



Health Level Seven® International
Unlocking the Power of Health Information

A wide-angle photograph of the Atlanta skyline at dusk, with several skyscrapers illuminated. In the foreground, a multi-lane highway is filled with cars, creating a sense of motion. The image has a warm, orange-yellow tint.

33rd Annual Plenary & Working Group Meeting

September 14 – 20, 2019

Atlanta Marriott Marquis • Atlanta, Georgia

Register Today!

Early Bird Registration Cutoff: August 24, 2019

Hotel Reservation Cutoff: August 30, 2019

Online Registration Cutoff: August 31, 2019



#HL7WGM



® Health Level Seven, HL7, CDA, FHIR and the FHIR [FLAME DESIGN] are registered trademarks of Health Level Seven International, registered in the US Patent and Trademark Office.

Table of Contents

Upcoming Co-Chair Elections 2

What is a Working Group Meeting? 3

Education Tracks 3

Tutorials 4–12

Tutorials at a Glance 13

Meetings at a Glance 14–15

Meetings 16–19

General Information 20

Meeting Registration Form 21–23

Upcoming Working Group Meetings . . 24

About Atlanta 25

Upcoming Co-Chair Elections

The following HL7 work groups will conduct co-chair elections at this working group meeting.

Work Group	# being elected
Anesthesia	1
Arden Syntax	1
Biomedical Research and Regulation	1
Clinical Decision Support	2
Clinical Interoperability Council	1
Clinical Quality Information	1
Conformance	1
Emergency Care	1
FHIR Infrastructure	2
Financial Management	1
Imaging Integration	1
Learning Health Systems	1
Modeling and Methodology	1
Orders and Observations	1
Patient Care	3
Pharmacy	2
Public Health	2
Publishing	1
Structured Documents	1

Thank You to Our Sponsors

HL7 FHIR CONNECTATHON SPONSOR



A E G I S

BRONZE SPONSOR



INTERFACEWARE

Meeting Schedule Key

- Q1: 9:00 am – 10:30 am
- Q2: 11:00 am – 12:30 pm
- Q3: 1:45 pm – 3:00 pm
- Q4: 3:30 pm – 5:00 pm

What is a Working Group Meeting?

HL7 International working group meetings (WGMs) are held three times per year at varying locations and serve two important purposes:

- To provide HL7 International work groups a chance to meet face to face to work on the standards as well as the opportunity to network with industry leaders from around the world.
- To provide an invaluable educational resource for the healthcare IT community.

Standards Development

More than 40 HL7 work groups are dedicated to specialized areas of interest such as Mobile Health and Electronic Health Records. These work groups are directly responsible for the content of the standards and spend much of their time at the WGMs hard at work on standards development.

Education Tracks

WGM courses are organized into three tracks to make it easier to choose the educational offerings that are right for you:

Track 1 – HL7 FHIR® in Depth

This track provides tutorials and other activities focused on HL7's Fast Healthcare Interoperability Resources (FHIR®) standard. It includes a mixture of tutorials, hands-on development at the Connectathon, and interactive presentations to bring implementers and decision makers up to speed and ready to use the standard in their own environments.

Track 2 – Introductory Topics

The Introductory Topics track offers a variety of tutorials that may involve multiple standards product families, and general topics such as

Attending a WGM can be a great way to keep up-to-date on what is happening in a particular area, and everyone attending an HL7 WGM is invited to attend any of the work groups.

Please see pages 16–19 for a complete schedule of meeting times throughout the week.

Tutorials

Numerous educational opportunities will be offered at this WGM. Sessions will cover a full range of HL7-specific topics such as clinical genomics, the Clinical Document Architecture (CDA®), Fast Healthcare Interoperability Standards (FHIR®), among others. Educational sessions also include industry topics such as Electronic Health Records and standards for interoperability. For a full listing of course descriptions, please see pages 4–12.

security, vocabulary and interoperability. It provides introductory classes and foundational classes for students new to standards-based interoperability.

Track 3 – HL7 Process & General Interest

This track provides tutorials designed to support new member involvement and help existing members become more effective in their participation in the HL7 standards development process. Tutorials included in this track are first timers' orientation, introduction to HL7 organization and process, the HL7 development framework and co-chair training.

These tracks are only suggested course groupings. We encourage you to choose whatever courses are right for you from among the three tracks.



HL7 MEETINGS ARE GREEN: Bring your laptop to your tutorials!

To reduce HL7's carbon footprint, its meetings are largely paperless. HL7 no longer provides printed tutorial materials onsite. All materials will be distributed electronically to tutorial participants to either print out themselves or load to their laptops. It is important that you bring your laptop to this meeting for all tutorials. Free WIFI internet access will also be provided. Please note that the materials may be in a zip format. In the event that a tablet is the only accessible device, students should download the appropriate app prior to the course to insure their tablet can open zip files.

TRACK 1: HL7® FHIR® IN DEPTH

S1

HL7 FHIR Connectathon

Saturday, September 14 / 9:00 am – 10:00 pm

Sunday, September 15 / 9:00 am – 5:00 pm

Registration includes lunch on Saturday and Sunday. Registrants should plan to attend the entire event; no partial registrations will be accepted.

An HL7 Fast Healthcare Interoperability Resources (FHIR®) Connectathon is an opportunity for implementers to participate in developing FHIR solutions and exchange data with other FHIR interfaces. The connectathon is not a formal tutorial. There will be no lectures or presentations. Instead, you'll participate in two days of hands-on, heads down development and testing, working directly with other FHIR developers as well as senior members of the FHIR standards development team. The connectathon is a chance to get your hands dirty and learn by helping evolve the FHIR specification.

Participation in the connectathon will be a part of one of several tracks. Participants will be asked to confirm which track they wish to follow a few days in advance of the connectathon (based on their level of readiness as well as area of interest). Details on the scenarios for both tracks as well as information on pre-connectathon discussion forums can be found on <https://confluence.hl7.org/display/FHIR/Connectathons>.

By registering for the connectathon, participants authorize HL7 International to share contact information (name, email and organization name) with the FHIR Management Group for the purposes of coordinating connectathon activity. Registrants will be contacted prior to the event regarding intended scenarios, platforms and other information.

There is a cost difference for participants versus observers. The reason for this is two-fold. First, attendees are likely to receive more benefit by participating in FHIR development than by merely watching. Second, HL7 offers a discount to participants due to the beneficial impact of their work on the development of the FHIR specification.

NOTE: If registering as a participant, you will be expected to write at least some software intended to demonstrate FHIR connectivity.

WD1

HL7 FHIR Experience

Wednesday, September 18 / 9:00 am – 5:00 pm

This is a hands-on FHIR training program. Practical exercises will be used to discuss FHIR theory. The following topics will be covered in this program:

Base standards (including practical exercises):

- FHIR Resources
- RESTful API – RESTful FHIR
- Searching with FHIR
- FHIR Beyond REST – Paradigms of exchange: FHIR transactions, operations, messages, documents, services, batch, bulk transfer and storage
- FHIR Conformance and Terminology – FHIR conformance, constraints, extensions, implementation guides and terminology

This Tutorial Will Benefit:

- Anyone interested in connecting their system/app to HL7 FHIR

Upon Completion of This Tutorial, Students Will Be Able To:

- Explain HL7 FHIR fundamental concepts
- Implement API calls using Postman
- Construct simple JavaScript applets that securely query clinical data using FHIR

Faculty:

Simone Heckmann: Dipl. Inform. Med.; Chair, Technical Committee on FHIR, HL7 Germany; Board Member, HL7 Germany; CTO, Gefyra GmbH; CEO, Health-Comm GmbH

Stefan Lang: Member, Technical Committee on FHIR, HL7 Germany; Senior Consultant, Gefyra GmbH; Senior Consultant, Lang Health IT Consulting

Rik Smithies: Technical Chair, HL7 UK; Independent Consultant, NProgram Ltd.



Tutorials at HL7 working group meetings are an additional fee to the daily meeting registration fees. Please note that tutorials listed as free still require payment of the daily meeting fee.

To register for tutorials, please select each tutorial you would like to take on page 23 of the registration form.

M1

HL7 FHIR Using SMART & CDS Hooks

Monday, September 16 / 1:45 pm – 5:00 pm

This tutorial will demonstrate how HL7 FHIR can enable EHR systems to incorporate apps, decision support and other external content to provide more configurable solutions that can be customized to support clinician needs.

This Tutorial Will Benefit:

- Decision-makers and software engineers

Upon Completion of this Tutorial, Students Will Be Able To:

- Explain what SMART and CDS Hooks are and how they can be used within EHR systems
- Describe the business model for SMART and CDS integration
- Understand the security and privacy models for each
- Identify how SMART is currently being used by the community

Prerequisites

- Attendees should understand what FHIR is and how it can be used to address the problem of interoperability in healthcare

Faculty:

Bryn Rhodes: Editor, Clinical Reasoning Module in FHIR; Co-Chair, HL7 Clinical Decision Support Work Group; Member, CDS Hooks PMC; Principal, Dynamic Content Group

T4

Designing and Architecting HL7 FHIR Solutions

Tuesday, September 17 / 9:00 am – 12:30 pm

HL7 FHIR is attracting a great deal of attention as the next great thing in healthcare interoperability. This tutorial will help participants understand where and how FHIR might fit into their healthcare interoperability environment and provide them with the tools they need to make judgments about when or if FHIR might be an appropriate solution for their healthcare IT needs.

This Tutorial Will Benefit:

- Architects, technical managers and other healthcare IT decision-makers involved in solution design

Upon Completion of this Tutorial, Students Will be Able To:

- Explain how FHIR may be used in different interoperability paradigms
- Describe how FHIR can fit in different locations in the

architectural stack

- Identify architectural considerations that apply to FHIR and determine how best to address those in their own FHIR solutions
- Explain where and how profiles fit into an architectural solution
- Give guidance on if, when and how FHIR might be used within their own organization

Prerequisites:

- Introduction to FHIR or basic familiarity with the FHIR standard and concepts
- Some knowledge of healthcare IT architecture could also be useful

Faculty:

Lloyd McKenzie, Peng, FHL7: Co-Editor, HL7 FHIR; Co-Chair, HL7 FHIR Infrastructure Work Group; Member, HL7 FHIR Management Group; Co-Chair, HL7 Modeling and Methodology Work Group; Modeling and Methodology Facilitator-at-Large; HL7 Fellow; Senior Consultant, Information Technology Services, Gevity Consulting Inc.

