



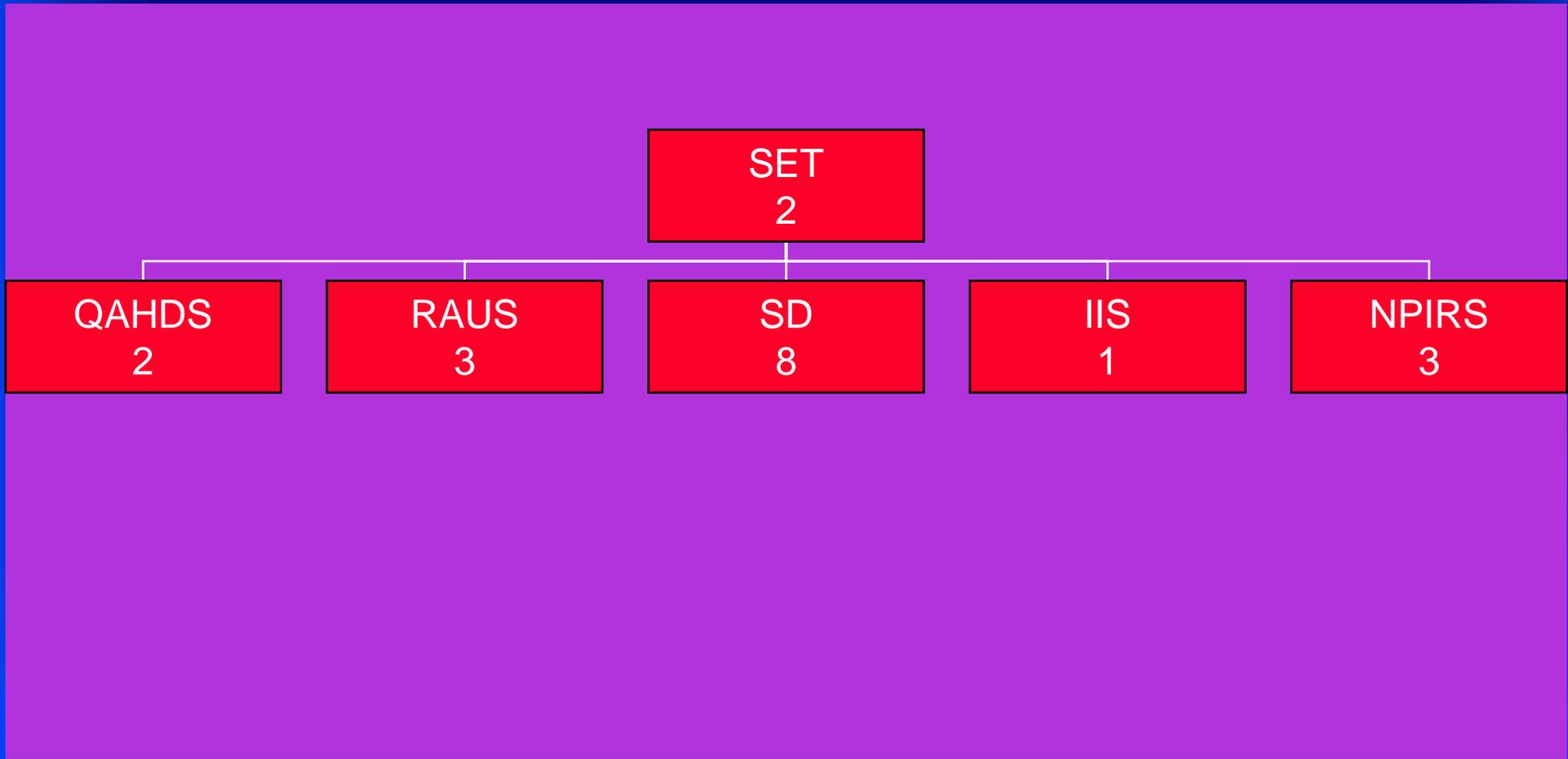
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# ***Software Engineering Team (SET)***

**ISC Meeting  
June 22-23, 2004  
Albuquerque NM**



# SET Federal Staff





# Internet Information Services (IIS)

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- **Standard Codebook Tables**
- **Computer Access**
- **MORE (Dental, Pharmacy, Nurse)**
- **WWW Redesign**
- **Security Awareness/List Serv**
- **EISS**



# Standard Codebook Tables

- Display approved lookup tables only
- Various methods to search each table
- Downloadable in a variety of formats

Indian Health Service Standard Code Book (Development) - Microsoft Internet Explorer

Address: http://wwwdev.ihs.gov/ICIO/scb/index.cfm?module=tables&newquery=1

U.S. Department of Health and Human Services  
Indian Health Service  
The Federal Health Program for American Indians and Alaska Natives

HOME ABOUT IHS SITE MAP HELP

## IHS Standard Codebook Tables

SCB Tables Home

Description of standard codebook tables, what to expect, and their purpose to go here...

