

# NASA EHRIS UPDATE

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NASA

Electronic Health Record System (EHRIS) Update

EHRIS Breakout Session

July 15, 2009

Ray Christopher, MD

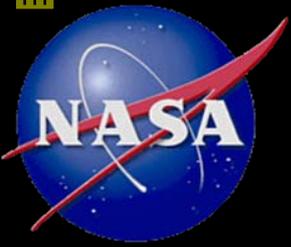
Nancy Eckhardt, RHIA



# NASA EHRS UPDATE

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- EHRS Meetings and Training Activities:
  - Gap Analysis Meeting - 08/08
  - Webinar's/Teleconferences - weekly
  - ViTS - quarterly
  - User Acceptance Training - 01/09
  - Medgate User Group Meeting - 02/09
  - SSC Application Training - 05/09



# NASA EHRS UPDATE

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## □ EHRS Core Activities:

- Built Security Profiles and Rights for Users
- Defined Global Settings Required for Reports
- Built Database Tables for Modules
- Procured HR Data Feed for Badged Employees
- Worked on E-authentication for Single Sign On Capability
- Worked on Lab and Audiometric Legacy Data Import Files
- Tested EHRS Application
- Wrote NASA OH EHRS Clinical Workflow Documentation



# NASA EHRS UPDATE

- Built Security Profiles and Rights for Users

## MEDGATE FUNCTIONAL ROLES

nasa\_role\_medical\_super\_user

nasa\_role\_medical\_physician

nasa\_role\_other\_provider

nasa\_role\_medical\_nurse

nasa\_role\_medical\_technician

nasa\_role\_medical\_medical\_clerk

nasa\_role\_medical\_medical\_assistant

nasa\_role\_medical\_case\_manager

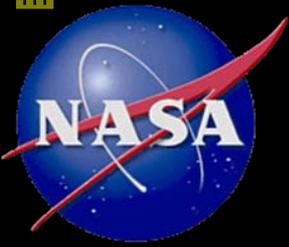
nasa\_role\_IH\_super\_user

nasa\_role\_IH\_user

nasa\_role\_IH\_technician

nasa\_role\_IH\_resp\_trainer

nasa\_role\_IH\_Read\_Only



# NASA EHRS UPDATE

- Defined Global Settings Required for Reports

Level	Original Label	New Label
1	Geographic Location Name	NASA CENTER
2	Department Name	EMPLOYER
3	Division Name	EMPLOYEE TYPE
4	Location Name	MAIL CODE
5	Organization Name	BLDG
6 (IH)	Building/Zone Name	ORG CODE
7 (IH)	Floor Area	WORK AREA/SHOP
8 (Label)	SEG Name	SURV/CERT



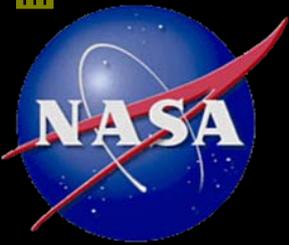
# NASA EHRS UPDATE

- Defined Global Settings Required for Reports

**System Settings**

General | Medical | Audiometry | Clinical Testing | Clinic Visits | Immunization | Pulmonary | General Incident | Incident/Workers' Comp | Investigator | Respirator | Audit | Case | IH | Risk Indicators | BFE | Vision | Drug | Report Confidentiality Statement | Company Logo

Version	6.0 SP3	Version Date	03/02/2009
Country	US	Language	ENGLISH
Company Name	NASA OCCUPATIONAL HEALTH		
Default Health Center			
Default Practitioner			
Geographic Location Name	NASA CENTER	Department Name	EMPLOYER
Location Name	MAIL CODE	Division Name	EMPLOYEE TYPE
Organization Name	BLDG	SEG Name	SURV/CERT
Building/Zone Name	ORG CODE	MSDS Directory	



