

NIAMS Usability Testing

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Agenda - Usability Testing Results

Introduction

Test Description

Highlights

Detailed Findings

Recap of Findings/Recommendations

Introduction

Overall

HFI was ask to evaluate the current NIAMS website design for usability and accessibility, and provide recommendations about changes that could be made to improve the user experience.

Objectives

- Test the user interface of the NIAMS public website
- Identify high and low performing areas on the site
 - translate feedback into suggested improvements

What's a usability test for?

Qualitative research

- Ease of learning
- Ease of use
- Memorability
- Error frequency and severity
- Subjective satisfaction

Bottom line

- Observe real users doing real tasks on your site
- Find the major usability problems

The Test

Date

Thursday-Friday, September 25-26

Place

Bureau of Labor Statistics Usability Lab
Washington, DC

Methodology

- 16 subjects were tested
- sessions were video taped
- a “think aloud” protocol was used to better understand the users’ thoughts regarding problems and the UI

Demographics

#	Name	Type/Occupation
1	Brittany	Medical Journalist
2	Ruth S.	Patient/Skin Disorder
3	Ruth K.	Caregiver/Rehab Counselor
4	Edward	Clinical Researcher/Lab Scientist for Bone Research
5	Wendy	Caregiver/Arthritis
6	Janet	NIAMS Insider/IT Specialist
7	Rocky	NIAMS Insider/Cartilage Biology & Orthopedics
8	Bruce	HS Science Teacher/Dept. Head
9	Brooke	NIH Funded Researcher
10	Adrian	NIH Funded Researcher/Immunology Research
11	Raymond	RN Nurse/Hospital Rehab Unit
12	Calanet	Science Policy Expert/Arthritis Foundation
13	Sean	Science Policy Expert/NSF
14	Dorothy	Older Individual with Science Interest 65+
15	Michael	Physician
16	Rachel	HS Senior/Student

Procedure - Task List (page 1 of 7)

Homepage Evaluation

1. Tell me what you noticed first?
2. What do you think this site is for? What do you think one could do anything using this site?
3. Please point to the things that you expect to be able to click on this page.
Probes> Pictures? Icons?
4. Just looking at how this page looks, what do you think is the most important information on the page?
5. Based on this homepage, what kind of work do you think NIAMS does?
6. Are there any terms or words that are unfamiliar? For professionals: That might seem intimidating or technical for a lay reader/patient?

Procedure - Task List - 2

About NIAMS

7. Arthritis, Musculoskeletal, and Skin Diseases sounds like it encompasses a wide range of ailments. Where do you think you could find a comprehensive list of all the ailments that are covered on the NIAMS website? [A: Health Information > Health Topics]
8. Who is the director of NIAMS [A: About NIAMS > Mission (or Organization...)]
9. Where would you find information about the Pediatric Rheumatology Clinic at NIAMS. [A: About NIAMS > Out Reach Programs > Pediatric Rheumatology Clinic]
10. What is the director's email address and phone number? [A: About NIAMS > Organization...]
11. Is there anything on the website to help you understand the goals and mission of this institute? [A: About NIAMS > Mission]
12. Is there any way to find out how much funding NIAMS had for FY2002? [A: About > Budget and Legislation > Fiscal Year 2002 (447+ million)]

Procedure - Task List - 3

Research & Funding Resources (Skip for Non-Professionals)

13. Where would you look to find out the types/topics of research grants that NIAMS would be likely to fund? [A: Research and Training: Around the Country > Funding Opportunities > Currently Active PAs or RFAs]

14. Does NIAMS provide any grants that are for new investigators? [A: Research and Training: Around the Country > Funding Opportunities > Types of Research and Grant Opportunities > Small Grant for New Investigators]

15. Where would you find the policy on Human Fetal Tissue Research? [A: Research and Training: Around the Country > Grant Applications > Application Forms > Human Fetal Tissue Research] or [A: Research and Training: Around the Country > Clinical Research > NIH Policies > Use of Human Fetal Tissue]

16. Can you find a list of the current funding opportunities (PAs) for Biobehavioral Pain Research? [A: Research and Training: Around the Country > Funding Opportunities > Currently Active Program Announcements]

17. Can you find information on the policy for including human subjects in sponsored research? [A: Research and Training: Around the Country > Clinical Research > NIH Policies > Office for Human Protection...]

18. Are there any resources to help investigators understand the grant application/review process? For instance, how would your grant proposal get reviewed? [A: Research and Training: Around the Country > Grant Applications > Review Process]

Procedure - Task List - 4

19. Is it possible to download a grant application form for a Regular Research Grant? [A: Research and Training: Across the Country > Funding Opportunities > Types of Research and Training Programs > Regular Research Grant - 398]

20. Where would you find information on Fellowship for students with disabilities? [A: Research and Training: Across the Country > Funding Opportunities > Types of Research and Training Program > Predoctoral Fellowships for Students with Disabilities]

21. If you were working on a project about Muscle Biology and wanted to write a grant but were not sure if the topic was appropriate for NIAMS or just wanted to email someone about the process, whom would you contact? [A: Research and Training: Across the Country > Muscle Biology Branch]

22. Have you applied for funding from any other resource? Did the source have a webpage? How does this compare? [A: Careful to not get bogged down here.]

23. Can you get to the homepage from here? [A: Note what participant tries]

Procedure - Task List - 5

Institute Events

24. Can you find any listing of talks/workshops/meetings that are sponsored by or related to work done at NIAMS? [A: Research and Training: Bethesda Campus > Meeting and Events] or [A: News and Events > Upcoming Meetings] or [A: News and Events > Spotlight on Research]

25. Earlier this year there was a meeting of NIH MUSCULAR DYSTROPHY RESEARCH TASK FORCE, can you find information about what was discussed at this meeting? [A: News and Events > Reports > NIH Muscular...]