Name of Table	Records	Updated
Accident (not active)	12	05/28/2004
Admission (not active)	5	06/02/2004
APC (not active)	214	06/02/2004
Area (not active)	53	06/02/2004
Blood Quantum (not active)	7	06/02/2004
Class (not active)	31	06/02/2004
Clinic (not active)	120	06/02/2004
Clinic Services (not active)	23	06/02/2004
Community	9432	06/02/2004
County (not active)	1871	06/02/2004
Education Topics (not active)	1107	06/02/2004
Facility (not active)	7574	06/02/2004
ICD9 Diagnosis	12043	06/02/2004
ICD9 Injury (not active)	1083	06/02/2004
Provider (not active)	115	06/02/2004
Provider Type (not active)	19	06/02/2004
Reservation (not active)	326	06/02/2004
Service Unit (not active)	555	06/02/2004
State (not active)	71	06/02/2004
Tribe (not active)	844	06/02/2004

20 Record(s)

This session will expire in 59 minutes 37 seconds



# Standard Codebook Tables

- Listing for each SCB table
- Free-form or first letter search
- Jump to any record in table

The screenshot displays the 'Indian Health Service Standard Codebook Tables' web application. The page title is 'Standard Codebook Tables' and it is categorized under 'ICD9 Diagnosis Codes'. A search bar is visible with the text 'A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Reset' and a 'Search' button. Below the search bar, it indicates '1-25 of 12043 items displayed' and 'page 1: records 1-25'. The main content is a table with the following columns: 'ICD9 Name', 'ICD9 Code', 'Medicare Billable', and 'Medicaid Billable'. The table lists various burn-related ICD9 codes and their corresponding billability status.

ICD9 Name	ICD9 Code	Medicare Billable	Medicaid Billable
1 DEG BURN BACK OF HAND	94416	Y	Y
1 DEG BURN FINGR W THUMB	94414	Y	Y
1 EYE-SEV/OTH-BLIND NOS	36911	Y	Y
10-19% BDY BRN/10-19% 3D	94811	Y	Y
10-19% BDY BRN/3 DEG NOS	94810	Y	Y
1ST DEG BURN ABDOMN WALL	94213	Y	Y
1ST DEG BURN ANKLE	94513	Y	Y
1ST DEG BURN ARM NOS	94310	Y	Y
1ST DEG BURN ARM-MULT	94319	Y	Y
1ST DEG BURN AXILLA	94314	Y	Y
1ST DEG BURN BACK	94214	Y	Y
1ST DEG BURN BREAST	94211	Y	Y
1ST DEG BURN CHEST WALL	94212	Y	Y
1ST DEG BURN CHIN	94114	Y	Y
1ST DEG BURN EAR	94111	Y	Y
1ST DEG BURN ELBOW	94312	Y	Y



# Standard Codebook Tables

- Download in Excel or delimited format with option on delimiters
- Fields in first line option also available

The screenshot shows a web browser window titled "Indian Health Service Standard Code Book (Development) - Microsoft Internet Explorer". The address bar shows the URL: [http://wwwdev.ihs.gov/CIO/scb/index.cfm?module=ICD9\\_DIAG\\_CD&option=download&row=1&RequestTimeout=5000](http://wwwdev.ihs.gov/CIO/scb/index.cfm?module=ICD9_DIAG_CD&option=download&row=1&RequestTimeout=5000). The page header includes the U.S. Department of Health and Human Services logo and the text "Indian Health Service - The Federal Health Program for American Indians and Alaska Natives". The main content area is titled "Standard Codebook Tables" and "ICD9 Diagnosis Codes". A "Download Form" is displayed with the following fields and options:

- File Name:** ICD9\_DIAG\_CD.txt (with a note: "Please enter all required fields in order to download the table ICD9 Diagnosis Codes (-\_ICD9\_DIAG\_CD). Excel downloads can be saved within your browser window while delimited downloads will have a popup message to save the file. Since this file has 12043 records, it will take approximately 12.043 minutes to download this file.")
- Format:** A dropdown menu.
- delimiter:** A dropdown menu (with a note: "(for delimited format only)").
- Column Names?:** Radio buttons for "Yes" and "No".