T5

The Da Vinci Project: Deep Dive

Tuesday, September 17 / 9:00 am – 12:30 pm

The healthcare ecosystem is transitioning from a fee-for-service model to a value-based care model. To support this transition, the Da Vinci Project was formed to identify and address the interoperability needs of providers, payers and patients using HL7 FHIR. Participants will gain understanding of the Da Vinci use case development process, implementation guides and reference implementations.

This Tutorial Will Benefit:

- Subject matter experts, developers and vendors who support payers and providers

Upon Completion of This Tutorial, Students Will Be Able To:

- Understand the Da Vinci use case identification and development process
- Understand use cases that are planned, in-flight and completed
- Apply the use case implementation guides to their own organizations
- Understand the role of reference implementations for the use cases

Faculty:

Viet Nguyen, MD: Technical Director, The Da Vinci Project; Clinical Informaticist, Stratametrics LLC

T7

Mapping V2 and CDA to FHIR

Tuesday, September 17 / 1:45 pm – 5:00 pm

This tutorial provides an overview of the relevant FHIR features which can help with a successful integration into Version 2 (V2) and Clinical Document Architecture (CDA®) environments.

This Tutorial Will Benefit:

- Implementers, integration specialists and consultants working on solutions that need to support HL7 V2, HL7 CDA and FHIR

Upon Completion of This Tutorial, Students Will Be Able To:

- Understand advanced aspects of the FHIR specification relevant to the issue of integrating an event-driven, message-based standard with a query-driven, REST-based approach
- Work with the architecture of a FHIR bundle that supports the communication of V2 and CDA messages to FHIR endpoints

Faculty:

Jean Duteau: Co-Chair, HL7 Modeling and Methodology Work Group; Co-Chair, HL7 Pharmacy Work Group; International Representative, HL7 Technical Steering Committee; Member, HL7 Education Advisory Council; Consultant, Duteau Design Inc.

T8

HL7 FHIR Profiling

Tuesday, September 17 / 1:45 pm – 5:00 pm

HL7 FHIR provides a set of building blocks from which interoperability solutions can be created. Profiles combine those blocks into solutions, serving a similar purpose to implementation guides, templates, archetypes and detailed clinical models associated with other HL7 standards.

This tutorial will demonstrate how to use profiles to shape the FHIR core specification for use in a specific national, regional or organizational context.

This Tutorial Will Benefit:

- Data modelers, standards developers and HL7 Version 3 template authors who want to start using FHIR

Upon Completion of This Tutorial, Students Will Be Able To:

- Explain what the FHIR conformance layer is and how it is used to profile FHIR for a specific context or use case
- Describe the principal profiling components of the FHIR conformance layer
- Describe the available FHIR conformance resources (structure definition, operation definition, search

parameter, value set, concept map)

- Identify how domain information requirements translate to conformance resources
- Explain how conformance resources are used to compose an implementation guide
- Write a FHIR value set and structure definition for a single resource
- Explain where and how to register and find existing conformance resources

Prerequisites:

- Introduction to HL7 FHIR

Faculty:

Michel Rutten: Technical Specialist, Firely; Lead Developer, Forge FHIR Profile Editor

W10

HAPI on FHIR

Wednesday, September 18 / 9:00 am – 12:30 pm

This tutorial will cover HAPI FHIR (<http://hapifhir.io/>), the reference implementation of HL7 FHIR for Java developers. Topics will include working with the FHIR data model, client and server development, validation and other related topics.

This tutorial includes instruction as well as a hands-on component where participants will create a working application on their own laptop.

This Tutorial Will Benefit:

- Java developers looking to get started or improve their skills developing FHIR based solutions

Upon Completion of This Tutorial, Students Will:

- Know the various components of the HAPI FHIR library and explain their uses within an application
- Use the HAPI FHIR library to create a working client application and a working server application on their own laptop

Prerequisites:

- A working knowledge of Java is recommended, but advanced knowledge is not required. Participants are recommended to bring a laptop with a Java IDE installed (Eclipse, IntelliJ, or NetBeans recommended)

Faculty:

James Agnew: Project Lead, HAPI; Chief Technology Officer, Smile CDR; Standards Advisor, Center for Global eHealth Innovation

W11

C-CDA on FHIR

Wednesday, September 18 / 9:00 am – 12:30 pm

C-CDA on FHIR is an HL7 implementation guide that expresses the core Consolidated CDA (C-CDA) use case using FHIR resources. This tutorial will provide an overview of FHIR documents, the C-CDA on FHIR profiles, and discuss migration strategies when moving from the Clinical Document Architecture (CDA®) to FHIR and vice versa.

This Tutorial Will Benefit:

- CDA implementers wishing to move to FHIR and FHIR implementers wishing to learn about FHIR documents

Upon Completion of This Tutorial, Students Will Be Able To:

- Explain the structure of FHIR documents
- Find and explain the C-CDA on FHIR profiles
- Strategize ways to move content between CDA and FHIR formats

Prerequisites:

- Introduction to HL7 FHIR or equivalent experience (i.e. Connectathon participation, etc.).
- A basic knowledge of CDA

Faculty:

Rick Geimer: Co-Chair, HL7 FHIR Infrastructure Work Group; Member, HL7 Structured Documents Work Group; Chief Innovation Officer, Lantana Consulting Group

W12

Understanding and Using Terminology in HL7 FHIR

Wednesday, September 18 / 1:45 pm – 5:00 pm

Terminology is a required foundational component for interoperable data exchange in HL7 FHIR and other clinical data standards. This tutorial takes an in-depth look at the use of standard terminologies within FHIR artifacts (data types, resources, profiles, etc.). The structures and use of the primary FHIR terminology resources, operations and coded data types are covered, including how these terminology artifacts and capabilities are used in support of coded elements in other FHIR resources and profiles. The tutorial will also discuss how terminology content and capabilities are made accessible and usable within a FHIR terminology service. Live examples from FHIR terminology servers will be used where possible to examine and illustrate the concepts.

This Tutorial Will Benefit:

- Standards developers, implementers, terminologists, data modelers and architects

Upon Completion of This Tutorial, Students Will Be Able To:

- Describe how code systems, value sets and related vocabulary artifacts and principles are applied within the FHIR terminology resources and data types
- Explain how the FHIR terminology resources and data types support the needs for coded data in other FHIR resources and profiles
- Use the primary FHIR terminology resources, data types and operations for creating specifications and implementing solutions that interoperably represent and exchange coded data
- Describe the typical capabilities and usage scenarios of a FHIR terminology service

Prerequisites:

- Introduction to HL7 FHIR (or equivalent familiarity with the FHIR standard and concepts)
- Introduction to Vocabulary in HL7
- Basic familiarity with one or more standard healthcare terminologies or classifications (e.g., SNOMED CT, LOINC, ICD-10) and terminology artifacts (e.g., code system, value set, mapping)
- FHIR for Specifiers (optional, but may be helpful)

Faculty:

Reuben Daniels: Co-Chair, HL7 Vocabulary Work Group; Member, SNOMED-on-FHIR Work Group; Principal Consultant, Saludax

Rob Hausam, MD, FHL7: Co-Chair, HL7 Orders and Observations Work Group; Co-Chair, HL7 Vocabulary Work Group; Vocabulary Facilitator, HL7 Orders and Observations Work Group; Principal, Hausam Consulting LLC

W13

Public Health on FHIR

Wednesday, September 18 / 1:45 pm – 5:00 pm

The adoption and implementation of HL7 FHIR in clinical settings is progressing. FHIR is being applied to several different workflows, allowing FHIR enabled systems to smoothly exchange health data with each other. The HL7 Public Health Work Group's FHIR projects are leveraging FHIR resources and mechanisms to improve clinical and public health interactions.

This tutorial will provide an overview of the current and potential application of FHIR within the public health domain.

This Tutorial Will Benefit:

- Public health, clinicians, IT implementers and standards developers

Upon Completion of This Tutorial, Students Will Be Able To:

- Describe public health reporting workflows
- Explain how FHIR is addressing public health use cases
- Identify potential future FHIR public health use cases

Prerequisites:

- Basic understanding of HL7 FHIR

Faculty:

Erin Holt: Co-Chair, HL7 Public Health Work Group; Epidemiologist, Tennessee Department of Health

Craig Newman: Co-Chair, HL7 Public Health Work Group; Interoperability Standards Analyst, Altarum

Laura Rappleye: Co-Chair, HL7 Public Health Work Group; Deputy Director, Connected Health, Altarum

TH14

Clinical Quality and Decision Support on FHIR

Thursday, September 19 / 9:00 am – 12:30 pm

Clinical quality improvement is an important aspect of healthcare delivery and relies on the ability to both measure and influence clinical care. This tutorial will look at how the FHIR Clinical Reasoning module can be used to share computable clinical knowledge, and how that knowledge can be incorporated in a continuous quality improvement cycle.

This Tutorial Will Benefit:

- Clinical software system developers, implementers and integrators
- Decision support service providers and consumers
- Quality reporting vendors and consumers

Upon Completion of This Tutorial, Students Will Be Able To:

- Know what FHIR resources and implementation guides are available for clinical quality improvement
- Explain how the FHIR Clinical Reasoning module can be used to share and evaluate computable quality improvement artifacts
- Use available tools and technologies to help implement clinical quality improvement

Prerequisites:

- Familiarity with FHIR and FHIR profiling through implementation guides
- Familiarity with CDS Hooks helpful

Faculty:

Bryn Rhodes: Editor, Clinical Reasoning Module in FHIR; Co-Chair, HL7 Clinical Decision Support Work Group; Member, CDS Hooks PMC; Principal, Dynamic Content Group

TH15

FHIR Security and Privacy

Thursday, September 19 / 9:00 am – 12:30 pm

Cyber criminals want your data.

During this hands-on session, you will be faced with the task of breaking into a demo SMART on FHIR application and “capturing the flag”. You will be provided with a VM loaded with hacking tools to install on your laptop. Cyber security experts will then guide you as you identify and exploit vulnerabilities, looking at many attack vectors and techniques that can be used against unsecure code and networks. You will come away with an understanding of what you can do to secure your own FHIR infrastructure against attacks.

