Current Events in the Office of Information Technology

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Agenda

- ISAC Priorities
- Matrix of Priorities
- OIT efforts in support of Priorities
- Budget
- Challenges

ISAC Priorities for 2012-2013

- Practice Management
- Interoperability
- EHR
- Infrastructure & Architecture
- Clinical Decision Support
- Meaningful Use
- Workforce Development
- Telemedicine Coordination
- Tribal Shares Calculation

- Data Quality & Accuracy
- Master Person Index
- Administrative Management Tools
- Bandwidth
- Security & Regulatory Compliance
- Innovation
- Patient Communication
- Environmental Health

IHS INFORMATION SYSTEMS ADVISORY COMMITTEE 2012-13 IT PRIORITIES

PRIORITY DESCRIPTION	2012 – 2013 RANKING	SUPPORTS IHS DIRECTOR'S PRIORITIES
PRACTICE MANAGEMENT (REVENUE GENERATION, COST AVOIDANCE, ICD-10)	1	2
INTEROPERABILITY / HEALTH INFORMATION EXCHANGE	2	3
ELECTRONIC HEALTH RECORD	3	3
INFRASTRUCTURE/ARCHITECTURE	4	2
CLINICAL DECISION SUPPORT	5	3
MEANINGFUL USE	6	3
WORKFORCE DEVELOPMENT	7	2
TELEMEDICINE COORDINATION	8	3
TRIBAL SHARES CALCULATION	9	1
DATA QUALITY/ACCURACY	10	3
IHS MASTER PATIENT INDEX (MPI)	11	2
ADMINISTRATIVE MANAGEMENT TOOLS	12	2
BANDWIDTH	13	3
SECURITY AND REGULATORY COMPLIANCE	14	3
INNOVATION OF TECHNICAL AND BUSINESS PRACTICES	15	4
PATIENT COMMUNICATION	16	3
ENVIRONMENTAL HEALTH	17	2

ISAC Priority 1 – Practice Management

- New Practice Management Contract – awarded September 13, 2010
  - Federal Team working with contractor to set priorities to include:
    - Meaningful Use and Certification
    - ICD-10 development considerations
    - HIPAA 5010
    - Billing, AR, and POS Patient Account Enhancements
    - CHS Enhancements

ISAC Priority 1 – Practice Mgmt

- RPMS practice management applications to maximize collections for federal tribal & urban users
  - Patient Registration – GUI released; next version in development
  - Admission, Discharge, Transfer – new GUI in development
  - Scheduling – GUI released; new version in development
  - 3rd Party Billing
  - Accounts Receivable
  - Pharmacy Point of Sale

ISAC Priority 2 – Health Information Exchange and Interoperability

- OIT has developed a health information exchange that will interface with the Nationwide Health Information Network Connect Gateway
- Currently OIT is completing the planning phase of rolling out the Health Information Exchange (HIE) Interoperability that includes the Master Patient Index
- OIT has completed testing of Continuity of Care Document \from RPMS

ISAC Priority 2 –
Health Information Exchange and Interoperability

- Required for meaningful use
- Pilot production testing is being coordinated with the New Mexico
- Issues remain about privacy and sharing of data

ISAC Priority 3 – EHR

- IHS has been using elements of an electronic medical record (RPMS) for over 25 years

- Fully capable RPMS Electronic Health Record (EHR) released in 2005 & deployed nationwide

  – Ambulatory and inpatient EHR certification testing completed for meaningful use – official notice in the next few weeks

RPMS EHR – Current Deployment (3/2011)

- Outpatient (may include partial use) – 247
  - Federal - 105
  - Tribal - 157
  - Urban - 9

- Inpatient (full implementation) – 20
  - Federal - 16
  - Tribal - 4

- Alaska Village Clinics – 32

ISAC Priority 4 - Infrastructure/Architecture

- Network Access via Secure Network
- Upgraded RPMS database Deployment
  - Close to done; required for meaningful use in order to exchange data
- RPMS Encryption to share data securely

ISAC Priority 4 - Infrastructure/Architecture

- Consolidation of OIT Data center with the BIA Data Center in Albuquerque
  - Data Center consolidation required by federal government initiative
  - BIA projections indicate that IHS will be able to move the weekend of April 11, 2011

ISAC Priority 5 – Clinical Decision Support

- RPMS EHR and iCare offer numerous types of Clinical Decision Support, including order checks, Clinical Reminders, and Best Practice Prompts

- OIT ensured that RPMS met the CDS requirements for Certification and Meaningful Use

- Innovative options for the next level of CDS are being explored with colleagues in DoD and VHA.

