Clinical Research Seminar

Using the Internet to Conduct Research and Recruit Subjects

Don Allensworth-Davies, Research Manager Christine Chaisson, Director Data Coordinating Center Boston University School of Public Health



Boston University School of Public Health Data Coordinating Center

Types of Studies that Work Best

- □ Cohort Studies
 - Loss to follow up may be a problem
- Health Education
- □ Surveys
 - difficulty determining denominator and low response rate issues raise issues about generalizability
- Traditional Clinical Trials
 - Randomization
 - Data entry
 - Study management/communications
- Online Clinical Trials
 - "Nutriceuticals" or non-invasive interventions

Benefits of Internet in Research

- □ Capture data in real time
- Data collection for clinical research
 - Paperless
- Communications and management for mutlisite trials
- Subject recruitment
 - Reach greater target population

Risks

- □ No direct contact with subjects
 - Unable to intervene if subjects become distressed or experience other adverse events
- □ Breach of confidentiality
 - Most common risk
 - Via insecure transfer of data
 - Via environment in which subject is accessing Internet (e.g., Internet café, public library)

Validity

- Non-representative populations (i.e., tend to be of higher SE and educational status)
- □ Falsification of data
- Multiple submissions by same subject
 - "Subject naught"
- Invalid results places subjects unnecessarily at risk

Consent

- □ Waiver of consent
 - [45 CFR 56.116(d)]: (1) The research involves no more than minimal risk to the subjects;
 - (2) The waiver or alteration will not adversely affect the rights and welfare of the subjects;
 - (3) The research could not practicably be carried out without the waiver or alteration;

-AND-

(4) Subjects will be provided with additional information/results after participation

Consent

- □ Waiver of documentation of consent
 - [45 CFR 56.117(c)]: (1) Only record linking subject to research would be the consent document and this is the primary risk of harm (i.e., in the event of breach of confidentiality) -OR-
 - (2) Research presents no more than minimal risk to subjects and involves no procedures for which written consent is normally required outside of the research context
 - Can still create a consent page that subjects must read and electronically accept before proceeding
- Subjects may also print/sign consent form from Internet and fax/mail to investigator to receive password for website

Privacy

□ Identifiable vs. Anonymous

- Screen names/handles/e-mail addresses commonly used online
- Though subject names may not appear with these, often can be "readily ascertained" via search engines
- Online identity may be as important to a subject as real identity

Privacy

- Public vs. Private
 - Most online activity is publicly accessible
 - Federal regulations base definition of private information on the "reasonable expectation" of privacy
 - e.g., chat rooms, chatters expect privacy and not to have their chat studied

Minors as Subjects

- □ If research qualifies for waiver of parental permissions, no additional safeguards required
- Otherwise parental consent must be obtained unless criteria for Waiver of Informed Consent or Waiver of Documentation of Informed Consent are met
- Online services can help but none are 100% foolproof
 - AdultCheck
 - NetNanny

Confidentiality

- □ Breaches
 - Inadvertent disclosure (e.g., stolen laptops/computers with subject data)
 - Deliberate attempts to gain access (i.e., hackers, no documented evidence of this occurring in a research setting)
- E-mail is considered "individually identifiable information" by IRB
- Information or data transmitted by e-mail is not secure unless additional steps are taken (e.g., encryption)

Web Systems Security

- Website on secure server behind firewall
- Server housed in locked room with restricted access
- Data are encrypted (Secure Socket Layering (SSL) technology)
- □ Login restricted by username and password
- □ Automatic timeout
- Daily backup of web-server and database

Subject Compensation

- Several Different Approaches May Be Used
 - Mailed check/cash
 - E-money (e.g., PayPal)
 - Electronic gift cards (e.g., giftcertificates.com)
 - Charitable donation
- □ Be careful with raffles!
 - Closely scrutinized by IRB
 - Must be conducted in a way that is equitable to all subjects

Study Advertisement/Recruitment Sites

- Online search engines
 - Google
 - Yahoo
- □ Links on other sites
 - Gout.com
- Trial listing services
 - Centerwatch
 - Study response project
- Banner Ads
 - Gay.com
- □ NIH
 - ClinicalTrials.gov

Example of a Recruitment/Study Registration Site

The StudyResponse Project

Address 🙆 http://studyresponse.syr.edu/studyresponse/index.htm

🗸 🔁 Go 🛛 Links 🎽 🔾 Goog



Home

Information for Participants Participant Registration Participant Update

Information for Researchers

Researcher Registration

FAQ Meet the founders

Welcome to StudyResponse!