This Tutorial Will Benefit:

- Implementers building and maintaining FHIR systems and infrastructure
- App developers building SMART on FHIR applications
- Standards authors wanting to make the FHIR specifications more secure

Upon Completion of This Tutorial, Students Will Be Able To:

- Explain to their bosses why they should care about security
- Understand many of the ways attackers can compromise a system
- Perform a vulnerability scan
- Exploit vulnerabilities in a FHIR system
- Recognize vulnerabilities in their own systems
- Know how to protect their FHIR infrastructure against attacks
- Know where to find information on vulnerabilities that may affect their systems
- Know where to find information about good coding practices

Prerequisites:

- A laptop with wifi access and virtualization enabled
- Pre-installing VirtualBox will be helpful
- Basic knowledge of networking and encryption
- Basic knowledge of Linux command line tools and configuration
- Basic familiarity with the SMART on FHIR authentication flow
- Experience with Javascript, Python, Ruby, and bash scripting will be helpful but not required

Faculty:

John Moehrke: Co-Chair, HL7 Security Work Group; Member, HL7 FHIR Management Group; Co-Chair, IHE IT Infrastructure Planning Committee; Standards Architect, By Light Professional IT Services Inc.

TRACK 2 – INTRODUCTORY TOPICS

M2 Introduction to HL7 Standards for Interoperability

Monday, September 16 / 1:45 pm – 5:00 pm

This tutorial provides a survey of the healthcare interoperability standards landscape, pointing out the main features of the terrain and how they link together to perform useful functions. It consists of three main sections covering (1) messaging standards such as HL7 Version 2 and Version 3, (2) clinical document standards such as Clinical Document Architecture (CDA®), Continuity of Care Document (CCD®), Continuity of Care Record (CCR) and IHE XDS, and (3) terminology standards, such as SNOMED CT and LOINC. It explains how and why these were developed and their complementary roles, each best suited to specific tasks.

In the time available, the treatment of each standard is necessarily brief, but this tutorial will provide an introduction to other, more detailed, tutorials.

This Tutorial Will Benefit:

- Relative newcomers to healthcare interoperability who are still unsure about how everything fits together

Upon Completion of This Tutorial, Students Will Be Able To:

- Explain how the main healthcare interoperability standards relate to each other and choose which is most suited for specific roles

Faculty:

Gora Datta: Member, Education Advisory Council; Co-Chair, HL7 Mobile Health Work Group; Chairman & CEO, CAL2CAL Corporation

M3

Introduction to HL7 FHIR

Monday, September 16 / 1:45 pm – 5:00 pm

HL7 Fast Healthcare Interoperability Resources (FHIR®) is the newest healthcare interoperability standard offered by HL7, providing domain friendly wire formats compatible across the document, messaging, services and RESTful paradigms. This tutorial is for those who want to learn more about FHIR, what it can do and how their organization might best take advantage of it.

This Tutorial Will Benefit:

- Anyone involved in the designing, developing, implementing, and supporting the use of HL7 FHIR

Upon Completion of This Tutorial, Students Will Be Able To:

- Explain the main principles underlying the FHIR methodology
- Describe the characteristics of a FHIR resource and understand the contents of a resource definition
- Explain the relationship between FHIR and other HL7 standards such as Version 2, Version 3 messaging and CDA
- List some of the key FHIR infrastructure resources and explain how they are used to support the four FHIR interoperability paradigms
- Help their organization to determine if, when, where and how they might implement FHIR

Faculty:

John Hatem, MSN, MBA, FHL7: Co-Chair, HL7 Pharmacy Work Group; Adjunct Faculty, University of Colorado, College of Nursing; Independent Consultant

T6

Introduction to HL7 FHIR for Software Developers

Tuesday, September 17 / 9:00 am – 12:30 pm

This tutorial takes an in-depth look into the infrastructure sections of the HL7 FHIR specification. It will provide insight on how to design, develop and test software that uses the HL7 FHIR interoperability standard—all the way from the wire-format up to validation and storage.

This Tutorial Will Benefit:

- Software developers, team leads and infrastructure architects

Upon Completion of This Tutorial, Students Will Be Able To:

- List the four interoperability paradigms supported by HL7 FHIR
- Describe the FHIR REST service operations and how to implement them
- Explain how the XML and JSON wire formats are used in HL7 FHIR

- Explain versioning and bundles
- Compare strategies for using object models, validation and (de)serialization
- Use relational or document-oriented storage for persistence of resources
- Implement search functionality

Prerequisites:

- An Introduction to HL7 FHIR

Faculty:

Richard Ettema: Member, HL7 FHIR Infrastructure Work Group; Member, HL7 Conformance Work Group; Lead Consultant, Touchstone and Senior Architect and Author, WildFHIR Test Server, AEGIS.net, Inc.

T9

The Ins and Outs of the FHIR Medical Record

Tuesday, September 17 / 1:45 pm – 5:00 pm

This tutorial will present a variety of Lister Hill National Center for Biomedical Communications (LHC) / National Library of Medicine (NLM), open source, web-based JavaScript tools for inputting clinical data to, and outputting such data from, any FHIR server.

This Tutorial Will Benefit:

- Clinicians, software developers, healthcare organizations managers/leaders interested in the use of FHIR to manage clinical data

Upon Completion of This Tutorial, Students Will Be Able To:

- Understand the capabilities and how to use a variety of LHC tools for manipulating clinical data including:
 - Overview and relationship among FHIR data capture tools and SMART on FHIR
 - LHC-Forms for rendering FHIR questionnaire and Structured Data Capture (SDC) into executable web-based forms
 - LOINC panels > forms
 - Autocomplete access to external code systems as answers in forms
 - FHIRPath for calculations in forms
 - LHC Form Builder to create FHIR Questionnaire and SDC forms
 - Clinical Table Search Service for autocomplete access to clinical coding systems from forms
 - Experience with loading large files—the grist for flowsheets—into HAPI FHIR server

- LHC Flowsheet on FHIR for displaying FHIR medical record content with the following: spark line graphs, collapsible rows, and columns, and retention of user focus with un-collapse, unit conversion; accommodates tens of thousands of observations.
- Control table for LHC Flowsheet
- Unified Code for Units of Measure (UCUM) units of measure converter for LHC Flowsheet

Prerequisites:

- Some familiarity with medical records and their content; e.g. observations, coding system orders, etc. Awareness of FHIR and its growing importance as eco-system for implementing health informatics functions

Faculty:

Clem McDonald, MD, FHL7: Chief Health Data Standards Officer, National Library of Medicine

TRACK 3— HL7 PROCESS AND GENERAL INTEREST TOPICS

F1

Orientation for First-Time Attendees – FREE TUTORIAL

Monday, September 16 / 7:00 am – 8:00 am

This is a special orientation session for first-time attendees. It will give those new to HL7 the lay of the land and help ensure they get the very most out of their first working group meeting experience. The session will consist of a quick meeting overview and a question and answer session that will help attendees make informed choices and maximize their time at the meeting.

Faculty:

Erin Holt: Co-Chair, HL7 Public Health Work Group; Epidemiologist, Tennessee Department of Health

Line Saele: Chair, HL7 Norway; Affiliate Director, HL7 International Board of Directors; Co-Chair, International Council; Chair, HL7 Affiliate Due Diligence Committee; Co-Chair, HL7 Patient Administration Work Group

F2

ISO IDMP, Substances and Allergies – FREE TUTORIAL

Monday, September 16 / 7:00 am – 8:00 am

The ISO IDMP (Identification of Medicinal Product) standards have been revised, completed, and are now entering in their implementation phases (especially in Europe and in synchronization with the US).

IDMP includes a strong focus on substances of all kinds. Substances and their unique identification are essential to IDMP. Substances are captured with a wide number of attributes, including allergies.

Some HL7 work groups have allergies on their agenda, and this tutorial is built to demonstrate with the publicly accessible G-SRS database what Patient Care was addressing at its Madrid meeting.

This Tutorial Will Benefit:

- HL7 experts who are interested in learning about IDMP and have a focus on substances. HL7 experts interested in secondary use of IDMP data

Upon Completion of This Tutorial, Student Will Have Obtained:

- An understanding on ISO IDMP standards and how medicinal product information is structured for regulatory and clinical benefits
- How to access the information and how to leverage this wealth of knowledge for secondary use

Faculty:

Christian Hay: GS1 Switzerland; Delegate Healthcare, Convenor, ISO TC 215 WG 6

F3

Understanding the HL7 International Organization – From Process to Governance – FREE TUTORIAL

Tuesday, September 17 / 7:00 am – 8:00 am

This session will provide an overview of HL7 International from the governance structure to the work groups.

This Tutorial Will Benefit:

- First-time attendees and anyone interested in learning more about the processes and organization of HL7 International

Upon Completion of This Tutorial, Students Will Be Able To:

- Explain how HL7 International is structured
- List the types of products that HL7 International produces
- Discuss the subject domains that HL7 standards cover
- Describe the working group meeting format
- Explain how HL7 International ballots

Faculty:

Erin Holt: Co-Chair, HL7 Public Health Work Group; Epidemiologist, Tennessee Department of Health

Line Saele: Chair, HL7 Norway; Affiliate Director, HL7 International Board of Directors; Co-Chair, International Council; Chair, HL7 Affiliate Due Diligence Committee; Co-Chair, HL7 Patient Administration Work Group

F4

How to Get HL7 Certified – FREE TUTORIAL

Tuesday, September 17 / 7:00 am – 8:00 am

HL7 offers certification and proficiency testing to assess the knowledge and proficiency of its most frequently used health information technology (HIT) standards: HL7 Version 2, HL7 Version 3, HL7 CDA and HL7 FHIR.

HL7 certification helps professionals achieve industry-recognized levels of proficiency and expertise. Increase your career opportunities and stand out from the crowd by becoming HL7-certified.

As an employer, you need a quality team dedicated to solving today's interoperability challenges. Hiring an HL7-certified professional gives you confidence in the individual's specialized knowledge and skills. These experts demonstrate a commitment to excellence required to address the rapidly evolving field of healthcare.

This tutorial will explain how to get you or your employee certified.

Faculty:

Dr. Sadhana Alangar: Director of Education, HL7 International

Virginia Lorenzi, FHL7: Chair, HL7 Education Advisory Council; HL7 Volunteer of the Year Award Recipient; Manager, HIT Standards and Collaborations, New York Presbyterian Hospital

F5

GS1 Standards for Supply Chain Meets HL7 – FREE TUTORIAL

Wednesday, September 18 / 7:00 am – 8:00 am

This session will offer insight on what GS1 provides in the open supply chain to secure item traceability, and how traceability should be extended in provider's internal supply chain. The tutorial will be based on a document which provides extensive information about traceability, by including "order to cash," master database (shared catalogues), stock management, including for consignment products, etc.