Health Information (Skip for professions if short on time)

26. Say you just found out that your friend has Arthritis. You heard that there are clinical trials that they could participate in at NIAMS/NIH. Where would you find out about these? [A: Research and Training: Bethesda Campus > Studies with Patients > Search the Studies]

27. Where would you find information about the Patient Research Registry for Muscular Dystrophy? [A: Health Information > Patient Research Registry > Muscular Dystrophy]

28. If you wanted to have some information sent to you on Hip Replacements how would you arrange for that? [[A: Health Information > Order Publications > Hip Replacement]

29. You want to find what Gout is and what can be done to treat it. Can you find this information on the site? [A: Health Information > Gout]

30. Does the site highlight any findings from research done at or funded by NIAMS? [A: News and Events > Press Releases...]

Procedure - Task List - 6

31. We haven't spent much time reading carefully, but from what you have seen, does the information provided in the health section seem easy to understand? [Note comments]

Intramural Research Information

32. Are there scientists doing research right at NIAMS?

33. If so, what kinds of research do they do? (Basic science, applied science, socio-ethical policy)
[A: Research and Training: Bethesda Campus > Labs and Branches]

34. How would you find out about research jobs available at NIAMS? [A: Research and Training: Bethesda Campus > Jobs and Training > NIAMS Employment Opportunities]

35. You heard that NIAMS had a lab that studied Skin Biology. How would you find out more about this lab? [A: Research and Training: Bethesda Campus > Labs and Branches > Lab of Skin Biology]

36. Can you find out who is on the research staff at NIAMS? [A: About NIAMS > Organization and Staff Directory > IRP]

37. Can you find out what they are working on in the Genetics and Genomics Research Branch? [A: Research and Training: Bethesda Campus > Labs and Branches > Genetics and Genomics]

38. Can you access a recent journal publication by Dr. Horowitz in the Muscle Assembly Group? [A: Research and Training: Bethesda Campus > Labs and Branches > Muscle Assembly Group > Selected Publications]

Procedure - Task List - 7

Preparing to Teach (5 minutes)

39. Suppose you wanted to get a speaker to come to your class/organization and give a talk on Arthritis, where could you find information about this? [A: Health Information > Outreach Programs > NIH Speakers Bureau]

40. Can you find any resources to help teachers prepare a lesson about the research done at NIAMS? [A: Health Information > Outreach Programs > NIAMS Curriculum Program]

41. For Teachers ONLY: Suppose you gave your students an assignment to do a report on Acne. Find the information on the site about Acne and tell me if it is detailed enough for this purpose? {A: Health Information > Acne]

42. For Students ONLY: Suppose your teacher gave you an assignment to do a report on Acne. Find the information on the site about Acne and tell me if it is detailed enough for this purpose? {A: Health Information > Acne]

Warm down

43. Where is the NIAMS is located? [A: Contact NIAMS]

44. Where would you find the information about how to donate money to NIAMS? [A: About NIAMS > Budget and Legislation > Donations to the Gift Fund]

Highlights

Findings

Major Issues

1. Top level organization

Research and training link names did not reflect content contained within

2. Some information was difficult to find

ex. Budget info, NIAMS address, policy info

3. Integration with NIH

There are dozens of links to NIH, the integration between the sites needs to be better.

4. Search

Search results were poor, whole site not searched

5. Two sites not one...

Intramural site completely separate from main site

6. Graphic appearance

Boring and geared toward researchers

Video

Video tapes of each subject are available if anyone would like to view the testing...

Findings Top Level Organization



These were too similar, and the big difference between the two was not location... It was the intramural/extramural distinction... These caused a lot of confusion.

[Health Information](#)

Health Topics, Order Publications, Studies with Patients, Patient Research Registries, Outreach Programs, NIAMS Coalition Members

[Research & Training - Around the Country](#)

Overview, Funding Opportunities, Grant Applications, All About Contracts, Clinical Research, Current Funded Research

[Research & Training - Bethesda Campus](#)

NIAMS Laboratories, Studies with Patients (Clinical Trials), Researcher Resources

[News & Events](#)

Highlights, Press Releases, Osteoarthritis Initiative, Upcoming Meetings, Reports

[About NIAMS](#)

Mission, Strategic Plan, Organization & Staff Directory, Employment Opportunities, Budget & Legislation, Outreach Programs, Committees

[En Español](#)

What's New

NIAMS Celebrates the [Bone and Joint Decade!](#)

➤ Agenda for the September 25, 2003, Council Meeting [More...](#)

➤ Questions and Answers about Epidermolysis Bullosa (publication) [More...](#)

➤ Questions and Answers about Psoriasis (revised publication) [More...](#)

➤ Handout on Health: Atopic Dermatitis (revised publication) [More...](#)

➤ Immunomodulatory Drugs in the Treatment of Skin Diseases: What Can We Learn About Pathophysiology? (meeting) [More...](#)

➤ Los niños y sus huesos: una guía para los padres [More...](#)

[Search](#)

Enter words or phrases, separated by commas - [Search](#)
[Tips](#)

Findings Top Level Organization

Research & Training - Around the Country

Overview, Funding Opportunities, Grant Applications, All About Contracts, Clinical Research, Current Funded Research

Research & Training - Bethesda Campus

NIAMS Laboratories, Studies with Patients (Clinical Trials), Researcher Resources

These should be links.