An Online Social Science Research Resource

The StudyResponse project facilitates online research for behavioral, social, and organizational science researchers by distributing email participation requests to adult research participants. The StudyResponse project accumulates the characteristics and outcomes across research studies in order to explore the features of studies that encourage quality responding. The StudyResponse project is hosted by the School of Information Studies at Syracuse University and has received institutional review board approval (#02165).

We need you to participate in online research!

Every StudyResponse research project offers incentives for voluntary participation in social science research. Many of the projects are questionnaires about topics that people find interesting. By <u>registering</u> with us as a research volunteer, you may be able to:

Dotain incentives while participating in social science research.

Learn about current social science research topics

Contribute to the development of social research and its applications in the family, the workplace, and society

Centerwatch Clinical Trial Site



Welcome to the CenterWatch Clinical Trials Listing Service!



Institutional Research Subject Recruitment





Disclaimer

Disease Specific

BU ALZHEIMER'S DISEASE CENTER

Donate Contact











ABOUT US

CLINICAL CARE

OUR RESEARCH

OUR TEAM

JOBS & CAREERS

RESEARCH PARTICIPATION

Why Participate in Research?

Your participation in research provides important information regarding possible effective treatments and preventions for Alzheimer's disease. Only through community participation in research will progress be made in the fight against Alzheimer's disease.

Types of Research Studies and Their Purpose

We have several different types of ongoing studies at the ADC. Each study has its own goals. Our <u>memory and aging</u> studies help us to learn about the changes that occur in people's memory as they age. <u>Clinical trials</u> (or treatment trials) and prevention trials help to determine if new or currently used medications can prevent Alzheimer's disease or slow its progression. Our family and <u>genetic studies</u> look at the link between Alzheimer's disease and genetics; these studies help us to understand genetic risk factors associated with Alzheimer's disease.

<u>Caregiving studies</u> specifically focus on issues related to activities in daily life, such as driving, coping emotionally with caregiver activities, and support strategies for caregivers. Our <u>imaging studies</u> help us learn how brain images can provide more information about diagnosing and detecting Alzheimer's disease. If we can identify changes that are occurring in the brain throughout the disease process, we can help to diagnose and treat people with Alzheimer's disease as early as possible in the disease

ABOUT

- Mission
- Center Cores
- ADCRP
- Ethnicity and AD
- How Can I Help?
 - Monetary Donations
 - O <u>Research</u>
 - <u>Participation</u>



(Click on image to play video)

Craig's List

- For local research studies. However, note there are many restrictions on posts:
- Cannot post continuously
- □ Cannot post same ad repeatedly
- □ Cannot post same ad in more than one city at a time
- Restrictions vary by city
 - Designated cities restrict posts to 3 days (Boston, San Francisco, New York)
 - Other cities allow posts for up to 45 days

(i) http://boston.craigslist.org/ ddress.

craigslist boston * gbs nwb bmw nos sob us cities us states countries atlanta alabama austin alaska boston. arizona community jobs housing chicago arkansas activities lost+found apts / housing accounting+finance post to classifieds dallas california artists musicians rooms / shared admin / office colorado denver childcare local news sublets / temporary arch / engineering houston connecticut my account politics las vegas de general housing wanted art / media / design los angeles delaware help, faq, abuse, legal rideshare biotech / science groups housing swap miami florida vacation rentals volunteers business / mgmt pets minneapolis georgia events parking / storage customer service LIGSSES new york guam search craigslist office / commercial hawaii education orange co philadelphia idaho food / bev / hosp real estate for sale personals \triangleright * phoenix illinois for sale general labor strictly platonic portland indiana government for sale women seek women raleigh iowa sacramento kansas human resources women seeking men arts+crafts and the state of t barter san diego kentucky internet engineers men seeking women bikes auto parts louisiana

event calendar							
S	М	Т	W	Т	F	S	
8	9	10	11	12	13	14	
15	16	17	18	19	20	21	
22	23	24	25	26	27	28	
29	30	1	2	3	4	5	

