets Diets high in saturated fat, trans fat and cholesterol can raise blood cholesterol levels. Increased amounts of sodium can contribute to high blood pressure. Diets containing five or more servings of fruits and vegetables per day may reduce the risk of stroke (ASA,

High Blood Pressure High blood pressure is the most controllable risk factor of stoke. Researchers believe the effective treatment of high stroke researchers believe uie ellecuive lieduitieni of ingli blood pressure can decrease stroke deaths (ASA, 2007b). Diabetes mentuus Diabetes is an independent risk factor for stroke. Many people with diabetes also have high blood pressure. While diabates is treatable, the pressure of the dispace. people with diabetes also have high blood pressure. w diabetes is treatable, the presence of the disease increases a person's chance of stroke (ASA, 2007b). Tobacco Use Digarettes are an important risk factor for stroke Studi



- Consumer Health Grant
- Second Life
- HealthInfo Island
- Accomplishments
- Cooperation
- Medical Sims
- Observations & the Future

# "Providing Consumer Health Outreach and Library Programs to Virtual World Residents in Second Life"

PYE

### Alliance Library System Receives Grant to Provide Consumer Health Information Services in Virtual World

The Alliance Library System (ALS) is pleased to announce that the National Library of Medicine/Greater Midwest Region has awarded ALS a \$40,000 grant to provide consumer health information services in the virtual world of Second Life. ALS is working on the project in partnership with the University of I, pis Library of the Health Sciences-Peoria, Central Medical Lorary, Unversity Medical Center Groningen (UMCG) in the Perlands, and TAP Information Services.

Second Life (http://www.secondl. with over 2 9 million residents.

"By providing reliable information hope that consumers will make bet affect their health care and quality s a booming virtual world

ple at the point-of-need we ormed decisions that will

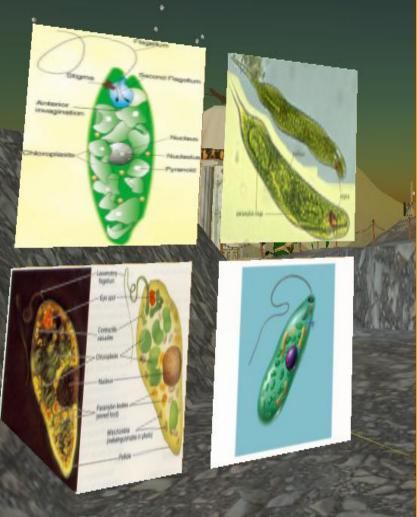


Explore and research practices of health information transfer
Provide reliable information at the point-of-need

# Why in Second Life and ... what is it?



# Second Life =



**Massive Multi-User Online Roleplaying "Game"** More than a game, meet others Interact, Compete, Collaborate **Teaching & learning; social** learning Virtual communities Go anywhere, do anything



Source: Iseldora's Photos. All Rights Reserved. http://www.flickr.com/photos/childlit513/



Source: ALA Staff Second Life Users Group Meeting. Attribution-NonCommercial-ShareAlike 2.0 http://www.flickr.com/photos/alastaff/419159916/

# Second Life : some figures

### 250.00 Residents in March 2006!

And now ..

 Total Residents:
 9,381,825

 Logged In Last 60 Days:
 1,551,313

 Online Now:
 27.518

 US\$ Spent Last 24h:
 \$1,141,357

 LindeX Activity Last 24h:
 \$222,673







Libraries **Science** Education Art **Archives Technology** Health **History** Simulation Teaching





Unive (145, 84, 60)

www.infoisland.org

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# The Second Life Library 2.0 Group has 1346 members

SCIENCE

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BECAUSE IT'S THERE.

### **AllianceLibrary Google discussion** group: 584 members

Source: Second Life Infolsland Library: "Because It's There." Attribution-NonCommercial-NoDerivs 2.0. http://www.flickr.com/photos/rosefirerising/449879669/

Tribe Cory Doctorow open of the Party Losse Trees.