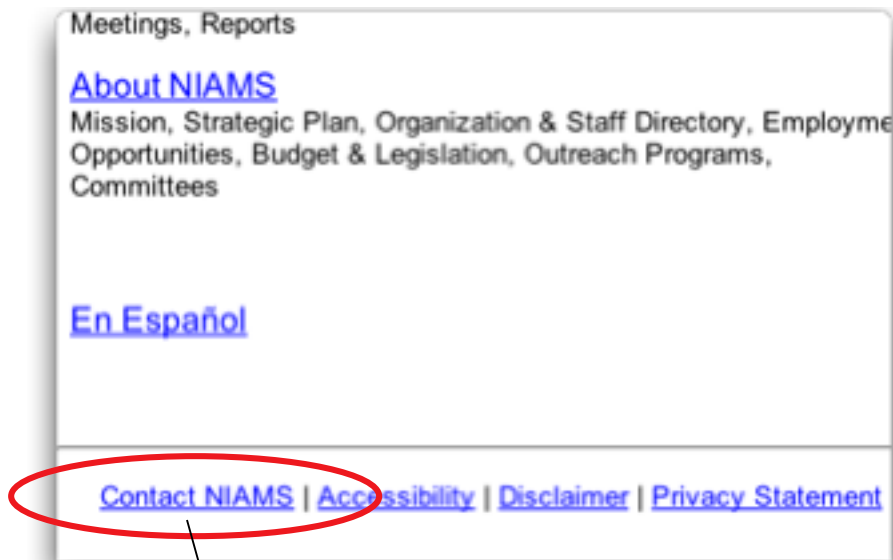
Video Sean #13

13:29:50 2 min, confusion about top level organization

**Suppose you were looking for clinical trials in California...
Users would go to “Around the Country”**

If you were looking for a journal article by a particular scientist, users wondered where they were located.

Findings Some Information Was Difficult to Find



“Contact NIAMS” was well below the fold and difficult for many people to find. Include a link to “Contact NIAMS” under “About NIAMS”

Findings Some Information Was Difficult to Find

Research & Training Around the Country

- Overview
- Funding Opportunities**
- Grant Applications
- All About Contracts
- Clinical Research
- Current Funded Research

Search NIAMS

Funding Opportunities

- Funding Initiatives at NIAMS
 - Current Funding Initiatives Supported by NIAMS
 - Currently Active Program Announcements (PAs) (Grants)
 - Currently Active Request for Applications (RFAs) (Grants)
 - Currently Active Request for Proposals (RFPs) (Contracts)
 - Loan Repayment Program - deadline extended
 - Historic Listings of Opportunities funded by NIAMS
 - Selected NIH Guide Notices
 - Definitions
 - NIH/NIAMS Policy**

Please note that clinical trials and research projects have special requirements under human subject headings in RFAs (PAs) and may require additional information to be submitted with your application, beyond what is outlined in the [PHS 398 Form](#). Please review the RFA (PA) carefully and refer to the [NIAMS Clinical Research Page](#) for guidance in submitting your application.

Policy issues were difficult to find, for example this link was not very helpful, but was often the first one found. The link to the Clinical Research Page was much better.

(link goes to “What’s new in funding...”)

Clinical Research Page is really the “Policy Page”

Findings Some Information Was Difficult to Find

Budget & Legislation

Current and Historical Budget Information

- [FY 2003 Funding Plan](#)
- [Funding Adjustments in FY 2002 and FY 2003](#)

Funding Plans - Prior Years

- [FY 2002 Funding Plan](#)
- [FY 2001 Funding Plan](#)
- [FY 2000 Funding Plan](#)

Mechanism Tables - Prior Years

- [Fiscal Year 2002](#)
- [Fiscal Year 2001](#)
- [Fiscal Year 2000](#)
- [Fiscal Year 1999](#)
- [Fiscal Year 1998](#)
- [Fiscal Year 1997](#)
- [Fiscal Year 1996](#)
- [Fiscal Year 1995](#)

Most did not understand what
'mechanism' was...

Budget & Legislation

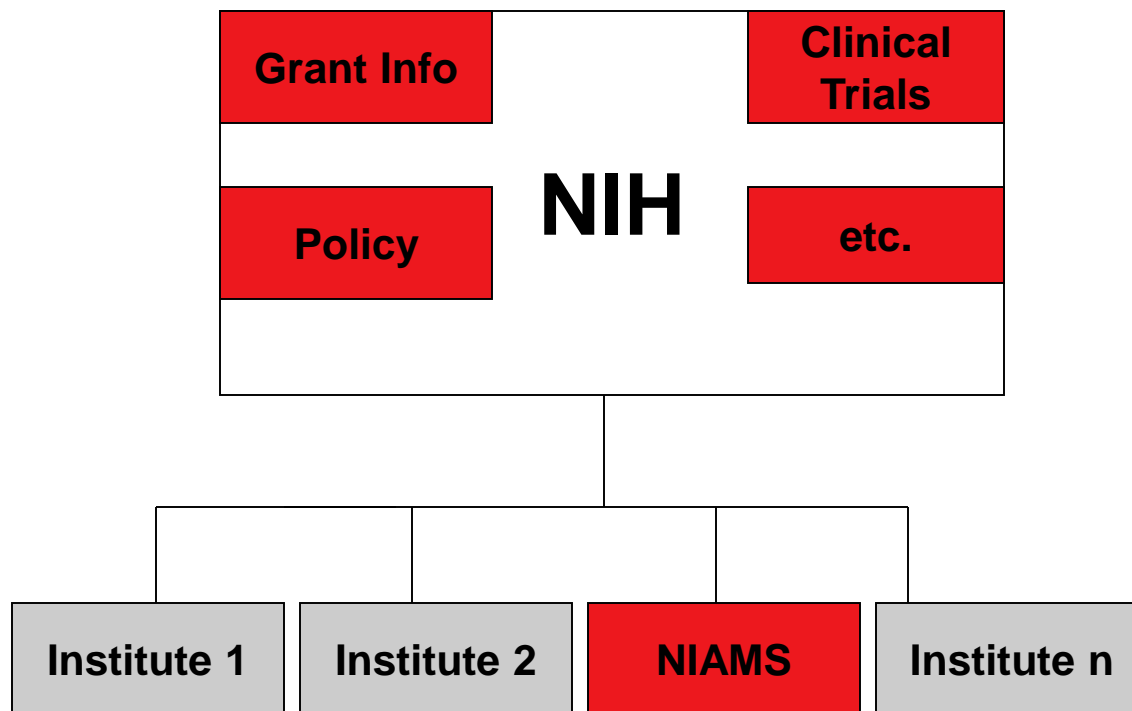
Fiscal Year 2002 Actual Obligations

(Dollars in thousands)