Buttons for "Download" and "Cancel" are located below the form. At the bottom of the page, there are links for "Accessibility", "Disclaimer", "Privacy Policy", "Freedom of Information Act", "Kids Page", "Contact Information", and "FirstGov -- HHS". The footer indicates "This site last modified: Wednesday June 16, 2004 9:41 AM" and "This session will expire in 58 minutes 43 seconds".



# Computer Access

- Electronic version of Computer Access Form
- Tied into all HQ, ITSC and all areas

The screenshot shows a web browser window displaying the Indian Health Service Help Desk. The page title is "Computer & Network Access System". The main menu includes:

- Supervisors**: Supervisory functions, including:
  - Add Access Request for new employee/contractor.
  - Remove Access Request for former employee/contractor.
- Employee & Contractor**: Individual functions, including:
  - Update Access Request to add/update/remove individual systems access.
  - Renew Access Request for annual access renewal.
  - Modify your account information (location, hours, email, phone, etc.).
- Approver, Administrator, Help Desk, & Executive**: Request approver, systems and site administration functions, including:
  - Access Request review and approvals.
  - Systems administrator notice of granted access.
  - Computer Access system maintenance and administration.
  - Executive reporting functions.
- Request Tracking**: Display the status of previously submitted access requests.

At the bottom of the page, there are links for Accessibility, Disclaimer, Privacy Policy, Freedom of Information Act, Kids Page, Contact Information, FirstGov, and HHS.



# Computer Access

- Uses IHS secure infrastructure for authentication OR uses one-time email authentication

The screenshot shows the IHS Help Desk website in a Microsoft Internet Explorer browser. The page title is "Help Desk - Microsoft Internet Explorer". The address bar shows the URL: <http://wwwdev.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm?module=access&option=prv&rtf=menu>. The page header includes the IHS logo and the text "U.S. Department of Health and Human Services Indian Health Service The Federal Health Program for American Indian and Alaska Natives". The main content area is titled "Help Desk" and "Computer & Network Access System Supervisor Functions". A red status box indicates: "Status Supervisors must first login or authenticate, prior to submitting requests for employees or contractors." Below this, there are two main sections: "IHS Web Systems Login" and "One-Time Authentication Form". The "IHS Web Systems Login" section has a "Login" button. The "One-Time Authentication Form" section has fields for "First Name", "Last Name", and "Email Address", and a "Submit" button. At the bottom of the page, there are links for "Accessibility", "Disclaimer", "Privacy Policy", "Freedom of Information Act", "Kids Page", "Contact Information", "FirstGov", and "IHS".



# Computer Access

- Supervisor's menu
- Add, remove, or correct entries

The screenshot shows a web browser window titled "Help Desk - Microsoft Internet Explorer". The address bar shows the URL: <http://www.dev.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm?module=access&option=sprvsr&fn=menu>. The page header includes the U.S. Department of Health and Human Services logo and the text "Indian Health Service The Federal Health Program for American Indians and Alaska Natives". The main content area is titled "Help Desk" and "Computer & Network Access System Supervisor Functions". A "Supervisor Functions Menu" is displayed with three options: "Add Access", "Remove Access", and "Correct Access".

Supervisor Functions Menu	
<b>Add Access</b>	Submit and Add Access request for new employee or contractor.
<b>Remove Access</b>	Submit and Remove Access request for former employee or contractor.
<b>Correct Access</b>	Correct access records for existing employee or contractor. <b>NOTE:</b> This function does NOT submit any Access Request or grant any systems access or permissions. It is used only to note systems to which an Employee or Contractor <b>currently</b> has access.

At the bottom of the menu is a "Main Menu" button. The footer of the page includes links for "Accessibility -- Disclaimer -- Privacy Policy -- Freedom of Information Act", "Kids Page -- Contact Information -- FirstGov -- HHS", and a timestamp: "This file last modified: Wednesday June 16, 2004 12:00 PM".



# Computer Access

- User Menu
- Request access updates, renewals, and profile updates

Help Desk - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.dev.ihs.gov/GeneralWeb/HelpCenter/helpdesk/index.cfm?module=access&option=empcon&fn=menu

U.S. Department of Health and Human Services  
Indian Health Service  
The Federal Health Program for American Indians and Alaska Natives

Search Our Site For:

Advanced Search by Google

HOME ABOUT IHS SITE MAP HELP

Help Center

Home  
Computer Access  
List Serv  
Web  
Help  
Logoff Profile

For general help or information, contact the Help Desk:  
(505) 248-4371 or (888) 630-7200  
email our staff at <mailto:support@ihs.gov>

Print Friendly

Required plug-ins to navigate this site:  
Acrobat  
MS Word  
IHS Plug-in Page

Computer & Network Access System Employee / Contractor Functions

Employee/Contractor Functions Menu

Update Access	Update Access Request to add/update/remove individual systems accesses.
Renew Access	Renew Access Request for annual access renewal.
Profile Update	Modify your account information (location, hours, email, phone, etc.).

