



# CAQH CORE Attachments Webinar Series Part 1

## Laying the Foundation for Electronic Healthcare Attachments

Thursday, March 2, 2017

2:00 – 3:00 pm ET

# Logistics

## Presentation Slides & How to Participate in Today's Session

- **Download a copy of today's presentation slides at [www.caqh.org/core/events](http://www.caqh.org/core/events).**
  - Navigate to the Resources section for today's event to find a PDF version of today's presentation slides.
  - Also, a copy of the slides and the webinar recording will be emailed to all attendees in the next 1-2 business days.
- The phones will be muted upon entry and during the presentation portion of the session.
- At any time throughout the session, you may communicate a question via the web.

Questions can be submitted **at any time** with the **Questions panel on the right side of the GoToWebinar desktop**.

### Resources

- [Presentation Slides](#)

The screenshot shows the GoToWebinar desktop interface. At the top, there is a menu bar with 'File', 'View', and 'Help'. Below this, there are two main panels. The first panel is titled 'Audio' and contains options for 'Telephone' (unselected) and 'Mic & Speakers' (selected). A 'MUTED' indicator is visible next to a volume slider. The second panel is titled 'Questions' and contains a text input field with the placeholder text '[Enter a question for staff]' and a 'Send' button. A red box highlights the 'Questions' panel, and a red arrow points from the text box on the left to this panel. At the bottom of the interface, there is a status bar with the text 'Webinar Housekeeping' and 'Webinar ID: 275-918-366', and the 'GoToWebinar' logo.

# Thank You Speakers!

**CAQH CORE would like to thank our guest presenters for today's webinar.**



**Liora Alschuler, CEO**  
Lantana Consulting Group

**Rick Geimer, CTO**  
Lantana Consulting Group

# Session Outline

- CAQH CORE Overview
- Definitions and Overview of Industry Standards
- Virtual Dialog
- Audience Q&A

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# CAQH CORE Overview

**Robert Bowman**  
CAQH CORE Associate Director

# Attachments Background & CAQH CORE Activities

- The lack of electronic attachments remain a massive pain point for providers and health plans. Resolving this pain point remains a critical goal for CORE given the CORE mission.
  - Electronic attachments should be a work-flow friendly reality for our healthcare system
  - This CORE goal holds true whether there are mandates in the area of Attachments, and/or solely industry-led change
- Regulations for administratively-focused attachments have yet to be issued.
  - The initial HIPAA regulation called for an Claim Attachment standard almost twenty years ago.
  - [ACA Section 1104](#) requires the Secretary of Health and Human Services (HHS) to adopt a standard, and applicable operating rules, for the health claims attachments transaction. HHS has not adopted a standard for health claims attachments or indicated what standard(s) it might consider for the transaction. No HHS timeline is available on when a mandate may occur.
- There has been some regulatory activity related to clinically-focused attachments.
  - Connecting clinical and administrative efforts will be critical to developing a meaningful roadmap to reach the stated goal.

# Attachments Background & CAQH CORE Activities

- The [2016 CAQH Index report](#) – which is based on data from over 5.4B transactions – reported on adoption and cost of electronic claim transactions for the first time. Key findings:
  - Only six percent of healthcare claim attachments are submitted to medical health plans electronically, with the remaining sent either via fax or mail.
  - The adoption of electronic claim attachments is isolated, as most medical health plans report 100% of claim attachments are submitted manually.
  - In labor alone, over a half-billion dollars could be saved by the industry by claim attachment adoption.
  - Only use of the X12 standard for claim attachments was reported by participating health plans; no use of the HL7 standard for claim attachments was reported.
- There remains a wide range of opinions on what standards would serve the industry best with regard to electronic attachments.
  - Meaningful Use requires electronic health records (EHRs) to use the HL7 standard used for clinical attachments; currently no authoritative benchmark data is available on the adoption of this standard for EHRs.