Budget Mechanism	No. of Awards	Amount
Research Grants		
Research Project Grants (RPG):		
Noncompeting	705	\$205,346
Administrative Supplements	(58)	3,168
Competing	257	74,806
Subtotal	962	283,320
SBIR/STTR	35	9,938
Subtotal, RPGs	997	293,258
Research Centers	36	35,442
Other Research:		

This was confusing for most
'outsiders' was this only the research
budget? Some did not see that the
numbers were in 1000s.

Findings Integration with NIH



The trick is to provide NIAMS specific information under NIAMS, and direct the user to the NIH resources for information shared across the institutes.

- Let users know when they are going to NIH**
- When possible pull back NIAMS specific info to NIAMS so users don't have to go to NIH (e.g. clinical trials for arthritis)**
- If you can't pull back the data, try to preformat queries to the NIH databases**

Findings **Integration with NIH**

Some users didn't realize NIH was a totally different site.

Information on Health Disorders

- › [NIAMS Health Information](#) ————— NIAMS
- › [NIH Health Information](#) ————— NIH
- › [Combined Health Information Database](#) ————— NIH
- › [Email for Health-Related Questions](#) ————— NIAMS
- › [NIAMS Information Clearinghouse](#) ————— NIAMS

Participation in a Clinical Research Study

- › [What is a clinical study?](#) ————— NIH
- › [Resource Information](#) ————— NIH
- › [Search the studies](#) ————— NIH

How to participate

- › [Patients and Families](#) ————— NIH
- › [Healthy Volunteer](#) ————— NIH
- › [Physician](#) ————— NIH

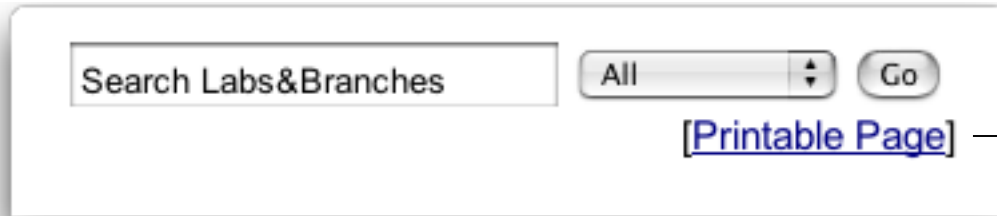
Helpful Resources

- › [Office of the Clinical Director of NIAMS](#) ————— NIAMS
- › [NIAMS Community Health Center](#) ————— NIAMS
- › [IRPartners](#) ————— NIAMS
- › [NIH Osteoporosis and Related Bone Diseases-National Resource Center](#) NIH
- › [Warren Magnuson Clinical Center](#) NIH

- Many links to NIH, all open in new window, which caused much confusion during the test.
- Users are not aware which links take them to NIH.

Findings Search

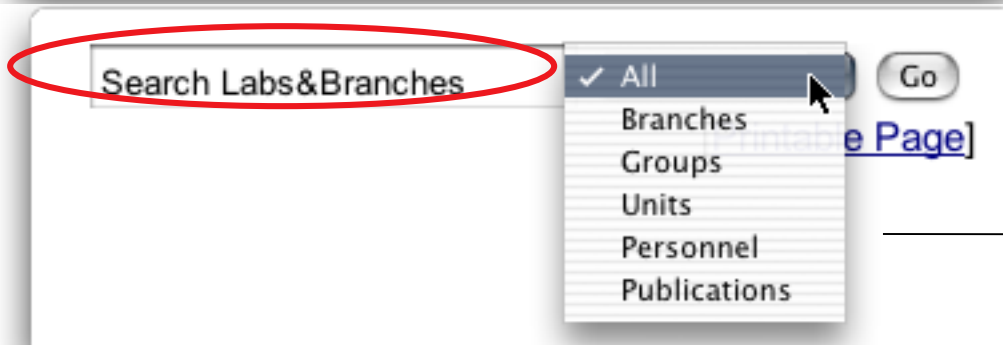
There was no spelling support.



Search Labs&Branches All Go

[Printable Page]

Printable Page link looks like it is associated with search...



Search Labs&Branches

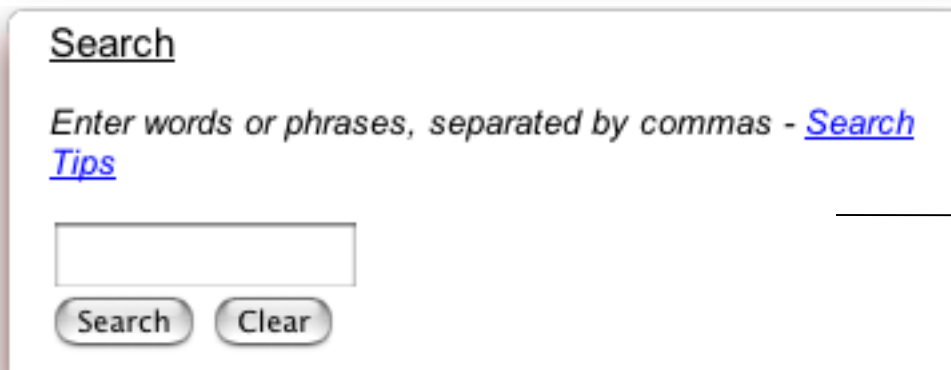
- ✓ All
- Branches
- Groups
- Units
- Personnel
- Publications

Go

[Printable Page]

Drop down was confusing and added little value for the users.

