

# EHR Database Reporting Series

v11 Order and Result

# Welcome

- **Reporting Best Practices**
- **v11 Result Data Tables**
- **v11 Order Data Tables**
- **v11 Order and Result Build/Configuration Tables**
- **Q&A – Chat and Live**

# Be Careful

- **The Allscripts database is Complex**
- **You can do harm, even by just running queries**
- **You may not have access due to your organization's IT policies**

# What To Do

- **Keep it simple**
  - Create complex queries by combining simple queries together
- **Use TEST**
  - Or, your organization's Data Warehouse, if you have one
  - If you run anything in production, make sure:
    - You have the permission of the IT/DBA group
    - You follow your organization's change management process
    - It is run off-hours
    - It runs quickly
      - Even complex queries should be less than a minute
    - Use (NOLOCK) table hints

# What To Do

- Avoid performance problems by running queries off hours
  - Queries are one common cause of performance issues reported to Allscripts
- [Verify](#) the accuracy of the output
- Get proper approval to access the database

# What NOT To Do

- Delete data. Ever.
- Share passwords with others, even “defaults” like IDXAdmin
- Save patient data on your PC or in email
  - HIPAA concerns
  - Your company’s policies

# IT/DBA Recommendations

- **Create separate users in SQL for each person accessing the database**
- **Create a reporting environment**
  - A copy of production, or
  - Use an ETL process, or
  - Use SQL Server Replication
- **Limit access to read-only**
  - [http://wiki.galenhealthcare.com/Reporting\\_Database\\_User\\_Permissions](http://wiki.galenhealthcare.com/Reporting_Database_User_Permissions)

# Common Result Data Tables

- **Act\_Hdr\_Result**
  - Header table for Orderable info – Accession Number, Ordering Provider
- **Act\_Result**
  - Detail table for Orderable info - Encounter link, Annotations link, Orderable
- **Item\_Result**
  - Header table for Resultable info – Resultable (and Orderable)
- **Result**
  - Detail table for Resultable info – most info may be found here – Result Values, Reference Range, Collected/Examined/Clinical Date, Stage, Where Performed, etc



# Common Order Data Tables

- **Order\_Activity\_Header**
  - Common record for Order data – look for ActivityHeaderID in many Order-related tables
- **Order\_Activity**
  - Order Number, Status, Ordering/Approving Providers
- **Order\_Item\_Common**
  - Order Instructions, Req. Perf. Location, To Be Done (Requested) Date, Charge Info
- **Item\_Plan**
  - Link to Plan\_Item details. Used less in v11.
- **Plan\_Item**
  - Patient Instructions, Performing Loc. Comments, Label Info
- **Encounter\_ItemChild**
  - Link to Encounter
- **Plan\_Item\_Order**
  - Link to Requisition and Specimen Label info
- **Order\_Result Mapper**
  - Link to related Result Activity record

# Common Order/Result Build Tables

- **QO\_Classification\_DE**
  - Primary Orderable Dictionary Info
- **QO\_DE**
  - Primary Resultable Dictionary Info
- **QO\_Class\_QO**
  - Orderable-Resultable Link, including Order of Display
- **Order\_Defaults**
  - Extended Orderable Dictionary Configuration
- **Order\_Item\_Identifier**
  - Requested Performing Location Identifiers
- **Req\_Perf\_Location\_DE**
  - Requested Performing Location

# Reference Information

- **SQL Views**
  - Created for this session
  - Will help apply what you saw today
  - **vGHSResult** - Common Result Data
  - **vGHSOrder** - Common Order Data
  - **vGHSPatient** - Common Patient Data, from our May webcast

# Lookup Tables and Normalization

- **Q: Why do I have to query 10 tables to get the info I need?**
- **A: Database Normalization**
  - Required for the application to run effectively
  - Yes, it makes reporting more difficult
  - [http://en.wikipedia.org/wiki/Database\\_normalization](http://en.wikipedia.org/wiki/Database_normalization)
- **Data Warehouses, e.g. Allscripts ETL**