The session will strongly focus on EPC IS (electronic product code information service), which is one of the GS1 standards and how it enables event tracking. It will also include a brief introduction to the UNSPSC (United Nations Standard Products and Services Code), a classification system increasingly used in the healthcare industry.

Documentation

- The reference documentation should be downloaded prior the tutorial from: http://www.gs1.ch/docs/default-source/gsl-system-document/healthcare/scm_in_ch_gesundheitswesen_1-3_en.pdf?sfvrsn=4
- It is also useful to have consulted the following documentation:
 - Information about EPC IS: www.gs1.org/epcis
 - Information about UNSPSC: www.unspsc.org

This Tutorial Will Benefit:

- HL7 experts who are interested in learning about GS1 and its use in the healthcare industry. Key words: UDI, falsified medicines, event management; subject of care identification, location identification, item identification
- HL7 experts from most of the work groups where physical identification plays a role – such as Patient Administration, Patient Care, Health Care Devices, Pharmacy and many others

Faculty:

Christian Hay: GS1 Switzerland; Delegate Healthcare, Convenor, ISO TC 215 WG 6

F6

Newly Elected Co-Chair Training – FREE TUTORIAL

Thursday, September 19 / 7:00 am – 8:00 am

This session is intended for newly elected work group co-chairs. The purpose of the session is to introduce the co-chair responsibilities, review work group and balloting procedures, share tips on managing a work group, provide a framework for common operation among all work groups, and general Q&A session.

Faculty:

Karen Van Hentenryck: Associate Executive Director, HL7 International

HL7 Certification & Proficiency Exams

Demonstrate industry-recognized levels of proficiency and expertise!



Why Get HL7 Certified?

- Stand out as a standards expert and leader in the health IT community
- Achieve recognition of your expertise and specialized skills
- Increase career opportunities and set yourself apart from the crowd
- Convey a commitment to advancing health data interoperability

Learn more and get started!

www.HL7.org/certification

Topic	Class ID	Instructor	SAT	SUN	MON AM	MON PM	TUE AM	TUE PM	WED AM	WED PM	THU AM	THU PM
Track 1: HL7® FHIR® in Depth												
HL7 FHIR Connectathon	S1	Grieve Kramer McKenzie	★	★								
HL7 FHIR Experience	WD1	Heckmann Lang Smithies							★	★		
HL7 FHIR Using SMART & CDS Hooks	M1	Rhodes				★						
Designing and Architecting HL7 FHIR Solutions	T4	McKenzie					★					
The Da Vinci Project: Deep Dive	T5	Nguyen					★					
Mapping V2 & CDA to FHIR	T7	Duteau						★				
HL7 FHIR Profiling	T8	Rutten						★				
HAPI on FHIR	W10	Agnew							★			
C-CDA on FHIR	W11	Geimer							★			
Understanding and Using Terminology in HL7 FHIR	W12	Daniels Hausam								★		
Public Health on FHIR	W13	Holt Newman Rappleye								★		
Clinical Quality and Decision Support on FHIR	TH14	Rhodes									★	
FHIR Security and Privacy	TH15	Moehrke									★	
Track 2: Introductory Topics												
Introduction to HL7 Standards for Interoperability	M2	Datta				★						
Introduction to HL7 FHIR	M3	Hatem				★						
Introduction to HL7 FHIR for Software Developers	T6	Ettema					★					
The Ins and Outs of the FHIR Medical Record	T9	McDonald						★				
Track 3: HL7 Process and General Interest Topics—FREE TUTORIALS												
Orientation for First-Time Attendees	F1	Holt Saele			7-8							
ISO IDMP, Substances and Allergies	F2	Hay			7-8							
Understanding the HL7 International Organization – From Process to Governance	F3	Holt Saele					7-8					
How to Get HL7 Certified	F4	Alangar Lorenzi					7-8					
GS1 Standards for Supply Chain Meets HL7	F5	Hay							7-8			
Newly Elected Co-Chair Training	F6	Van Hentenryck									7-8	

	Sunday		Monday		Tuesday		Wednesday		Thursday		Friday	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Affiliate Due Diligence Committee	Q2											
Anesthesia	Will not meet in September											
Architectural Review Board	Q2			Q4						Q3		
Arden Syntax				★	Q1							
Attachments				★	★	★	★	★	★	★		
Biomedical Research & Regulation	Q1			★	★	★	★	★	★	★		
Birds of a Feather						5:15-6:15						
Board of Directors' Meeting					★	Lunch & ★						
Clinical Decision Support				★	★	★	★	Q3				
CDA Management Group				Q4								
Clinical Genomics				★	★	★	★	★				
Clinical Information Modeling Initiative	★	★		★	★	Lunch & ★	★	Q3		Q4		
Clinical Interoperability Council				★	★	Q4	Q2	Q4		Q4		
Clinical Quality Information				Q4	★	★	★	★	Q1	Q4		
Clinicians on FHIR								Lunch			★	Q3
Co-Chair Information				5:15-7:00					7:00-8:00			
Community-Based Care and Privacy				★		★	★	★	★			
Conformance				★	Q2	★	Q2	Q3	★			
Education				Lunch & ★					★			
Electronic Health Records				★	★	★	★	★	★	Q3		
Electronic Services and Tools		5:00-6:00			7:00-8:00 & Q1		Q1	Lunch & Q3	★			
Emergency Care				★	Q2	Q4		Q4		Q3		
Facilitators' Roundtable Meeting										5:30-6:30		
FHIR Connectathon (Note: There is also a meeting scheduled for Saturday, 9/14/2019, 9:00 am-10:00 pm)	★	★										
FHIR Infrastructure				★ & 7:00-10:00	★	Lunch & ★	★	★	★	Q3 & 5:30-6:30		
FHIR Management Group		Lunch		Lunch						Q4		
Financial Management				★		★	★	★	★	★		
Governance and Operations Committee								Lunch				
HL7 Terminology Authority	★					Q3						
Health Care Devices				★	★	Q3	★	★	★	★	★	Q3
Imaging Integration				★	★	★	★	★	★			
Implementable Technology Specifications					★	★						
Infrastructure & Messaging				Q4	★	★			Q1			
International Council		Lunch & ★							Q2	★		
Learning Health Systems				Q3	Q1			Q3	Q1	Q4		
Mobile Health					Q1	5:15-6:15	★	★	★		★	

Q1 = 9:00 – 10:30 am; **Q2** = 11:00 – 12:30 pm; **Q3** = 1:45 – 3:00 pm; **Q4** = 3:30 – 5:00 pm; ★ AM = 9:00 am – 12:30 pm; ★ PM = 1:45 – 5:00 pm

DISCLAIMER: Meeting times are subject to change.

	Sunday		Monday		Tuesday		Wednesday		Thursday		Friday	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Modeling & Methodology				Q4			★	Q3		5:30-6:30		
Networking Reception								5:15-6:45				
Nurses Breakfast/Meeting					7:00-8:00							
Orders & Observations				★	★	★	7:00-8:00 & ★	★	7:00-8:00 & ★	★	Q1	
Patient Administration				★	★	★	★	★	★	★		
Patient Care				★	★	★	★	Lunch & ★	★	Lunch & Q3		
Pharmacy				★	★	★	★	★	★	★		
Physicians Breakfast/Meeting							7:00-8:00					
Policy Advisory Committee	★			★		★	★					
Process Improvement Committee								Q3				
Product Line Architecture Program											8:00-9:00	
Product Management Council							7:00-8:00					
Project Services										Q3		
Public Health				★	★	★	★	★	★	Q3		
Publishing	Will not meet in September											
Security				★	★	★	★	★	★			
Services Oriented Architecture				★	★	★	★	★				
Standards Governance Board	Q2										★	
Steering Divisions: Administrative Clinical Infrastructure Organizational Support				7:00-8:30								
Structured Documents				★	★	★	★	★	★	★		
Technical Steering Committee (Note: There is also a meeting scheduled for Saturday, 9/14, 9:00-5:00 pm)		5:15-6:15		5:15-6:15				Lunch				
US Realm Steering Committee				Q3								
V2 Management Group					7:00-8:00 & Q1		Q1				Q2	
Vocabulary		Q4		★	★	★	★	★	★	★ & 5:30-6:30		

Q1 = 9:00 – 10:30 am; Q2 = 11:00 – 12:30 pm; Q3 = 1:45 – 3:00 pm; Q4 = 3:30 – 5:00 pm; ★ AM = 9:00 am – 12:30 pm; ★ PM = 1:45 – 5:00 pm

DISCLAIMER: Meeting times are subject to change.

HL7 Working Group Meetings

REGISTRATION HOURS

Saturday – Sunday	8:00 – 5:00 pm	Registration
Monday – Tuesday	7:00 – 5:00 pm	Registration
Wednesday – Thursday	7:30 – 5:00 pm	Registration
Friday	8:00 – 1:00 pm	Staff on Hand for Assistance

MEALS AND BREAKS

Saturday – Friday	8:00 – 9:00 am	Light Continental Breakfast
Saturday – Friday	10:30 – 11:00 am	Morning Break
Saturday – Friday	12:30 – 1:30 pm	Lunch
Saturday – Thursday	3:00 – 3:30 pm	Afternoon Break

GENERAL SESSION ROOM

Please plan to attend the Monday through Thursday morning General Sessions for daily highlights, meeting announcements and changes.

Monday	8:30 – 12:35 pm	Plenary Meeting
Tuesday	8:00 – 8:45 am	HL7 CEO,CTO, TSC and International Council Reports, Announcements
Wednesday	8:00 – 8:45 am	Annual Business Meeting, HL7 Board Report, Awards Presentations, Announcements
Thursday	8:00 – 8:45 am	Announcements
Friday	NO GENERAL SESSION	

Meeting times and locations are subject to change.

Note: In compliance with our status as an ANSI-accredited standards developing organizations, those HL7 meetings related to the development of standards are open.

