HL7 INTERNATIONAL CONFERENCE & Working Group Meeting

May 4–10, 2019
Le Centre Sheraton • Montreal, Quebec, Canada

Register Today!
Hotel & Early Bird Registration Cutoff: April 12, 2019
Online Registration Cutoff: April 19, 2019

#HL7WGM
Upcoming Co-Chair Elections
The following HL7 work groups will conduct co-chair elections at this working group meeting.

<table>
<thead>
<tr>
<th>Work Group</th>
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<td>Arden Syntax</td>
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<td>Biomedical Research and Regulation</td>
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<td>Clinical Genomics</td>
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<td>Clinical Quality Information</td>
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<td>Conformance</td>
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<td>Modeling and Methodology</td>
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<td>Patient Administration</td>
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<td>Process Improvement Committee</td>
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<td>Vocabulary</td>
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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 working group meetings hard at work on standards development. Attending a work group meeting can be a great way to keep up-to-date on what is happening in a particular area, and everyone attending an HL7 working group meeting is invited to attend any of the work group meetings.

Please see pages 22–24 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 4–13.

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 new 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 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 feel free to choose the whatever courses are right for you from among the three tracks.
HL7 FHIR Connectathon  
Saturday, May 4 / 9:00 am – 10:00 pm  
Sunday, May 5 / 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.

A 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 confluence.HL7.org.

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.

HL7 FHIR Experience  
Wednesday, May 8 / 9:00 am – 5:00 pm  
Thursday, May 9 / 9:00 am – 5:00 pm

This is a two-day, hands-on FHIR training program. Practical exercises will be used to discuss FHIR theory on the first day. Implementation guides will be discussed on the second day.

The following topics will be covered in this program:

**Day 1:** 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

**Day 2:** Implementation guides (including use of a JavaScript client in a sandbox and practical exercises) and exam review:
- US Core Profiles – Focus on specific profiles: patient, diagnostic report, results, medication statement
- Provider Directory Profiles – Focus on specific profiles: endpoint, location, organizer, practitioner
- FHIR Proficiency Exam Review

**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 24 of the registration form.*

**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.
This Tutorial Will Benefit:
• Anyone interested in connecting his or her system/app to HL7 FHIR- or Argonaut-enabled EHRs or systems

Upon Completion of This Tutorial, Students Will Be Able To:
• Explain HL7 FHIR fundamental concepts
• Implement API calls using Postman
• Describe FHIR implementation guides and profiles
• Construct simple JavaScript applets that securely query clinical data using FHIR
• Recall the required competencies and structure of the FHIR Proficiency Certification exam
• Identify gaps in FHIR proficiency by completing practice exam questions

Faculty:
Dr. Eric Haas: Member, FHIR Core Team; President and CEO, Health eData, Inc.
Stefan Lang: Member, Technical Committee on FHIR, HL7 Germany; Senior Consultant, Gefyra GmbH; Senior Consultant, Lang Health IT Consulting
Virginia Lorenzi, FHL7: Chair, HL7 Education Advisory Council; HL7 Fellow; HL7 Volunteer of the Year Award Recipient; Manager, HIT Standards and Collaborations, New York Presbyterian Hospital
Rik Smithies: Co-Chair, HL7 Clinical Statement Work Group; Technical Chair, HL7 UK; Independent Consultant, NProgram Ltd.

**M1 HL7 FHIR Using SMART & CDS Hooks**

**Monday, May 6 / 9:00 am – 12:30 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; Interim Co-Chair, HL7 Clinical Decision Support Work Group; Member, CDS Hooks PMC; Chief Technology Officer, HarmonIQ Health Systems Corporation

**T7 Designing and Architecting HL7 FHIR Solutions**

**Tuesday, May 7 / 9:00 am – 12:30 pm**
HL7 FHIR is attracting the industry's 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.
Using SNOMED CT with HL7 FHIR
Tuesday, May 7 / 9:00 am – 12:30 pm

Learn how to use the SNOMED International Systematized Nomenclature of Medicine – Clinical Terms (SNOMED CT) international clinical terminology standard and coding system with HL7 Fast Healthcare Interoperability Resources (FHIR) interoperability standard. 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:
• Technical specification and standard authors designing solutions incorporating SNOMED CT and FHIR
• Implementers developing solutions based on SNOMED CT content and FHIR
• Staff of SNOMED CT National Release Centres (NRCs) seeking to understand how their edition may be used with the FHIR standard
• Adopters of the FHIR standard who wish to understand SNOMED CT and use it with FHIR

Upon Completion of This Tutorial, Students Will Be Able To:
• Be familiar with the HL7 and SNOMED International standards development organizations and their formal relationships
• Understand how the SNOMED CT terminology and the FHIR interoperability standard can be used together effectively in healthcare IT specifications and solutions
• Know where to find resources and communities who can assist them further

Prerequisites:
• Basic familiarity with FHIR and SNOMED CT (though not essential)

Faculty:
*Reuben Daniels*: Co-Chair, HL7 International Vocabulary Work Group; Member, SNOMED-on-FHIR Working Group, SNOMED International