# Summary

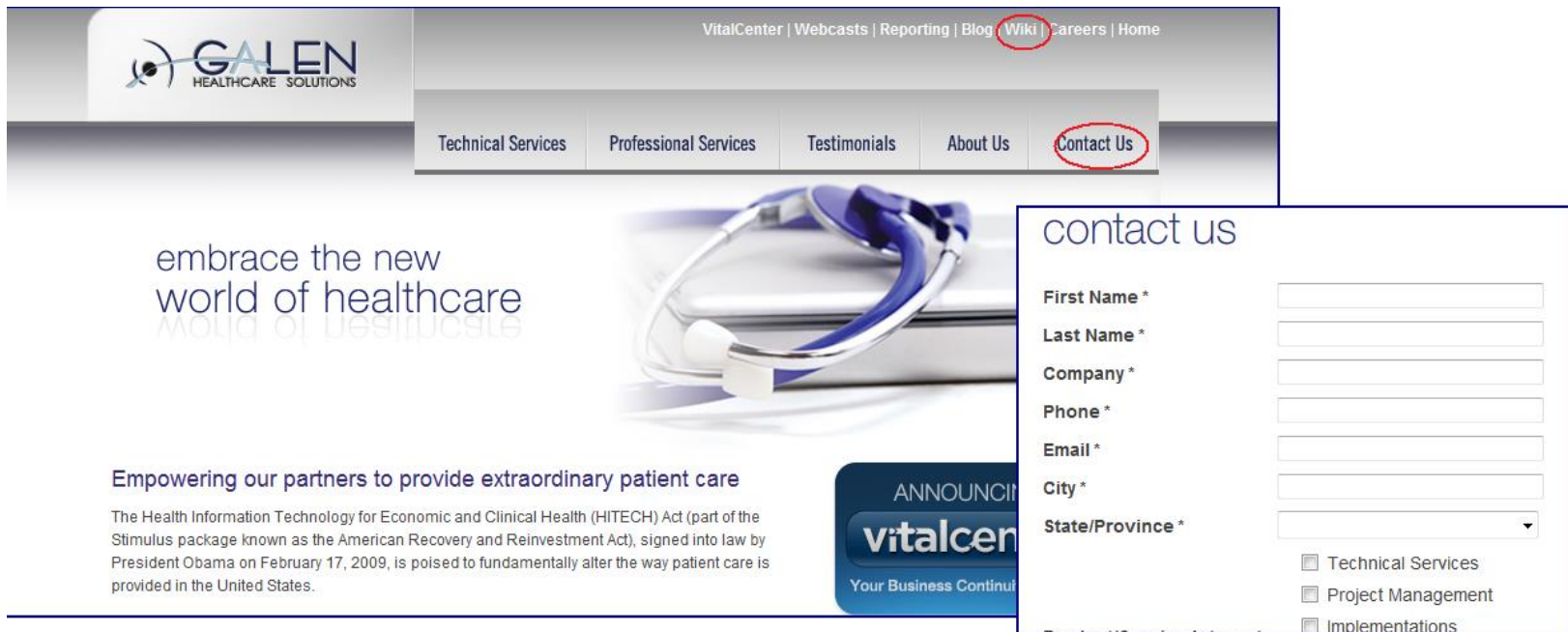
- **Get Permission**
- **Use Non-Production Environment to Validate**
- **Run Production Queries During Off Hours**
- **Result Data**
- **Order Data**
- **Order/Result Build**

# Galen Reporting Offerings

- **Custom Reports**
- **Custom Print Forms**
- **ETL and Analytics Reporting**
- **Training**
  - Allscripts DB
  - ETL DB
  - Analytics
  - Advanced Interface/ConnectR

Thank you for joining us today, for additional assistance....

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The Health Information Technology for Economic and Clinical Health (HITECH) Act (part of the Stimulus package known as the American Recovery and Reinvestment Act), signed into law by President Obama on February 17, 2009, is poised to fundamentally alter the way patient care is provided in the United States.

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