avoid scams & fraud personal safety tips craigslist blog avaigatist fastabast

rants and raves discussion forums 1099 gifts pets haiku philos apple arts health politic atheist help psych

men seeking men

casual encounters

missed connections

misc romance

boats baby+kids books cars+trucks business cds/dvd/vhs computer clothes+acc free collectibles furniture electronics farm+garden general jewelry games+toys material garage sale household rvs sporting motorcycles

legal / paralegal manufacturing marketing / pr / ad medical / health nonprofit sector real estate retail / wholesale sales / biz dev salon / spa / fitness security skilled trade / craft

seattle sf bayarea wash do more canada calgary edmonton halifax montreal ottawa toronto vancouver victoria

maine

mass

maryland

michigan

minnesota

mississippi

missouri

montana

n carolina

nebraska

new jersey

nevada

n hampshire

💙 ラ Go

Links

argentina australia austria bangladesh belgium brazil canada caribbean chile china colombia costa rica czech repub denmark egypt finland france germany great britain greece hungary india indonesia ireland israel italy. japan korea lebanon malaysia mexico micronesia netherlands

Coogle G = g'

Craig's List "Volunteers"

Would you like to change a life in one hour a week? -

Eco Designs -

Dedicated Volunteers Needed -

Healthy Women Volunteers Needed 45-64 years old - (BWH)

Brain Imaging Research Study of the Social Brain in Autism - (Boston University School of Medicine)

Volunteers to help with hospital equipment going to poor countries - (North Andover, MA)

Fun people needed!!! - (Beverly)

<u>Psychology study on emotional pain and self-injury</u> - (Harvard University)

Do you have Asthma and allergy to cats or dust mites? - (BOSTON-MGH)

Participants needed for non-invasive vision studies - (Cambridge/Central Square/MIT)

Couples Needed for Study of Veteran Relationships - (Jamaica Plain)

Has somebody suggested you cut back or quit drinking? - pic

Spend time with a needy person - (Reading)

Website for NIH Funded Research

Address 🙆 http://clinicaltrials.gov/

ClinicalTrials.gov

ClinicalTrials.gov is a registry of federally and privately supported clinical trials conducted in the United States and around the world. ClinicalTrials.gov gives you information about a trial's purpose, who may participate, locations, and phone numbers for more details. This information should be used in conjunction with advice from health care professionals. <u>Read more...</u>

Search for Clinical Trials

Find trials for a specific medical condition or other criteria in the ClinicalTrials.gov registry. ClinicalTrials.gov currently has 57,460 trials with locations in 156 countries.

Investigator Instructions

Get instructions for clinical trial investigators/sponsors about how to register trials in ClinicalTrials.gov.

Background Information

Learn about clinical trials and how to use ClinicalTrials.gov, or access other consumer health information from the US National Institutes of Health.

Resources: Understanding Clinical Trials What's New Glossary Study Topics: List by Condition List by Drug Intervention List by Sponsor List by Location

Links * Google G-Is.gov - *

Home Search Study Topics

🔘 Set

🔁 Go

Disease Specific Sites: Link on TAP's Gout.com



Case Study: The Non-Gay Identifying Men Who Have Sex with Men Studies (US and India)

□ Compensation

- US: giftcertificates.com
 - Eligible <u>AND</u> ineligible subjects randomly selected for online gift code
 - Code was displayed in a separate window with text warning respondent to print or carefully write down code (i.e., <u>NOT</u> e-mailed)
- India: Used similar method with an online vendor in India

Case Study: The Non-Gay Identifying Men Who Have Sex with Men Studies (US and India)

□ Recruitment

- US: Google AdWords, gay.com, manhunt.com, African-American and gay community newspapers (Boston, NYC, Washington DC)
- India: Banner advertising in gay chat room on indiatimes.com website



Accrual of Eligibles and Ineligibles: March 29, 2005-January 3, 2006



Internet in Clinical Trials

- □ Study management and communications
- Randomization
- Data collection
- Real-time SAE reporting
- Data querying
- □ Real-time reporting
- □ Form dissemination
- □ FAQ
- □ Etc.

Great for International Trials



Welcome to the **DIFLUNISAL TRIAL**

Participating Sites:



Boston University, USA



University Hospital San Matteo, Pavia, Italy



Mayo Clinic, USA



Kumamoto University, Japan



Shinshu University, Japan





Umea University, Sweden

Investigator Login:

Investigators
Boston

Data Entry, Screening, Randomization, Tracking



If you forgot your password or you are a new user, then please click here.