Mapping V2 and CDA to FHIR
Tuesday, May 7 / 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

Prerequisites:
• There are no prerequisites for this tutorial; relevant FHIR terminology will be introduced

Faculty:
*Gil Alterovitz, PhD*: Co-Chair, HL7 Clinical Genomics Work Group; Assistant Professor, Harvard Medical School; Core Faculty Computational Health Informatics Program, Boston Children’s Hospital

Clinical Genomics Using FHIR
Tuesday, May 7 / 9:00 am – 12:30 pm

HL7 FHIR enables a new class of clinical genomic apps for precision medicine. This tutorial will introduce FHIR genomics and take attendees through the creation and deployment of a clinical genomic app.

This Tutorial Will Benefit:
• IT professionals, developers, EMR vendors and clinicians

Upon Completion of This Tutorial, Students Will Be Able To:
• List use case for clinical genomic apps
• Describe how HL7 FHIR genomics enables clinical genomics
• Use HL7 FHIR to create a simple clinical genomic app
• Deploy a simple HL7 FHIR clinical genomic app

Prerequisites:
• There are no prerequisites for this tutorial; relevant FHIR terminology will be introduced

Faculty:
*Gil Alterovitz, PhD*: Co-Chair, HL7 Clinical Genomics Work Group; Assistant Professor, Harvard Medical School; Core Faculty Computational Health Informatics Program, Boston Children’s Hospital

HL7 FHIR Profiling
Tuesday, May 7 / 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
Tutorials

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

FHIR Security: Think Like a Hacker
Tuesday, May 7 / 1:45 pm – 5:00 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. Asymmetrik’s 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.

Asymmetrik maintains the Phoenix FHIR Server framework, ONC’s reference implementation for an open-source secure FHIR server.

This Tutorial Will Benefit:
• Implemeters 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 your 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:
Dan Benjamin: Security Engineer and Resident Hacker, Asymmetrik

HAPI on FHIR
Wednesday, May 8 / 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 covered 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

C-CDA on FHIR
Wednesday, May 8 / 9:00 am – 12:30 pm

C-CDA on FHIR is an HL7 implementation guide that expresses the core 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 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: Member, HL7 Structured Documents Work Group; Chief Technology Officer, Lantana Consulting Group

Understanding and Using Terminology in HL7 FHIR
Wednesday, May 8 / 1:45 pm – 5:00 pm

Terminology is a required foundational component for interoperable data exchange in FHIR and other clinical data standards. This tutorial takes an in-depth look at the use of standard terminologies within FHIR artifacts (datatypes, 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 datatypes
• Explain how the FHIR terminology resources and datatypes 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:
Rob Hausam, MD: Co-Chair, HL7 Orders and Observations Work Group; Co-Chair, HL7 Vocabulary Work Group; Vocabulary Facilitator, HL7 Orders and Observations and Structured Documents Work Groups; Principal, Hausam Consulting LLC
Tutorials

**Tutorials**

**TH17**  
**FHIR for Clinical and Administrative Workflows**  
Thursday, May 9 / 9:00 am – 12:30 pm

The tutorial will cover the existing HL7 FHIR structures and approaches for different types of workflows and the various capabilities available.

**This Tutorial Will Benefit:**
- Standards developers such as HL7 work group members and HL7 FHIR profile developers
- Integration and systems architects
- Clinical or administrative workflows subject matter experts

**Upon Completion of this Tutorial, Students Will Be Able To:**
- Understand the purpose and intent behind the logical models for workflow patterns
- Describe at least three different mechanisms FHIR has that support workflow
- Explain what types of workflows require the use of the FHIR task
- List at least four considerations impacting on selection of workflow approach
- Analyze at least two sample workflow scenarios and identify how FHIR could be used to support those scenarios

**Prerequisites:**
- Knowledge of FHIR fundamentals, understanding the basics of healthcare workflows

**Faculty:**
*Vassil Peytchev, FHL7: Lead Technical Adviser, Epic Systems Corporation; HL7 Fellow*

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**M2**  
**Introduction to HL7 Standards for Interoperability**  
Monday, May 6 / 9:00 am – 12:30 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.

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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; Group Chairman & CEO, CAL2CAL Corporation*

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**M3**  
**Introduction à la Norme HL7 FHIR (French)**  
Lundi, Mai 6 / 9:00 am – 12:30 pm

HL7 Fast Healthcare Interoperability Resources (FHIR®) est la toute dernière norme d’interopérabilité des soins de santé proposée par HL7. Elle offre des formats d’échange de données liées au domaine de la santé qui sont compatibles avec les paradigmes d’interopérabilité suivants : document, messagerie, services et RESTful. Ce tutoriel est destiné à ceux qui veulent en savoir plus sur la norme FHIR, sur ce qu’on peut faire avec celle-ci et sur la meilleure façon pour les organisations de santé d’en tirer parti.