Main Menu

Accessibility -- Disclaimer -- Privacy Policy -- Freedom of Information Act  
Kids Page -- Contact Information -- FirstGov -- HHS

This file last modified: Wednesday June 16, 2004 12:00 PM



# Computer Access

- Approver functions
- Help Desk functions
- Executive Reports

The screenshot shows a web browser window titled "Help Desk - Microsoft Internet Explorer" with the address bar displaying "http://www.doh.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm?module=access&option=approver&f=menu". The page content is organized into several functional menus:

- Request Approvers Function Menu**
  - Process Requests (1 Pending)**: Review and approve/disapprove access requests submitted.
- Systems Administrators Function Menu**
  - Access Granted**: Review approved access requests and note when access is granted.
- Help Desk Function Menu**
  - Review Requests (1 Pending)**: Review and accept/reject received access requests.
  - Request Lookup**: Lookup requests by requestor name.
  - Modify Requests**: Make corrections to pending requests.
- Master Administrator Function Menu**
  - Manage Approvers**: Add/remove approvers by location and/or system.
  - Manage System Administrators**: Add/remove systems administrators by location and/or system.
  - Manage Executives**: Add/remove executive privileges for users (to view reports).
  - Manage Areas & Systems**: Add/update/remove Area information and their Systems.
- Reports Menu**
  - Total Requests**: Report shows year-to-date total number of requests for current calendar year, by month and by area.

A "Main Menu" button is located at the bottom of the page.



# Multi-program Online Recruiting System (MORE)



- **Modular, reusable code to support all IHS recruiting**
- **Rapid development entrenched in web infrastructure**
- **Administrative backend with full user control of entire site**
- **Multi-disciplined – Pharmacy, Dental, & Nursing using application**
- **Scalable to add any division in IHS**
- **Will be tied to new Job Vacancies website when redesigned**



# MORE Recruiting

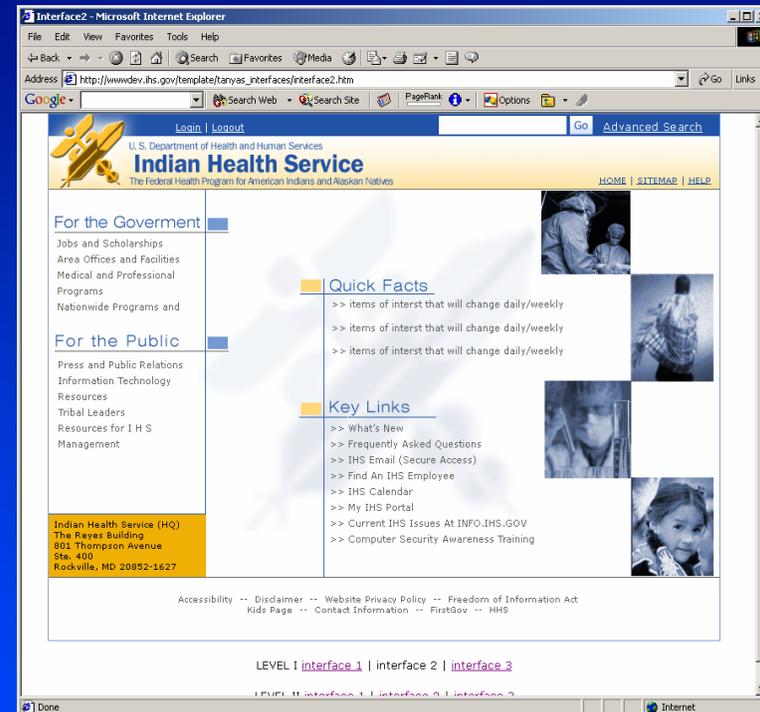
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- **Multi-disciplined – Pharmacy, Dental, & Nursing using application**
- **Scalable to add any division in IHS**
- **Will be tied to new Job Vacancies website when redesigned**



# WWW Internet Redesign

- Over 3 years since last revision
- Address new HHS and 508 mandates
- Add more functionality





# Security Awareness/List Serv Domain/Email Issues

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- Agency domain/email changes making both applications a challenge to maintain operational



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# EXECUTIVE INFORMATION SUPPORT SYSTEM



## Current Reports

- Training
  - Travel
- WebFRS (Core)