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### SL Consumer Health Library

## Research

research into benefits and effectiveness of "delivering" Consumer health Information in the Second Life environment

evaluate effectiveness also based on:

- gathered statistics
- different training techniques
- interviews, meetings & surveys

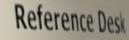
emphasis placed upon empowering individuals to make informed lifestyle and health decisions

Health Fitness Co-op...Men's Health .Sacred Heart Hospital Real Mental Health... National Institutes of Health Positive Mental Health Psychosis and Depression.... Prostate Cancer Support Alternative Health Club....Poundation for Diabetic Children.... Cancer Co-Op .... **Smoking Exhibition Broken Silence - Domestic Violence Resource Center...Centers for Disease Control and Prevention** (CDC) test site...New Babbage Medical League Prostate Cancer **Research Foundation** Master Physicians Honor Corps Old **Time Medical Clinic Depression Support...AIDS and HIV HELP Group....Dreams** The Leukemia & Lymphoma Society Alcoholics Anonymous Breast Cancer **Awareness Second Life Relay For Life Alternative** ncer Support Expert Breast Cancer Awareness enterCentral Wedical Library, UMCC Populations pot.com Friends MS Support Group Fibromyalgia









e 81/18 ↔
SLG infoChat is ready.
Type /17 Gyour message> to chot.

Q: What kinds of questions do we get? A: Every kind!





# Accomplishments



HealthInfo Island is part of what we like to call the 'Information Archipelago,' a growing group of islands that are home to hundreds of librarians. We're here because we have questions like 'what's a library going to be like in the years to come? - how can we help people who are spending more and more time online?' and 'do we have to have Walls, and books, and desks? Being here helps us look at these questions from a different perspective, and it may just help us build the future.

You wouldn't be here now if you didn't know what the internet is.

> Duh. Tel me something I don't know already.

HH.

Contrusicale with mail

n

Many (like me and maybe you, too) also use With Assistent and the second their computers to learn about health issues, trying to answer questions we have What is 40.0 osteonathy? PROSTATE CANCER RISKS

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CO

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Are there new

aethma?

### Identifying existing support groups in Second Life

### **Starting Outreach & meetings**

**One-to-One Consumer Health Reference** 

**Health Displays and Events** 

PubMed Search in world (Medical Library)

**Consumer Health Survey** 

Collecting and presenting quality consumer health resources

An experiment with artificial intelligence (AI) and Chatbot-technology, dubbed 'Healthy"

# Workshops on the evaluation of health information on the internet

Trial access to EBSCO's Consumer Health Database & Reuters Consumer Health News & with Workshops on the Consumer Health Database

Automated Tours of the Island with information about specific services and events

Inworld RSS-feeds for several medical subjects from PubMed, Reuters Health News etc





Featured site

### The Heron Sanctuary

SLURL Available upon request; this is currently an invitation-only location Contact: SuperQuiet Heron or Gentle Heron Webpage <u>InterNewwy</u> theherone incluary into

The Heron Sanctuary is a community of support for all disabled people. The community offers members: information, companionship, a way to make a living and to contribute to the community, and a way to have fun. These are all things everyone wants; the disabled community has specific needs that can best be met in the virtual environment of Second Life.

Touch for a take-away notecard

Featured Health Resources & Sites at Second Life

Touch for a take-away notecard

### Featured site

### The Autistic Liberation Front

Porcupine (25,184,107)

### What's there?

Conferences, workshops, activism, an Autism museum, and a hangout by and for autistic people

Touch for a take-away notecard

# The Second Life Medical Library 2.0

Medical



Press ESC to leave Mouselook.

