EHR WG Agenda/Minutes 2022-09-13

HL7 Electronic Health Record Work Group Weekly Conference Call

Every Tuesday 1900 UTC; 1500 ET US; for 60 minutes

To join the HL7 EHR WG Meeting via Zoom:  https://zoom.us/j/5860741097?pwd=K0l4Yzk5Yy9BcFc5SlZoOTIzb0dmdz09

Meeting ID: 586 074 1097
Passcode or Password: 057087
Phone Number: +1 (646) 558-8656 US (New York)  Find your local number: https://zoom.us/u/adRxukaOZl

Presiding Co-chair:  TBD
Scribe:  Mark G. Janczewski, MD, MPH

Attendance

<table>
<thead>
<tr>
<th>Attended</th>
<th>HL7 Members</th>
<th>Confluence ID</th>
<th>Email</th>
<th>Role or Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gary Dickinson, FHL7</td>
<td>Gary Dickinson</td>
<td><a href="mailto:gary.dickinson@ehr-standards.com">gary.dickinson@ehr-standards.com</a></td>
<td>Co-Chair</td>
<td></td>
</tr>
<tr>
<td>John Ritter, FHL7</td>
<td>John Ritter</td>
<td><a href="mailto:johnritter1@verizon.net">johnritter1@verizon.net</a></td>
<td>Co-Chair</td>
<td></td>
</tr>
<tr>
<td>Mark Janczewski, MD, MPH</td>
<td>Mark Janczewski</td>
<td><a href="mailto:mark.janczewski@gmail.com">mark.janczewski@gmail.com</a></td>
<td>Co-Chair</td>
<td></td>
</tr>
<tr>
<td>Michael Brody, DPM</td>
<td>Michael L. Brody</td>
<td><a href="mailto:mbrody@cmeonline.com">mbrody@cmeonline.com</a></td>
<td>Co-Chair</td>
<td></td>
</tr>
<tr>
<td>Steve Hufnagel, PhD</td>
<td>Stephen Hufnagel</td>
<td><a href="mailto:Hufnagel@acm.org">Hufnagel@acm.org</a></td>
<td>Co-Chair</td>
<td></td>
</tr>
<tr>
<td>Pele Yu, MD</td>
<td>Feliciano Yu</td>
<td><a href="mailto:Pele.Yu@archildrens.org">Pele.Yu@archildrens.org</a></td>
<td>Co-Chair</td>
<td></td>
</tr>
<tr>
<td>Michael Van der Zel</td>
<td>Michael van der Zel</td>
<td><a href="mailto:m.van.der.zel@umcg.nl">m.van.der.zel@umcg.nl</a></td>
<td>Interim Co-Chair</td>
<td></td>
</tr>
<tr>
<td>Greg Zeller, DDS</td>
<td>Gregory Zeller</td>
<td><a href="mailto:gzeller@aol.com">gzeller@aol.com</a></td>
<td>Amer. Dental. Assn; Lead, Dental FP Project</td>
<td></td>
</tr>
<tr>
<td>Lincoln Weed, Esq.</td>
<td>Lincoln Weed</td>
<td><a href="mailto:lidweed424@gmail.com">lidweed424@gmail.com</a></td>
<td>Co-Lead, POHR Project</td>
<td></td>
</tr>
<tr>
<td>Chandrakant Bhosale</td>
<td>Chandrakant Bhosale</td>
<td><a href="mailto:chandrakant@bhosalco.in">chandrakant@bhosalco.in</a></td>
<td>Mobile Health WG</td>
<td></td>
</tr>
<tr>
<td>Gora Datta</td>
<td>Gora Datta</td>
<td><a href="mailto:gora@cal2cal.com">gora@cal2cal.com</a></td>
<td>Mobile Health WG</td>
<td></td>
</tr>
<tr>
<td>Becky Gradl</td>
<td>Becky Gradl</td>
<td><a href="mailto:bgradl@eatright.org">bgradl@eatright.org</a></td>
<td>Nutrition Functional Profile</td>
<td></td>
</tr>
<tr>
<td>Matthew Graham</td>
<td>Matthew Graham</td>
<td><a href="mailto:mgraham@mayo.edu">mgraham@mayo.edu</a></td>
<td>Mobile Health WG, Mayo Clinic</td>
<td></td>
</tr>
<tr>
<td>Reed Gelzer, M.D.</td>
<td>Reed D. Gelzer</td>
<td><a href="mailto:r.gelzer@myfairpoint.net">r.gelzer@myfairpoint.net</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roel Barelds</td>
<td>Roel Barelds</td>
<td><a href="mailto:Roel.barelds@precipius.nl">Roel.barelds@precipius.nl</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gheisha-ly Rosario Diaz</td>
<td></td>
<td><a href="mailto:rosrg4@labcorp.com">rosrg4@labcorp.com</a></td>
<td>Labcorp</td>
<td></td>
</tr>
<tr>
<td>Thomas Kessler</td>
<td></td>
<td><a href="mailto:thomas.kessler2@cms.hhs.gov">thomas.kessler2@cms.hhs.gov</a></td>
<td>HHS CMS</td>
<td></td>
</tr>
<tr>
<td>Peter Muir</td>
<td>Peter Muir</td>
<td><a href="mailto:peter@pjmsconsultinginc.com">peter@pjmsconsultinginc.com</a></td>
<td>PJM Consulting</td>
<td></td>
</tr>
<tr>
<td>JD Liddil</td>
<td></td>
<td><a href="mailto:james.liddil@m2gen.com">james.liddil@m2gen.com</a></td>
<td>M2GEN</td>
<td></td>
</tr>
<tr>
<td>Steven &quot;Ike&quot; Eichner</td>
<td></td>
<td></td>
<td>TX Dept of State Services/HITECH</td>
<td></td>
</tr>
</tbody>
</table>