ISAC Priority 6 – Meaningful Use

- Area support for MU and integration of MU requirements with Improving Patient Care (IPC) initiative

  - 15 of 16 temporary 15- to 18-month positions have been filled; awaiting acceptance of offer for Navajo consultant

- Collaboration of IHS' MU Team, EHR Deployment Team and NIHB Regional Extension Center to form Indian Country MU Initiative

- RPMS EHRs (inpatient and ambulatory) are awaiting official notice of certification.

ISAC Priority 6 – Meaningful Use

- Non-RPMS sites will be dependent upon their respective vendors to secure certification for their commercial-off-the-shelf (COTS) products –list of certified EHR products - http://onc-chpl.force.com/ehrcert

- OIT has developed MU performance reports for determining achievement of MU measures for eligible providers and hospitals. The reports will be available May 1.

- OIT is developing reports to calculate patient volumes for both eligible providers and hospitals to determine eligibility for the Medicaid EHR Incentive Program. It is estimated the reports will be available in mid-June for RPMS sites.

ISAC Priority 7 – Workforce Development

- **FY2010 – 426 Events/ 6,128 Learners**
  - includes WebEx events

- **FY2011 (Oct – Feb) 124 Events/ 2,195 Learners**
  - includes WebEx events

ISAC Priority 7 – Workforce Development

- IT Workforce Development Project
  - IHS is working with American Indian Higher Education Consortium, Navajo Community College, and NIHB REC for to try to develop a workforce strategy.

- NIHB Regional Extension Center (NIHB REC)
  - Collaborating with NIHB REC on HIT workforce training requirements throughout Indian Country.

ISAC Priority 8 – Telemedicine Coordination

- Infrastructure
  - Expanded videoconferencing infrastructure via ARRA funding
  - Ongoing planning and resource review of needs for telecommunication infrastructure

ISAC Priority 8 – Telemedicine Coordination

- Collaborations and partnerships. Examples:
  - Continued work to integrate telehealth into IHS initiatives and activities (e.g. remote monitoring project with IPC initiative)
  - Work with other federal agencies and departments
    - Inclusion of telehealth in new MOU between IHS and Veterans Health Administration
    - Work with Office of Minority Health concerning disparities
    - Participation in NIH and HHS mHealth collaborations

ISAC Priority 9 – Tribal Share Calculation

– Covered in separate presentation

ISAC Priority 10 – Data Quality/Accuracy

- Data Standardization – common mapping, dialogs and coding (LOINC)

- Implementing Code Set Versioning, resolving all unlinked codes

- Need to transition to ICD 10 by 10/1/13

ISAC Priority 11 – Master Patient Index (MPI)

- Enables us to share medical records
- Beta testing at Fort Defiance, Gallup and Zuni completing in March
- Interfaces to Nationwide Health Information Network and Personal Health Record have been developed through our Health Information Exchange (HIE) Interoperability project
- National deployment of MPI is scheduled to begin in April, 2011

ISAC Priority 12 – Administrative Management Tools

- Practice management tools

- Business Intelligence Tools

- Support of the Data Warehouse

ISAC Priority 13 - Bandwidth

- The Federal Communication Commission's "National Broadband Plan" identifies critical needs in the Indian Health Service network

- Plan recommends $29 million per year to upgrade the I/T/U Network

- Staff providing feedback on proposed FCC reforms to expand broadband connectivity for health care providers.

ISAC Priority 14 – Security and Regulatory Compliance

- The Security Authorization process (formerly C&A) is placing increased emphasis on continuous monitoring.