Do not pre-fill the text in the search box.



Search

Enter words or phrases, separated by commas - [Search Tips](#)

Search Clear

Box is too small, many users tried partial word searches.

“Clear” button not necessary.

Search results were poor. Rarely did users find what they were looking for. With a high level of linking of your site to NIH you should make it easy to search both sites at once.

Video
#16 Rachael
16:42:38 2+ min
Also
16:45:24 2+ min

Home Health Information Research & Training Around the Country
Research & Training Bethesda Campus News & Events About NIAMS

Home

- ▶ Contact NIAMS
- ▶ Accessibility
- ▶ Disclaimer
- ▶ Privacy Statement
- ▶ Search NIAMS

NIAMS Search Results

Your current query " **horowits** " matched 0 documents out of 3082.
0 documents displayed.

Rank	Score	Document Information
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Back to top

Intramural search did not search, the rest of NIAMS and the NIAMS search did not search intramural site. No one realized this.

To search everything you needed to do 3 searches on three different sites.
NIAMS, NIAMS Intramural, NIH

No ability to search within results (refine search)

NIAMS Search Results

1 2 3 4 5 6 7 8 9 10 [Next]

Your current query " **arthritis** " matched 847 documents out of 3082.
20 documents displayed.

Rank	Score	Document Information
1	0.75	Reports - Highlights in Arthritis Research from the Science Writers Briefing on Arthritis, May 30, 1997 Size: 16 KB, URL: http://www.niams.nih.gov/ne/reports/sci_wrk/1997/scibrief.htm Summary: The briefing was part of the first biennial Arthritis Research Conference, co-sponsored by NIAMS, NIAID, the American College of Rheumatology, and the Arthritis Foundation, that brought together established researchers and young investigators to discuss t
2	0.75	Nationwide Hunt for Rheumatoid Arthritis Genes Launched: National Institutes of Health and Arthritis Foundation Announce Research Partnership Size: 18 KB, URL: http://www.niams.nih.gov/ne/press/1997/09_04.htm Summary: The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), the National Institute of Allergy and Infectious Diseases (NIAID) and the Arthritis Foundation are announcing today at a press briefing* that they are joining forces to sup
3	0.72	National Institute of Arthritis and Musculoskeletal and Skin Diseases Home Page

The “score” could be eliminated, it adds little or no value for the user. Sorting by date would be more helpful.

NIAMS Search Results

Your current query " **arthritis treatment** " matched 4 documents out of 3082.
4 documents displayed.

Rank Score Document Information

- | Rank | Score | Document Information |
|------|-------|---|
| 1 | 0.40 | FY 2004 Budget Justification
Size: 69 KB, URL: http://www.niams.nih.gov/ne/reports/congree_rep/cj2004/justific.htm
Summary: This document provides justification for the Fiscal Year 2004 activities of the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), including HIV/AIDS activities. The National Institute of Arthritis and Musculoskeletal and Skin |
| 2 | 0.39 | Reports Advisory Council Meeting Minutes June 2001
Size: 45 KB, URL: http://www.niams.nih.gov/ne/reports/advis_coun/2001/sum601.htm
Summary: Dr. Steven J. Hausman, Deputy Director, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), welcomed Council members and called to order the 44th meeting of the National Arthritis and Musculoskeletal and Skin Diseases (NAMS) Adv |
| 3 | 0.39 | Social Experience Seen to Influence Joint Replacement Decisions
Size: 9 KB, URL: http://www.niams.nih.gov/ne/highlights/spotlight/2003/decision.htm
Summary: Mary Charlson, M.D., and her research team at Cornell University conducted a 30-minute telephone survey of hip and knee pain and joint replacement surgery in 515 African Americans and 455 Caucasians. According to the results, 42 percent of African Americ |
| 4 | 0.39 | Questions and Answers about Arthritis and Exercise
Size: 32 KB, URL: http://www.niams.nih.gov/hi/topics/arthritis/arthexfs.htm
Summary: Should People With Arthritis Exercise? What Are Some Pain Relief Methods for People With Arthritis? Local chapters organize exercise programs for people who have arthritis, including People with Arthritis Can Exercise (PACE) and an aquatic exercise progra |

[Back to top](#)

Searches on the Intramural site were very different.
Notice Horowits was found in this search.

Refine your results using the following categories.

Publication	Personnel
<input type="checkbox"/> Author <input type="checkbox"/> Subject <input type="checkbox"/> Journal <input type="checkbox"/> Pub Year	<input type="checkbox"/> First Name <input type="checkbox"/> Last Name <input type="checkbox"/> Title <input type="checkbox"/> Email
Branch	Group
<input type="checkbox"/> Branch Name	<input type="checkbox"/> Group Name <input type="checkbox"/> Keywords
Unit	
<input type="checkbox"/> Unit Name	
<input type="checkbox"/> Printable Result	

search for **horowits** in Publications, 15 results found.

1. Luo G, Zhang JQ, Nguyen TP, Herrera AH, Paterson B, Horowits R. Complete cDNA sequence and tissue localization of N-RAP, a novel nebulin-related protein of striated muscle. *Cell Motil Cytoskeleton*. 1997; 38: 75-90. [PubMed](#)

Findings Two Sites Not One

The main site and the intramural site were completely separate, no one understood this...