Meetings

AFFILIATE DUE DILIGENCE (ADDC)

Sunday	11:00 – 12:30 pm	MEETING
--------	------------------	---------

ANESTHESIA (GAS)

Will not be meeting in September

ARCHITECTURAL REVIEW BOARD (ARB)

Sunday	11:00 – 12:30 pm	Hosting: SGB
Monday	3:30 – 5:00 pm	MEETING
Thursday	1:45 – 3:00 pm	MEETING

ARDEN SYNTAX (AS)

Monday	1:45 – 5:00 pm	MEETING
Tuesday	9:00 – 10:30 am	Joint w/ CDS

ATTACHMENTS

Monday	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Hosting: FM
Tuesday	9:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Hosting: FM
	3:30 – 5:00 pm	Joint w/ EHR, CIMI
Wednesday	9:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Hosting: FM
	3:30 – 5:00 pm	MEETING
Thursday	9:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Hosting: FM
	3:30 – 5:00 pm	MEETING

BIOMEDICAL RESEARCH AND REGULATION (BR&R)

Sunday	9:00 – 10:30 am	MEETING
Monday	1:45 – 3:00 pm	Joint w/ EHR, EC, LHS
	3:30 – 5:00 pm	Joint w/ Pharm
Tuesday	9:00 – 10:30 am	Hosting: CIC
	11:00 – 5:00 pm	MEETING
Wednesday	9:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Joint w/ CDS, CQI, Pharm
	3:30 – 5:00 pm	Joint w/ PC
Thursday	9:00 – 10:30 am	Hosting: FHIR-I
	11:00 – 5:00 pm	MEETING

BIRDS OF A FEATHER

Tuesday	5:15 – 6:15 pm	Da Vinci Project
	5:15 – 6:15 pm	Blockchain

BOARD OF DIRECTORS' MEETING

Tuesday	9:00 – 12:30 pm	MEETING
	12:30 – 1:30 pm	Luncheon Meeting
	1:45 – 5:00 pm	MEETING

CLINICAL DECISION SUPPORT (CDS)

Monday	1:45 – 3:00 pm	Joint w/ O&O, CIMI
	3:30 – 5:00 pm	Joint w/ FHIR-I, II, InM, MnM O&O
Tuesday	9:00 – 10:30 am	Hosting: AS
	11:00 – 12:30 pm	Joint w/ CQI, FHIR-I
	1:45 – 3:00 pm	Hosting: CQI, FHIR-I
	3:30 – 5:00 pm	MEETING
Wednesday	9:00 – 10:30 am	Hosting: CIMI, CQI
	11:00 – 12:30 pm	Joint w/ CQI
	1:45 – 3:00 pm	Hosting: BR&R, CQI, Pharm

CDA MANAGEMENT GROUP

Monday	3:30 – 5:00 pm	MEETING
--------	----------------	---------

CLINICAL GENOMICS (CLIN GEN)

Monday	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Hosting: FHIR-I
Tuesday – Wednesday	9:00 – 5:00 pm	MEETING

CLINICAL INFORMATION MODELING INITIATIVE (CIMI)

Sunday	9:00 – 5:00 pm	MEETING
Monday	1:45 – 3:00 pm	Joint w/ O&O, CDS
	3:30 – 5:00 pm	Joint w/ Voc
Tuesday	9:00 – 10:30 am	Joint w/ PC, LHS
	11:00 – 12:30 pm	MEETING
	12:30 – 1:30 pm	Luncheon Meeting Hosting: FHIR-I
	1:45 – 3:00 pm	Joint w/ O&O
	3:30 – 5:00 pm	Joint w/ EHR, Attachments
Wednesday	9:00 – 10:30 am	Joint w/ CDS, CQI
	11:00 – 12:30 pm	Joint w/ CIC
	1:45 – 3:00 pm	MEETING
Thursday	3:30 – 5:00 pm	Joint w/ LHS, CIC, CQI

CLINICAL INTEROPERABILITY COUNCIL (CIC)

Monday	1:45 – 3:00 pm	Hosting: II
	3:30 – 5:00 pm	MEETING
Tuesday	9:00 – 10:30 am	Joint w/ BR&R
	11:00 – 12:30 pm	Joint w/ EHR
	3:30 – 5:00 pm	MEETING

Wednesday	11:00 – 12:30 pm	Hosting: CIMI
	3:30 – 5:00 pm	MEETING
Thursday	9:00 – 10:30 am	Joint w/ PC, LHS
	3:30 – 5:00 pm	Joint w/ LHS, CIMI, CQI

CLINICAL QUALITY INFORMATION (CQI)

Monday	3:30 – 5:00 pm	MEETING
Tuesday	9:00 – 10:30 am	MEETING
	11:00 – 12:30 pm	Hosting: CDS, FHIR-I
	1:45 – 3:00 pm	Joint w/ CDS, FHIR-I
	3:30 – 5:00 pm	Joint w/ PC, Voc
Wednesday	9:00 – 10:30 am	Joint w/ CDS, CIMI
	11:00 – 12:30 pm	Hosting: CDS
	1:45 – 3:00 pm	Joint w/ CDS, BR&R, Pharm
	3:30 – 5:00 pm	MEETING
Thursday	3:30 – 5:00 pm	Joint w/ LHS, CIMI, CIC

CLINICIANS ON FHIR

Wednesday	12:30 – 1:30 pm	Luncheon Meeting
Friday	9:00 – 3:30 pm	MEETING

CO-CHAIR INFORMATION

Monday	5:15 – 7:00 pm	Co-Chairs Dinner/ Meeting
Thursday	7:00 – 8:00 am	Newly Elected Co-Chair Training

COMMUNITY-BASED CARE AND PRIVACY (CBCP)

Monday	1:45 – 5:00 pm	Hosting: Security
Tuesday	1:45 – 3:00 pm	Hosting: Security
	3:30 – 5:00 pm	MEETING
Wednesday	9:00 – 10:30 am	Joint w/ EHR, FHIR-I, Security
	11:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Joint w/ Sec, FHIR-I
	3:30 – 5:00 pm	MEETING
Thursday	9:00 – 10:30 am	Joint w/ Sec, FHIR-I
	11:00 – 12:30 pm	MEETING

CONFORMANCE (CGIT)

Monday	1:45 – 5:00 pm	MEETING
Tuesday	11:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Hosting: InM
	3:30 – 5:00 pm	MEETING
Wednesday	11:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Hosting: FHIR-I
Thursday	9:00 – 10:30 am	Joint w/ Voc, InM
	11:00 – 12:30 pm	Joint w/ Voc

EDUCATION

Monday	12:30 – 1:30 pm	Luncheon Meeting
	1:45 – 5:00 pm	MEETING
Thursday	9:00 – 12:30 pm	MEETING

ELECTRONIC HEALTH RECORDS (EHR)

Monday	1:45 – 3:00 pm	Hosting: BR&R, EC, LHS
	3:30 – 5:00 pm	MEETING
Tuesday	9:00 – 10:30 am	Hosting: MH
	11:00 – 12:30 pm	Hosting: CIC
	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Hosting: Attachments, CIMI
Wednesday	9:00 – 10:30 am	Hosting: CBCP, FHIR-I, Security
	11:00 – 5:00 pm	MEETING
Thursday	9:00 – 3:00 pm	MEETING

ELECTRONIC SERVICES AND TOOLS (EST)

Sunday	5:00 – 6:00 pm	MEETING
Tuesday	7:00 – 8:00 am	MEETING
	9:00 – 10:30 am	MEETING
Wednesday	9:00 – 10:30 am	Hosting: V2 Mgt Group
	12:30 – 1:30 pm	Luncheon Meeting
	1:45 – 3:00 pm	MEETING
Thursday	9:00 – 12:30 pm	MEETING

EMERGENCY CARE (EC)

Monday	1:45 – 3:00 pm	Joint w/ EHR, BR&R, LHS
	3:30 – 5:00 pm	MEETING
Tuesday	11:00 – 12:30 pm	MEETING
	3:30 – 5:00 pm	MEETING
Wednesday	3:30 – 5:00 pm	MEETING
Thursday	1:45 – 3:00 pm	MEETING

FACILITATORS' ROUNDTABLE MEETING

Thursday	5:30 – 6:30 pm	Hosting: FHIR-I, MnM, Voc
----------	----------------	---------------------------

FHIR CONNECTATHON

Saturday	9:00 – 10:00 pm	MEETING
	9:00 – 5:00 pm	FHIR Breakout
	9:00 – 5:00 pm	FHIR Breakout
Sunday	9:00 – 5:00 pm	MEETING
	9:00 – 5:00 pm	FHIR Breakout
	9:00 – 5:00 pm	FHIR Breakout

FHIR INFRASTRUCTURE (FHIR-I)

Monday	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Hosting: CDS, II, InM, MnM, O&O
	3:30 – 5:00 pm	Joint w/ ClinGen
	3:30 – 5:00 pm	Joint w/ PH
	7:00 – 10:00 pm	MEETING
Tuesday	9:00 – 10:30 am	Joint w/ PA
	9:00 – 10:30 am	Joint w/ ITS
	9:00 – 10:30 am	Joint w/ SD
	11:00 – 12:30 pm	Joint w/ InM
	11:00 – 12:30 pm	Joint w/ Pharm
	11:00 – 3:00 pm	Joint w/ CDS, CQI
	12:30 – 1:30 pm	Luncheon Meeting Joint w/ CIMI
	1:45 – 3:00 pm	Joint w/ PC
	1:45 – 5:00 pm	MEETING
Wednesday	9:00 – 10:30 am	Joint w/ EHR, CBCP, Security
	9:00 – 10:30 am	Joint w/ Voc, MnM
	9:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Joint w/ Sec, CBCP
	1:45 – 3:00 pm	Joint w/ CGIT
	1:45 – 3:00 pm	Joint w/ O&O
	1:45 – 3:00 pm	Joint w/ MnM
	3:30 – 5:00 pm	MEETING
	3:30 – 5:00 pm	Joint w/ II
	3:30 – 5:00 pm	Joint w/ FM
Thursday	9:00 – 10:30 am	Joint w/ BR&R
	9:00 – 10:30 am	Joint w/ Dev
	9:00 – 10:30 am	Joint w/ Sec, CBCP
	11:00 – 3:00 pm	MEETING
	5:30 – 6:30 pm	Facilitators' Roundtable Meeting – Joint w/ MnM, Voc

Meetings

FHIR MANAGEMENT GROUP (FMG)

