
RESEARCH ADVISORY BOARD (RAB)
February 3, 2015 8:30-10:00 a.m. S-30

PRESENTATION: Follow-up on IT Initiatives – Pat Phelan

Pat Phelan discussed that the gloomy news on information security risk assessment continues. External, independent assessments of UCSF-wide information security risk findings indicate UCSF's level of risk is high. Data breaches continue to be recorded. UCSF ranks #2 in frequency of breaches from among 859 organizations. Federal enforcement activities are intensifying with corrective actions imposed. Breaches with open investigations involve email, laptop, paper and desktop computers. Pat discussed in detail the risk drivers, including missions that require a very open and collaborative culture, but a culture that also resists most forms of limitation, control and oversight.

- **Current projects and statuses:** (1) Policy and procedure review, anticipated completed January 2015; (2) Data Security Compliance Program, in progress; (3) Campus Border Firewall Filtering, in progress; (4) Network Access Control, in progress, (5) Password Policies, Summer 2015; and (6) Encryption Everywhere, in progress. Encryption project particularly huge, as there are over 2,200 applications.
- **Changes to expect:** Password expiration policies, two-factor authentication for technology system administrators and remote users; and, network traffic into and out of UCSF will be subject to more firewall restriction closing known security risks.

Questions/Comments:

- Does the level of risk, breaches and assessment reflect our size? -- Not specific to UCSF. Stanford is going through similar pains.
- There is a lot of pushback regarding encryption done on personal computers. Thoughts? -- Home machines stickiest part. Not all decisions made yet. Will require encryption on home machines if using for UCSF business.
- Gentle approach taken to gather data to determine how much help will be needed.
- Need a system that tells us when our system is not encrypted.
- Complexity and frequency of password policies may prompt passwords to be written down.
- How does my password get into your domain controller? -- Will be proposing some options for changing passwords periodically, such as two-factor authentications.
- Passwords will go away someday replaced by facial recognition and other biometric formats. Has this been considered?
- This process/rollout/program must be communicated broadly. Need to remember to use the communication channels. -- Started building schedule to all the faculty meetings to present this information.

Next Steps:

- **Initiate, design, install and plan rollouts for network access for Campus, device management, and control points risk management.**
- **Present additional recommendations for security changes to IT Governance at least quarterly, then approve changes at Chairs' committees.**
- **The following is a request to RAB Members:**
 - **Make data security an agenda item at your department meetings.**
 - **Partner with your DSCP Champions to compose and act on mitigation plans, then present at future department meetings security issues and priorities in your area.**
 - **If you know of a particular risk in your department, engage IT Security to assist.**
 - **Set a high bar for your leaders regarding information security.**

PRESENTATION: Use of APeX for Research – Doug Berman

Doug Berman provided a hands-on demonstration of accessing and providing concrete examples of the robust data capabilities for APeX, Accelerating Patient eXcellence. APeX, the name for Epic at UCSF, makes available over 530,000 unique patients with 9.5 million encounters (interactions between patients and UCSF). This ample data tool supports research activities with the integration of clinical systems into a single data source with reporting capabilities. Access is through an easy-to-use research data browser, open to staff and faculty. Data query can go across five UC Campuses with 13 million patients with queries on vital signs,

Charge to the Research Advisory Board (RAB)

- To provide input to the Office of Research, and ultimately the EVC&P, about the needs of investigators and administrators in conducting research and administering extramural funds.
- To guide priority setting and critical assessment of quality improvement efforts in the Office of Research
- To work with the Office of Research staff to ensure the successful implementation of the current Quality Improvement Project

diagnoses, diseases, metabolics, etc. Data consultation requests also are available. APeX reports often linked to workflows and include real time operational reports.

Questions/Comments:

- Tool can be demoed by Doug and his staff.
- Outreach and communication on tool's capabilities very important, particularly to the School of Medicine.
- We can create these tools, but unless the word gets out, no one will use these tools. About 50 researchers have utilized.
- There is a YouTube video.
- Currently, there is an agreement across UC Campuses to share data; and, now working across consortiums nationally.
- Goal is to leverage tool to recruit people into trials.
- We are leading the nation in IRB trust and rely system.
- Another component is to determine how to engage patients into research.
- EPIC combined over 13,000 table structures.