Stratified Randomization



Randomization

Screening ID Re-enter Screening ID		
Study ID Re-enter Study ID		
Last Name, First Name	2	
Birth Date (mmddyyyy)		-
Gender		
Race		
Hispanic Dependence and Recent Use		
[Check Entries	

Home

Confirm Eligibility and Randomize



Home Assign group Subject

	Screening ID:	5243
	Subject ID:	1032
	Subject Initials:	MMR

Eligibility check list

The subject has been Randomized into the intervention group. The Subject ID is 1032.

✓	HIV diagnosis confirmed
✓	Between 18 and 70
✓	Subject has a telephone
✓	Subject lives within 150 miles
✓	Subject is not trying to become pregnant
✓	Subject can provide 2 contacts
✓	Subject does not have legal charges pending
\checkmark	Subject meets the drinking requirements

Real-time Reporting

(HRI-Russia	
F	Home
Enrollment Report	
Export PDF File	

	Male	Female	TOTAL
Screened	78	29	107
Eligible	55	23	78
Consented	50	23	73
Randomized	50	23	73

	A	В	TOTAL	
Randomized	38	35	73	
Gender: Male	26	24	50	
Gender: Female	12	11	23	
IVD: Yes	19	17	36	
IVD: No	19	18	37	
Site: 1	38	35	73	
Site: 2	0	0	0	

Electronic Data Capture "Cleaner"

Interviewer Read:

Now I'm going to ask you about some symptoms or problems.

Interviewer Instruction:

If the answer to Part A is YES, ask when they had the symptoms. Note: PAST = you had the symptom or problem in the past (more than three months ago) but no longer have it. If the answer to Part A is NO, skip to the next question.

	Symptom	A Have you ever had it?			B When did you have it?		
		Yes	No	DK	Now	Past	DK
2.1	Trouble hearing	1 💿	2 🔘	8 ()	1 💿	2 🔘	8 🔘
2.2	Ringing in ears	1 🔘	2 💿	8 🔘			
2.3	Wear a hearing aid	1 💿	2 🔘		1 🔘	2 🔘	8 🔘
2.4	Trouble swallowing		2 🔘	8 💿			

Secure, Web-based Data Querying (no faxes)

Evaluation Center for HIV & Oral Health



Home | Data Entry | Reports | Search | Log Out |

Data Problems

Include Corrected Problems?

Please click on a reason to open a particular problem and resolve it.

Site	Client	Visit Date	Reason	Corrected Value	Original Value	Created	Problem Corrected Resolved
2	demo3	01/08/2008	Birthdate is greater than HIV date			01/10/2008	
2	Peter0808	08/08/2007	Q28 Must select an option chosen in Q27			09/27/2007	
2	SusieQ123	08/08/2007	Q28 Must select an option chosen in Q27			09/27/2007	
2	test3	01/05/2008	Birthdate is greater than HIV date			01/09/2008	

Web-based Problem Resolution

Include Resolved Problems?

Page Please click on a reason to open a particular problem and resolve it.

Navigation

Home Page

Main

Search BMC Correcte d Print Teleforms DOB Counselor Interviewed MRN First Last Reason Value Comment Created Reports M 09/10/2007 3034858 A. 6 Alcohol AND drug use in the last 30 10/01/2007 days > 0 but either 30 day alcohol is MaSBIRT Report blank or zero OR all of the 30 day Activity Report drug questions are blank or zero. 3 09/25/2007 3516464 9 Duplicate last name, first name, dob, 10/03/2007 Report Archive and MRN with a different SSN Lists 3 10/03/2007 08/22/2007 3516464 9 Duplicate last name, first name, dob, Problem List and MRN with a different SSN 09/21/2007 2130225 7 9 Duplicate MRN with same Interview 10/10/2007 Flagged List Date and Counselor ID Query List $\mathbf{7}$ 09/21/2007 2130225 9 Duplicate MRN with same Interview 10/10/2007 Date and Counselor ID 5 09/19/2007 2765425 9 HQ is complete and substance abuse 10/10/2007 reported (pg.1), but 'Alcohol in past 3 months' (pg. 1) not answered. 09/20/2007 3340951 4 Alcohol AND drug use in the last 30 10/10/2007 days > 0 but either 30 day alcohol is blank or zero OR all of the 30 day drug questions are blank or zero. 10/03/2007 3514439 1 Substance abuse NOT reported 10/22/2007 (Pg.1), but BI was indicated (pg.11) 10/22/2007 10/09/2007 2785668 8 Substance abuse NOT reported 4 (Pg.1), but BI was indicated (pg.11) 3 05/22/2007 3544831 8 Duplicate last name, first name and 10/22/2007 dob with a different MRN 3 09/19/2007 3544818 10/22/2007 8 Duplicate last name, first name and dob with a different MRM
Click-through to Correct Data