Sunday	12:30 – 1:30 pm	Luncheon Meeting
Monday	12:30 – 1:30 pm	Luncheon Meeting
Thursday	3:30 – 5:00 pm	MEETING

FINANCIAL MANAGEMENT (FM)

Monday	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Joint w/ Attachments
Tuesday	1:45 – 3:00 pm	Joint w/ Attachments
	3:30 – 5:00 pm	MEETING
Wednesday	9:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Joint w/ Attachments
	3:30 – 5:00 pm	Hosting: FHIR-I
Thursday	9:00 – 10:30 am	MEETING
	11:00 – 12:30 pm	Joint w/ PA
	1:45 – 3:00 pm	Joint w/ Attachments
	3:30 – 5:00 pm	MEETING

GOVERNANCE AND OPERATIONS (GOC)

Wednesday	12:30 – 1:30 pm	Luncheon Meeting
-----------	-----------------	------------------

HL7 TERMINOLOGY AUTHORITY (HTA)

Sunday	9:00 – 12:30 pm	MEETING
Tuesday	1:45 – 3:00 pm	Joint w/ Voc

HEALTH CARE DEVICES (DEV)

Monday	1:45 – 5:00 pm	MEETING
Tuesday	9:00 – 3:30 pm	MEETING
Wednesday	9:00 – 3:30 pm	MEETING
	3:30 – 5:00 pm	Hosting: MH
Thursday	9:00 – 10:30 am	Hosting: FHIR-I
	11:00 – 5:00 pm	MEETING
Friday	9:00 – 3:00 pm	MEETING

IMAGING INTEGRATION (II)

Monday	1:45 – 3:00 pm	Joint w/ II
	3:30 – 5:00 pm	Joint w/ FHIR-I, CDS, II, InM, MnM, O&O
Tuesday	9:00 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Joint w/ InM
Wednesday	9:00 – 10:30 am	MEETING
	11:00 – 12:30 pm	Joint w/ O&O
	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Hosting: FHIR-I
Thursday	9:00 – 10:30 am	MEETING
	11:00 – 12:30 pm	Joint w/ O&O

IMPLEMENTABLE TECHNOLOGY SPECIFICATIONS (ITS)

Tuesday	9:00 – 10:30 am	Hosting: FHIR-I
	11:00 – 5:00 pm	MEETING

INFRASTRUCTURE AND MESSAGING (INM)

Monday	3:30 – 5:00 pm	Joint w/ FHIR-I, CDS, II, MnM, O&O
Tuesday	9:00 – 10:30 am	Hosting: V2 Mgt Group
	11:00 – 12:30 pm	Hosting: FHIR-I
	1:45 – 3:00 pm	Joint w/ CGIT
	3:30 – 5:00 pm	Hosting: II
Thursday	9:00 – 10:30 am	Joint w/ Voc, CGIT

INTERNATIONAL COUNCIL MEETING

Sunday	12:30 – 5:00 pm	Luncheon/ Meeting
Thursday	11:00 – 12:30 pm	MEETING
	1:45 – 5:00 pm	MEETING

LEARNING HEALTH SYSTEMS WORK GROUP (LHS)

Monday	1:45 – 3:00 pm	Joint w/ EHR, BR&R, EC
Tuesday	9:00 – 10:30 am	Joint w/ PC, CIMI
Wednesday	1:45 – 3:00 pm	MEETING
Thursday	9:00 – 10:30 am	Joint w/ PC, CIC
	3:30 – 5:00 pm	Hosting: CIMI, CIC, CQI

MOBILE HEALTH (MH)

Tuesday	9:00 – 10:30 am	Joint w/ EHR
	5:15 – 6:15 pm	MEETING
Wednesday	9:00 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Joint w/ Dev
Thursday	9:00 – 12:30 pm	MEETING
Friday	9:00 – 12:30 pm	MEETING

MODELING AND METHODOLOGY (MNM)

Monday	3:30 – 5:00 pm	Joint w/ FHIR-I, CDS, II, InM, O&O
Wednesday	9:00 – 10:30 am	Joint w/ Voc, FHIR-I
	11:00 – 12:30 pm	Joint w/ Voc
	1:45 – 3:00 pm	Hosting: FHIR-I
Thursday	5:30 – 6:30 pm	Facilitators' Roundtable Meeting – Joint w/ FHIR-I, Voc

NETWORKING RECEPTION

Wednesday	5:15 – 6:45 pm	Networking Reception
-----------	----------------	----------------------

NURSES BREAKFAST/MEETING

Tuesday	7:00 – 8:00 am	Breakfast Meeting
---------	----------------	-------------------

ORDERS AND OBSERVATIONS (O&O)

Monday	1:45 – 3:00 pm	Hosting: CDS, CIMI
	3:30 – 5:00 pm	Joint w/ FHIR-I, CDS, II, InM, MnM
Tuesday	9:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Hosting: CIMI
	3:30 – 5:00 pm	MEETING
Wednesday	7:00 – 8:00 am	MEETING
	9:00 – 10:30 pm	MEETING
	11:00 – 12:30 pm	Hosting: II
	1:45 – 3:00 pm	Hosting: FHIR-I
	3:30 – 5:00 pm	MEETING
Thursday	7:00 – 8:00 am	MEETING
	9:00 – 10:30 am	MEETING
	11:00 – 12:30 pm	Hosting: II
	1:45 – 5:00 pm	MEETING
Friday	9:00 – 10:30 am	MEETING

PATIENT ADMINISTRATION (PA)

Monday	1:45 – 5:00 pm	MEETING
Tuesday	9:00 – 10:30 am	Hosting: FHIR-I
	11:00 – 5:00 pm	MEETING
Wednesday	9:00 – 12:30 pm	Hosting: PC
	1:45 – 5:00 pm	MEETING
Thursday	9:00 – 10:30 am	MEETING
	11:00 – 12:30 pm	Hosting: FM
	1:45 – 5:00 pm	MEETING

PATIENT CARE (PC)

Monday	1:45 – 5:00 pm	MEETING
Tuesday	9:00 – 10:30 am	Hosting: CIMI, LHS
	11:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Hosting: FHIR-I
	3:30 – 5:00 pm	Hosting: CQI, Voc

Wednesday	9:00 – 12:30 pm	Joint w/ PA
	12:30 – 1:30 pm	Luncheon/ Meeting
	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Hosting: BR&R
Thursday	9:00 – 10:30 am	Hosting: CIC, LHS
	11:00 – 12:30 pm	MEETING
	12:30 – 1:30 pm	Luncheon/ Meeting
	1:45 – 3:00 pm	MEETING

PHARMACY (PHARM)

Monday	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Hosting: BR&R
Tuesday	9:00 – 10:30 am	MEETING
	11:00 – 12:30 pm	Hosting: FHIR-I
Wednesday	1:45 – 5:00 pm	MEETING
	9:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Joint w/ CDS, BR&R, CQI
Thursday	3:30 – 5:00 pm	MEETING
	9:00 – 5:00 pm	MEETING

PHYSICIANS BREAKFAST MEETING

Wednesday	7:00 – 8:00 am	Breakfast Meeting
-----------	----------------	-------------------

POLICY ADVISORY COMMITTEE (PAC)

Sunday	9:00 – 12:30 pm	MEETING
Monday	1:45 – 5:00 pm	MEETING
Tuesday	1:45 – 5:00 pm	MEETING
Wednesday	9:00 – 12:30 pm	MEETING

PROCESS IMPROVEMENT (PIC)

Wednesday	1:45 – 3:00 pm	MEETING
-----------	----------------	---------

PRODUCT LINE ARCHITECTURE (PLA)

Friday	8:00 – 9:00 am	MEETING
--------	----------------	---------

PRODUCT MANAGEMENT COUNCIL

Wednesday	7:00 – 8:00 am	Breakfast Meeting
-----------	----------------	-------------------

PROJECT SERVICES

Thursday	1:45 – 3:00 pm	MEETING
----------	----------------	---------

PUBLIC HEALTH (PH)

Monday	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Hosting: FHIR-I
Tuesday – Wednesday	9:00 – 5:00 pm	MEETING
Thursday	9:00 – 3:30 pm	MEETING

PUBLISHING

Will Not Meet in September

SECURITY (SEC)

Monday	1:45 – 5:00 pm	Joint w/ CBCP
Tuesday	9:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Joint w/ CBCP
	3:30 – 5:00 pm	MEETING
	9:00 – 10:30 am	Joint w/EHR, CBCP, FHIR-I
Wednesday	11:00 – 12:30 pm	MEETING
	1:45 – 3:00 pm	Hosting: CBCP, FHIR-I
	3:30 – 5:00 pm	MEETING
	9:00 – 10:30 am	Hosting: CBCP, FHIR-I
Thursday	11:00 – 12:30 pm	MEETING

SERVICES ORIENTED ARCHITECTURE (SOA)

Monday	1:45 – 5:00 pm	MEETING
Tuesday – Wednesday	9:00 – 5:00 pm	MEETING

STANDARDS GOVERNANCE BOARD (SGB)

Sunday	11:00 – 12:30 pm	Joint w/ ArB
Friday	9:00 – 12:30 pm	MEETING

STEERING DIVISIONS

Monday	7:00 – 8:30 pm	Administrative
Monday	7:00 – 8:30 pm	Clinical
Monday	7:00 – 8:30 pm	Infrastructure
Monday	7:00 – 8:30 pm	Organizational Support

STRUCTURED DOCUMENTS (SD)

Monday	1:45 – 5:00 pm	MEETING
Tuesday	9:00 – 10:30 am	Hosting: FHIR-I
	11:00 – 12:30 pm	Joint w/ Voc
	1:45 – 5:00 pm	MEETING
Wednesday – Thursday	9:00 – 5:00 pm	MEETING

TECHNICAL STEERING COMMITTEE (TSC)

Saturday	9:00 – 5:00 pm	MEETING
Sunday	5:15 – 6:15 pm	MEETING
Monday	5:15 – 6:15 pm	Co-Chair Dinner/ Meeting
Wednesday	12:30 – 1:30 pm	Luncheon/ Meeting

US REALM STEERING COMMITTEE

Monday	1:45 – 3:00 pm	MEETING
--------	----------------	---------

V2 MANAGEMENT GROUP

Tuesday	7:00 – 8:00 am	MEETING
	9:00 – 10:30 am	Joint w/ InM
Wednesday	9:00 – 10:30 am	Joint w/ EST
Friday	11:00 – 12:30 pm	MEETING

VOCABULARY (VOC)

Sunday	3:30 – 5:00 pm	MEETING
Monday	1:45 – 3:00 pm	MEETING
	3:30 – 5:00 pm	Hosting: CIMI
	9:00 – 10:30 am	MEETING
	11:00 – 12:30 pm	Hosting: SD
Tuesday	1:45 – 3:00 pm	Hosting: HTA
	3:30 – 5:00 pm	Joint w/ PC, CQI
	9:00 – 10:30 am	Hosting: FHIR-I, MnM
	11:00 – 12:30 pm	Hosting: MnM
	1:45 – 5:00 pm	MEETING
	9:00 – 10:30 am	Hosting: CGIT, InM
Wednesday	11:00 – 12:30 pm	Hosting: CGIT
	1:45 – 5:00 pm	MEETING
	5:30 – 6:30 pm	Facilitators' Roundtable Meeting – Joint w/ FHIR-I, MnM
Thursday	9:00 – 10:30 am	Hosting: CGIT, InM
	11:00 – 12:30 pm	Hosting: CGIT

“EARLY BIRD” RATE DEADLINE — Advance meeting registration, including payment, is required by August 24, 2019 to receive the discounted rates. Otherwise the full fee structure will apply. Consult the registration form (pages 21-23) for a schedule of meeting fees.