Next Steps:

Next stage is to have UCRex on the Research Data Browser; along with increasing data integrity and integrating into the CTSI Hub.

PRESENTATION: Uniform Guidance Quick Reference Guide for Principal Investigators – MC Gaisbauer

MC provided hard copies of “Uniform Guidance Quick Reference Guide for Principal Investigators” for review. She explained that the presentation was a late agenda entry and would be reviewed in more detail at a later RAB Meeting.

Comments:

- Jamie to email soft-copies to RAB Members.

Next Steps:

- MC plans to present this information in more detail at a future RAB Meeting.

PRESENTATION: Discussion on RAB – Dan Lowenstein

Dan Lowenstein discussed his transition to Executive Vice Chancellor and Provost; along with his transition from RAB. He thanked RAB members. His experience serving on RAB gave him insights on how the institution works. Dan expressed his gratitude for the inspiring commitment and creativity that RAB members contribute to UCSF. He also commended the constructive RAB environment that provides a forum to disagree but not disrespect. He discussed working at EVCP and using RAB as a source to look afresh at research, review process, communication, efficiencies, and other areas of the organization. Although Dan no longer can attend RAB meetings regularly, his door will be open at S115.

Questions/Comments:

- RAB members applauded and expressed their appreciation for Dan and his leadership.
- Thoughts about appointing a woman as new RAB head?
- Who will be new RAB head?

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A Brief Tour of UCSF's Clinical Data Sources and Resources

UCSF Research Advisory Council

Douglas Berman
Deputy Director Academic Research Systems

Goals for Access to Clinical data

- Tools and technology support researchers in their work
- EHR data is available to support our discovery mission
- Ensure our use of data is accurate, understandable, secure, and protects patient privacy

Overview

- What information tools and resources are available?
- How can researchers use these resources?
- How can I access these resources?

APeX

- Accelerating Patient eXcellence - Our name for Epic at UCSF
- Now in its third year as our primary clinical documentation tool
- Data for over 530,000 unique patients
- Over 9.5 Million encounters (Epic encounters are interactions between patients and UCSF)

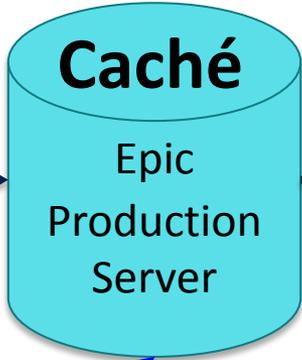


Integration of Systems

- APeX is highly integrated and will continue to become more integrated
 - 100 interfaces were built at go-live
 - Additional integration in progress
 - OnCore CTMS
 - Salesforce
- Integration of clinical systems
 - Supports patient care
 - Improves business
 - Creates rich data sets that are can support research activities
- EDW
 - Will create an environment to support analysis

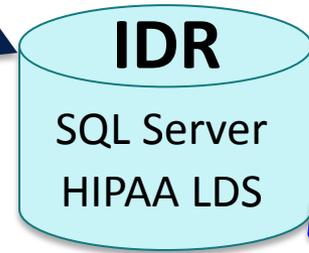
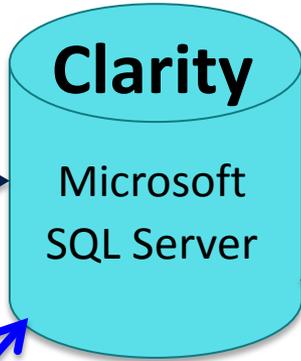
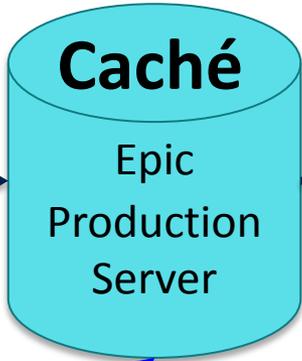
Clinical data access and tools