The sites looked different, had different navigation, and different searches. This greatly reduces the overall usability of the site.



Findings Two Sites Not One

Main navigation and look and feel were different.



Findings Graphic Appearance

Most users felt the site was designed for researchers and looked boring...

Video
#1 Brittany
9:38:40 2+ min



Another example



genome.gov
National Human Genome Research Institute
Advancing human health through genetic research

**Research**

- ▶ Genomic Research
- ▶ Research @ NHGRI
- ▶ Research Resources
- ▶ More

**Health**

- ▶ Genetics FAQ
- ▶ Genetic Disorders
- ▶ Clinical Research
- ▶ More

**Policy & Ethics**

- ▶ Privacy & Discrimination
- ▶ Health Issues
- ▶ Policy & Legislation
- ▶ More

Search

-  Educational Resources
-  Careers & Training
-  Grants
-  About NHGRI

**Newsroom**

- [Study Compares 13 Vertebrate Genomes](#)
August 13, 2003
- [Genome Researchers Analyze Chromosome 7](#)
July 9, 2003
- [Novel Mechanism Preserves Y Chromosome Genes](#)
June 18, 2003

**Calendar of Events**

- [DTP Seminar Series](#)



Designing the future of genomic research:
Click on the floors to jump to the vision.

The National Human Genome Research Institute led the Human Genome Project for the National Institutes of Health, which culminated in the completion of the full [human genome sequence](#) in April 2003.

Now, NHGRI moves forward into the genomic era with research aimed at improving human health and fighting disease.

⌘ [A Vision for the Future of Genomic](#)

Another example



United States Department of
Health & Human Services
Leading America to Better Health, Safety and Well-Being

[Skip Navigation](#)

- [HHS Home](#)
- [Questions?](#)
- [Contact Us](#)
- [Site Map](#)

[Search](#)

- **[Diseases & Conditions](#)**
 - Heart Disease, Cancer, HIV/AIDS, Diabetes...
 - Mental Health
 - Treatment, Prevention, Genetics
 - Clinical Trials
 - Addictions, Substance Abuse
- **[Safety & Wellness](#)**
 - Eating right
 - Exercise, Fitness
 - Safety Tips and Programs
 - Smoking, Drinking
 - Traveler's Health
- **[Drug & Food Information](#)**

- **[Families & Children](#)**
 - Medicaid, other health insurance
 - Child Support, Child Care, Adoption
 - Domestic Violence, Child Abuse
 - Vaccines
- **[Aging](#)**
 - Medicare
 - Health Issues
 - Coping and Caring
- **[Specific Populations](#)**
 - Women, Men, Children, Seniors
 - Disabilities
 - Racial and Ethnic Minorities

News 12:28 PM Fri, Oct 03

● **[West Nile Virus](#)**



October 1, 2003 — Secretary Tommy G. Thompson announced awards of \$35 million to help communities address long term and repeated homelessness. HHS Photo by Chris Smith.

[More >>](#)

Another example

The screenshot displays the Arthritis Foundation website with a blue header. The logo on the left reads "ARTHRITIS FOUNDATION®" with the tagline "Take Control. We Can Help.™". On the right, a "Welcome!" message includes links for "Log In" and "Create Profile". A search bar with a "GO" button and a link to "advanced search" is present, along with a link to "Español".

A horizontal navigation bar contains the following links: Home, Donate, Store, Resources, Communities, Events and Programs, Conditions and Treatments, Advocacy, and Research.

The main content area is divided into several sections:

- You can help!** (orange header):
 - + [Join Today](#)
 - + [Donate Now](#)
 - + [Donate Your Car](#)
 - + [Become a Volunteer](#)
 - + [Planned Giving](#)
 - + [Meet Our Sponsors](#)
- Find Programs and Events near you** (blue header):
 - Enter your ZIP Code: [GO](#)
 - [Show list of offices](#)
 - More Arthritis Foundation Resources & Tools:
 - [Joints in Motion](#)
Run or walk a
- Joint Surgery Jitters?** (with image of surgeons):
 - Surgery is a big decision. Our [Surgery Center](#) will answer your questions and calm your fears.
 - [View Surgery Animations](#)
 - [How Do You Know It's Time?](#)
 - [Order Joint Surgery Book](#)
- In The News**:
 - [RA Target Identified](#)
 - [FDA Approves Naproxen](#)
 - [Costly RA Drugs](#)
 - [Biotech Drugs Precise](#)
 - [New Therapy for OA](#)
- Overheard...**:
 - I am a 36-year-old female who is possibly facing surgery on my neck for degenerative joint disease or osteoarthritis. Could anyone let me know what I am getting into recovery time wise and if the surgery has helped?
 - [Join the discussion](#)
- Arthritis Today** (with magazine cover image):
 - [Get Arthritis Today magazine!](#)
 - [Read current issue](#)
- NEW!** (with image of a bowl):
 - [Strong Treatments for Fibromyalgia](#)
 - by A.Z.
- Vitamin & Mineral Guide**

Other issues...