# EISS ~ Training Reports

- Top Trainees
- Training Approval %
- Training by Grade
- Training by Gender
- Training Costs/Mo.
- Training Costs/Employee/Mo
- Training Detail
- Data pulled from ARMS
- Available now

Executive Information Support System: Training Approval Percentage - Microsoft Internet Explorer

Address: http://home.ihs.gov/itsc-cio/eiss/index.cfm?module=reports&option=TRNApproval

INDIAN HEALTH SERVICE INTRANET

HOME MY IHS PORTAL DIRECTORY / LOCATOR SITE MAP Search for: GO

EISS REPORTS

- TRAINING
  - Top Trainees
  - Training Approval %
  - Training by Grade
  - Training by Gender
  - Training Costs/Mo.
  - Training Costs/Emp/Mo.
  - Training Detail
- TRAVEL
  - Top Travelers
  - Dept Five Traveler List
  - Travel Location
  - Travel by Name
  - Travel Approval %
  - Travel by Grade
  - Travel by Gender
  - Travel Costs by Object Class (Core)
  - Travel Costs/Mo. (Core)
  - Travel Costs/Mo. (ARMS)
  - Travel Costs/Emp/Mo. (ARMS)
- WEBFRS
  - Overall Unobligated Balances
  - Object Class by CAN

EISS Home  
Print-Friendly  
Logoff Edit Profile

FY2004-to-date: Training Approval Report for NATIONAL

% Training Approved

Denied by Gender

Training Approval - Summary Data									
GENDER	APPROVED	DENIED	PENDING	CANCELLED	TOTAL	HOURS	TUITION & FEES	BOOKS & OTHER	TOTAL COSTS
Male	95	28	15	4	142	2,401	\$40,315.25	\$7,040.00	\$56,355.25
Female	241	98	96	12	377	4,462	\$109,338.75	\$1,047.80	\$170,386.55
Unknown	151	37	24	8	220	2,755	\$139,600.60	\$5,500.00	\$145,100.60
Totals:	487	133	95	24	739	9,618	\$358,254.60	\$13,587.80	\$371,842.30

REPORT OPTIONS

Report Scope: NATIONAL REPORT

Report Period: FY 2004

Sort Order: Gender

Generate Report

Help



# EISS ~ Travel Reports

- Top Travelers
- Dept Five Traveler List
- Travel Location
- Travel by Name
- Travel by Grade
- Travel by Gender
- Travel Costs/Mo.
- Travel Costs/Employee/Mo
- Data pulled from ARMS and Core
- Available now

Executive Information Support System: Travel Cost Per Month - Microsoft Internet Explorer

Address: http://home.ihs.gov/itssc-cio/eiss/index.cfm?module=reports&option=TvlCostPerMonth

INDIAN HEALTH SERVICE INTRANET

HOME MY IHS PORTAL DIRECTORY / LOCATOR SITE MAP Search for: GO

EISS REPORTS

- TRAINING
  - Top Travelers
  - Training Approval %
  - Training by Grade
  - Training by Gender
  - Training Costs/Mo.
  - Training Costs/Emp/Mo.
  - Training Detail
- TRAVEL
  - Top Travelers
  - Dept Five Traveler List
  - Travel Location
  - Travel by Name
  - Travel Approval %
  - Travel by Grade
  - Travel by Gender
  - Travel Costs by Object Class (Core)
  - Travel Costs/Mo. (ARMS)
  - Travel Costs/Emp/Mo. (ARMS)
- WEBFRS
  - Unobligated Balances
  - Object Class by CAN

EISS Home  
Printer-Friendly  
Logoff Edit Profile

**FY2003 Travel - Cost Per Month Report for NATIONAL**

**Travel - Cost Per Month - Summary Data**

MONTH	FREQUENCY	TRAVEL DAYS	AMOUNT REQUESTED	AMOUNT OBLIGATED	AMOUNT SPENT
October	3,013	9,247	\$1,085,667.72	\$1,113,166.37	\$1,027,826.62
November	2,816	8,627	\$1,122,743.12	\$1,179,929.86	\$1,007,047.34
December	2,067	6,718	\$880,607.00	\$924,640.83	\$834,115.46
January	2,644	8,301	\$985,462.30	\$1,019,638.14	\$946,799.77
February	2,753	9,484	\$1,275,717.38	\$1,332,392.97	\$1,208,471.46
March	3,314	11,764	\$1,534,420.10	\$1,620,466.39	\$1,466,401.19
April	3,874	12,777	\$1,819,812.71	\$1,873,179.21	\$1,643,508.84
May	3,048	10,269	\$1,305,920.65	\$1,369,194.57	\$1,297,899.46
June	3,512	13,192	\$1,695,340.68	\$1,750,872.69	\$1,653,095.09
July	3,109	11,556	\$1,602,498.40	\$1,660,660.04	\$1,543,562.71
August	2,241	7,673	\$1,082,476.79	\$1,129,700.26	\$966,994.56
September	1,855	6,074	\$857,865.00	\$895,941.10	\$277,316.47
<b>Total:</b>	<b>34,248</b>	<b>116,774</b>	<b>\$15,048,321.65</b>	<b>\$15,659,772.33</b>	<b>\$13,733,036.95</b>