Materials:

Minutes from EHR WG Weekly Teleconferences, located at:  EHR Weekly Teleconference Minutes

Agenda:

VOTING ITEMS
Announcements

1. **HHS ONC has scheduled a Health IT Tech Forum on 9, 16 and 23 Sept, including sessions on Tooling.** See: https://www.healthit.gov/news/events/2022-onc-virtual-tech-forum

HL7 SEPT2022 WGM Planning: **(All)**

1. **Update the EHR WG WGM Agenda Spreadsheet with facilitators, scribes, and alternates for each Quarter.**
2. **Identify speakers, topic-areas, goals and GTM access planned (if any) for each Quarter.**
   a. Need leads for Tuesday Q1 (Joint w/Mobile Health WG), Wednesday Q1 (Joint w/Patient Empowerment, Human and Social Services, Patient Care WGs), Thursday Q1 (Joint w/Clinician Decision Support and Clinical Quality Information WGs)
3. **EHR WG is in "RED" status on the metrics due to 6 ballot infractions.** See: 2022Sep Interim Reports, in particular: https://confluence.hl7.org/download/attachments/108302436/ProjectBallotHealthMetrics_2022SeptWGM_Interim_Updated.xlsx?api=v2
   a. EHR WG discussed on 23 Aug 2022 some of the deficient items in Project Insight:
      i. #1610 (Skin Wound Assessment) should be retired per Dr. Michael Brody, #1352 (Podiatry FP) should be up to speed. Michael Brody to discuss with Dave Hamill.
      ii. #1502 (ISO 13606-3 FHIR IG) has been replaced by #1765 (ISO 13606 and ISO 13940) per Gary Dickinson. #1765 is NOT deficient. So 1502 needs to be cancelled.
      iii. #1768 will be reballed in 2023JAN. It is NOT deficient.
      iv. #1728 (POHR) is active and needs to be finalized prior to publication.
      v. #1501 (RCB) has been balloted (Comment only, so no requirement to reconcile).
      vi. #995 (Usability Guidelines) should be about ready to publish.
      vii. #1688 (Pediatric Care Health IT FP) has been published. This is NOT deficient.
   b. There are also 6 ballot deficiencies
   c. Anne Wizauer and Dave Hamill have been contacted to update project status.