- Risk Assessment template being developed that will also meet MU requirements for IHS/Tribal/Urban facilities

- Continuous monitoring "Risk Analysis" simplified and leverages HHS/IHS provided tools i.e. SecureFusion

Risk Automation Suite Overview

Symantec Risk Automation Tool

- Risk Automation is being used to scan the IHS network for security vulnerabilities (e.g., out-of-date patching)

- Reports are issued monthly to Area Directors, ISSOs, and ISCs

- Vulnerability management is a component of the risk assessment required by MU

ISAC Priority 15 – Innovation of Technical and Business Practices

- Cloud Computing and Virtualization
- Practice Management
- Extensible Data Warehousing
- Privacy and Security
- Telemedicine
- Mobile Health/ Social Media
- Geographic Information Systems (GIS)
- Population Health
  - Early disease surveillance and notification
- Clinical Decision Support

ISAC Priority 16 – Patient Communication

- Patient Education
- Health Communications Tools
- Self-Management Support
- Access to Health Information
  - Patient Wellness Handout
  - Personal Health Record
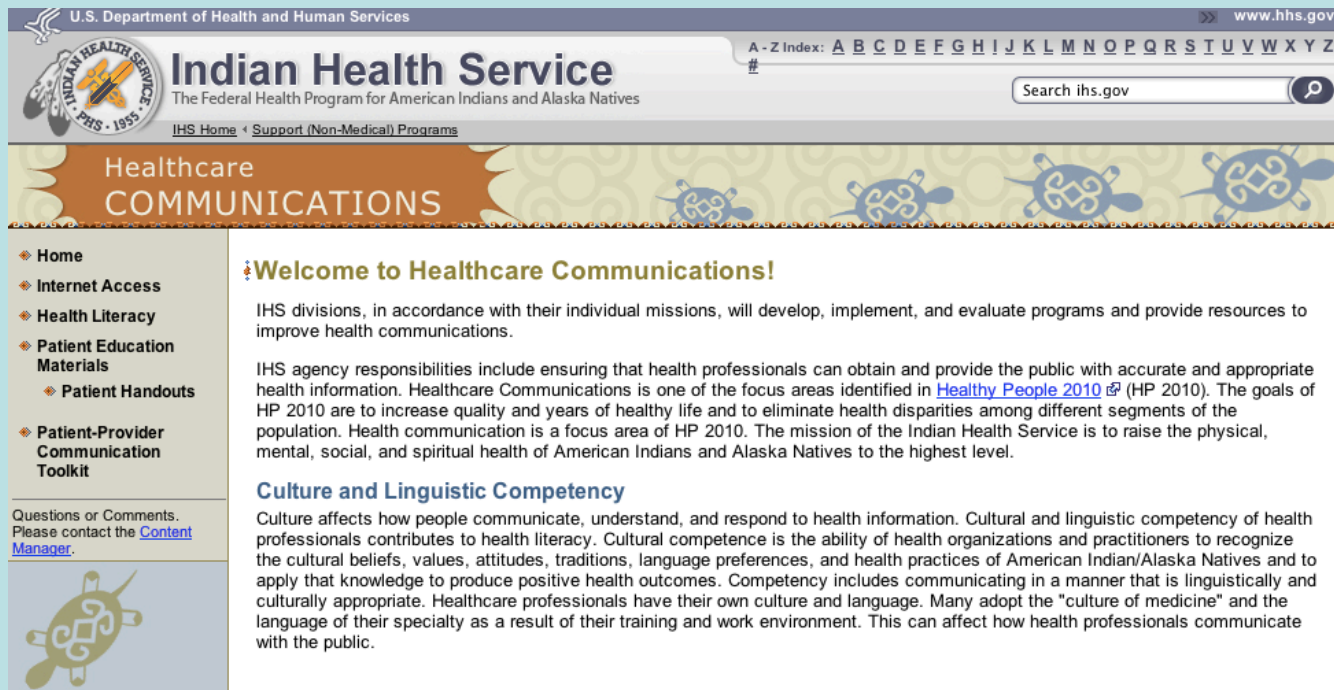
Patient Education

