



Strengthening Your Data Analytics Skills & Techniques

Agenda

Tuesday, July 11

8:00 am – 8:30 am **Continental Breakfast & Sign In**

8:30 am – 8:45 am **Welcome & Program Introduction**

Katie Baker
Director, Education & Training, NHCAA

8:45 am – 9:45 am **Utilizing Data in Health Care Fraud Investigations**

Mr. Berls has direct oversight of SIU operations and governs a comprehensive anti-fraud, waste, and abuse investigative program, including a data analytics team. Discuss the critical role of analysts in investigations and how to build bridges to work effectively and enhance organizational goals. Understand how data is incorporated into every facet of the investigative process.

Matthew H. Berls, MA, AHFI
Vice President, SIU & Data Intelligence, UnitedHealthcare

9:45 am – 10:00 am **Break**

10:00 am – 11:30 am **Utilization and Quantification of Nursing Notes in a HCF Case**

Join the analysts who support the FBI's Health Care Fraud mission as they walk through the process of cleaning and organizing data for case investigations. Follow along as they navigate the intricacies of a nursing notes investigation while utilizing best practices as it relates to data analysis.

In this session, attendees will hear about the steps that our team takes, from formatting data to the visualization of nursing notes, in an FBI investigation.

Ian Horter
Supervisory Records Examiner, Federal Bureau of Investigation

Sheridan Johnson
Senior Pre-Seizure Specialist, Federal Bureau of Investigation

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11:30 am – 12:45 pm

Lunch

12:45 pm – 2:00 pm

Data Visualization - Viewing Fraud Investigations from a Different Angle

The goal of data visualization is to make it easier to identify patterns, trends, and outliers in large data sets. The output can be used to streamline investigations. This session will provide analysts with techniques to combat fraud and enhance strategy for efficient investigations. The speaker will explain the main types of visualizations and the best utilization of each. The presentation will also illustrate how data visualization can drive investigative strategy.

Joe Oringel
Managing Director, Visual Risk IQ

2:00 pm – 2:15 pm

Break

2:15 pm - 3:15 pm

Explore the Power of Sampling and Extrapolation: Best Practices Lead to Effective Investigations

This session will provide an overview of statistical sampling, emphasizing its purpose in selecting a representative subset of an investigation population for statistical and analytic purposes. This data analysis technique enables us to draw meaningful conclusions about the larger population. A key focus will be on selecting a sampling method that aligns with the investigation's objectives, eliminating selection bias, and ensuring the sample generated accurately represents the entire universe. Speakers will also explore various methodologies such as random sampling and stratified sampling, emphasizing their ability to withstand scrutiny when challenged in the court system or ALJ hearings. Hear best practices that ensure the validity of extrapolation, emphasizing its close relationship with starting from a valid sample selection. Considerations such as lower limits, confidence levels, and point estimates will be explored in detail, highlighting their significance in interpreting extrapolation results.

Angela Cook, PMP, A-CSM, CSPO
Program Director, Integrity Management Services, Inc.

Rebecca Nichols Gould
Assistant Vice President FL Compliance & National SIU, Liberty Dental

Mike Walsh
Statistical Subject Matter Expert, Integrity Management Services, Inc.

3:15 pm – 3:30 pm

Break

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3:30 pm - 4:45 pm

Roundtable Discussion

During each roundtable discussion participants will select from several data topics and will break into small groups. In these groups, discuss challenges, best practices, and troubleshoot issues with peers. After the small group discussion, gather as a class to hear what other groups discussed.

Wednesday, July 12

8:30 am – 9:00 am

Continental Breakfast & Sign In

9:00 am – 10:00 am

Mission Impossible: Using Big Data to Identify, Investigate, and Indict Health Care Fraud Schemes

Data may seem daunting, but it can be used in exciting ways to initiate investigations and obtain health care fraud convictions. Review a multi-tiered case study that began with proactive data mining analysis and ended with the prosecution and conviction of a physician, a CEO, and a career criminal. Detailed discussion will include: techniques to identify extreme outliers in claims data; mapping historical cell site data alongside impossible claim submissions; using an undercover source to expose violations of the anti-kickback statute; and analyzing claims data to reveal fraudulent hospice and home health care providers.