What's New

NIAMS Celebrates the [Bone and Joint Decade!](#)

- ▶ Agenda for the September 25, 2003, Council Meeting [More...](#)
- ▶ Questions and Answers about Epidermolysis Bullosa (publication) [More...](#)
- ▶ Questions and Answers about Psoriasis (revised publication) [More...](#)
- ▶ Handout on Health: Atopic Dermatitis (revised publication) [More...](#)
- ▶ Immunomodulatory Drugs in the Treatment of Skin Diseases: What Can We Learn About Pathophysiology? (meeting) [More...](#)
- ▶ Los niños y sus huesos: una guía para los padres [More...](#)

- Font was smaller than on the rest of the page
- Area contained a great deal of 'technical jargon'
- Area attracted very little attention, if something is interesting, including a picture could help make it stand out
- Most users did not believe this area to be very important

Health Topics

Updated September 9, 2003

Select a Health Topic

[A-G](#) | [H-N](#) | [O-U](#) | [V-Z](#)

[other related topics](#)

[information packages](#)

- [Acne](#)
- [Alopecia Areata](#)
- [Amyloidosis](#) ([information package](#))
- [Ankylosing Spondylitis](#) ([information package](#))
- [Arthritis](#) (see also [Juvenile Rheumatoid Arthritis](#))
 - [Arthritis and Diet](#) ([information package](#))
 - [Arthritis in Children](#) ([information package](#))
 - [Q & A: Arthritis and Exercise](#)
 - [Q & A: Arthritis Pain](#)
 - [Q & A: Arthritis and Rheumatic Diseases](#)
 - [Handout on Health: Rheumatoid Arthritis](#)
 - [Rheumatoid Arthritis](#) ([information package](#))
 - [Handout on Health: Osteoarthritis](#)
 - [¿Tengo Artritis?/Do I Have Arthritis?](#) Spanish/English
 - [Osteoarthritis](#) ([Osteoarthritis](#)) Spanish only
 - [La Osteoartritis Resumen](#) ([Osteoarthritis Summary](#)) Spanish only

Remove

The list of topics needs some work...

- Some info only in Spanish
- Some major items appear missing (see video)
- Why is some info only available as 'information packets'

Video Calanet # 12 Fri
12:24:51 3 min

Design Idea

Alopecia Areata

[En Español](#)

Alopecia areata (al-oh-PEE-shah ar-ee-AH-tah) is an autoimmune disease which usually results in hair falling out in small round patches.

QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture

[What Is Alopecia Areata?](#)

[What Causes It?](#)

[Who Is Most Likely To Get It?](#)

[Is My Hair Loss a Symptom of a Serious Disease?](#)

[Can I Pass It on to My Children?](#)

[Will My Hair Ever Grow Back?](#)

[What Can I Expect Next?](#)

[How Is It Treated?](#)

[How Will Alopecia Areata Affect My Life?](#)

[How Can I Cope With the Effects of This Disease?](#)

[Is Research Close to Finding Better Treatments or a Cure?](#)

[How Can I Take Part in Research?](#)

[Where Can I Learn More About Alopecia Areata?](#)

[Glossary](#)

**Clinical Trials for
Alopecia Areata**

**Receive a Booklet
In the Mail**

**Recent NIAMS
Research on Alopecia
Areata**

The Order Publications Page was very long and confusing for many...

- The first three items in the list seemed very similar...

Order Publications

Publication Date: August 2003

- [Handout on Health Series \(HH\)](#)--for Patients
- [Questions & Answers About . . . \(QA\)](#)--for Patients/Public
- [Information Packages \(IP\)](#)--for Patients/Health Professionals
- [Additional Resources](#)
- [Information on NIAMS](#)--for the Public
- [Materials for Special Audiences](#)
- [Spanish-Language Materials](#)
- [Shipping Information](#)

How to Order

1. Please select up to 10 different titles.
2. Complete the shipping information section at the end of the list.
3. Submit the order form to the NIAMS Information Clearinghouse.

Handout on Health Series (HH)--for Patients

These booklets contain an in-depth discussion of the disease or disorder, treatment options, and current research. They are available in regular type and large-print versions. **You may order up to 25 copies of any publication.**

Reformat and reorder items.

(Most important at top, and remove lines between items. Good info is way at the bottom of this page and often overlooked.)

Naming should be examined, especially “[NIAMS Coalition Members](#)”

Outreach Programs

[NIAMS Health Partnership Program](#)

- Race and ethnic health disparities
- Community Health Center (CHC) in Washington, D.C.

[NIAMS Coalition Members](#)

[Pediatric Rheumatology Clinic](#)

[NIAMS Exhibits \(photos\)](#)

[NIAMS Exhibit Schedule](#)

[NIAMS Curriculum Program](#)

In collaboration with the NIH Office of Science Education (OSE), the NIAMS is

Findings Consistent Naming

Consistent naming would help. Branches, sections and groups were all at the end of the name, but Laboratory was at the beginning...

Genetics and Genomics Branch

The mission of the Genetics and Genomics Branch (GGB) is to identify and characterize genes that confer susceptibility to rheumatic or inflammatory diseases in man.

- Genomics Section
- Inflammatory Biology Section

Laboratory of Muscle Biology

The Laboratory of Muscle Biology (LMB) conducts a broad range of research in muscle and structural biology. This research includes the molecular mechanisms of contraction, muscle elasticity and plasticity, the differentiation and assembly of muscle cells, pathobiology of muscle diseases, and the application of radiation, proteomics, and the use of nanotechnology in life sciences.

- Laboratory Chief Office
- Muscle Assembly Group

Put later

NIAMS Curriculum Supplements would be used more and would be more useful to high school teachers if they would concentrate on “indicators” that are being recommended by AAAS (doc # 2061)

NIAMS Curriculum Program

In collaboration with the NIH Office of Science Education (OSE), the NIAMS is developing a curriculum supplement for 6th to 8th grade students called "Looking Good, Feeling Good: From the Inside Out", to be released in the fall of 2004. The purpose of this curriculum is to highlight NIAMS scientific research and to provide students with an opportunity to understand how the muscle, skin, and bone systems contribute to health and well being. Contact Liz Freedman at (301) 496-8190 or freedmae@mail.nih.gov for more information.

American Association for the Advancement of Science

<http://www.aaas.org/education/>

<http://www.project2061.org/>

Findings Clinical Trials

You should make it as easy as possible for people to learn about clinical trials (you are a research organization!)