**Ce Tutoriel s’Adresse à :**
- Toute personne impliquée ou désirant s’impliquer dans la conception, le développement, la mise en œuvre et l’utilisation de HL7 FHIR

**Après Avoir Complété ce Tutoriel, les Étudiants Seront Capables de:**
- Expliquer les principes de base de la méthodologie FHIR
- Décrire les caractéristiques d’une ressource FHIR et comprendre le contenu de la définition d’une ressource
- Expliquer la relation entre FHIR et d’autres normes HL7 telles que la Version 2, la Version 3 et le CDA
- Énumérer quelques-unes des principales ressources d’infrastructure FHIR et expliquer comment elles sont utilisées pour prendre en charge les quatre paradigmes d’interopérabilité FHIR
- Aider leur organisation à déterminer si elle devrait commencer à utiliser et mettre en œuvre la norme FHIR ; le cas échéant, aider également à déterminer où, quand et comment il serait opportun de commencer
**Instructeur:**

*Frédéric Laroche, B.Eng, BAA, MCP:* Directeur, Solutions en Santé, Gevity Inc.; Membre du Groupe de Travail Canadien pour la Mise en Œuvre de FHIR; Membre du Comité Aviseur Canadien en Informatique de Santé ISO/TC 215; Conférencier FHIR invité à l’Université de Victoria dans le cadre du programme de 2e cycle en informatique de santé

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### Introduction to HL7 FHIR

**Monday, May 6 / 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:**

*David Hay, MD:* Co-Chair, HL7 FHIR Management Group; Product Strategist, Orion Healthcare

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### Introduction to CDA

**Monday, May 6 / 1:45 pm – 5:00 pm**

The Clinical Document Architecture (CDA®) is HL7’s specification for standards-based exchange of clinical documents. CDA is based on the concept of scalable, incremental interoperability and uses Extensible Markup Language (XML), the HL7 Reference Information Model (RIM), and controlled terminology for structure and semantics. This tutorial presents the business case for CDA, its primary design principles, and an overview of the technical specification.

**This Tutorial Will Benefit:**
- New implementers, standards developers and policy makers

**Upon Completion of This Tutorial, Students Will Be Able To:**
- Explain the history and core principles of CDA design
- Explain the core structures of CDA and where they are appropriately used
- Interpret the CDA standard and existing CDA implementation guides

**Faculty:**

*AbdulMalik Shakir, FHL7:* HL7 Fellow; Principal Consultant, Shakir Consulting

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### Introduction to HL7 FHIR for Software Developers

**Monday, May 6 / 1:45 pm – 5:00 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
**Introduction to C-CDA 2.1**

*Wednesday, May 8 / 1:45 pm – 5:00 pm*

Every ONC certified EHR must support Consolidated Clinical Document Architecture (C-CDA). C-CDA is a document standard for communicating patient summaries between providers and patients. It is a foundational component for US Meaningful Use (MU) Stage 3 and Merit-Based Incentive Payment System (MIPS) interoperability. This tutorial provides a detailed background on the specification, explains how C-CDA builds on CDA to provide highly structured patient summaries and discusses implementation challenges and choices. The purpose of this tutorial is to prepare the student to work with C-CDAs in the field to improve healthcare interoperability.

**This Tutorial Will Benefit:**
- Software vendor stakeholders building and supporting C-CDA functionality in health IT products
- Payers interested in visit summaries
- Providers implementing and supporting C-CDA based health information exchange and patient engagement interoperability functionality
- Others interested in capitalizing on the widespread availability of C-CDA capabilities in electronic health records
- Stakeholders interested in structured document standards development

**Upon Completion of This Tutorial, Students Will Be Able To:**
- Effectively navigate the specification
- Identify and explain the key document types and sections
- List the latest enhancements to the standard and supporting documentation and tools
- Use CDA templates to streamline implementation
- Locate C-CDA validation tools

**Prerequisites:**
- Introduction to CDA

**Faculty:**
_Brett Marquard_: Co-Chair, HL7 Structured Documents Work Group; Principal, WaveOne Associates

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**Introduction to HL7 FHIR for Healthcare Leadership**

*Thursday, May 9 / 9:00 am – 12:30 pm*

This tutorial is intended for clinicians, managers and executives rather than the technical user. It will describe where FHIR fits in the healthcare interoperability space and include a high-level description of the specification. The tutorial will consist of practical exercises for attendees as well as presentation material.

