



## RESEARCH UPDATE

April 2008

### CAREHUB BRINGS INFO-EDU-TAINMENT TO THE PCRU



CareHub gives patients and families access to television, online and Xbox gaming, on-demand movies, internet, and music. "It's pretty cool," says 8-year-old Adrian who is in an egg allergy study.

Medical teams use computer technology in all aspects of patient care during hospital stays. At ACH, the patients get to use technology as well during their stay thanks to CareHub. CareHub (the new name for CarePoint) is a bedside education, information, and entertainment system for patients hospital-wide developed by ACH's Systems Development Group (SDG).

SDG recently installed CareHub in the Pediatric Clinical Research Unit (PCRU) for Beds 1 through 4 and in Exam 1. Each CareHub system includes a Microsoft Media Center PC wall-mounted behind the bed, a 15-inch touchscreen monitor on a swing arm beside the bed, and an Xbox gaming system mounted with a 32-inch plasma television high in the room. The subsequent reduction of remote controls and inclusion of a silicone-encased keyboard decreases the possibility of cross-contamination.

The system offers an array of features for physicians and patients. Physicians can prescribe educational videos for patients and their families regarding their children's care. CareHub makes the videos available for families to access not just at ACH but later at home. Physicians can also access HealthPoint and PACS bedside to view patient records and X-rays on CareHub's monitor.

Besides the education and information aspects of CareHub, patients have access to features including television controls, online and Xbox gaming, on-demand movies, and music and photograph libraries. CareHub supplies Internet access, and using their outside e-mail service, children and their families can keep in touch with relatives, friends, and school, removing the isolation they can feel during a hospital stay. CareHub gives patients the ability to leave electronic notes for physicians. CareHub also offers a chat feature for patients to talk to each other. Parental controls are a major component of CareHub allowing them to set parameters on how their children can use CareHub's features. Regardless of all of the activity the CareHub monitor can provide, parents can watch television (and pause and record shows) while the other features occupy the children on the monitor.

Clinical Trials Administrator Janet Stormont, RN, CCRC, says, "The systems are great for the subject's comfort and will provide additional entertainment during a potentially long visit in the research unit." What do the study participants think of CareHub? "It's pretty cool," says 8-year-old Adrian who is in an egg allergy study. His mother Shannon found the system to be a great surprise after their trip from Hot Springs, "It's something he will look forward to each visit." They visit the PCRU every two weeks for the two-year study, and the stay can last from around an hour to all day. "We're always lugging a backpack of things for Adrian, and now there is less to bring," Shannon says.

Adrian will probably still bring his Webkinz cats Josephine and Winter. Children register these stuffed animals online and can play with and take care of them at the Webkinz Web site. With CareHub, Adrian can visit the Web site to take care of his cats in their world as his medical team can use CareHub to take care of him at ACH.

### IN THE SPOTLIGHT

#### Building Consensus for Safer Teen Driving Program Receives Injury Prevention Award

The Building Consensus for Safer Teen Driving Program received the Injury Prevention Award. The award was accepted by Principal Investigator Dr. Mary Aitken and Mary Porter, program coordinator. This Arkansas Children's Hospital Research Institute project, supported by a grant from the Allstate Foundation, has established a multidisciplinary statewide coalition to improve the safety of novice teen drivers and has several educational projects underway. The project is a new activity of the Injury Prevention Center at ACH.

## **ACHRI Research Linking Moms' Smoking to Babies' Heart Defects Published in the Journal of the American Academy of Pediatrics**

Published: Wednesday, April 09, 2008

Research linking a mother's smoking habit to her newborn's heart defects conducted by the Arkansas Center for Birth Defects Research and Prevention at the Arkansas Children's Hospital Research Institute (ACHRI) has been published in Pediatrics: The Journal of the American Academy of Pediatrics. [Read More](#)

### **PRESIDENT'S CHOICE**

Stop by the bulletin board located in the first-floor lobby of the ACHRI building to see the poster featuring this month's President's Choice publications. The following articles were selected as this month's feature publications.

- Shannon Rose, Stepan Melnyk, Alena Savenka, Amanda Hubanks, Stefanie Jernigan, Mario Cleves and S. Jill James. The Frequency of Polymorphisms affecting Lead and Mercury Toxicity among Children with Autism. American Journal of Biochemistry and Biotechnology 4 (2): 85-94, 2008.
- Ashley S. Ross, Rocky Tsang, Kris Shewmake, and Robert E. McGehee Jr. Expression of p107 and p130 during human adipose-derived stem cell adipogenesis. Biochemical and Biophysical Research Communications 366 (2008) 927-931.

ACHRI would like to know about your published findings, as your articles are published, please email or mail a copy to [Phaedra Yount](#) (mail slot 842). The number of publications by our researchers is reported to hospital and ACHRI boards, so it is important that we receive an accurate count of the publications your research produces.

### **SURVEY ENDS SOON**

ACHRI is conducting an online customer opinion survey March 31 through April 18. We are offering the survey in an effort to identify ways to better serve our research community. We would like to receive feedback from investigators, research staff, and others who work at ACHRI or utilize our services. ACHRI plans to make this an annual process. All responses compiled by a third-party agency specializing in developing and conducting customer satisfaction surveys (Morehead and Associates) are confidential; respondents will not be identified to ACHRI. After we receive the survey results, action plans will be developed to address any issues raised wherever possible.