# NASA EHRS UPDATE

- Defined Global Settings Required for Reports

Medgate 6.0 SP3 - Windows Internet Explorer  
 https://aspc3.medgate.com/nasatest60/start.asp

medgate Employee: Abbott, Ahmad UID043514

List Personal Home Work **NEEMB** Privacy Other

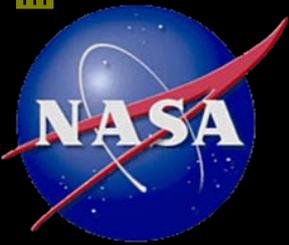
Select Employee  
 Demographics  
 Medical  
 Safety  
 Case Management  
 IH/Environmental  
 Education  
 Reports  
 Base Tables  
 Report Writer  
 Administrator  
 Logout

Home Street  
 City State Zip Country  
 Phone

**Work**  
 Date Of Hire 04/15/1986 Date Of Termination  
 Seniority Date Work Status  
 Job Type Union  
 Work Phone 757-123-0000 Work Extension  
 Email Address Ahmad.Abbott@fake.nasa.gov  
 Mail Stop 419

**NEEMB**  
 NASA CENTER LRC Langley Research Center  
 EMPLOYER NASA NASA  
 EMPLOYEE TYPE NCIVSERV NASA Civil Servant  
 MAIL CODE 419 419  
 BLDG 1293C 1293C  
 Supervisor  
 Shift Code  
 Job Position  
 Job Position Group INTEGRATION INTEGRATION

New Save Delete Cancel History Contacts SURVICERT PPE All Restrictions Allergies / Medications Medical Alternate Address Photo



# NASA EHRS UPDATE

- Defined Global Settings Required for Reports

**Clinic Visit Utilization Report** ↓ ?

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**Visit Date**  
 from   to

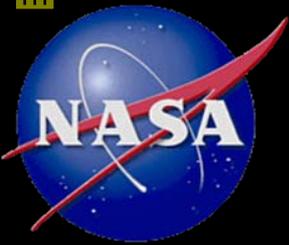
**Arrival Time**  
 from  to

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Facility	<input type="text"/>	<input type="text"/>	<input type="button" value="▼"/>
NASA CENTER	<input type="text"/>	<input type="text"/>	<input type="button" value="▼"/>
EMPLOYER	<input type="text"/>	<input type="text"/>	<input type="button" value="▼"/>
EMPLOYEE TYPE	<input type="text"/>	<input type="text"/>	<input type="button" value="▼"/>
MAIL CODE	<input type="text"/>	<input type="text"/>	<input type="button" value="▼"/>
BLDG	<input type="text"/>	<input type="text"/>	<input type="button" value="▼"/>
Job Position	<input type="text"/>	<input type="text"/>	<input type="button" value="▼"/>
Shift Code	<input type="text"/>	<input type="text"/>	<input type="button" value="▼"/>

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<p><b>Report by</b></p> <p><input checked="" type="radio"/> Clinic Visit Reason</p> <p><input type="radio"/> Health Center</p> <p><input type="radio"/> Practitioner</p> <p><input type="radio"/> Activity</p>	<p><b>Conditions</b></p> <p>Health Center <input type="text"/> <input type="text"/> <input type="button" value="▼"/></p> <p>Practitioner <input type="text"/> <input type="text"/> <input type="button" value="▼"/></p> <hr/> <p>Show Legend <input type="checkbox"/></p>
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# NASA EHRS UPDATE