MaSBIRT Web Site

Navigation	D	Data Problem Correction Page		
Main	Counselor	4		
Home Page	Interview	8/23/2007		
Search	Date			
Print Teleforms	BMC			
Reports	MRN			
MaSBIRT Report	First			
Activity Report	Last	(
Report Archive	Reason	Substance abuse was reported in prescreen and the questionnaire was completed but no substance abuse was reported for any of the substance		
Lists				
Problem List				
Flagged List		categories.		
Query List	correction	Please enter a corrected value, if possible. If the correction can not be expressed as a single value, please enter a comment.		
	Corrected Value			
	Comment	Substance abuse reported for marijuana		
	Created	11/7/2007 11:34:00 AM		
	Submit			

Online Clinical Trials: Nutraceuticals

I B E R Center for Internet-Based Epidemiologic Research

Services

Projects



Contact Us Site Map Search This Site FAOs

750 Washington St Tufts-NEMC #406 Boston, MA 02111

866.832.1936

PROGRESSION OF KNEE OSTEOARTHRITIS: A DOUBLE-BLIND, PLACEBO-CONTROLLED ONCE WEEKLY DOSING REGIMEN

VITAMIN D FOR KOA

Symptomatic knee OA has an incidence of 240/100,000 person/years and is one of the most frequent cause of dependency in lower limb tasks, especially in the elderly. It causes 68 million work loss days per year and more than 5% of the annual retirement rate1-3. It is the most frequent reason for joint replacement at a cost to the community of billions of dollars per year. No effective medical remedies for OA currently exist. However, the pharmaceutical industry is attempting to develop drugs that retard progression of OA. If efficacious, these proprietary medications will be expensive to employ in a population in which OA is endemic. Furthermore, there is evidence that vitamin D supplementation, a simple non-proprietary intervention, could slow progression of OA. Even if only modestly effective, it could have considerable impact by reducing the societal burden of OA.

This is a randomized clinical trial using Internet-based randomization, electronic data capture, coordination and monitoring. The Tufts-New England Medical Center Department of Rheumatology will be enrolling participants with knee pain to participate in this trial. Vitamin D 14,000 IU will be compared to placebo in a randomized placebo-controlled clinical trial testing the efficacy of vitamin D, 14,000 IU versus placebo taken orally once per week, as a disease-modifying agent among individuals with symptomatic knee osteoarthritis (OA). Tolerability and safety will be assed by adverse effects (AE) reporting, physical examination, vital signs, and clinical laboratory tests. The primary clinical outcome will be assessed by changes in the WOMAC questionnaire. The primary pathological process measure will be change in knee cartilage volume as measured by magnetic resonance imaging (MRI).

This study is being conducted at Tufts-New England Medical Center.

©2006 Center for Internet-Based

Example: Paperless Trial System

- □ MGH / Roche Diagnostics collaboration
- □ Web-based electronic data capture
- Double entry of paper forms
- □ Data cleaning (queries)
- □ Monitoring
- □ Reporting
- Data exporting
- □ Electronic Signature (21 CFR, part 11)

MGH PROTECT Study

Logout

Reports	Forms (data entry)	Queues
Visit Status Summary	Inclusion/Exclusion	Awaiting Double Entry
Baseline Demographics	Minnesota Questionnaire	Awaiting Data Checking
Interim Medical History Endpoints	Baseline Demographics	Awaiting Problem Resolution
Decompensated CHF and NYHA Classes	Interim Medical History	Awaiting Monitoring
Data Problems	Concomitant Medications	Awaiting Signing
Protocol Deviations	Living Condition/PE/EKG	Signed
View Forms By Subject ID	Treatment Decision	
	Adverse Events	
	Echocardiogram	
Excel Files	Lab Data	
Monitor Initiated Data Problems	End Lab Data	
Enrollment Date	Discontinuation	



Possibilities

- "We now have the potential to conduct a cohort study of users of the World Wide Web" ...
- "...[the Internet] can have people recruit themselves, enter their own data into our computers, and provide for fast, convenient electronic follow-up."