**Closest** match

## PubMed Search

#### Showcase for what is possible

Result #2 Bothlinum toxin type A as a migraine preventive treatment. For the ... th.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list\_uids=10849039&dopt=Abstract

Revealed opatients want from acute migraine treatment? http://www.nobinium.nimgov/entrez/querningi?dmd=Retneve2.db=PubMed2.list\_uids=155959892.dopt=Abstract fittp://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMedzist\_nids=14693316&dopt=Abstract

Result #4 Identifying patients who require a change in their current acute ... hib.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list\_uids=15265

Result #5 Costs and outcomes of early versus delayed migraines reaman http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&lls 030&dopt=Abstrac

Send me a keyword search on channel 2 Last search was for: migraine treatment **Currently searching: PubMed** 

History 🛃 Start

Sav

Shout

Gestures NL







# Also in Second Life

## We want you

as a Red Cross Volunteer

# Help build Red Cross Island

Red Cro

touch for a TP to the Red Cross

# Some Virtual Medical Sims in SL

- Virtual Neurological Education Center
- HeartMurmer sim
- Virtual Hospital at Imperial College London
- <u>GenePool</u>
- **Anne Myers Medical Center**
- UC Davis' Virtual Hallucinations
- **NLM** Toxtown
- Centers for Disease Control and Prevention
- Play2Train
- **MD Kiosk : CEC Courses**

Central Medical Library, UMCG Digicmb.blogspot.com

#### Second Life Search Toolbar

## **Virtual Neurological Education Center**



Home (((Sound ON))) Town Map Help About Español Tox & Health Neighborhoods

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**Offices & Stores** 

Carbon Monoxide Chromium

-

Homes

Benzene

#### Tox Town

#### Text Version

#### Welcome to the Town

An introduction to toxic chemicals and <u>environmental health</u> risks you might encounter in everyday life, in everyday places.

#### Neighborhoods

Select a view of the **Town**, <u>**City**</u>, <u>**US-Mexico Border**</u>, <u>**Farm**</u> or <u>**Port**</u> to learn about suburban, urban, rural, border and coastal health risks.

#### Locations

Click on a location in the neighborhood, like the school, and find out more about the chemicals that could be in that location. Also learn about health risks that might be in that location.

#### Chemicals

Roll your mouse over a chemical name to see where it might be found in the neighborhood. Then click the button for selected Internet information on that chemical.

 Are these chemicals in MY community?

## SL Health Information Outreach Research Lab

School

HPRE

Park

Lead

All Locations

All Chemicals

7



Factory

Asbestos

**Drinking Water** 

Arsenic







## **Anne Myers Medical Center**

ala sala

-

Ann Myers Medical Center

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Maartaan Jahan Haar Helim Magaal Ana talama ja UNIX AND A

#### Virtual Hospital at Imperial College London



## HeartMurmer sim



# Platform for future healthcare training applications

PLAY2TRAIN

## www.Play2Train.org



# New! SL Healthy wiki

## http://slhealthy.wetpaint.com/

# All health sims in SL

# Limits & Thresholds

- Sytem Requirements & fast growth
- Interface (takes time to learn)
- "content management" poor
- Interaction met Web still limited
- Account & login needed
- Public Image: sex, violence & gambling

# But the positive thing is

- Visual & Communities : Social environments
- Web3D developments
- Gaming & learning & training
- Cooperation & collaboration

# Some observations

- (small) Libraries alone, is not optimal: you need large communities and/or mixed interest
- Local, regional, national collaboration can work!
- But international collaboration is more logical
- Location and authority does matter, even in a virtual world
- The personal touch still important
- Extra dimension to communication & reference work

# Invitation

- Come and have a look at HealthInfo Island!
- I will arrange special Tours for EAHIL members for free ;-)
- There are options to explore SL for your Health organisation without costs!
   Ask Namro Orman or Carolina Keats (or just email me)



# Thank you for your attention.

<u>http://digicmb.blogspot.com</u> <u>http://del.icio.us/digicmb/</u> <u>http://slideshare.net/digicmb</u>