Welcome!

The Intermountain Healthcare Institute for Health Care Delivery Research offers courses specifically designed and focused for Intermountain employees. This booklet details the courses within the Data and Research Series. The courses facilitate the access and use of Intermountain data systems and are developed to teach methodology and principles of quality assurance and quality improvement measurements in health care. The scope of the series is meant to be comprehensive yet individualized to meet training and education needs of attendees.

Locations

- All Data Series courses are held at the Employee Health Services Center located at 5245 South College Drive, Murray Utah.
- Research courses TBA

Target Audiences

» Data Analysts
» Statisticians
» Researchers
» Other Data & Research Personnel

See page 6 for a complete list of suggested courses according to your job title and/or function.
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**Series Schedule**

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Registration

Registration is limited to a first-come, first-served basis with a maximum of 15 participants depending on the class with few courses having pre-requisites. Dates and times of the courses are subject to change.

Please register through Intermountain University.

1. Click “My Learning” located on the left of intermountain.net
2. Click on the Catalog tab and select “Browse Catalog”
3. Under the Subject Area Menu, click on Institute for Healthcare Delivery
4. Search for desired course and click on “Add to Learning Plan”
5. Navigate to Learning > Learning Plan from the top menu
6. Locate the course for which you want to register
7. Click on “Offering Details” for registration information
8. On the Registration page, review the “Available Scheduled Offerings” and find the segment you prefer
9. Click on “Register” for the corresponding scheduled offering
10. Verify and click on “Confirm”

*Courses listed with an asterisk in the Series & Course Schedule have pre-requisites. See Course Descriptions for details.

Contact Erin Gordon for more information at (801) 442-3718 or erin.gordon@imail.org.
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<th>Course</th>
<th>Analysts/Architects</th>
<th>EDW</th>
<th>Researchers</th>
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DATA SERIES

DATABASE DESIGN
Instructor(s): Steve Carrell

Course Description: Participants will be able to identify the key features of a relational database management system (RDBMS). Concepts of normalization will be discussed. The differences between RDBMS and AS/400 databases as well as how to read and interpret entity relation diagrams will also be discussed.

Course objectives:
• Features of relational database
• Normalization
• Entity relation diagrams

EDW OVERVIEW
Instructor(s): Lee Pierce

Course Description: Participants will understand why we have an Enterprise Data Warehouse (EDW) at Intermountain and how it is designed as well as how it is being used. The EDW website, metadata and report portal will also be reviewed.

Course objectives:
• Identify the functions and purposes of the EDW
• Understand the general structure of the EDW
• Navigate the EDW metadata website and the Report Portal
• Discuss various case studies of how the EDW is currently adding value

CASEMIX
Instructor(s): Jim Bradshaw

Course Description: Participants will gain an understanding of the sources, content, quality, and timing of CaseMix data and its flow from source systems to AS400 and EDW databases. Web based documentation for CaseMix data located in the Planning website and EDW metadata will be reviewed.

Course objectives:
• Content quality and timing of CaseMix data
• Flow from source systems to AS400 and EDW
• Documentation of CaseMix

CLINICAL INFORMATION SYSTEMS
Instructor(s): Len Bowes

Course Description: Course participants receive an overview of Intermountain Healthcare clinical information systems, along with how these applications are used to view, create, and update clinical information.

Course objectives:
• High level overview of major clinical information systems at Intermountain Healthcare
• In-depth view of Help1 & Help2 (the major integrated clinical information systems)
• How to access clinical data for analysis

APR-DRGs - UNDERSTANDING SEVERITY-ADJUSTED DATA
Instructor(s): Nancy McIeod

Course Description: Participants will understand how Intermountain Healthcare implements and how to appropriately utilize APR-DRGs in analysis.

Course objectives:
• State the definition and purpose of DRGs in general
• List at least two advantages of using APR-DRGs for clinical quality reports
• Define what “CaseMix” is, as it relates to APR-DRGs
• Describe the logic behind assigning a Severity of Illness (SOI) Level to a patient
• Interpret a report that has been severity-adjusted using APR-DRGs

CHARGEMASTER & COSTING
Instructor(s): Chris Bruerton, Trevor Flint, Graham Thompson, Mark Peterson

Course Description: Participants will be shown the purpose of the Intermountain Healthcare Chargemaster along with how to access Chargemaster data using the EDW. Participants will be introduced to costing calculations and storage of costing data. The purpose and calculation of RRUs and Cost Per Case will be discussed.