Rothman KJ, Cann CI, Walker AM. Epidemiology and the internet. Epidemiology 1997; 8:123-5.

Example of Cohort Study

Internet-based study of time to pregnancy

- Elizabeth Hatch, Kenneth Rothman Laura Wise, BUSPH co-investigators
- Study taking place in Denmark where centralized medical records are available
- Subjects consent online and provide Central
 Population Registration # and consent to view
 record

Internet-based Study of Time to Pregnancy

- □ Over 7,000 women screened to date
- □ 3,700 eligible and have consented to take part
- Subjects followed bi-monthly or until pregnant
- □ 85% of subjects had 4 month follow up
- Self reported medical history validated against medical record

Online Gout Study, Yuqing Zhang, PI Study

- Subjects recruited online
- □ Each subject serves as own control
 - control period= no symptoms
 - hazard period = acute attack
- □ Online consent with waiver of documentation
- □ All study questionnaires completed online
- Disease status and symptoms confirmed with medical records

Case-crossover Study of Triggers for Gout



Recruitment Plan

- 1 Referral through former rheumatology fellows
- 2 Banners/ads and links to other sites
- 3 Search engines (link to search terms)
- 4 Prevention magazine
- 5 e-Zines
- 6 Set up a chat room
- 7 Traditional print media

Costly or difficult to get permission

Only 1 subject enrolled

Google

Lag time for publication

Not up to our standards

Too time intensive/ Concern re Medical questions Expensive, too many markets

Online Search Engine



		Advanced Search Preferences
Google Search	I'm Feeling Lucky	Language Tools

Advertising Programs - Business Solutions - About Google

@2008 Google

Google Ad Linked to Search Term

Web Images Maps News Shopping Gmail more -

Google

gout research

Search Advanced Search Preferences

Web

Gout Cure - Gout Research - Clinical Trials for Gout ...

Gout research and clinical trials lead to better understanding of **gout**, hyperuricemia, and pseudogout. Researchers focus on finding the causes of **gout** and ... arthritis.about.com/od/**gout**rese/**Gout_Research_Gout_**Clinical_Trials.htm - 23k - <u>Cached</u> - <u>Similar pages</u>

Gout - Information - Causes - Diagnosis - Symptoms - Treatment

Learn more about **gout** basics, history, cause, diagnosis, treatment options, prevention, **gout** diet, **gout** medications, and **gout research**. ... arthritis.about.com/od/**gout/Gout_Gout_** Information_Cause_Symptoms_Medication_Treatment.htm - 30k - <u>Cached</u> - <u>Similar pages</u> <u>More results from arthritis.about.com »</u>

Gout : by Ray Sahelian, M.D., Gout research, diet and supplement ...

Gout Research Update In middle-aged men, high blood levels of uric acid are a strong predictor of death, from both cardiovascular disease and all causes. ... www.raysahelian.com/gout.html - 24k - <u>Cached</u> - <u>Similar pages</u>

Gout - researchDiet & Lifestyle

Health Problems **Gout Research** Diet & Lifestyle ... Dr Blau's **research** led to many other people suffering from **gout** who reported being helped by cherries. ...

.

Gout Information

Results 1 - 10 of about 580,000 for gout research. (0.23 s

Get Information On Gout, Plus Treatment & Prevention at AOL® Bod Body.AOL.com

Sponsored Links

Crossroads Research, Inc.

Conducting Quality Clinical Trials Independent **Research** Site- Marylanc www.Crossroaustrescorch.net

Do you have Gout? Help

with an online **research** study Boston University Medical Center bumc.bu.edu/**gout**study

Gout Arthrus Info

Learn About the Condition, Gout. Find Answers to Your Questions RevolutionHealth.com/Arthritis

Incentives

- 5 Points accumulated for each questionnaire with \$1/point cash pay-out at end of study
- Gout Study' pens mailed with Medical Record Release forms as incentive to sign and return forms



GOUT SUBJECTS BY STATE



Study Continues: Gout II

- Original Gout Study: 02/03 05/05
- New Gout Study: 11/05 -
 - Recruitment strategy to use
 Google based on results of Gout I

But Things Change...