- Defined Global Settings Required for Reports

**IH Samples Report**

Sample #

Sample Date From  to

Sample Type  Sample Jurisdiction

Include UnApproved  Include Void

SURV/CERT  Limit Type

Sampled By

Period Type

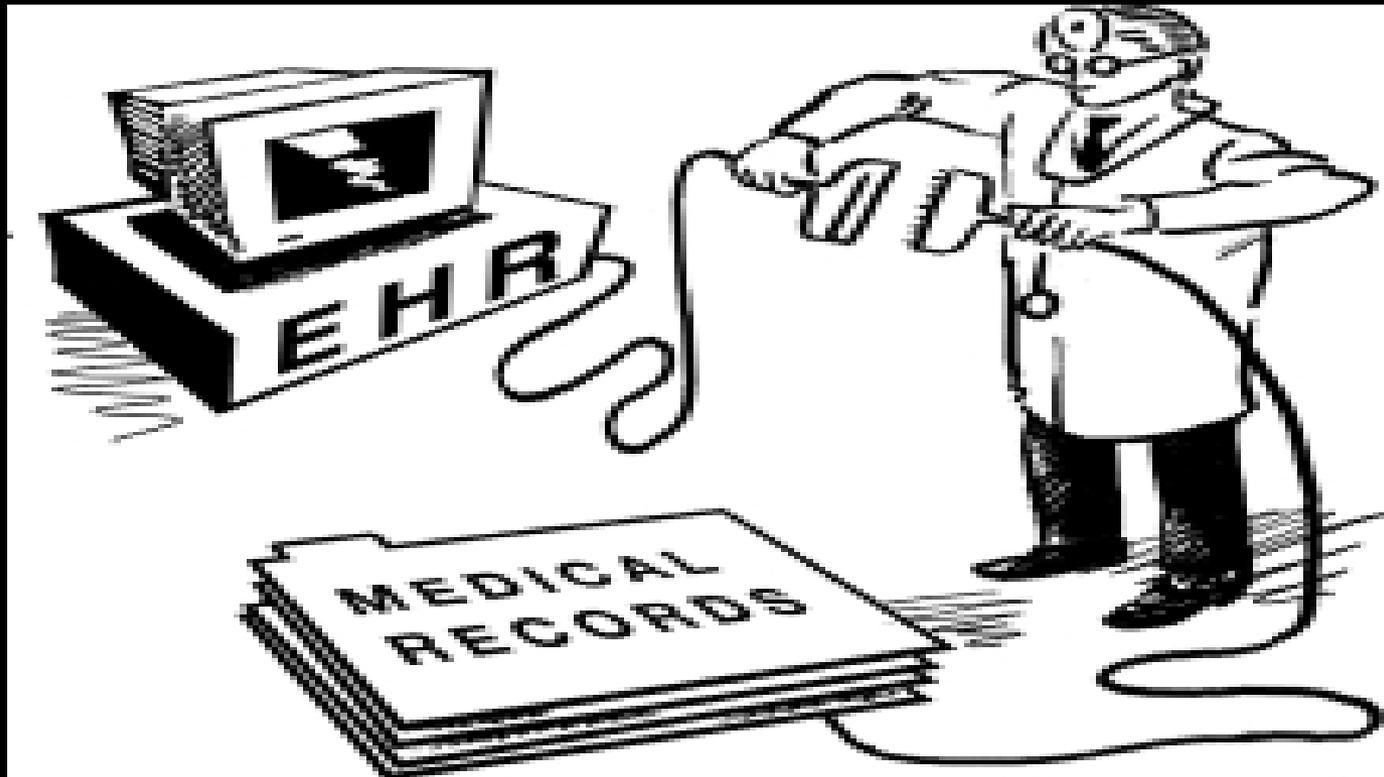
Employee	<input type="text"/>	<input type="text"/>
NASA CENTER	<input type="text"/>	<input type="text"/>
EMPLOYER	<input type="text"/>	<input type="text"/>
EMPLOYEE TYPE	<input type="text"/>	<input type="text"/>
MAIL CODE	<input type="text"/>	<input type="text"/>
BLDG	<input type="text"/>	<input type="text"/>
ORG CODE	<input type="text"/>	<input type="text"/>
WORK AREA/SHOP	<input type="text"/>	<input type="text"/>
Job Position	<input type="text"/>	<input type="text"/>
Operation Status	<input type="text"/>	<input type="text"/>

Report Close



# NASA EHRS UPDATE

EHRS – Includes Not Only Medical but IH Records Also!