Lucas Alfaro
Special Agent
U.S. Department of Health and Human Services, Office of Inspector General

Allison Lammers
Special Agent, Federal Bureau of Investigation

10:00 am – 10:15 am

Break

10:15 am – 11:45 am

There's a formula for That! Excel Tips and Tricks for Successful Investigations

This session will walk through a pharmacy case while discussing how Excel was used to analyze the claims data in a number of helpful ways. The key concepts will include: - Macros - process automation - Back-Billing - claim submission date analysis - Match Function - looking to see if the same data point exists elsewhere - Geographical Analysis - reviewing travel distance - V-Lookup - adding data into a cell if related data matches

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We will discuss not only how these concepts were used in the pharmacy investigation, but how the viewers can apply the concepts to their own investigations.

Mary Pereira, CFE
Investigator, AmeriHealth Caritas

11:45 am – 1:00 pm

Lunch

1:00 pm – 2:30 pm

A Sneak Peek, Turned Deep Dive Data Analysis: Residential Treatment Centers, Intensive Outpatient, and Partial Hospitalization Programs for Drug and Alcohol, and Psych Treatments

This case study will walk through what started as a confirmation of an SIU's suspicion, that grew into a benchmarking review and data project with many arms and legs. We will follow the thought process of how each step led from one view to the next. Discussing along the way the importance of visually interpreting your data for the consumer. Together we will travel from the 10,000 foot level into the details that uncover actionable provider and member outliers and eventually, fruitful cases.

Carlyn Hoffman, AHFI
Senior Investigator, Integrity Advantage

2:30 pm - 3:30 pm

Visualizing Networks to Identify Fraud

This session will provide an overview of investigative techniques and network analysis used to visualize fraud indicators obscured in data. Speakers will highlight how augmenting and diversifying investigative resources can detect hidden connections without fee-based subscriptions.

In addition, the components of using network analytics and OSINT research will be explored. Discuss how these tools can enhance fraud detection while maximizing return on investment. A case study will be presented, including identification methodologies, line of business targets (i.e., telemedicine/DME), and how network analysis assisted in the early identification of emerging fraud schemes. The discussion will examine how ideas can be incorporated into existing fraud programs.

Gary Cantrell
Specialist Leader, Deloitte

Althea Matthews
Statistician, CMS, Center for Program Integrity

Thomas Smith
Senior Consultant, Deloitte

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3:30 pm – 3:45 pm **Break**

3:45 pm - 5:00 pm **Roundtable Discussion**

Thursday, July 13

8:30 am – 9:00 am **Continental Breakfast & Sign In**

9:00 am – 10:15 am **Top Data Analytics for Data Review**

Examine the three top analytics the data team runs for the SIU. The “easy” Pivot Table for reviewing service levels. The “intermediate” overlap analysis and the “hard” surveillance/diagnostic, which uses a combination of Alteryx and Excel.

LeAnne Johnson
Practice Specialist, National Special Investigations Unit, Kaiser Permanente

10:15 am – 10:30 am **Break**

10:30 am – 12:00 pm **The Future of Data Analytics – Solving Problems Using AI and Machine Learning**

As AI and machine learning technology becomes more mainstream, it’s critical to understand how to leverage the power of machine learning; however, as organizations become more dependent on AI, there is also a need to determine how much confidence and trust to place in technology. Swathi Young, an award-winning leader with over 20 years of technology experience, including health care anti-fraud investigations, will discuss innovations, challenges, and considerations in this dynamic space.

Swathi Young
Chief Technology Officer, SustainChain

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