REPORT OPTIONS



# EISS ~ WebFRS

- Overall Unobligated Balances
- Object Class by CAN
- Data is pulled from Core and WebFRS (Oklahoma Area)
- Available Now

Executive Information Support System: Object Class by CAN - Microsoft Internet Explorer

Address: http://home.ihs.gov/itsc-cio/eiss/index.cfm?module=reports&option=FRSObjectClassByCAN&detail=1&requesttimeout=500

INDIAN HEALTH SERVICE INTRANET

HOME MY IHS PORTAL DIRECTORY / LOCATOR SITE MAP Search for: GO

EISS REPORTS

- TRAINING
  - Top Trainees
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  - Training Costs/Emp/Mo.
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  - Travel by Gender
  - Travel Costs by Object Class (Core)
  - Travel Costs/Mo. (ARMS)
  - Travel Costs/Emp/Mo. (ARMS)
- WEBFRS
  - Overall Unobligated Balances
  - Object Class by CAN

EISS Home  
Printer Friendly  
Logout Edit Profile

**FY2003 Obligations by CAN Report**

**Obligations by CAN - Summary Data**

CAN	ACTIVITY & COST CENTER DESCRIPTION	AMOUNT OBLIGATED	AMOUNT SPENT
J655510	IHS HOSPITALS & CLINICS: HEADQUARTERS SYSTEMS DEVELOPMENT	\$6,582,803.04	\$5,779,782.37
J656009	IHS HOSPITALS & CLINICS: HEADQUARTERS PROGRAM SERVICES	\$1,311,817.18	\$1,056,591.73
J942021	OIHS	\$681,104.40	\$54,262.50
J942250	DIRECT OPERATIONS: IHS	\$4,598,921.21	\$690,865.54
J942603	CLINICAL SERVICES: IHS	\$11,262,091.14	\$3,475,494.47
<b>Totals:</b>		<b>\$24,438,597.87</b>	<b>\$11,056,996.61</b>

**REPORT OPTIONS**

CAN Group: Keith Longie's CANs

CAN List: \_\_\_\_\_

Report Period: FY 2003

Report Type:  Group by CAN  Group by Object Class

Generate Report



## EISS ~ Reports in Development

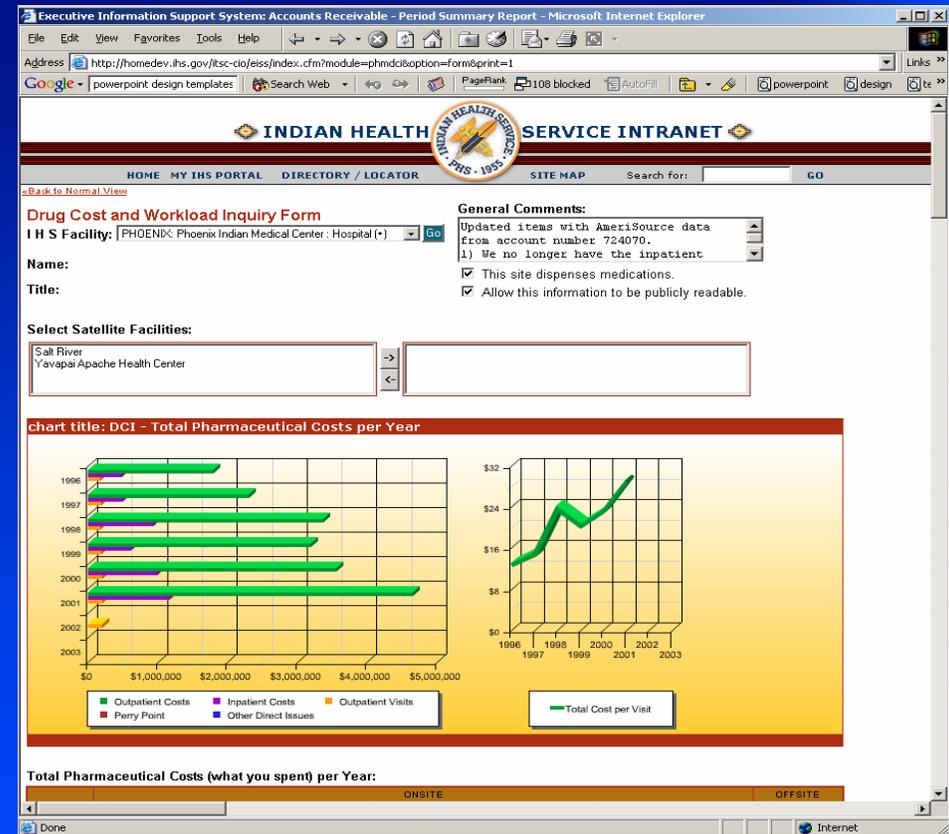
- Pharmacy Drug Costs and Workload
  - RPMS Accounts Receivable
    - GPRA+
  - IHS Facilities