Course objectives:
• Purpose and function of the Chargemaster
• Using EDW to access Chargemaster data
• Calculation and storage of costing data
• Purpose and calculation of RRUs and Cost per case
CLINICAL PROGRAM OVERVIEW
Instructor(s): Dave Hale, Erick Henry, Tom Belnap, Karen Valentine, Jef Huntington, Jie Zhang, Linsey Krantz Hsieh, Lydia Dong, Pascal Briot, Eric Crawford, Jose Benuzillo

Course Description: Alignment of CMS/JCAHO/HDIS accreditation and specifications with Intermountain Clinical Program reporting. The course will survey each of Intermountain’s Clinical Programs with an emphasis on reporting. Reports generated on behalf of Clinical Programs incorporate many resources, skills and expertise demonstrated and acquired throughout the Data and Research Education Series. Coverage will include many of the tools, data sources, specification and requirements, program-specific examples as well as update and access issues associated with reporting processes.

Course objectives:
- Overview of Intermountain Board-level and Program Goals
- Report location, content, tools, and scope
- Survey of Clinical Program data marts and data sources

CLINICAL SERVICES OVERVIEW
Instructor(s): Jo Lynn Lee

Course Description: Clinical support services data source systems are expanding and evolving, allowing for more information to be available. There is an increased demand for clinical support services data utilization in Intermountain research projects. Participants will gain knowledge of the available Clinical Support Services data available in the Enterprise Data Warehouse and how to use that in their operational and clinical research.

Course objectives:
- Be aware of the clinical support services data available (Pharmacy, Imaging, Lab)
- Know the source of the clinical support services data in the EDW
- Be capable of querying and joining the clinical support services data to other available data to form a more complete clinical picture

EDW REPORTING TOOLS
Instructor(s): Mike Lyons

Course Description: Participants will understand which reporting tool would best suit their needs. High-level features of Microsoft Access, Business Objects’ Crystal Reports, Visual Mining’s Netcharts, the language SQL, open source SQL Tools, Cognos, and cubes are discussed and briefly demonstrated. Additionally, report distribution technologies are discussed; particularly the Analytic Desktop and the Intermountain portal’s Report site.

Course objectives:
- Discuss reporting basics and assignment of various responsibilities
- Review the current management of reports at Intermountain
- Learn what reporting tool will best fit your reporting needs
- Discuss the use of Metadata and Metareports
- Explore how cube (an Excel pivot table on steroids, if you will) analysis compares to a standard report
- Examine if and when the Analytic Desktop (Business Objects Enterprise or Crystal Enterprise or Cognos) tool will fit your report sharing needs

QUERYING DATABASES
Instructor(s): Steve Carrell

Course Description: Participants will understand the mechanics of joining, extracting, and summarizing data from large databases. In a lab setting, participants will utilize Microsoft Access to perform a query from an Intermountain Healthcare database, and create a data set. Participants will utilize tools in Microsoft Access to clean and transform data. The relationship of SQL language to queries will be addressed.

Course objectives:
- Mechanics of joining, extracting, and summarizing data
- Clean and transform data
- Relationship of SQL to queries
- Utilize Microsoft Access to perform queries
**Oracle SQL Fundamentals I**  
Instructor(s): Gretchen Walker

Course Description: Participants will learn how to write basic SQL statements with simple table joins.

Course objectives:
- Understand high-level relational database concepts
- Learn how to use the EDW metadata
- Write SELECT statements using SELECT, FROM, WHERE, and ORDER BY clauses
- Use SQL Developer to execute SQL queries and display results
- Accomplish simple table joins

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**Analysis & Statistics 101**  
Instructor(s): Tom Belnap & Jef Huntington

Pre-requisite: Oracle SQL Fundamentals I

Course Description: Using Statit, participants will learn how to prepare data for analysis. Participants will gain an understanding of graphical presentation of unvaried and summary statistics. Participants will produce measures of central tendency, frequencies, and other basic statistical measures. Application of concepts will use participant's self-selected data set and Statit.

Course objectives:
- Conceptual framework of statistical studies (i.e. study design, basic statistical concepts, data types and appropriate analysis)
- Data collection, preparation and data transformation
- Graphical and numerical summary of sample data 2x2 tables

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**Oracle SQL Fundamentals II - Part I**  
Instructor(s): Dallin Rogers

Also Available Online  
https://my.intermountain.net/institute/edu/Pages/DataSeriesClasses.aspx

Pre-requisite: Oracle SQL Fundamentals I or experience writing basic SQL select statements

Course Description: Participants will be introduced to additional concepts beyond basic SQL. Topics include: a review of basic SQL, compound queries, table joins, aggregate functions, and ‘Group By’ queries. The class incorporates numerous hands-on exercises allowing the student to practice the material throughout the class.