**This Tutorial Will Benefit:**
- Clinicians and decision-makers
- Individuals in technical roles who are interested in the scope and place of FHIR rather than the details

**Upon Completion of this Tutorial, Students Will Be Able To:**
- Understand how FHIR can benefit their organizations and to describe those advantages to others
- Know where to go to get more information

**Prerequisites:**
- None, though an understanding of healthcare IT will be beneficial

**Faculty:**
_John Hatem, MSN, FHL7_: Co-Chair, HL7 Pharmacy Work Group; Adjunct Faculty, University of Colorado, College of Nursing; HL7 Fellow; Independent Consultant

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**The Ins and Outs of the FHIR Medical Record**

*Thursday, May 9 / 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 the 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 10’s of thousands of observations.
Control table for LHC Flowsheet
Unified Code for Units of Measure (UCUM) converter for LHC Flowsheet
Learn about the structure and function of LHC Flowsheet on FHIR app and how to use it

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

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

TRACK 3— HL7 PROCESS AND GENERAL INTEREST TOPICS

Orientation for First-Time Attendees – FREE TUTORIAL
Monday, May 6 / 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:
Ken McCaslin, FHL7: HL7 Fellow, Co-Chair, Orders and Observations Work Group, Past Chair, Technical Steering Committee, Past Board Member, HL7 International; Past Steering Division Co-Chair, HL7 Technical Steering Committee; Co-Chair, LRI/LOI IG Work Group

Understanding the HL7 International Organization – From Process to Governance – FREE TUTORIAL
Tuesday, May 7 / 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:
Ken McCaslin, FHL7: HL7 Fellow, Co-Chair, Orders and Observations Work Group, Past Chair, Technical Steering Committee, Past Board Member, HL7 International; Past Steering Division Co-Chair, HL7 Technical Steering Committee; Co-Chair, LRI/LOI IG Work Group

ISO IDMP, Substances and Allergies – FREE TUTORIAL
Monday, May 6 / 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.
How to Get HL7 Certified – FREE TUTORIAL
Tuesday, May 7 / 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:
Sadhana Alangar, PhD: Director of Education, HL7 International

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

Help with Confluence — FREE TUTORIAL
Tuesday, May 7 / 7:00 am – 8:00 am

This session will offer general information regarding Confluence with a Q&A period. Topics included are: structure, navigation, notifications, macros and more.

Faculty:
Joshua Procious: Applications Manager, HL7 International

GS1 Standards for Supply Chain Meets HL7 – FREE TUTORIAL
Wednesday, May 8 / 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/gs1-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

Newly Elected Co-Chair Training – FREE TUTORIAL
Thursday, May 9 / 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
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**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.
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**Meetings at a Glance**

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<thead>
<tr>
<th>Meeting Grid Includes Both Hosting and Joint Sessions</th>
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<td>DISCLAIRMER: Meeting times are subject to change.</td>
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**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**
## Meetings

### AFFILIATE DUE DILIGENCE (ADDC)
- **Sunday**: 11:00 – 12:30 pm - MEETING

### ANESTHESIA (GAS)
- **Monday – Thursday**: 9:00 – 5:00 pm - MEETING
- **Friday**: 9:00 – 12:30 pm - MEETING

### ARCHITECTURAL REVIEW BOARD (ARB)
- **Sunday**: 11:00 – 12:30 pm - Hosting: SGB
- **Monday**: 11:00 – 12:30 pm - MEETING
- **Thursday**: 1:45 – 5:00 pm - MEETING

### Arden Syntax (AS)
- **Monday**: 9:00 – 5:00 pm - MEETING
- **Tuesday**: 9:00 – 10:30 am - Joint w/ CDS

### Attachments
- **Monday**: 9:00 – 10:30 am - Hosting: FM
- 11:00 – 3:00 pm - MEETING
- 3:30 – 5:00 pm - Hosting: FM
- **Tuesday**: 9:00 – 12:30 pm - MEETING
- 1:45 – 5:00 pm - Hosting: FM
- **Wednesday**: 9:00 – 12:30 pm - MEETING
- 1:45 – 5:00 pm - Hosting: FM
- **Thursday**: 9:00 – 12:30 pm - MEETING
- 1:45 – 5:00 pm - Hosting: FM

### Biomedical Research and Regulation (BR&R)
- **Monday**: 9:00 – 10:30 am - MEETING
- 11:00 – 12:30 pm - Joint w/ Pharm
- 1:45 – 3:00 pm - Joint w/EHR, CIMI
- 3:30 – 5:00 pm - MEETING
- **Tuesday**: 9:00 – 10:30 am - Hosting: CIC
- 11:00 – 5:00 pm - MEETING
- **Wednesday**: 9:00 – 3:00 pm - MEETING
- 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: Progress Update

### Board of Directors’ Meeting
- **Tuesday**: 9:00 – 5:00 pm - MEETING

### Clinical Decision Support (CDS)
- **Monday**: 1:45 – 3:00 pm - Joint w/ O&O, CQI
- 3:30 – 5:00 pm - Joint w/ FHIR-I, II, 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
- 12:30 – 1:30 pm - Luncheon Meeting Hosting: CQI
- 1:45 – 3:00 pm - Hosting: CQI
- 3:30 – 5:00 pm - Joint w/ CQI, CQI

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

### Clinical Interoperability Council (CIC)
- **Tuesday**: 9:00 – 10:30 am - Joint w/ BR&R
- 1:45 – 3:00 pm - MEETING
- **Wednesday**: 9:00 – 10:30 am - MEETING
- 11:00 – 12:30 pm - Hosting: CIMI
- 1:45 – 5:00 pm - MEETING
- **Thursday**: 3:30 – 5:00 pm - Joint w/ LHS, CQI