TO REGISTER — Online registration is available at HL7.org. Payment can be made via credit card directly from the site or print the registration form and mail it with payment.

You may also register by completing the registration form on pages 21-23 and mail it (along with a check payable to Health Level Seven International in U.S. funds ONLY) to:

Health Level Seven International
3300 Washtenaw Ave., Suite #227
Ann Arbor, MI 48104 USA

If paying by credit card, the registration may be faxed to:
+1 (734) 677-6622

Advance registrations **MUST** include payment. No balances due will be accepted and registrations received without payment will not be processed **until the time that payment is received**. Registrations received with payment by the Early Bird deadline will receive the Early Bird discount. Registrations where payment is not received by then will require the full registration fee. Advance registrations will be accepted until August 31. After that time, registrations can only be made onsite. All onsite registrations require payment in full at the time of registration.

CANCELLATION POLICY — **Prepaid registrants who cancel prior to the Early Bird deadline will receive a full refund minus a \$50 processing fee. After that time, no refunds will be made.**

TUTORIAL CANCELLATION

Tutorials at HL7 working group meetings are an additional fee to the daily meeting registration fees. Please note that tutorials listed as free in the brochure still require payment of the daily meeting fee. To register for tutorials, please select each tutorial you would like to take on page 23 of the registration form.

The tutorial schedule is subject to change. A tutorial may be canceled if expected registration numbers are not met. If a tutorial is cancelled, pre-registrants will be notified via email. The registrant may select another tutorial or a full refund of the tutorial fee will be made. However, the daily meeting registration fees and associated travel expenses will not be refunded.

DRESS — The dress code is casual for all HL7 functions. Layered clothing is advised, as room temperatures vary.

MEALS — Light continental breakfasts, refreshment breaks and lunches are included in the meeting registration fee and will be provided for all registered attendees Saturday through Friday. Vegetarian and diabetic meals are available upon request. You must register for each day's lunch on your registration form in order to receive lunch tickets.

HOTEL INFORMATION — HL7's 33rd Annual Plenary and Working Group Meeting will be held at:

ATLANTA MARRIOTT MARQUIS

265 Peachtree Center Avenue

Atlanta, GA 30303

Phone: +1 (800) 260-1523

Website: <https://www.marriott.com/hotels/travel/atlmq-atlanta-marriott-marquis/>

To reserve your room, the hotel has set up a special website registration process just for HL7 attendees. HL7 attendees should log on to <https://book.passkey.com/e/49816846> and follow the reservation instructions.

Reservations can be made by calling +1 800-260-1523, and be sure to mention Health Level Seven International to receive the discounted room rate of \$199 per night single or double occupancy. These rates will be offered three days prior and three days after the meeting dates, subject to availability of rooms at the time of reservation. Remember, there are a limited number of rooms available at the discounted rate, so reserve your room early. The hotel cut-off date is August 30, 2019. Room rates are subject to all applicable state and local taxes in effect at time of check in. If you need to cancel your room reservation, please do so 72 hours (three days) prior to your arrival date and obtain a cancellation number. If you cancel within the three days, there will be a charge of a one night reservation fee.

For those making a reservation under the government rate, the rooms will be the prevailing rate of \$159.00 for September, 2019. To receive this rate please call the hotel directly. There are a limited number of government rooms available at the discounted rate so reserve your room early!

GROUND TRANSPORTATION — Atlanta Marriott Marquis is approximately 12 miles North of the Hartsfield-Jackson Atlanta International Airport.

TAXI — From Hartsfield-Jackson Atlanta International Airport costs are approximately:

Limousine	60.00 USD
Taxi	32.00 USD
Subway	2.50 USD
Bus	16.50 USD

Visit ATL airport website at <http://www.atl.com/>

PARKING — Valet parking fee is 45 USD daily. HL7 guests will receive a 15% discount on valet parking.

PLEASE BOOK YOUR ROOM AT THE HL7 MEETING HOTEL

HL7 urges all meeting attendees to secure their hotel reservation at the HL7 Working Group Meeting Host Hotel. This hotel has been contracted to provide the best rate and service to our HL7 meeting attendees, including the vast number of meeting rooms that HL7 uses. In order to secure the required meeting space, HL7 has a contractual obligation to fill our sleeping room blocks. If you make reservations at a different hotel, HL7 risks falling short on its obligation, which translates in HL7 paying additional costs (penalties) to the hotel. Should this occur, HL7 will likely be forced to pass these costs onto our attendees through increased meeting registration fees. Therefore, to help avoid such fee increases, we urge you to book your hotel room at our host hotel. Thank you!

Meeting Registration Form

1. Contact Information

End of day on August 24, 2019 is the deadline for Early Bird fees. All advance registrations must be received by end of day on August 31, 2019. After this date, registrations can ONLY be made onsite with payment.

First Name	Last Name	
Title/Position	Organization	
Address		
City	State/Region	Postal Code
Country		
Telephone	Fax	
Email	Nickname for Badge	

2. Survey & Information

I am a/an: ☐ Affiliate Chair ☐ Past Board Chair ☐ Tutorial Speaker
☐ First-Time WGM Attendee ☐ Plenary Speaker
☐ HL7 Board Member ☐ Student

Primary employment type: ☐ Academia ☐ Consultant ☐ Government ☐ Healthcare Professional
☐ Payer ☐ Pharmacy ☐ Provider ☐ Vendor
☐ Other: _____

☐ I am a member of an HL7 International Affiliate or full-time employee of an HL7 organizational member and eligible for the member rate.

Please list affiliate or organization: _____

☐ I am a full time student. (Option available only to full-time students who are not professionally employed.)

University attending: _____ Student # _____

Meal Requirements:

☐ Diabetic ☐ Regular ☐ Vegetarian ☐ Other: _____

Mail/Overnight

Health Level Seven International
3300 Washtenaw Ave., Suite #227
Ann Arbor, MI 48104 USA

Fax

+1 (734) 677-6622

Online

www.HL7.org

3. Registration and Tutorial Fees:

The first step is to register for which days you will be onsite via the ALL WEEK OPTION or the DAILY FEE. The second step is to register for any add-on events such as the FHIR EXPERIENCE and/or TUTORIALS, which require additional fees.

	Members By 8/24	Members After 8/24	Non-Members By 8/24	Non-Members After 8/24	Amount Due
Sunday – Friday Option: Please register me for the entire week. Please note that the Sunday–Friday Option does not include the cost of tutorials. Please register separately for any tutorials you would like to attend on the following page.	<input type="checkbox"/> \$965	<input type="checkbox"/> \$1,255	<input type="checkbox"/> \$1,450	<input type="checkbox"/> \$1,880	\$ _____
Monday – Friday Option: Please register me for the entire week. Please note that the Monday–Friday Option does not include the cost of tutorials. Please register separately for any tutorials you would like to attend on the following page.	<input type="checkbox"/> \$810	<input type="checkbox"/> \$1,100	<input type="checkbox"/> \$1,215	<input type="checkbox"/> \$1,650	\$ _____
Per Day Fees: Please note tutorials are an additional fee on top of the daily fees. Additionally, tutorials that are listed as free still require registration for the daily meeting fees. Please register separately for any tutorials you would like to attend on the following page.	<input type="checkbox"/> \$230/day	<input type="checkbox"/> \$305/day	<input type="checkbox"/> \$345/day	<input type="checkbox"/> \$460/day	\$ _____
<input type="checkbox"/> Sunday <input type="checkbox"/> Monday <input type="checkbox"/> Tuesday <input type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input type="checkbox"/> Friday # _____ days attending x fee:					\$ _____

	Members By 8/24	Members After 8/24	Non-Members By 8/24	Non-Members After 8/24	
HL7 FHIR Connectathon: Please note: No partial registrations for the FHIR Connectathon will be accepted. The registration fee covers all day Saturday and Sunday. FHIR Connectathon registration includes space at a table for one person with a laptop, one power connection (expected draw ~100 W) and up to two wireless network connections with shared bandwidth. If you have additional hardware, space or connectivity requirements, please contact Maryann@HL7.org prior to registration. Venue constraints may limit HL7's ability to meet special requests.	<input type="checkbox"/> Participant: \$450 <input type="checkbox"/> Observer: \$550	<input type="checkbox"/> Participant: \$595 <input type="checkbox"/> Observer: \$695	<input type="checkbox"/> Participant: \$550 <input type="checkbox"/> Observer: \$650	<input type="checkbox"/> Participant: \$695 <input type="checkbox"/> Observer: \$795	\$ _____
HL7 FHIR Experience: This event requires meeting registration to attend. Please be sure to register for Wednesday above.	<input type="checkbox"/> \$230	<input type="checkbox"/> \$450	<input type="checkbox"/> \$680	<input type="checkbox"/> \$1,030	\$ _____

☐ I plan to attend the **International Council Meeting** (Sunday).

A lunch ticket will be included in your registration packet.

Deadline for Discounted Rates: Payment must be received by August 24, 2019 to qualify for the “Early Bird” rate. The full fee structure applies to all other registrations where payment is received after this date.