Please encourage your staff to complete the survey. If you have questions regarding the survey or did not receive via email the link to the survey, please call Barry Brady at 364-6517.

### **LOGOS AVAILABLE TO DOWNLOAD FROM WEB SITE**

You can now download the ACHRI logo from our our research Resources web page. We encourage you to use our logo on posters presenting research conducted on the ACH campus. If you would like to have the logo in a file format not available on the web page, please contact [Phaedra Yount](#). You must have access to ACH Webapps to be able to download the logo files. Please contact Phaedra if you need the logo but are unable to access those files.

### **CLINICAL TRIAL WEB SITE AVAILABLE**

The clinical trial web site is available for you use to help with participant recruitment for your studies:

<http://www.archildrens.org/research/>. After you have received IRB approval for your study advertisement, forward a copy of the approved material and a completed Clinical Trial Web Site Form to [Janet Stormont](#) (phone: 364-2760). The form can be found at [http://achri.archildrens.org/resources/web\\_site\\_form.xls](http://achri.archildrens.org/resources/web_site_form.xls).

### **COMPLIANCE CORNER**

The University of Arkansas for Medical Sciences (UAMS) announced on March 14, 2008 via their Research Support Center publication Clinical Research Newsletter that eleven Institutional Review Board (IRB) policies have been revised and two new policies (12.5 & 12.6) have been added. If you conduct human subject research on the ACH/ACHRI campus you are governed by the UAMS IRB policies. The ACHRI Human Subjects Protections area publishes a webpage located at:

([http://achri.archildrens.org/guidebook/clinical\\_news.html](http://achri.archildrens.org/guidebook/clinical_news.html)) to help keep you informed of IRB policy changes. This helpful webpage gives you a basic outline of the policy along with highlighted copies so you can see at a glance what the revisions entail. Check it out!

### **REQUEST FOR MENTORS**

Summer is right around the corner. If you are interested in mentoring a student, please contact Sandy Burrow in ACH Volunteer Services (phone: 364-1812). It is important for us to know who is available to mentor so that students can be matched quickly.

## RECENT GRANT SUBMISSIONS

PI	Agency	Project Title	Project Period	Total Funding
Mary Aitken	Arkansas State Hwy & Transportation Department	Mapping the Way to Success: Statewide Dissemination and Evaluation Planning for the Arkansas Safe Routes to School Program	12/6/08-12/5/09	\$155,242.00
Steve Bowman	EMSC/HRSA	Racial and Ethnic Disparities in Injury: Mortality, Place of Death, Autopsy, Hospital Quality, and EMS Utilization	9/1/2008-8/31/11	\$748,618.00
Tamara Perry	Robert Wood Johnson Foundation	School-based Telemedicine for Rural Education on Asthma Management (STREAM)	7/1/09-6/30/13	\$420,000.00
Roger Rank	NIH	Drug Resistance in Chlamydia and Development of Thermosensitive Vaccine Strains	3/1/09-2/28/14	\$302,620.00
Amy Scurlock	NIH	Immunology Networks in Chlamydia Genital Tract Infection	12/1/08-11/30/13	\$661,500.00

## UPCOMING EDUCATION OPPORTUNITIES

For a complete listing of research education opportunities at ACHRI, please visit our [Research Education Calendar of Events](#) on the ACHRI Web page.

## FUNDING OPPORTUNITIES

The National Association of Children's Hospitals (NACH) prepares and distributes upcoming funding opportunities every two weeks. Funding opportunities recently distributed by the NACH are available on the ACHRI web site ([http://achri.archildrens.org/resources/funding\\_opp.htm](http://achri.archildrens.org/resources/funding_opp.htm)). This file will be updated twice monthly. Bookmark the page! The listing of funding opportunities is located on the intranet; you must have access to ACH webapps to open the file.

## GRANT WRITING TIP: NIAID REWORKS IT ALL ABOUT GRANTS TUTORIAL

NIAID has revised its grant and application guide, the All About Grants Tutorial. It has been reworked as a knowledge-sharing site: [NIH Grant Cycle: Application to Renewal](#). The site covers the grants spectrum from qualifying to staying funded. This reinvention of the [All About Grants](#) tutorials holds even more advice and explanation from an NIAID perspective that is still helpful to grant seekers from other NIH institutes.

NIH Grant Cycle's approach is graphics- and text-based thereby providing navigation choices to a broad overview or more detailed guidance. This site divides the funding lifecycle into 12 phases helping you readily find stage-specific information and advice. Each phase starts with a flowchart, which illustrates key processes and decision points. From there, you can access the linked text for more in-depth information. Or, you can select a topic from either the table of contents under each flowchart or from a comprehensive [Table of Contents](#).

NIAID has launched the NIH Grant Cycle as a grantsmanship forum, starting with insights from its senior-level staff, many who were NIH grantees themselves. Over time, NIAID will incorporate your comments and suggestions to build a comprehensive and inclusive knowledge base. Begin using the site at [NIH Grant Cycle: Start Here](#), and as you read, send your comments and suggestions to [deaweb@niaid.nih.gov](mailto:deaweb@niaid.nih.gov).

## Considering an ABI Grant Application This Year?

On May 20 (2:00 to 3:30 p.m., Brandon North A and B), ACHRI will hold a workshop on the ABI grant program. For more information, contact [John Gregan](#) (364-6296) or [Amy Stalls](#) (364-3627).