- Adding "readiness to learn" to patient education code string

- New patient education code updating process developed

- Revising the IHS patient ed websites

- Updating education related Health Factors

- Developing and updating patient education handout database to align with patient education codes
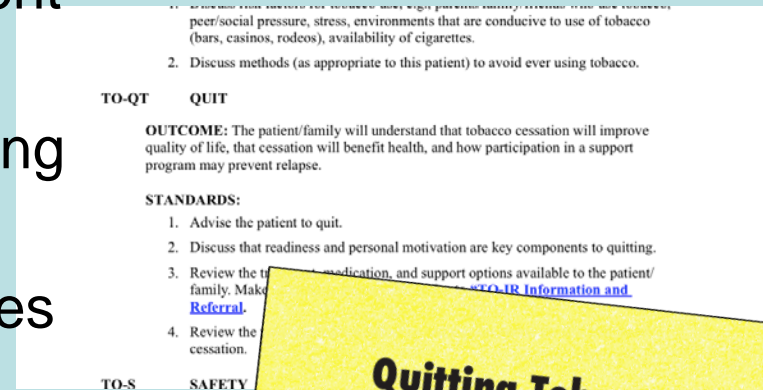
Health Communications

- New website
- Resources on health literacy and health communications information

Self-Management Support (SMS)

- Providing assistance to the IPC program on documenting SMS

- Developing a RPMS and EHR component to facilitate patient goals
  - Assistance provided by the Agency for Healthcare Research and Quality (AHRQ)

Patient Wellness Handout

- Version 2 released
  - Many new fields added
  - Ability to select which components display
  - New reporting capabilities
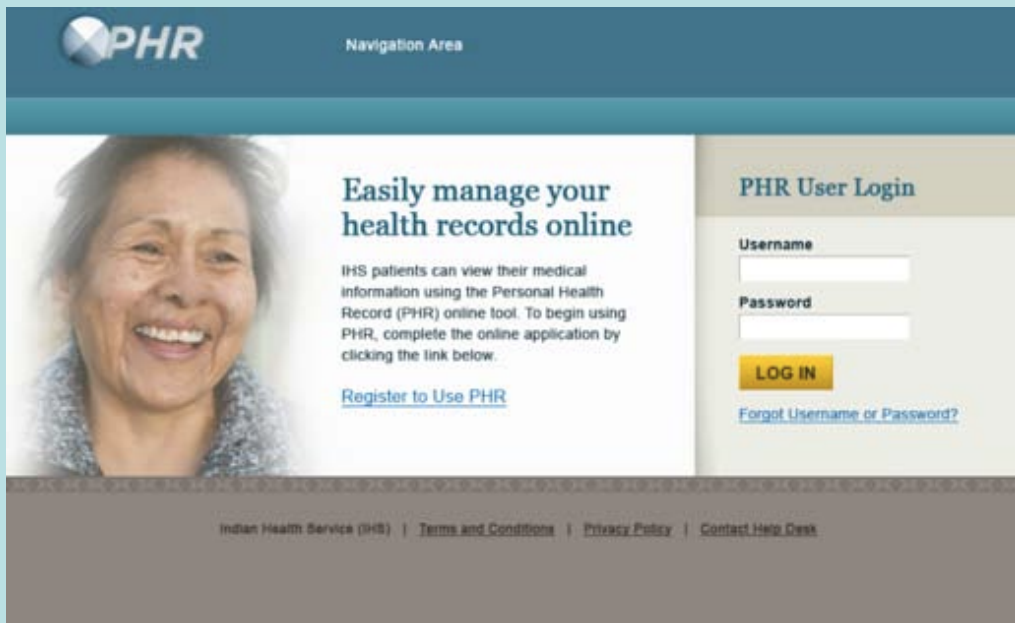 - Health summary display