Tooling Update **(Lead: Michael van der Zel)**

1. **EHR-S Usability FP (Project Leads: John Ritter FHL7, David Schlossman MD)**
   a. MvdZ recently posted a new set of tool-compiled documents to the BitBucket, consisting of the UFP Function List (in .pdf, .html, .csv formats). John Ritter will submit the publication package (UFP Overview, UFP Function List) with the request-for-publication.
   b. The spreadsheet should now be ready to go with updated Functions name and Statements. Dave Schlossman, MD passed this on to Michael van der Zel. Michael has been working on this to generate the publication (unless there are any exceptions that arise from Tooling). See EHR-S Usability FP in Project Updates, below.
2. **Base EHR-S FM Model R2.1 (Project Lead: Gary Dickinson FHL7)**
   a. No further tooling requirements at this point.
   b. Michael vdZ has produced the new publication files and has placed in BitBucket. See: https://bitbucket.hl7.org/projects/FM/repos/ehrsfm21fix
   c. MvDZ has produced current version, with completed corrections, graphics update, and update the Overview document.
   d. Needs to be pushed out for Publication.
   a. No updates today. Awaiting update from MvdZ.
   b. Michael vdZ has created the initial draft using the FHIR IG Tool; additional updates need to be applied. Michael and Gary met 25 July to start work on narrowing two profiles and updating them before moving to ballot.
   c. Note: the FHIR publication tool is being used to create the publication documents.
4. **Podiatry FP (Project Lead: Michael Brody)**
   a. No immediate tooling requirement.
   b. Michael vdZ has produced a new, replacement set of publication files as part of the Publication Package. This task is now complete; awaiting F/U with Dr. Brody. See Podiatry FP in Project Updates, below.
5. **Problem-Oriented Health Record (POHR) FP (Project Lead: Lincoln Weed)**
   a. Tooling requirement as specified in 7b below.
   b. Block vote(s) have been approved.
   c. POHR Analysis worksheet has been updated with revisions from ballot reconciliation and JIRA tickets and forwarded to Michael vdZ.
6. **EHR-S FM Release 3 (Project Lead: Gary Dickinson)**
   a. See pending tooling requirement in 6c.
b. Gary and Michael vdZ got together in July with Grahame Grieve to further advance tooling support for this item. This will help us to better link functional requirements to data requirements in general (such as the POHR team is working on). A Zulip Chat has been initiated.

c. Goal is to align tooling with FHIR implementation guide tool/resource.

d. Note that IHE has a parallel/similar request for functional specification within the FHIR IG Tool.

Project Updates (EHR WG Co-Chairs)

   a. Status is the same as reported last week. Work continues.
   b. ISO 13606 is a 5 Part Standard focused on "EHR Communication". ISO 13940 (CONTSYS) specifies a "System of Concepts to Support Continuity of Care".
   c. Project is underway. Three Project Teams meet regularly to develop bidirectional crosswalk. Project Teams are mostly comprised of ISO and CEN folks - one for 13606-1 to/from FHIR, one for 13606-3 to/from FHIR, and another for 13940 to/from FHIR. Soliciting additional FHIR experts to join and review content.

2. EHR System Usability Functional Profile (UFP) (Project Leads: John Ritter, David Schlossman MD)
   a. See above item 1 in Tooling Update. Project is ready for Publication.
   b. John will submit the Publication Request and Package for the EHR-U Usability FP.

3. ISO Adoption of EHR-S FM R2.1 and PHR-S FM R2 (Project Leads: Gary Dickinson and John Ritter)
   a. Status is the same as reported last week. Awaiting John Ritter completion of graphics.
   b. Both EHR-S FM R.2.1 and PHR-S FM R.2 have been approved and published by HL7. At present, ISO versions are previous releases: EHR-S FM R2 (ISO/HL7 10781) and PHR-S FM R1 (ISO/HL7 16527).
   c. Rachel Hawthorne (ISO Secretariat) is working with Gary and Lynn Laakso (HL7 HQ) to advance current Releases to ISO as Release 2.1 and Release 2 respectively. ISO TC215 has agreed to "Fast Track" both items.
   d. Once we have resolved issues of formatting and editing of Overview Graphics (Figures and Diagrams), Rachel will commence a Fast Track ballot of both FMs. ISO National Member Bodies will vote and potentially offer comments. Since this is a Fast Track ballot, comments will be considered but do not require formal reconciliation, corrections excepted.
   e. In the Overview of PHR-S FM R2, John has updated the numbering of Figures 3 and 4. There are also five diagrams that John has now updated and finalized using PowerPoint SmartArt. John still working on finalizing graphics. One item completed in black-and-white and in color; had to reconstruct that item from scratch.
   f. Awaiting determination of next steps with HL7 HQ - produce errata versions of both FMs? Gary will consult with HL7 HQ regarding the correction to the Function list, specifically OV.5 in the EHR-S FM R2.1 Function List.