Studies With Patients

Information on Health Disorders

- › [NIAMS Health Information](#)
- › [NIH Health Information](#)
- › [Combined Health Information Database](#)
- › [Email for Health-Related Questions](#)
- › [NIAMS Information Clearinghouse](#)

Participation in a Clinical Research Study

- › [What is a clinical study?](#)
- › [Resource Information](#)
- › [Search the studies](#)

How to participate

- › [Patients and Families](#)
- › [Healthy Volunteer](#)
- › [Physician](#)

Put somewhere else

Allow them to search from your site, the clinicaltrials.gov site was very confusing. Many did not search it correctly.

Provide a list of studies that is specific to NIAMS.

Video of Michael
#15 15:23:47 3+ min

Findings Clinical Trials

From the homepage of NINDS, preformatted queries



Studies Seek Patients ...

- [Alzheimer's](#)
- [ALS](#)
- [Ataxia](#)
- [Autism](#)
- [Chronic Pain](#)
- [Dystonia](#)
- [Epilepsy](#)
- [Gaucher's Disease](#)
- [Inclusion Body Myositis](#)
- [Multiple Sclerosis](#)
- [Parkinson's](#)
- [Stroke](#)
- [Syringomyelia](#)
- [Tourette Syndrome](#)
- [Tremor](#)
- [More Studies](#)

ClinicalTrials.gov
A service of the National Institutes of Health
Linking patients to medical research
Developed by the National Institutes of Health

[Home](#) | [Search](#) | [Browse](#) | [Resources](#) | [Help](#) | [What's New](#)

Search results for *Alzheimer's Disease* [ALL-FIELDS] are shown below.

☐ Show all trials, including those no longer recruiting patients. [Search-Within-Results](#) [Query Details](#)

40 studies were found.

- ☐ **Recruiting** [Cholesterol Lowering Agent to Slow Progression \(CLASP\) of Alzheimer's Disease Study](#)
Condition: Alzheimer Disease
- ☐ **Recruiting** [CATIE-Alzheimer's Disease Trial](#)
Condition: Alzheimer's Disease
- ☐ **Recruiting** [Alzheimer's Disease Genetics Study](#)
Conditions: Alzheimer Disease; Late Onset Alzheimer Disease
- ☐ **Recruiting** [Neurotransmitter Receptor Measurements in Elderly People and Patients with Alzheimer's Disease](#)
Conditions: Alzheimer's Disease; Healthy

Accessibility Overview

Accessibility

Overall the accessibility of the NIAMS site is OK. There are a 6 main areas that could use attention.

1. Alt tags for all graphic elements
2. Language tags for pages with mixed languages (Spanish...)
3. Add the ability to skip standard headers
4. More descriptive page titles (minor)
5. Site consistency (Intramural pages are very different from rest of site)
6. Linking on Intramural Site

Accessibility - Alt tags for images

1. Alt tags for all graphic elements

Images are usually indicated with an tag.

Example

Example from NIAMS

<td width="9" height="24"></td>

2. Language tags for pages with mixed languages (Spanish...)

Clearly identify changes in the natural language of a document's text and any text equivalents; identify chunks of text written using different natural languages; add a **lang** attribute to the innermost element containing the text for each chunk identified previously.

Identifying changes in language is important for a number of reasons:

Users who are reading the document in braille will be able to substitute the appropriate control codes (markup) where language changes occur to ensure that the braille translation software will generate the correct characters (accented characters, for instance);

Speech synthesizers that speak multiple languages will be able to generate the text in the appropriate accent with proper pronunciation. If changes are not marked, the synthesizer will pronounce the words in the language it works in, usually producing sounds that cannot be understood.

Accessibility - Alt tags for images

3. Allow users to bypass standard navigation

The MAP element groups a set of links, the "title" attribute identifies it as a navigation bar , and a link at the beginning of the group links to the anchor after the group.

```
<BODY>
  <MAP title="Navigation Bar">
    <P>
      [<A href="#how">Bypass navigation bar</A>]
      [<A href="home.html">Home</A>]
      [<A href="search.html">Search</A>]
      [<A href="new.html">New and highlighted</A>]
      [<A href="sitemap.html">Site map</A>]
    </P>
  </MAP>
  <H1><A name="how">How to use our site</A></H1>
  <!-- content of page -->
</BODY>
```


4. Use more accurate page titles

Clicking On “Research and Training: Around the Country” returns a page with the title

“Overview”

The title is often used in search results and the general idea of the page should be conveyed in the title.

“NIAMS Extramural Research Overview”

5. Consistency from section to section

The intramural section has completely different navigation from the rest of the site. This places a heavy burden on people using assistive technology.

Accessibility - Titles

6. Intramural site - Put the name of the page that you are linking to in the "alt" tags.

There are lots of examples here are two...

```

```

```

```

Recap of Findings/Recommendations

Recap of Findings

Major Issues

1. Top level organization

Research and training link names did not reflect content contained within

2. Some information was difficult to find

ex. Budget info, NIAMS address, policy info

3. Integration with NIH

There are dozens of links to NIH, the integration between the sites needs to be better.

4. Search

Search results were poor, whole site not searched

5. Two sites not one...

Intramural site completely separate from main site

6. Graphic appearance

Boring

Recommendations

- 1. Reorganize content on the site (checkout www.genome.gov or www.nhlbi.nih.gov for a different organization schemes)**
- 2. Review integration with NIH, streamline where possible, permit combined search of NIH and NIAMS, let people know when they are switching sites**
- 3. Update search,**
 - Combine main site and intramural, provide spelling support, enable partial name search**
- 4. Make whole site identical in graphical appearance**
- 5. Update graphical look, give site some personality, make it more friendly to the general public**

Wrap-up Discussion