- APeX for researchers
 - APeX Reports
 - IDR and UC-ReX
 - Data Consultation Requests
 - Research Data Browser



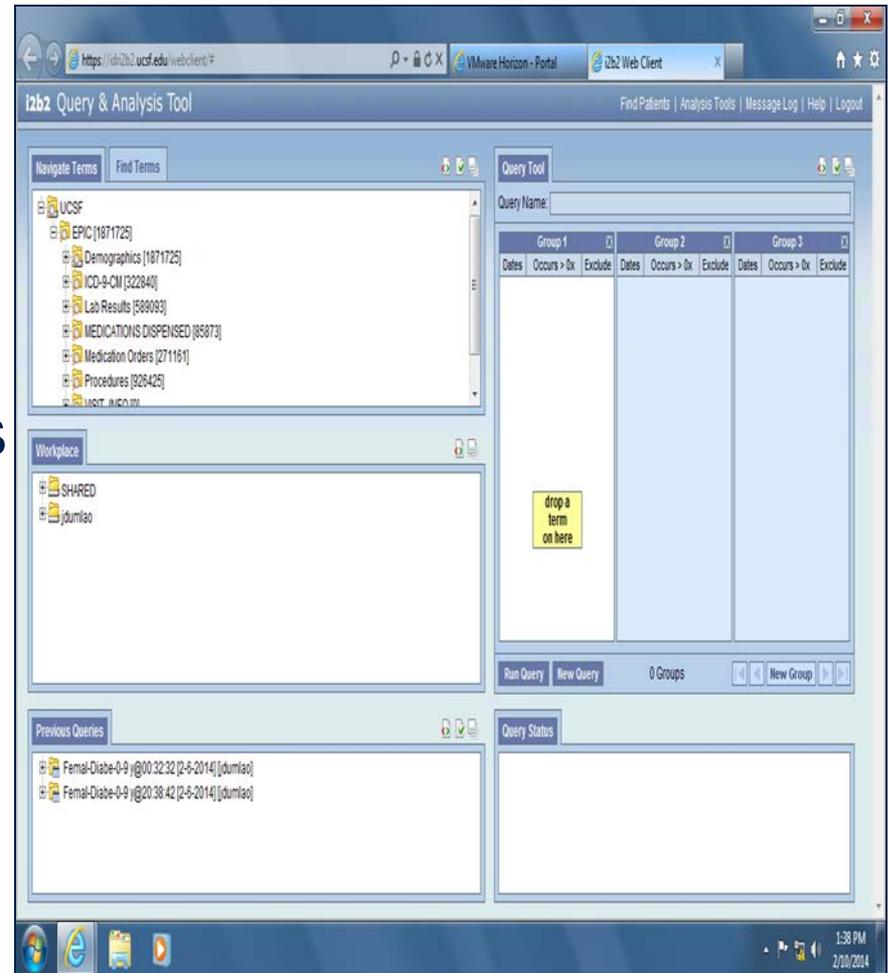
APeX Reports

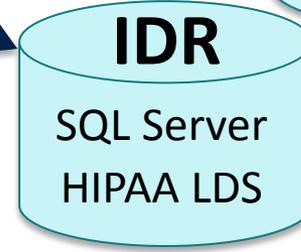
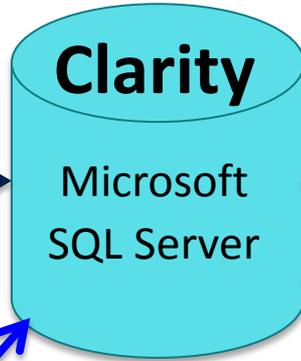
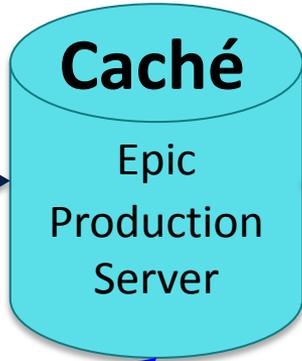
- For users of APeX often linked to workflow
- Operational reports
 - Radar Dashboards
 - Reporting Workbench
 - Crystal Reports