# NASA EHRS UPDATE

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- Built Database Tables for Modules

Medical / Industrial Hygiene Modules:

Clinic Visit Module

Scheduling Module

Clinical Testing Module

Employee Medical Record (EMR) Module

Questionnaires Module

Immunization Module

Audiometric Module

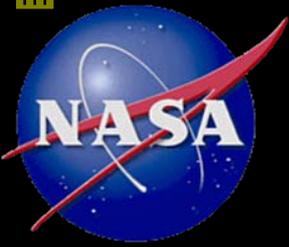
Vision Module

Pulmonary Function Module

Case Management Module

Industrial Hygiene and Exposure Assessment Module

Respirator Fit Module



# NASA EHRS UPDATE

- Procured HR Data Feed for Badged Employees

The HR data feed file took over 6 months and many hurdles to obtain authorization to receive the data for uploading into Medgate. The initial HR feed includes all NASA badged employees.

Weekly files will then be sent that contain any new badged employees, terminated employees, or other changes. The data feed file that is sent has to be sanitized for upload into the system.

The UUPIC will serve as the patient/employees identifier in the Medgate application.

For those Centers that may have non-badged NASA employees that come to the clinic, then a User ID will be generated in the system for them at the time they present to the clinic.



# NASA EHRS UPDATE

- Worked on E-Authentication for Single Sign On Capability

**Identity Manager - Windows Internet Explorer**

https://idmaxtest.ndc.nasa.gov/idm/user/login.jsp

File Edit View Favorites Tools He » Links Home Stuff OHP Space Weather WebDev

Identity Manager

**NASA** IdMAX: Identity and Access Management Tools HELP

Sun™ Microsystems, Inc.

**Welcome to IdMAX:**

**Identity and Access Management Tools** - a gateway to access multiple new tools that are used for badging, IT access, and updating your personal information in NASA's public information directory.

To access the IdMAX system, you will need to know the following:

- Your Agency User ID (AUID) *Click here to find your Agency User ID*
- Your IdMAX password *(This will be emailed to you if you are a first time user and have completed first time enrollment.)*

To begin, please enter your AUID and password below. If you are a first-time user, please [click here](#) or click the 'First Time User' button.

*If you have forgotten your password, enter your AUID and click the "Forgot Password?" link.*

Your AUID:

Your IdMAX Password:

[Forgot Password?](#)

**First Time Users Click Here**

**Frequently Asked Questions**

or Agency Help Desk  
1.866.419.6297

List of applications currently available in NAMS.

This documentation will be posted on the OH website in the EHRS section <http://www.ohp.nasa.gov/ehrs/>



# NASA EHRS UPDATE

- Worked on Lab and Audiometric Legacy Data Import Files

Frankie Ramos, our IT database specialist, has been working with the labs such as Labcorp, Quest, and others to obtain data feed files for import into the EHRS.

Each Center will need to work with their ODIN representative in obtaining a desktop to store the data that is sent by the Laboratory for import into the EHRS. Each Center will upload their own laboratory feed file into the Medgate EHRS.

Each Center, prior to go live, will need to provide their Audiometric Legacy Data feed file to Helen Shoemaker /Frankie Ramos for upload into the EHRS.



# NASA EHRS UPDATE

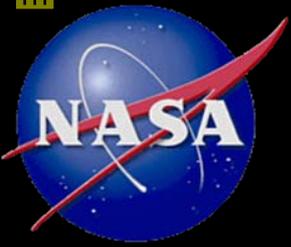
- Wrote NASA OH EHRS Clinical Workflow Documentation

The NASA Occupational Health EHRS Clinical Workflow Documentation was written to serve as a training and reference guide for new users, as well as those who have been previously trained on the system.

This document walks through each clinic visit type workflow in a concise step-by-step method, so it is easy for the end user to follow.

The Clinical Workflow Documentation includes NASA specific data, such as NASA Procedure and Diagnosis Codes, pick lists, and a clinical encounter worksheet to use in the event of a computer downtime and can be supplemented with Medgate's User Guide for additional information.