HEIGHT/WEIGHT/BMI - Weight and Body Mass Index are good measures of your health. Determining a healthy weight and Body Mass Index also depends onhow tall you are. You are 5 feet and 1 inches tall.Your last weight was 214 pounds on Aug 03, 2010.You should have your weight rechecked at your next visit.
Your Body Mass Index on Aug 03, 2010 was 40.4.You are above a healthy weight. Ask your health care provider abouta weight that is good for you._____
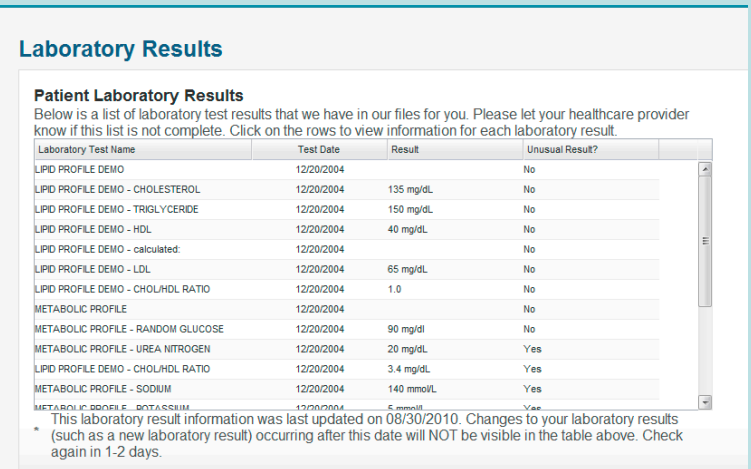_____MEDICATIONS - This is a list of medications and other items you aretaking including non-prescription medications, herbal, dietary, andtraditional supplements. Please let us know if this list is not complete. If you have other medications at home or are not sure ifyou should be taking them, call your health care provider to be safe.1.   ALBUTEROL MDI (HFA) 6.7GM   Rx#: 2856795 Refills left: 5   Directions: INHALE 2 PUFFS BY MOUTH EVERY 4 HOURS IF NEEDED FOR BREATHING; **SHAKE WELL BEFORE USING**

Personal Health Record (PHR)

- Integrates with Master Patient Index (MPI)
- Aligns with MU requirements to display patient medications, recent lab results, allergies, and problem list
- Requires in person authentication to create an account

Budget

- Continuing resolution based on FY 10 appropriation up till now
- Challenges to meet existing commitments
- Crosswalk of IT investments to performance investments

Challenges

- **ARRA dollars enabled OIT to meet many of our previously identified priorities. However, additional challenges remain, including**
  - **Earning Meaningful Use - 2013 and beyond**
    - **Interoperability**
    - **Sharing data**
  - **Transition to ICD-10**
    - ICD-10 is a diagnostic coding system implemented by the World Health Organization (WHO) in 1993 to replace ICD-9, which was developed by WHO in the 1970s.
    - IHS is required by the Centers for Medicare and Medicaid Services (CMS) to implement ICD-10 no later than **Oct. 1, 2013**.

Challenges

Access to Broadband Technology

- Federal Communications Commission (FCC) Broadband Plan
  - Released in March
  - FCC Commissioner specifically targeted the I/T/U network
    - Recommended $29 million annual initial investment into the I/T/U health network
  - Ongoing work with the FCC Commissioner

Ensuring IT Security

- IHS IT Security Program developed and implemented a 3-year plan to meet increasingly sophisticated attacks
- Encryption of data at-rest and in-motion
- Protection of personally identifiable information
- IHS and Tribes must work together to continue to document Tribal interconnections using the Interconnect Security Agreement as quickly as possible.

For More Information on HIT Initiatives

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FY 2010 CROSSWALK TO BUDGET ACTIVITIES	Request
List Of Major Investments	
NIPRS	$8.709
RPMS	$109.496
IOAT	$72.217
Total Major Investments	**$190.422**
Total Non-Major Investments	
Exhibit 53 Total	**$190.422**
CPIC	$0.380
Enterprise Architecture	$0.494
Security	$5.200
UFMS	11.423
IT Fund	0.893
Total Non-Major Investments	**18.390**
Total IT Spending	**208.812**

NOTE: Performance budget totaled $130,757,000. ARRA dollars in FY2010 were $74,015,000 for a total of $204,772,000.

FY 2011 CROSSWALK TO BUDGET ACTIVITIES	Request
List Of Major Investments	
NPIRS	$8.602
RPMS	$93.567
IOAT	$55.307
Total Major Investments	**$157.476**
Exhibit 53 Total	**$157.476**
UFMS	11.423
IT Fund	$0.893
Enterprise Architecture	$0.545
CPIC	$0.440
Security	$7.092
Total Non-Major Investments	**$20.393**
Total IT Spending	**$177.869**

NOTE: Performance budget request totaled $130,757,000 (continuing resolution from FY2010) – this crosswalk shows the additional FTE in IOAT from the data calls were not included in the performance budget.