- In the meantime, Google went public and prices went up -- dramatically
- Ad placement went from first or second ad to third or fourth
- $\Box \quad \text{Cost/click rose from } \$0.16 \text{ to } > \$0.40$
- Click-through rate dropped from 6.9% to
 2.4%

RECRUITMENT: G1 VS G2

Ad displayed: 866,703 NEW 2,084,013

> Ad clicked: 58,369 NEW 50,668

Screened: 2,857 NEW 2,110

Eligible: 2,064 NEW 1,578

Search Engine Ad Cost: \$9,339 (\$34/subject) NEW \$87 Enrolled: 742 <u>NEW 469</u> Subjects: 272 <u>NEW 185</u>

Haz & Ct: 197

90

G · 🕑 · 💌 🗷	🟠 🔎 🛧 🥹 🙆 - 🔜 🏭 🦓 👘 🖓			
Chat	Up Thread Message Index View Source Message 5251 of 5408 < Previous Message Next Unwrap Lines Message >			
Files Photos	Reply Forward Delete			
Links Database	From: "Online Gout Study" <goutstudy@yahoo.com>goutstudyDate: Tue Nov 29, 20056:14 pmImage: Confine Gout StudySubject: Online Gout StudySend Email</goutstudy@yahoo.com>			
Polls Calendar	Subject: Online Oddt Study			
Promote	Hi All, Boston University is conducting an online study to determine possible			
I Groups Tips Did you know You can promote your group from your own Web site?	<pre>boston oniversity is conducting an online study to determine possible triggers for acute gout flares. If you have had an acute gout attack within the past year, reside in the US and would like to participate, we could use your help. All questionnaires are completed entirely online and all information is strictly confidential. For more information please visit our website: https://dcc2.bumc.bu.edu/goutstudy/</pre>			
! 360° Keep connected to your friends and family through blogs, photos and more. Create your own 360° page now.	If you have questions or concerns about this study, please contact us at goutinfo@ Thanks, Online Gout Study			
e 1				

Typical Chat Room Postings

Why yes, I do have a few questions or concerns about this study.

(1) Why is the listed website close to, but not actually, a BUMC website? Why is the root site "under construction?"

(2) Why is the author or organizer of the study remaining anonymous - "Online Gout study," forsooth.

(3) What level of statistical control could you possibly expect by polling a group?

Beware that gout study. They insist on sending emails to you as attachments instead of as text and they will send annoying 'thank you' messages and 'birthday greeting' messages.

> another plek trying to milk the gout group of hard earned cash no doubt. "I" > miss the gout police arnold and walter they would have sussed out this dodgy

> character

Current Strategies

- □ Google advertisements
- □ Link on Gout.com
- Postings under volunteer section of Craig's list (selected cities)
- □ Link on Centerwatch

Hits to Online Gout Study Website in Last Year

- □ Google Ads : 36,488
- □ Craigslist: 596
- □ TAP website, gout.com: 182
- □ CenterWatch : 1



Journal of Clinical Epidemiology 60 (2007) 50-55

Journal of Clinical Epidemiology

The online case-crossover study is a novel approach to study triggers for recurrent disease flares Yuqing Zhang^{a,*}, Christine E. Chaisson^b, Timothy McAlindon^c, Ryan Woods^b, David J. Hunter^a, Jingbo Niu^a, Tuhina Neogi^a, David T. Felson^a "Boston University Clinical Epidemiology Research and Training Unit, The Department of Medicine at Boston Medical Center, A203, Boston University School of Medicine, 715 Albany St., Boston, MA 02118, USA "The Data Coordinating Center, Boston University School of Public Health, Boston, MA, USA

^cTufts New England Medical Center, Boston, MA, USA

Accepted 17 April 2006

Conclusions

- Several types of study designs lend themselves to Internet implementation
- The Internet poses unique challenges in risk to human subjects, validity of study data, obtaining informed consent, privacy, confidentiality, and recruitment
- Important to begin with a well-defined target population to determine the feasibility of Internet recruitment and retention
- Things change quickly so be prepared to revise your strategies