# EISS ~ Pharmacy Drug Costs and Workload



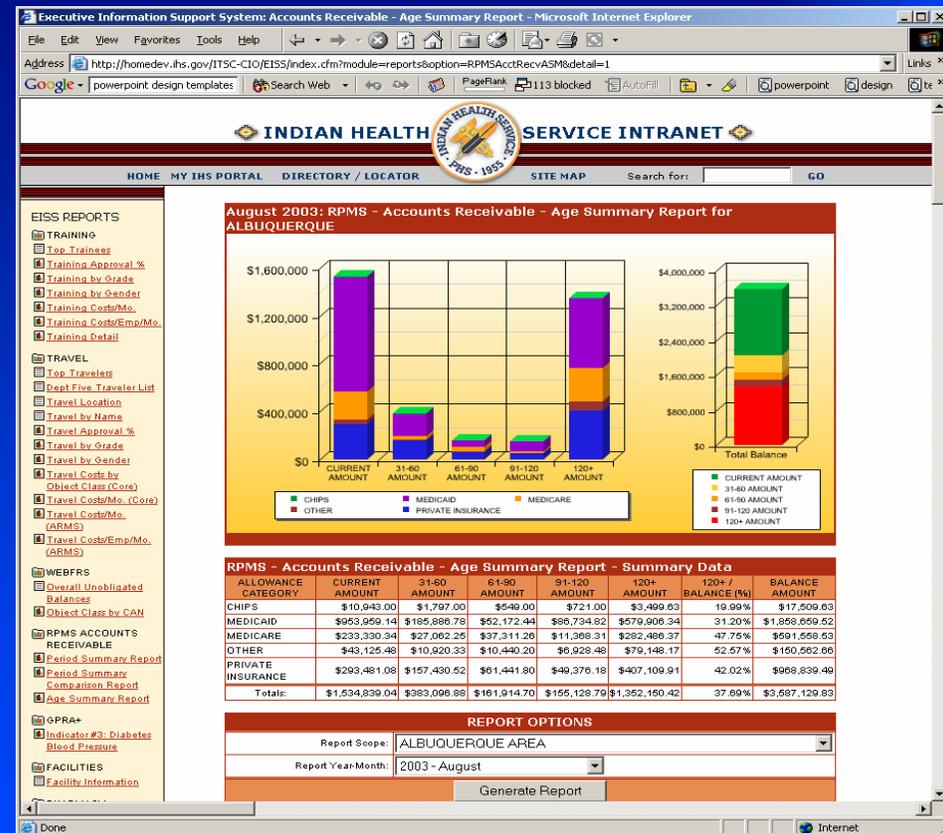
- Total Pharmaceutical Costs/Year
- Workload and User Pop Data/Year
- Cost/Year by Drug Class
- Additional Totals/Year
- Data pulled from AmeriSource, NPIRS, and web entries
- Available Q2 FY04