4. Podiatry FP (Project Lead: Michael Brody DPM)
   a. Awaiting update from Michael Brody.
   b. Dr. Brody is building a new Podiatry Functional Profile and is currently working on the specs and data model. Coding will begin in early Sept2022.
   c. Dr. Brody further invites anyone who is developing a Functional Profile to contact him and investigate the possible use of his new tool.
   d. Note: the new tool supports a Problem-Oriented and also a longitudinal documentation approach. The tool also supports a one-to-many approach for supporting multiple concepts, instead of the (brute force) approach of (redundantly) duplicating each item in order to represent multiple concepts. For example, one medicine can simultaneously treat multiple diseases.
   e. FP was approved for publication by the EHR WG.
   f. Dr. Brody has spoken with Lynn Laakso and Dave Hamill on next steps.
   g. Podiatry will meet during SEPT2022 face-to-face WGM in Baltimore.
   h. Dr. Brody has secured private funding to write up a new Podiatry FP to make it consistent with POHR and has invited Lincoln Weed to the F2F Tuesday Q3 Session at the HL7 WGM in September.

5. Dental Health FP (Project Lead: Greg Zeller, DDS)
   a. Status is the same as reported last week.
   b. Current Dental FP is based on EHR-S FM R2.01 (errata release).
   c. ADA Standards Committee on Dental reviewed marked-up versions of the ADA 1067 Standards, based on EHR-S FM R1.1 - and reaffirmed until 2023.
   e. ISO TC215 WG2 will develop a Dental Data Exchange standard (circa JAN2023 in Japan), including data for dental research.
   f. Next major ADA Standards Committee meeting is F2F in October 2022 in Houston, TX. Will be looking at ADA Technical Report or Standard to look at the implementation of the Dental Data Exchange standard.
   g. Dental FP team to meet at HL7 WGM in SEPT2022, Wednesday Q3.

6. Reducing Clinician Burden Project (Project Co-Facilitators: Gary Dickinson FH7L, David Schlossman MD)
   a. Link to RCB Confluence Page: Reducing Clinician Burden (RCB).
   b. Work continues to develop a White Paper in collaboration with ISO TC215 WG1, identified as ISO 4419 and focused on burden reduction. This will fall under the ISO/HL7 “Collaboration Agreement”. David Schlossman MD is Project Lead. The work item and corresponding resolution has been approved by ISO TC215 WG1. Initial materials include a 2-page Outline, 2-page Overview. The project will build on an existing DRAFT RCB White Paper. ISO National Member Bodies (35 member bodies participating plus over 30 more observing nations) have now responded and have designated six experts to work on this project. This is targeted as an ISO Technical Report (informative) with a corresponding HL7 White Paper.
   c. Main RCB upcoming sessions:
      i. 19 Sep 2022 at HL7 WGM in Baltimore: RCP Project updates (Monday Q3) plus "Galileo Project" by Ed Hammond from Duke University (Monday Q4).
      ii. Other September meetings (i.e., 2nd and 4th Mondays) suspended at this time, resuming on Monday, 10 October 2022, at 3PM ET.
      iii. Monday, 10 Oct 2022, 3-4PM ET: Jobst Landgrebe will present his work related to Natural Language Processing (AI topic).
      d. Medication List Management and Reconciliation Focus Team. Co-Leads: Reed Geizer MD and James Tcheng, MD. Will need a PSS once deliverables have been decided on. Members of the HL7 Pharmacy WG and NCPDP have joined this Focus Team. Meets every other Thursday at 5PM ET.
      e. Artificial Intelligence (AI) Focus Team sessions 2nd and 4th Tuesdays each month, 1600-1700 ET US (Note: no meetings during September 2022 for RCB and AI projects; resuming on 11 October 2022 at 4PM ET); Uses GoToMeeting.
7. **Problem-Oriented Health Record (POHR) Project** (#1831) (Project Leads: Lincoln Weed JD, Charles Burger MD, Ryan Mullins MD)