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**Registration Hours**

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<td>8:00 – 5:00 pm</td>
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<td>Sunday</td>
<td>8:30 – 5:00 pm</td>
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<td>Monday – Tuesday</td>
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<td>Wednesday – Thursday</td>
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<td>Friday</td>
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**MEALS AND BREAKS**

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<tr>
<td>Saturday – Thursday</td>
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<td>Friday</td>
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<td>Saturday – Friday</td>
<td>10:30 – 11:00 am</td>
<td>Morning Break</td>
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<td>Saturday – Friday</td>
<td>12:30 – 1:30 pm</td>
<td>Lunch</td>
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<td>Saturday – Thursday</td>
<td>3:00 – 3:30 pm</td>
<td>Afternoon Break</td>
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**General Session Room**

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

**Monday**: 8:00 – 8:45 am - HL7 CEO, and International Council Reports, Announcements

**Tuesday**: 8:00 – 8:45 am - HL7 CTO, and TSC Reports, Announcements

**Wednesday**: 8:00 – 8:45 am - HL7 Board Report, Awards Presentations, Announcements

**Thursday**: 8:00 – 8:45 am - Announcements

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

**Clinical Quality Information (CQI)**
- **Monday**: 11:00 – 12:30 pm MEETING
  - 1:45 – 3:00 pm Joint w/ O&O, CDS
  - 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, CMI
- **Wednesday**: 9:00 – 10:30 am Joint w/ CDS, CMI
  - 11:00 – 12:30 pm Hosting: CDS
  - 12:30 – 1:30 pm Luncheon Meeting Joint w/ CDS
  - 1:45 – 3:00 pm Joint w/ CDS
  - 3:30 – 5:00 pm Hosting: CDS, CMI
  - 3:30 – 5:00 pm Joint w/ LHS, CIC
- **Thursday**: Luncheon Meeting

**Clinicians on FHIR**
- **Wednesday**: 12:30 – 1:30 pm Luncheon 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
  - 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 (CGT)**
- **Monday**: 9:00 – 10:30 am MEETING
  - 1:45 – 5:00 pm MEETING
- **Tuesday**: 9:00 – 12:30 pm MEETING
  - 1:45 – 3:00 pm Joint w/ InM
- **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**: 9:00 – 12:30 pm MEETING
  - 1:45 – 3:00 pm Hosting: BR&R, CIMI
  - 3:30 – 5:00 pm MEETING
- **Tuesday**: 9:00 – 10:30 am Hosting; MH
  - 11:00 – 5:00 pm MEETING
- **Wednesday**: 9:00 – 10:30 am Hosting: CBCP, FHIR-I
  - 11:00 – 5:00 pm MEETING
- **Thursday**: 9:00 – 5:00 pm MEETING

**Electronic Services and Tools (EST)**
- **Tuesday**: 9:00 – 10:30 am MEETING
- **Thursday**: 9:00 – 12:30 pm MEETING

**Emergency Care (EC)**
- **Monday**: 1:00 – 12:30 pm
- **Tuesday**: 1:00 – 5:00 pm
- **Wednesday**: 1:00 – 12:30 pm
- **Thursday**: 1:00 – 5:00 pm
- **Friday**: 1:00 – 10:00 pm

**Facilitators’ Roundtable Meeting**
- **Thursday**: 5:30 – 6:30 pm Hosting: FHIR-I, MnM, Voc

**FHIR Connectathon**
- **Saturday**: 9:00 – 10:00 pm MEETING
- **Sunday**: 9:00 – 5:00 pm MEETING

**FHIR Infrastructure (FHRI-I)**
- **Monday**: 9:00 – 3:00 pm MEETING
  - 11:00 – 12:30 pm Joint w/ O&O
  - 3:30 – 5:00 pm Hosting: CDS, II, MnM, O&O
  - 3:30 – 5:00 pm Joint w/ Clin Gen
  - 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/ SD
  - 9:00 – 10:30 am Joint w/ ITS
  - 11:00 – 12:30 pm MEETING
  - 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
  - 1:45 – 3:00 pm Joint w/ PC
  - 1:45 – 3:00 pm Joint w/ CMI
  - 3:30 – 5:00 pm MEETING
- **Wednesday**: 9:00 – 10:30 am Joint w/ EHR, CBCP
  - 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
- **Thursday**: 9:00 – 10:30 am Joint w/ BR&R
  - 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

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

**Governance and Operations (GOC)**
- **Wednesday**: 12:30 – 1:30 pm Luncheon Meeting

**Government Projects**
- **Wednesday**: 11:00 – 12:30 pm MEETING
### Meetings

#### HL7 Terminology Authority (HTA)
- **Sunday** 9:00 – 12:30 pm MEETING

#### Health Care Devices (Dev)
- **Monday – Tuesday** 9:00 – 5:00 pm MEETING
- **Wednesday** 9:00 – 3:30 pm MEETING, 3:30 – 5:00 pm Hosting: MH
- **Thursday** 9:00 – 5:00 pm MEETING