IDR

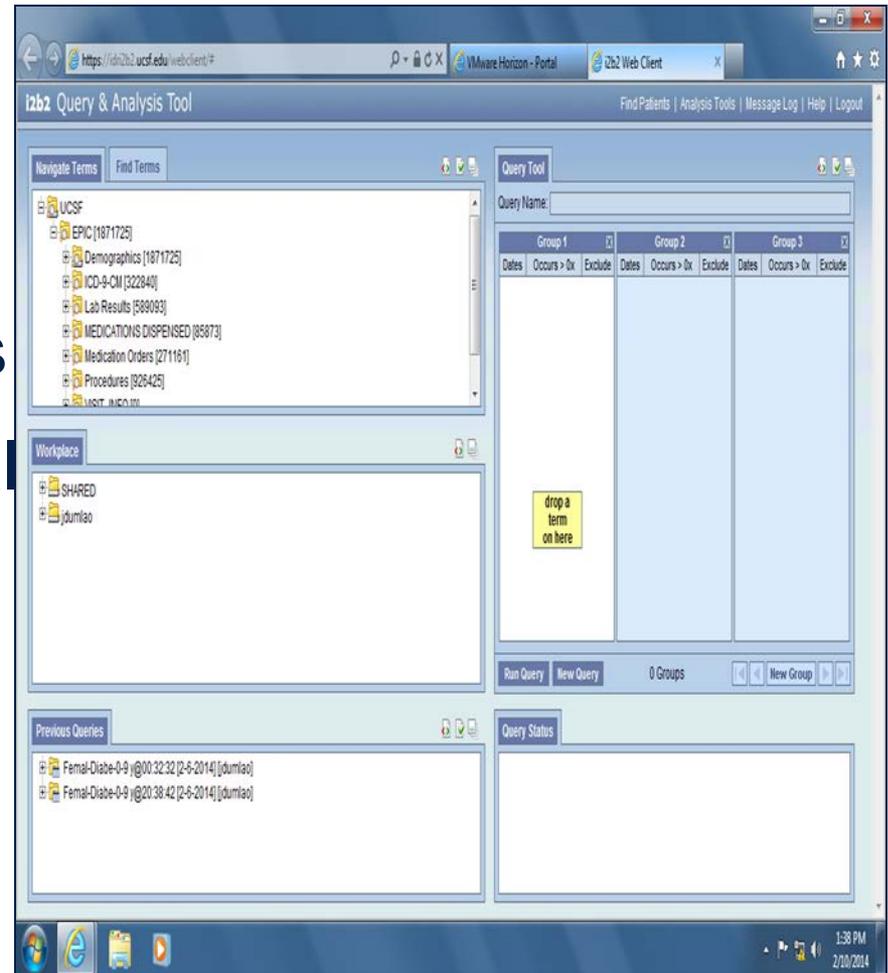
- De-identified repository allows identification and sizing of cohorts
- Easy to use
- Embeds standard ontologies (ICD, CPT, RX-Norm)
- IDR
 - 7 dimensions
 - APeX data
 - School of Dentistry data

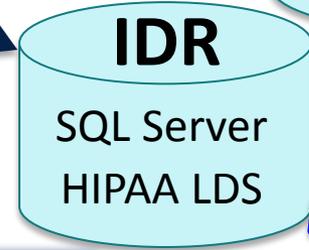
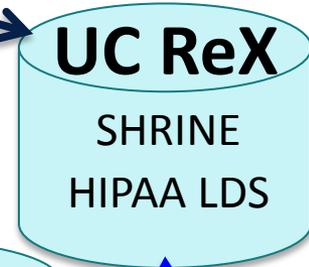
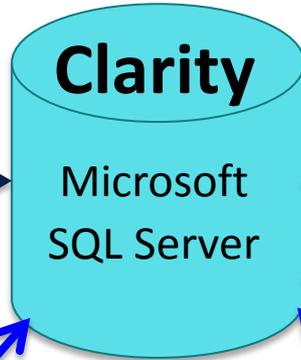
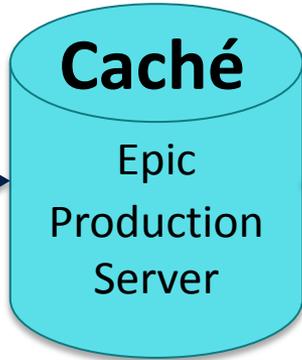