This documentation will be posted on the OH website in the EHRS section <http://www.ohp.nasa.gov/ehrs/>



# NASA EHRS UPDATE

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## □ EHRS Challenges:

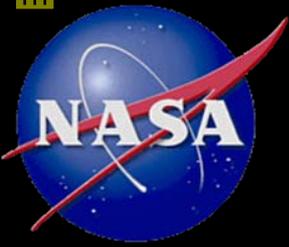
- Lacked Medgate Clinical Consultant Expertise the First 6 Months for Database Table Builds
- Medgate Demo Site Lacked “Meaningful Data” To Utilize As a Reference for Building Database Tables
- Authorization to Obtain an HR Data Feed
- C&A - Medgate Did Not Meet IT Security Requirements



# NASA EHRS UPDATE

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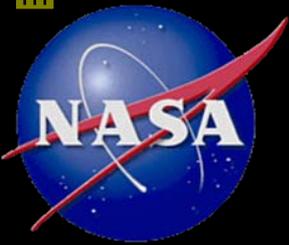
- EHRS Center Preparation:
  - Review Workflows at Your Center and the Medgate EHRS –
    - Determine if Drop Down Pick Lists /Database Tables Need Additional Data Added
    - Determine if Your Center Requires Additional Surveillance Groups to be Built
  - Data Capture:
    - Identify and Provide a Desktop Where Lab Data Can Be Sent for Upload into the EHRS
    - Provide a Scanner to Copy Documents for Inclusion into the EHRS



# NASA EHRS UPDATE

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- EHRS Center Preparation (Con't):
  - Learning Opportunities –
    - Attend Medgate Webinars / Teleconferences / ViTS / Training
    - Hands-On Experience with the Medgate EHRS
    - Contact Center Resources who have Trained on the Medgate EHRS
    - Register and Login to the Medgate OH User Community  
<http://community.medgate.com/>



# NASA EHRS UPDATE

http://community.medgate.com/ - Windows Internet Explorer

http://community.medgate.com/

medgate User community

Update your account info | Edit your profile | Log out

Search  in Everything

Home Knowledge Base Forum Document Library Announcements Events New Clients

- Home
- Knowledge Base
- Forum
- Document Library
- Announcements
- Events
- New Clients

Account info

User profile

Forum subscriptions

Log out

**Announcement**

Medgate User Group 2010:  
Mark your calendars:  
February 7-10

### Welcome, Nancy!

Welcome to the Medgate User Community! This is an area where you, our clients, can find information regarding any Medgate topic and interact with one another to discuss best practises and solutions for working with Medgate. You can **search** the community at any time via the search field in the upper-right hand corner, or using the search functionality built into each section of the community. To get started, pick a category from the top or left menus, or select one of the most recently posted items below.

If you haven't already, **please update your User Profile** to make sure your information is accurate.

### Announcements

June 12, 2009  
[Medgate Releases Version 6.0 sp3a](#)

March 12, 2009  
[Medgate UGC 2009: "A Great Conference for a Great Product"](#)

March 10, 2009  
[Medgate Releases Version 6.0 sp3](#)

December 15, 2008  
[Medgate Releases Version 6.0 sp2c](#)

October 30, 2008  
[Medgate Releases Versions 5.5 sp2a and Version 6.0 sp2b](#)

### Knowledge Base

- > [What is the current account lockout policy for Medgate-hosted clients?](#)  
last updated on June 10, 2009
- > [Medgate Abbreviations & Acronyms](#)  
last updated on June 10, 2009
- > [Upgrading your Medgate database from SQL 2000 to SQL 2005](#)  
last updated on June 02, 2009
- > [Troubleshooting Device Interface Issues](#)  
last updated on May 08, 2009
- > [Reports not appearing after hitting "Print"](#)  
last updated on May 08, 2009

### Event Calendar

**2009 Force Health Protection Conference - Booth #324**  
Albuquerque, New Mexico, USA  
August 18-21, 2009

**Medgate 2010 Annual User Group Conference**  
Hollywood, CA, USA  
February 7-10, 2010

### Forum Discussions

- > [Client Community Suggestions thread](#)  
last post June 24, 2009
- > [Managing End User Security](#)  
last post June 24, 2009
- > [Benson 200](#)  
last post June 23, 2009
- > [Audiometric Reporting](#)  
last post June 18, 2009
- > [Translating Custom Reports](#)

Internet 100%

<http://community.medgate.com>