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

#### Implementable Technology Specifications (ITS)
- **Tuesday** 9:00 – 10:30 am Hosting: FHIR-I, 11:00 – 5:00 pm MEETING

#### Infrastructure and Messaging (InM)
- **Tuesday** 9:00 – 10:30 am MEETING, 11:00 – 12:30 pm Hosting: FHIR-I, 1:45 – 3:00 pm Hosting: CGIT
- **Thursday** 9:00 – 10:30 am Joint w/ Voc, CGIT

#### International Council Meeting
- **Sunday** 12:30 – 5:00 pm Luncheon/Meeting
- **Thursday** 9:00 – 12:30 pm MEETING, 1:45 – 5:00 pm Luncheon/Meeting

#### Learning Health Systems Work Group (LHS)
- **Tuesday** 9:00 – 10:30 am Joint w/ PC, CIMI
- **Wednesday** 1:45 – 5:00 pm MEETING
- **Thursday** 9:00 – 10:30 am Joint w/ PC, 3:30 – 5:00 pm Hosting: 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, 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
- **9:00 – 10:30 am** Hosting: CIC
- **11:00 – 12:30 pm** Hosting: FHIR-I
- **1:45 – 3:00 pm** Hosting: CGIT
- **3:30 – 5:00 pm** Joint w/ FHIR-I, CDS, II, MnM

#### Tuesday
- **9:00 – 3:00 pm** MEETING
- **3:30 – 5:00 pm** Hosting: II
- **Wednesday** 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** 9:00 – 5:00 pm MEETING
- **Friday** 9:00 – 10:30 am Meeting

#### Patient Administration (PA)
- **Monday** 9:00 – 5:00 pm MEETING
- **Tuesday** 9:00 – 10:30 am Hosting: FHIR-I
- **11:00 – 5:00 pm** MEETING
- **Wednesday** 9:00 – 5:00 pm MEETING
- **Thursday** 9:00 – 10:30 pm MEETING
- **11:00 – 12:30 pm** Hosting: FM
- **1:45 – 5:00 pm** MEETING

#### Patient Care (PC)
- **Monday** 9:00 – 10:30 am MEETING
- **11:00 – 12:30 pm** Hosting: SD
- **3:30 – 5:00 pm** MEETING
- **Tuesday** 9:00 – 10:30 pm Hosting: SD, LHS
- **11:00 – 12:30 pm** MEETING
- **1:45 – 3:00 pm** Hosting: FHIR-I
- **3:30 – 5:00 pm** Hosting: CIC, CQI
- **Wednesday** 9:00 – 10:30 am MEETING
- **12:30 – 1:30 pm** Luncheon/Meeting
- **3:30 – 5:00 pm** Hosting: BR&R
- **Thursday** 9:00 – 10:30 pm Hosting: LHS
- **11:00 – 12:30 pm** Hosting: SD
- **12:30 – 1:30 pm** Luncheon/Meeting
- **1:45 – 3:00 pm** MEETING

#### Pharmacy (Pharm)
- **Monday** 9:00 – 10:30 am MEETING
- **11:00 – 12:30 pm** Hosting: BR&R
- **1:45 – 5:00 pm** MEETING
- **Tuesday** 9:00 – 10:30 pm MEETING
- **11:00 – 12:30 pm** Hosting: FHIR-I
- **1:45 – 5:00 pm** MEETING
- **Wednesday** 9:00 – 12:30 pm MEETING
- **3:30 – 5:00 pm** MEETING
- **Thursday** 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
- **Wednesday** 9:00 – 12:30 pm MEETING

#### Process Improvement (PIC)
- **Wednesday** 11:00 – 12:30 pm MEETING

#### Product Line Architecture (PLA)
- **Friday** 8:00 – 9:00 am MEETING
Meetings

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 – Thursday 9:00 – 5:00 pm MEETING

Publishing
Wednesday 9:00 – 10:30 am Hosting: V2 Management Group
11:00 – 3:00 pm MEETING

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

Templates
Will not meet in May

US Realm Steering Committee
Wednesday 11:00 – 12:30 pm MEETING

V2 Management Group
Monday 11:00 – 12:30 pm MEETING
Wednesday 9:00 – 10:30 am Joint w/ Publishing

Vocabulary (Voc)
Sunday 3:30 – 5:00 pm MEETING
Monday 9:00 – 3:00 pm MEETING
Tuesday 9:00 – 10:30 am MEETING
11:00 – 12:30 pm Hosting: SD
1:45 – 3:00 pm MEETING
Wednesday 9:00 – 10:30 am Hosting: FHIR-I, MnM
11:00 – 12:30 pm Hosting: MnM
1:45 – 5:00 pm MEETING
Thursday 9:00 – 10:30 am Hosting: CGIT, InM
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
“EARLY BIRD” RATE DEADLINE — Advance meeting registration, including payment, is required by April 12, 2019 to receive the discounted rates. Otherwise the full fee structure will apply. Consult the registration form (pages 22-24) for a schedule of meeting fees.