UC-ReX

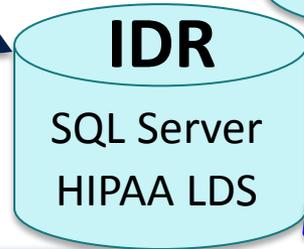
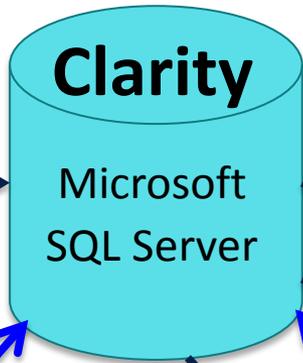
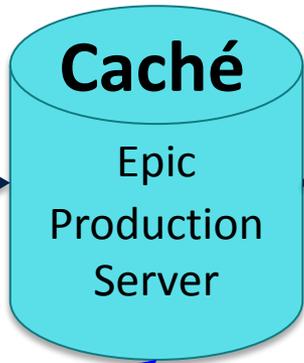
- De-identified repository allows identification and sizing of cohorts
- Easy to use
- Embeds standard ontologies (ICD, CPT, RX-Norm) uniform across 5 UC Medical Campuses
- UC-Rex
 - 4-dimensions with consistent meaning
 - over 13-Million patients
 - Trust and rely at IRB's





Data Consultation Requests

- Data is retrieved by an analyst through a request.
 - De-identified or identifiable with CHR-approved Protocol
 - SFGH Or APeX data
- The analyst assists in finding data and providing an extract
 - Often an interactive process
- Supports CTSI - Data Consultation Services & SF Coordinating Center
 - Data extracts, data analysis, study design, participant recruiting, etc.



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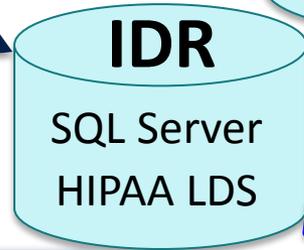
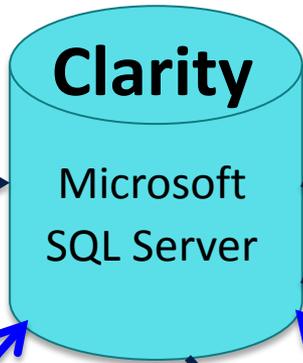
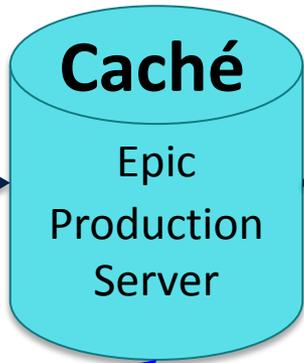
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Research Data Browser

Improved!

- De-identified view of APeX displayed graphically
- Identify and characterize populations of patients
- Based on Epic CDW uses native APeX terminology
- Web-based
- More information and more complexity than IDR or ReX





Methods compared

Method	Ease of use	Depth of Data	Uses Standard Terminology	Scope of Data	Use Restrictions
IDR	▲▲	▼	▲▲	APeX and School of Dentistry	Few (Data is deidentified)
UC-ReX	▲▲	▼	▲▲	EHR for 5 UC Med Campuses	Few (Data is deidentified)
Research Browser	▲	▲\▼	▲	APeX Only	Few (Data is deidentified)
APeX Reports	▲▲	▲\▼	▲\▼	APeX Operations	As appropriate to role
Data Extract Service	▲	▲▲	▲\▼	EHR data APeX and SFGH	Identifiable with approved protocol

At UCSF we have resources and tools to support research activities

<http://myresearch.ucsf.edu/resources>



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