Course objectives:
- Understand and use compound queries
- Join tables using inner, outer, full, and multiple joins
- Write intermediate to complex SQL statements using aggregate functions and grouping queries

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**Analysis & Statistics 102**  
Instructor(s): Tom Belnap & Jef Huntington

Pre-requisite: Oracle SQL Fundamentals I and Analysis & Statistics 101

Course Description: Using Statit, participants will be introduced to various parametric and non-parametric statistical tests. Concepts of correlation, linear models, and comparison limitations will be discussed. Note: This session is only an introduction of statistical tests, underlying formulas and detail will not be covered. Please seek the assistance of an advanced prepared analyst/statistician in the use of these tests.

Course objectives:
- Parametric and Non-parametric Statistical Analysis
- Central Limit Theorem; Normal and other types of probability distributions
- Statistical inference
- Confidence Intervals
- Hypothesis Testing (t-test, ANOVA)
- Regression analysis (Linear and other types)
- Measures of Association
- Statistical Process Control
- Application using Statit
Oracle SQL Fundamentals II - Part II
Instructor(s): Dallin Rogers
Also Available Online
https://my.intermountain.net/institute/edu/Pages/DataSeriesClasses.aspx
Pre-requisite: Oracle SQL Fundamentals I
Course Description: Participants will be introduced to additional concepts beyond basic SQL. Topics include: row-level number, character, date, and conversion functions; as well as the use of in-line views or sub-queries. The class incorporates numerous hands-on exercises allowing the student to practice the material throughout the class.
Course objectives:
• Incorporate number, character, date, and conversion functions into SQL statements
• Use in-line views or sub-queries to simplify and improve the performance of SQL queries

Data Collection
Instructor(s): Available Online
https://my.intermountain.net/institute/edu/Pages/DataSeriesClasses.aspx
Course Description: Participants will understand the process of data collection based on process flow. Participants will learn methods to maximize information content and completeness. Participants will learn the purpose of coded data collection instruments and how to create a comprehensive coding manual for data collection instruments.
Course objectives:
• Data collection based on process flow
• Maximizing information content
• Data completeness
• Coding data and creating coding manuals

Graphical Presentation
Instructor(s): Available Online
https://my.intermountain.net/institute/edu/Pages/DataSeriesClasses.aspx
Course Description: Participants will understand the principles of producing clear, easily understood graphical displays of data. Principles of data clarity, design, and bias will be discussed.
Course Objectives:
• Data clarity: axis labels, scales, tick marks, symbols
• Graph resizing and reproduction
• Perspective: position, distance, area, angle
• Recognizing and avoiding bias in creating graphs
• Balancing clarity and interest

Data Types/Control Charts
Instructor(s): Available Online
https://my.intermountain.net/institute/edu/Pages/DataSeriesClasses.aspx
Course Description: Participants will understand the four main data types — nominal, ordinal, interval, and ratio — and related subtypes, such as binary, continuous, and discrete. Participants will understand the frequency distribution and its graphical representation associated with each data type. Participants will understand control charts representing data using each of the data types, and how control charts differ from frequency distribution charts. Participants will learn to differentiate random from assignable variation, and learn techniques to interpret and avoid misinterpretation of control charts. Illustrative examples of data will be used.
Course objectives:
• Data types: nominal, ordinal, interval, ratio, and subtypes
• Frequency distributions associated with data types
• Control charts associated with frequency distributions and data types
• Recognizing and quantifying unusual events
• Differentiating random and assignable variation
• Common computer desktop analytical tools

Research Series Courses
Course titles, dates, and times TBA
For questions about what is offered, course dates and times, or to be placed on a waiting list please contact
Erin Gordon
Ph: 801-442-3718
erin.gordon@imail.org
Thank you for your interest in the Clinical Quality Improvement and Research Presentations co-hosted by the Institute for Health Care Delivery Research and the Office of Research. These presentations highlight results of current research conducted across the Intermountain Healthcare system. Webcasts are presented throughout the year and will be available for viewing at your convenience. Visit the Institute home page at https://my.intermountain.net/institute/Pages/home.aspx Once there, click the “Education” navigation on the left to access Intermountain research presentations on-demand. Check back to stay up-to-date on current research highlights as we will be adding new webcasts every other month throughout the year.

When you enter the page, you may click on the date to activate the archived copy of the CQI presentation. Windows Media Player (WMP) will open to play the content. You must have at least WMP version 9. If you are not able to hear the presentation, check that the volume in your WMP window is turned up. The webcast is for internal use only.

You will not be able to view the webcast if you attempt to access it outside the system unless you have a VPN connection. The quality of the webcast you will see on your computer depends on your connection speed. Varied pauses and stops in both audio and video may occur. At any time should the webcast stop, enter the link in your browser again. Continue until you are able to see the webcast. Should you encounter any other difficulties, email your comments or questions to david.fowers@imail.org.

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Directions
Classes will be held in the Employee Health Services Center located at 5245 South College Drive Murray, Utah.

Contact Us
Please contact us if you have any questions or comments regarding these courses.

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