TO REGISTER — Online registration is available via our website (www.HL7.org). For your convenience, you can pay via a credit card directly from the site or print the registration form and mail it along with payment.

You may also register by completing the registration form on pages 22-24 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 balance dues 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 April 19. 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 24 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 — 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 May 2019 International Conference and Working Group Meeting will be held at:

LE CENTRE SHERATON MONTRÉAL HÔTEL
1201, boulevard René-Lévesque Ouest
Montréal (Québec) H3B 2L7, Canada

Hotel Phone Direct: +1 (514) 878-2000
Reservations: +1 (800) 325-3535
Hotel guest services: +1 (514) 878-2043
Fax: +1 (514) 878-3958
Website: sheratoncentremontreal.com

To reserve your room, the hotel has set up a special website registration process just for HL7 attendees. HL7 attendees should log on to http://www.marriott.com/events/start.mi?id=1547144576625&key=GRP and follow the reservation instructions. For hotel reservations call +1 (800) 325-3535. Be sure to mention Health Level Seven (HL7) to receive the discounted room rate of $257 CAD, per night for 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. Please remember there are a limited number of rooms available at the discounted rate, so reserve your room early.

Discounted room rates are available only on reservations made before April 12, 2019. Room rates are subject to all applicable state and local taxes in effect at time of check in.

NOTE: There is no link for government rooms, since the rate is higher than our discounted regular room rate.

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 three days you will be charged one night reservation fee.

GROUND TRANSPORTATION — Montreal is serviced by the Pierre-Elliott-Trudeau International Airport which is located only 17 minutes from our downtown Montreal hotel (11 miles / 18 km) and easily accessible by Montreal transportation.

Transportation to and from Le Centre Sheraton Montreal hotel is hassle-free. Please note that these prices are quoted in Canadian Dollars and are subject to change.

- Pierre-Elliott-Trudeau International Airport:
  $38 CAD by taxi
  $55 CAD by limousine
- Train station is located 3 blocks from the hotel
- Arrangements can also be made for private transfers from and to the Airport. We will be happy to assist you with recommendations.

PARKING —
- $25 CAD / day for self-parking with in/out privileges
- $32 CAD / day for valet service

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!
1. Contact Information

End of day on April 12, 2019 is the deadline for Early Bird fees. All advance registrations must be received by end of day on April 19, 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

☐ First-Time WGM Attendee  

☐ Student

☐ HL7 Board Member  

☐ Tutorial Speaker

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: ________________________________________________________________
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 that require additional fees.

**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.

- Members
  - By 4/12: $965
  - After 4/12: $1,255
  - After 4/12: $1,450
  - After 4/12: $1,880
  - Amount Due: $ __________

**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.

- Members
  - By 4/12: $810
  - After 4/12: $1,100
  - After 4/12: $1,215
  - After 4/12: $1,650
  - Amount Due: $ __________

**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.

- Members
  - By 4/12: $230/day
  - After 4/12: $305/day
  - After 4/12: $345/day
  - After 4/12: $460/day
  - Amount Due: $ __________

**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.

- Members
  - Participant: $450
  - Observer: $550
- Non-Members
  - Participant: $550
  - Observer: $650

**HL7 FHIR Experience:**
This event requires meeting registration to attend. Please be sure to register for Wednesday and Thursday above.

- Members
  - By 4/12: $370
  - After 4/12: $720
  - After 4/12: $1,090
  - After 4/12: $1,650
  - Amount Due: $ __________

**Deadline for Discounted Rates:** Payment must be received by April 12, 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.

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

A lunch ticket will be included in your registration packet.
Meeting Registration Form

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.