Cancellation/Refund Policy: Prepaid registrants who cancel prior to the Early Bird deadline will receive a full refund less a \$50 processing fee. After this date, no refunds will be given for ANY reason.

Payment Policy: Registrations for the meeting can only be paid for in US currency.

Meeting Registration Form

Individuals who are employed by an HL7 gold or benefactor organization must have their key member contact Mary Ann Boyle at maryann@HL7.org if they wish to use their organization's free tutorial seats.

Tutorial Fees: Please register me for the following tutorials:

Please note that in order to attend any tutorials you must pay two fees: (1) daily meeting fee for the day of the tutorial, and (2) tutorial registration fee.

Members		Non-Members		AMOUNT DUE
By 8/24	After 8/24	By 8/24	After 8/24	

Monday, September 16

Morning Sessions

- ☐ **Track 3—HL7 Process:** Orientation for First-Time Attendees — FREE TUTORIAL (F1) — Must sign up to attend this tutorial (Please check the box.)
- ☐ **Track 3—HL7 Process:** ISO IDMP, Substances and Allergies — FREE TUTORIAL (F2) — Must sign up to attend this tutorial (Please check the box.)

Afternoon Sessions

- Track 1—FHIR in Depth:** HL7 FHIR Using SMART & CDS Hooks (M1)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____
- Track 2—Introductory Topics:** Introduction to HL7 Standards for Interoperability (M2)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____
- Track 2—Introductory Topics:** Introduction to HL7 FHIR (M3)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____

Tuesday, September 17

Morning Sessions

- ☐ **Track 3—HL7 Process:** Understanding the HL7 International Organization – From Process to Governance — FREE TUTORIAL (F3) — Must sign up to attend this tutorial (Please check the box.)
- ☐ **Track 3—HL7 Process:** How to Get HL7 Certified — FREE TUTORIAL (F4) — Must sign up to attend this tutorial (Please check the box.)

- Track 1—FHIR in Depth:** Designing and Architecting HL7 FHIR Solutions (T4)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____
- Track 1—FHIR in Depth:** The Da Vinci Project: Deep Dive (T5)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____
- Track 2—Introductory Topics:** Introduction to HL7 FHIR for Software Developers (T6)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____

Afternoon Sessions

- Track 1—FHIR in Depth:** Mapping V2 & CDA to FHIR (T7)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____
- Track 1—FHIR in Depth:** HL7 FHIR Profiling (T8)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____
- Track 2—Introductory Topics:** The Ins and Outs of the FHIR Medical Record (T9)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____

Wednesday, September 18

Morning Sessions

- ☐ **Track 3—HL7 Process:** GS1 Standards for Supply Chain Meets HL7 — FREE TUTORIAL (F5) — Must sign up to attend this tutorial (Please check the box.)

- Track 1—FHIR in Depth:** HAPI on FHIR (W10)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____
- Track 1—FHIR in Depth:** C-CDA on FHIR (W11)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____

Afternoon Sessions

- Track 1—FHIR in Depth:** Understanding and Using Terminology in HL7 FHIR (W12)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____
- Track 2—Introductory Topics:** Public Health on FHIR (W13)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____

Thursday, September 19

Morning Sessions

- ☐ **Track 3—HL7 Process:** Newly Elected Co-Chair Training — FREE TUTORIAL (F6) — Must sign up to attend this tutorial (Please check the box.)

- Track 1—FHIR in Depth:** Clinical Quality and Decision Support on FHIR (TH14)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____
- Track 1—FHIR in Depth:** FHIR Security and Privacy (TH15)

☐ \$115☐ \$225☐ \$340☐ \$515 \$ _____

Total Amount Due \$ _____

4. Payment Information: Payment must be included in order to process your registration. Method of Payment (US Dollars, Drawn on US Bank Only)

- ☐ Check (Please make payable to: Health Level Seven International)
- Credit Card: ☐ Visa ☐ Master Card ☐ American Express ☐ Discover

Number:

Expiration Date:

Name on Card (Please Print):

Billing Zip Code:



Sydney, Australia

February 1 – 7, 2020

International Conference & Working Group Meeting



Orlando, FL

March 9 – 13, 2020

HIMSS20

Orange County Convention Center
Booth #2921



San Antonio, TX

May 16 – 22, 2020

Working Group Meeting

Hyatt Regency San Antonio
on the Riverwalk



Baltimore, MD

September 19 – 25, 2020

34th Annual Plenary & Working Group Meeting



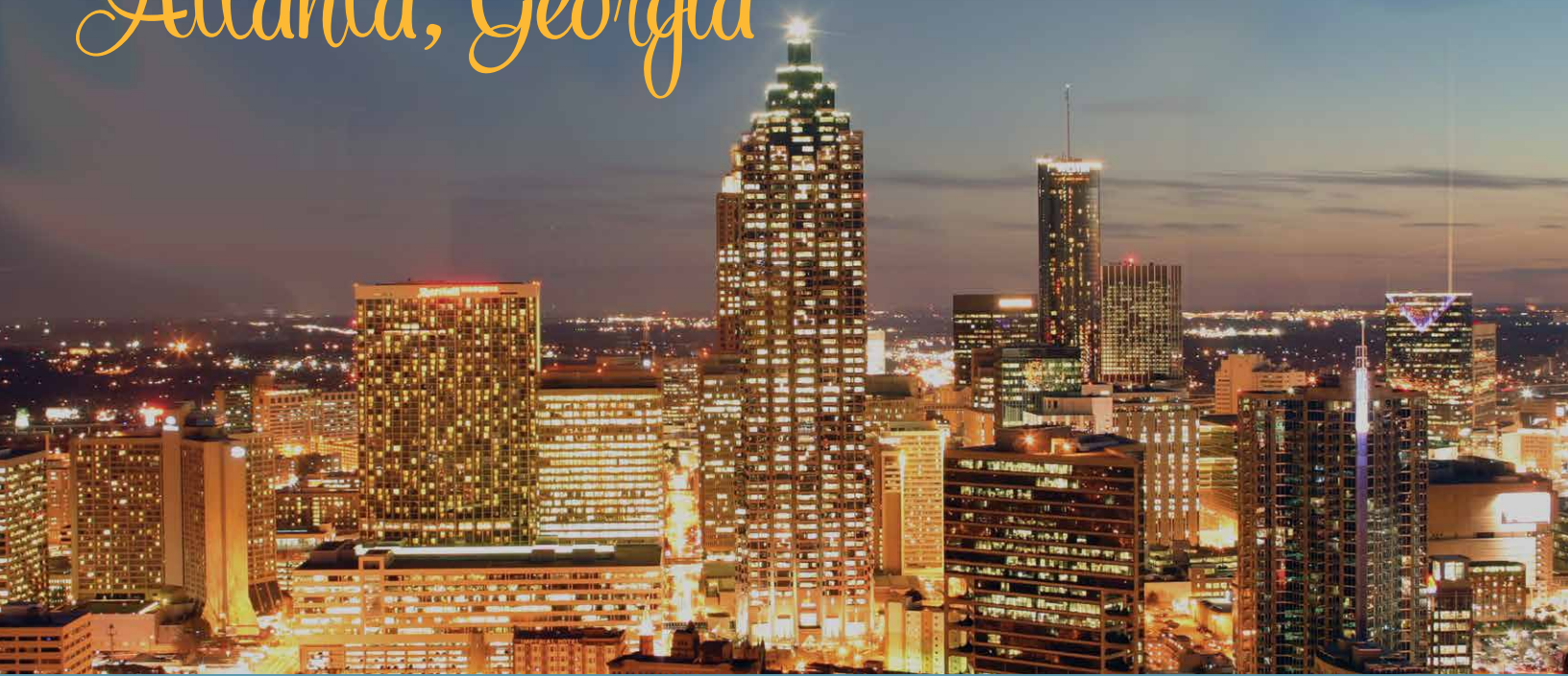
Henderson, NV

January 16-22, 2021

Working Group Meeting

Hilton Lake Las Vegas Resort & Spa

Atlanta, Georgia



Atlanta gleams amid glass and steel towers, but the heart of the South's largest city is its people. Visitors are likely to be greeted with a big helping of "How y'all doing" hospitality. This diverse population with 4 million residents is decidedly youthful – younger than the US population and more racially diverse. You're more than likely to meet folks who came for a weekend and decided to stay a lifetime.

Centennial Olympic Park, the heart of downtown's tourist hub, is marked by playful fountains that draw visitors to its pulse. From there, they walk to world-class attractions such as the popular Georgia Aquarium, home to whale sharks and wave pools, and The World of Coca-Cola, a dedication to a century of top-notch advertising. Sports fans congregate here too, to cheer the NFL Falcons and NBA Hawks in the Georgia Dome and the MLB Braves at Turner Field. It's a mecca for Civil Rights travelers at the Martin Luther King Jr. National Historic Site and Ebenezer Baptist Church.

Dining out is essential to Atlanta's social scene, where chef-run indie restaurants dish up modern American cuisine in strikingly beautiful dining rooms. Among the chic up-to-the-minute places are plenty of cozy diners, cafes and bistros, as well as small mom and pop hole-in-

the-walls on Buford Highway where you can dine from menus with little English and lots of flavor.

Look beyond the city's core, because Atlanta's neighborhoods are packed with personality too. Midtown melds in-town glitz with culture of the fabulous Fox Theatre, the High Museum of Art, famed Piedmont Park and the Atlanta Botanical Garden. The Westside has become a magnet for foodies, architecture and design enthusiasts, and shoppers. Buckhead blends boutiques and galleries with fabulous dining, while Little Five Points lives on the edge between bohemian grunge and a solid theatre scene.

Culture oozes in Atlanta like heat off the sidewalks in July. Emerging designers pepper the city's boutiques. Indulge in high-brow, Grammy-winning symphony, opera, and ballet. The Fox Theatre hosts the best touring shows in nation. Catch home-grown plays on stage at both The Alliance and Horizon Theatres, improve at Dad's Garage, or inspire your imagination at the Center for Puppetry Arts.

It's easy to fall in love with this beautiful city's cultivated charm.

Copy courtesy of the Atlanta Convention and Visitors Bureau.

Stay up-to-date with HL7!

 facebook.com/HealthLevel7  [@HL7](https://twitter.com/HL7) [#HL7WGM](https://twitter.com/HL7)