# EISS ~ RPMS Accounts Receivable

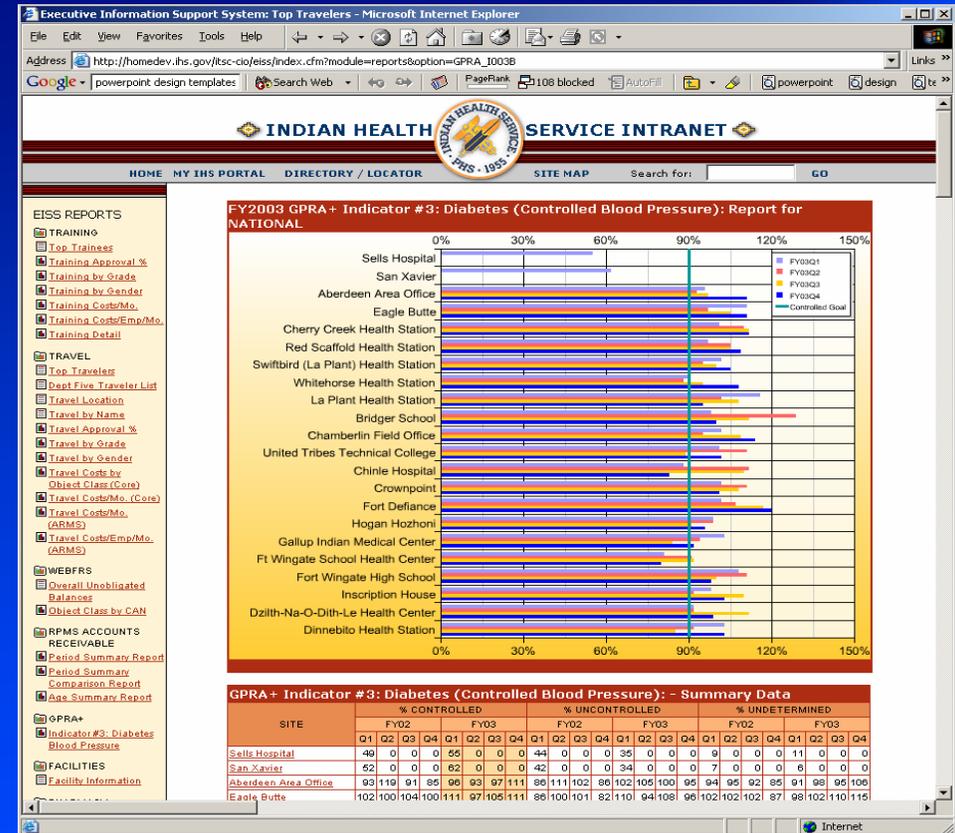
- Albuquerque Area Piloting
- Period Summary Report
- Period Summary Comparison Report
- Age Summary Report
- EISS is fed data by automatic RPMS exports
- Available Q2 FY04





# EISS ~ GPRA+ Indicators

- Goal is to graph FY04 indicators
- Currently in initial brainstorming and prototyping phase
- Data export format has been developed and is in testing
- EISS is fed data by automatic RPMS exports
- Availability TBD





# EISS ~ IHS Facilities

- Albuquerque Area Piloting
- The goal is to provide one location for IHS Facility centric data. For example...
- Contact Information (SUDs, CDs, AOs, etc.)
- Facility Descriptions
- Statistical Info
- Availability TBD





## EISS ~ Other Development

- **Incorporation of the USP\_ID**
  - Initial USP\_ID mapping project completed.
- **Security Granularity Upgrades**



# EISS ~ Unique Service Point Identifier (USP\_ID)



- Completed initial Facility Naming Project which was working to map ASUFAC codes to USP\_IDs as one of the primary goals.
- The USP\_ID is a globally unique, non-meaningful, non-changing service point (e.g. facility) identifier.
- First step in overcoming the changing ASUFAC problem was to map ASUFAC codes to a unique identifier.
- 3,200+ ASUFAC codes have been mapped to USP\_IDs to date.
- Area statisticians have completed the process of mapping the remaining 300+ (out of 3,500) ASUFAC codes to USP\_IDs.



# EISS ~ Security Updates

- Currently the system supports Area level access/locking only.
- Access currently given to Area and National level executives, finance, travel, and training personnel.
- Plan to use the USP\_IDs to allow Service Unit and Facility level access/locking of the data.
- The challenge is to provide a common security mechanism to many disparate data sources.
- Access will then be available to Service Unit and Facility executives, finance, travel, and training personnel.
- Estimated availability Q3 FY04



# EISS

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■ End of presentation

Questions, Comments, Suggestions...



# Rehab Act – Section 508

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- **DOJ Survey every 2 years**
  - **Spring 2004 - Accomplished**
- **Encompasses in-house software including RPMS, NPIRS, and Web**
- **Encompasses commercial s/w and h/w purchases (Effective June 2001)**
- **Lack of tools and resources to determine extent of violations**
- **Micro-purchases must conform Oct 1 2004**



# Etc.

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## ■ VHA/IHS IT Sharing

- Goal: share s/w
- Monthly calls
- PIMS trainer
- GUI Usability SAC
- Common codesets

## ■ CHI



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# ***Software Engineering Team*** ***(SET)***

**ISC Meeting**  
**June 22-23, 2004**  
**Albuquerque NM**