<table>
<thead>
<tr>
<th>Day</th>
<th>Morning Sessions</th>
<th>Afternoon Sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, May 6</td>
<td>☐ Track 3—HL7 Process: Orientation for First-Time Attendees — FREE TUTORIAL (F1) — Must sign up to attend this tutorial (Please check the box.)</td>
<td>☐ Track 2—Introductory Topics: Introduction to HL7 FHIR for Software Developers (M5)</td>
</tr>
<tr>
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<td>☐ Track 3—HL7 Process: ISO IDMP, Substances and Allergies — FREE TUTORIAL (F2) — Must sign up to attend this tutorial (Please check the box.)</td>
<td>☐ Track 2—Introductory Topics: Introduction to CDA (M6)</td>
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<td>☐ Track 1—FHIR in Depth: HL7 FHIR Using SMART &amp; CDS Hooks (M1)</td>
<td>☐ Track 2—Introductory Topics: Introduction to HL7 FHIR (French) (M3)</td>
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<td>☐ Track 2—Introductory Topics: Introduction to HL7 Standards for Interoperability (M2)</td>
<td>☐ Track 2—Introductory Topics:</td>
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<td></td>
<td>☐ Track 2—Introductory Topics: Introduction to FHIR (French) (M3)</td>
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</tr>
<tr>
<td>Tuesday, May 7</td>
<td>☐ 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.)</td>
<td>☐ Track 1—FHIR in Depth: Designing and Architecting HL7 FHIR Solutions (T7)</td>
</tr>
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<td></td>
<td>☐ Track 3—HL7 Process: How to Get HL7 Certified — FREE TUTORIAL (F4) — Must sign up to attend this tutorial (Please check the box.)</td>
<td>☐ Track 1—FHIR in Depth: Using SNOMED CT with HL7 FHIR (T8)</td>
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<tr>
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<td>☐ Track 3—HL7 Process: Help with Confluence — FREE TUTORIAL (F5) — Must sign up to attend this tutorial (Please check the box.)</td>
<td>☐ Track 1—FHIR in Depth: Clinical Genomics Using FHIR (T9)</td>
</tr>
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<td>☐ Track 1—FHIR in Depth: Mapping V2 &amp; CDA to FHIR (T10)</td>
<td>☐ Track 1—FHIR in Depth:</td>
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<td>☐ Track 1—FHIR in Depth: HL7 FHIR Profiling (T11)</td>
<td>☐ Track 2—Introductory Topics:</td>
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<td>☐ Track 1—FHIR in Depth: FHIR Security: Think Like a Hacker (T12)</td>
<td>☐ Track 2—Introductory Topics:</td>
</tr>
<tr>
<td>Wednesday, May 8</td>
<td>☐ Track 3—HL7 Process: GS1 Standards for Supply Chain Meets HL7 — FREE TUTORIAL (F6) — Must sign up to attend this tutorial (Please check the box.)</td>
<td>☐ Track 1—FHIR in Depth: Understanding and Using Terminology in HL7 FHIR (W15)</td>
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<td>☐ Track 1—FHIR in Depth: HAPI on FHIR (WT3)</td>
<td>☐ Track 1—FHIR in Depth:</td>
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<td>☐ Track 1—FHIR in Depth: C-CDA on FHIR (WT4)</td>
<td>☐ Track 2—Introductory Topics:</td>
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<td>☐ Track 1—FHIR in Depth:</td>
<td>☐ Track 2—Introductory Topics:</td>
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<td>☐ Track 2—Introductory Topics: Introduction to C-CDA 2.1 (WT6)</td>
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</tr>
<tr>
<td>Thursday, May 9</td>
<td>☐ Track 3—HL7 Process: Newly Elected Co-Chair Training — FREE TUTORIAL (F7) — Must sign up to attend this tutorial (Please check the box.)</td>
<td>☐ Track 2—Introductory Topics: The Ins and Outs of the FHIR Medical Record (TH19)</td>
</tr>
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<td></td>
<td>☐ Track 1—FHIR in Depth: HL7 FHIR for Clinical and Administrative Workflows (TH17)</td>
<td>☐ Track 2—Introductory Topics:</td>
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<td>☐ Track 2—Introductory Topics: Introduction to HL7 FHIR for Healthcare Leadership (TH18)</td>
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<td>☐ Track 2—Introductory Topics:</td>
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</tbody>
</table>

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)  ☐ Visa  ☐ Master Card  ☐ American Express  ☐ Discover

Number:  Expiration Date:  Billing Zip Code:

Name on Card (Please Print):
Upcoming Events

Redmond, WA
June 10 – 12, 2019
HL7 FHIR DevDays
Microsoft Conference Center

Atlanta, GA
September 14 – 20, 2019
33rd Annual Plenary & Working Group Meeting
Atlanta Marriott Marquis

Sydney, Australia
February 1 – 7, 2020
Working Group Meeting

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
Is it any wonder that a city as creative and stylish as Montreal was designated UNESCO City of Design? Places such as the Quartier international, a showcase of modern design, art and architecture at the heart of downtown, testify to Montreal’s avant-garde character. Hundreds more examples of our innovation and free-spiritedness flourish in fashion boutiques and interior and industrial design spaces all over the city.

In 2007, Montreal was the first urban center to sign the National Geographic Society’s Geotourism Charter. One look at the city’s compact downtown that hums 24/7, with wonderfully preserved Old Montreal at its feet and beautifully landscaped Mount Royal Park as a backdrop, provides a hint. Encircling the “Mountain” are cozy, charming neighborhoods, each with their own commercial centers and three-story row housing. The Metro easily services this area and beyond. Montreal’s four seasons provide the typical northeastern changes of scenery, and has the facilities for every summer and winter sport imaginable.

Renowned for its sensational and original restaurants and as a center for French cuisine par excellence, Montreal is part of a select group of 15 cities to join the prestigious World Good Food Cities Network in 2007. Over 80 different kinds of food are served in 6,000 restaurants, from 5-star to soul-comforting smoked-meat counters.

Montreal is the most bilingual metropolis in North America and the second largest French-speaking city in the world after Paris. Located on an island in the middle of the St. Lawrence River, it was colonized by the French and later the British. Today, the population of Greater Montreal is approximately 3.6 million, with 53% of its inhabitants bilingual (French and English) and 20% using a third language (in addition to French and English). Montreal ranked first for university research in Canada – a small wonder for a city with two French-language and two English-language universities!

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