- **Ballot reconciliation was approved via block vote 23 AUG 2022.**
- Lincoln Weed intends to discuss upcoming work with Dr. Genny Luersen (and will review NIOSH concerns).
- Once comment responses have been updated into JIRA, the publication process can proceed.
- POHR alternates with RCB, meeting the 1st and 3rd Mondays each month at 1500 ET US time slot.
- Last meeting on Monday, 29 Aug 2022. Presentation by co-lead Charlie Berger MD regarding decision support tool to triage new patients as a Use Case relative to POHR. Presentation and related material have been posted to the POHR Confluence page (see link above).
- POHR meetings in September will be held Tuesday Q4, 20 Sept 2022 at HL7 WGM in Baltimore, and then on Monday 26 Sept 2022, at 1500 ET for 60 minutes.
- POHR Analysis Worksheet now updated with revisions from ballot disposition results. Updating await from Michael VDZ to POHR Functional List.
- Lincoln continuing to work on the POHR Care Plan and aspect, the FHIR Correspondence aspect, and other issues for future meetings.

8. **Pediatric Care Health IT Functional Profile (PCHITFP) (Project Lead: Pele Yu MD)**

- **Awaiting update from Pele Yu MD.**
- Determine how PCHIT FP can find pathway to an ANSI Standard.
- Drummond Group has engaged three different EHR vendors with Pediatric modules in doing demonstration projects with the aim toward certification.
- To help get this FP implemented, Dr. Yu is working with legal department at Univ. of Ark. Children's Hospital looking to get a "client validation model" as an example of implementation with one of the largest EHR vendors. This will help start to show where and how FM FP standards are being implemented on different platforms, a.k.a., a "market evaluation" and identify any gaps.


- Awaiting update from MvdZ; will discuss at SEPT2022 HL7 WGM in Baltimore.
- Current target is FHIR R.4.0.1. It has been requested to be made an independent IG by FHIR Infrastructure Group, instead of its current placement in FHIR Core R.4. Provenance and AuditEvent are the two FHIR resource profiles need to be reviewed and updated. Gary collaborating with MvdZ on this item; awaiting MvdZ actions.
- Michael vdz has set up the first draft using FHIR IG Tool. See: [https://build.fhir.org/ig/HL7/ehrs-rle-ig/](https://build.fhir.org/ig/HL7/ehrs-rle-ig/)
- Likely to be balloted in JAN 2023 cycle.

10. **Mobile Health Work Group’s SHIFT (School Health Innovation Framework leveraging Technology) Project** (Project Leads: John Ritter, Gora Datta)

- **Status the same as reported last week.**
- The project team leaders will meet during the HL7 WGM in September 2022 on Thursday Q1, Q2, Lunch, and Q3. Continuing to plan the F2F WG Agenda. Invitation to potential attendees is being generated from the SHIFT project via LinkedIn.
- They have developed a one page "flyer". They are now working on a 5-page Executive Summary using the ISO "Parthenon" Framework for images and hope to complete that soon.
- Danielle Sill (PHTF) polished the Executive Summary. Artwork will be added by John. The document will be shared with SEPT2022 HL7 WGM invitees.
- The SHIFT White Paper will be about 80 pages.
- With respect to SHIFT, John asked the WG to think about the creation of a "School Functional Profile" or profiles that could include SDOH or other areas.
- John reviewed "Brainstorming an Agenda for the Sep2022 WGM" and discussed some ideas the upcoming three (3) sessions at the WGM.
  - John reviews opportunity for schools to move school-based health from paper to digital health records. Seeking thought leaders to move the agenda forward across industry. SHIFT project lays the groundwork for the school-based requirements.
  - Mark Janczewski requested information from Jonathan Linkous, former President of the American Telemedicine Association, about studies on school-based Telehealth. Seeking thought leaders to participate. PCHIT FP can find pathway to an ANSI Standard.
  - Jonathan responded with the following resources:

---

**EHR-S FM R3 (EHR WG Co-Chairs) - Deferred to Baltimore**

1. During the May 2022 Virtual HL7 WGM there was a session devoted to EHR-S FM R3. Please see the following link for minutes to that session, that describes the EHR-WGs thoughts on moving forward in developing the new Release 3 of the EHR-S FM standard. [https://confluence.hl7.org/download/attachments/90342055/D4Q3%20%28Thursday%29%20HL7%20WGM%20Minutes%20EHR-S%20FM%20R3%20Planning%202022-05.docx?version=2&modificationDate=1652457871394&api=v2](https://confluence.hl7.org/download/attachments/90342055/D4Q3%20%28Thursday%29%20HL7%20WGM%20Minutes%20EHR-S%20FM%20R3%20Planning%202022-05.docx?version=2&modificationDate=1652457871394&api=v2)

---

**EHR WG Event and Parking Lot Discussions - Deferred** (NOTE: Unless otherwise specified all conference calls use the same Zoom meeting link as listed at the top of this document)

1. **EHR WG PBS (Project / Ballot Status) metrics**
   - See note above in HL7 2022SEP WGM Planning, item #3.
b. EHR WG is in "RED" status in the 2022SEPT Metrics. We have 6 ballots with deficiencies: unpublished (1), without reconciliation packages (2), and idle (3); as well as 6 deficient items in the Project Insight tracking sheet.

c. Note that there are two work items that have completed ballot and reconciliation but are not yet published: 1) EHR-S Usability FP, 2) Podiatry FP. This may constitute the reason for the "RED" metric. All other required items are "green" (up to date).

2. Inactive Projects - All inactive and complete projects where we are primary sponsor have been addressed. However there remain several projects that appear to be inactive and where EHR WG is a co-sponsor. We are working with designated project leads and/or the sponsoring WG to get these items properly status(ed).

3. Governing Documents: We will have to address some updates down the road, dating back to March-May 2019 and needing renewal by 2024.

4. Standard Personal Health Record Project - ACTIVELY TRACKING
   a. Patient Empowerment has developed a PSS (https://jira.hl7.org/browse/PSS-2088). Since it is a "health record" proposal based on the PHR-S FM, the project should be sponsored by the EHR WG and co-sponsored by Patient Empowerment and others. We have long advocated end-to-end health data/record management to ensure trust, data integrity and fidelity. Storage (as described in this PSS) fits into that approach. We have maintained the Record Lifecycle Event Standards as part of the RI Sections of both the EHR and PHR System Functional Models, also included in the FHIR Record Lifecycle Event IG (http://hl7.org/fhir/ehrsrle/ehrsrle.html). The RLEs are also a key part of ISO 21089 “Trusted End-to-End Information Flows”.
   b. The EHR WG reviewed the response earlier this June 2022 that Gary and Lincoln drafted, and accepted and posted it to the JIRA page for PSS 2088.
   c. Will await to see how this progresses as there are multiple comments having so far been made to this PSS, which is still awaiting approval.
   d. Will work closely with Patient Empowerment (PE) WG

5. Meetings – Unless otherwise specified these all use the GoToMeeting platform
   a. Podiatry FP: Most Fridays at 1200 ET US; on hold for the moment (uses GoTo Meeting).
   b. Reducing Clinician Burden (RCB) Main meeting: 2nd and 4th Mondays each month at 1500 ET US (alternating with the POHR meetings). Uses GTM.
   c. RCB Medication List Management and Reconciliation team meets every other Thursday at 1700 ET US (uses GTM).
   d. RCB AI meetings: 2nd and 4th Tuesdays each month 1600-1700 US ET (uses GTM).
   e. Problem-Oriented Health Record Focus Team meets 1st and 3rd Mondays each month at 1500 ET US (alternating with the RCB meetings) (uses GTM)

6. Re-envisioning HL7 WGM EHR Mega Report-Out - Discuss whether/how to conduct future EHR WG Mega Report-Out sessions at upcoming HL7 WGMs. We will defer Mega report out to F2F in January 2023.
   a. Suggest leverage HL7 Confluence EHR WG page to coordinate "mega-report" process; but requires a lot of coordination across interested parties.
   b. We have suspended the Mega Report Out sessions in the absence of face-to-face Working Group meetings. In Baltimore, we plan to consider this decision again.

Adjourned at: xx:xx US ET

Next meeting: 19-22 Sep 2022 during HL7 WGM in Baltimore

< End of document >