# Attachments Background & CAQH CORE Activities

- Over the past several years, CAQH CORE has conducted extensive research to understand the current environment and where stakeholders are in the adoption of electronic attachments.
  - Regularly attend and monitor standard setting organization meetings.
  - Helped support the evolution of the CAQH Index to track Claim Attachments.
  - Conducted an assessment to identify business needs, data content and format requirements, technical infrastructure, and priorities for the exchange of administrative attachments/additional information.
  - Held listening sessions with over 300 participants to continue dialogue, discuss trends, and obtain data from current industry activities and experience. The findings of this research indicate that the vast majority of entities are still using paper to provide clinical data on a claim or other administrative transactions, and, when attachments are electronic, the most common formats are PDF, JPG, TIF, and Word.
- CORE was designated by HHS as the operating rule author for claims attachments.
  - Operating rules always support recognized standards. To date, CORE has appropriately waited to formally move forward with this role given the pending expectation that a mandated standard would be issued.
  - The opportunity areas for operating rules related to Attachments are significant – and vary a bit depending on the attachment standard(s).



# CAQH CORE Operating Rules on Attachments

## *Development Status*

- Based on its initial environmental scan, CAQH CORE has stated its public support for an incremental, flexible use of operating rules to move attachments from paper to electronic documents
  - This same concept was recommended by the National Committee on Vital and Health Statistics (NCVHS), a federal advisory committee to HHS, in its [June 21, 2013](#) letter. NCVHS did recommend that HHS adopt the HL7 standard for claim attachments.
- Based on CAQH CORE research, it is evident that industry-wide education will be key given the current level of knowledge of specific attachment-related standards such as HL7 C-CDA.
  - CAQH CORE will support such industry education and coordinate with key stakeholders.
  - CAQH CORE decided to partner with Lantana Consulting Group on a series of educational/listening sessions during 2017 to gain current and specific insights into industry knowledge/use.
  - **NOTE:** Lantana's position on specific standards do not represent CAQH CORE.
- After these sessions and using other data points, CORE will be assessing how to move the needle forward in this area via industry-led efforts.

# Relationship of Operating Rules to Attachment Standards

- Operating rules can provide business directions:

**to better use *HIPAA and other healthcare standards, including,***

ASC X12, DICOM, and HL7.

**requiring use and recognizing *industry neutral standards, including,***

PDF, TIF, HTTPS, and WC3.

- CAQH CORE key criteria for development of attachment operating rules include:
  - Ensuring operating rules work in unison with the HIPAA-mandated financial and administrative transactions; do not repeat or contradict standards.
  - Aligning operating rules for administrative standards with those for clinical standards (e.g., federal incentives for meaningful use of EHR).
  - Addressing most common business scenarios that would improve return on investment.
  - Filling gaps created by flexibility in standards.
  - Building off existing momentum to encourage feasible progress, not least common denominator.

# Audience Poll #1

**Do you process attachments for claims today? If so, what methods of submission do you use/support? (Select all that apply.)**

1. Mail
2. Fax
3. Upload through a payer portal
4. Electronic submission by a clearinghouse or vendor solution
5. Other

# Audience Poll #2

**Do you process attachments for referrals and prior authorizations today? If so, what methods of submission do you use/support? (Select all that apply.)**

1. Mail
2. Fax
3. Upload through a payer portal
4. Electronic submission by a clearinghouse or vendor solution
5. Other

# Definitions and Overview of Industry Standards

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**Rick Geimer**  
Lantana CTO

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# Definitions and Use Cases of Attachments in the Industry

- Definitions:

- Informally: That which you need to know which was not supplied in the claim.
- CMS\*: “Claim attachments are supplemental documents providing additional medical information to the claims processor that cannot be accommodated within the claim format. Common attachments are Certificates of Medical Necessity (CMNs), discharge summaries, and operative reports.”

- Uses: % current usage\*\*

- |                         |     |
|-------------------------|-----|
| 1. Claims/Reimbursement | 83% |
| 2. Prior authorization  | 3%  |
| 3. Referral             | 3%  |
| 4. Audit                | 11% |

Uses 1-3 may include unsolicited or solicited; audit consists of solicited only.

\*<https://www.cms.gov/Medicare/Billing/ElectronicBillingEDITrans/ClaimsAttachments.html>

\*\*Cooperative Exchange, June 2016 NCVHS testimony

# Public Discussion on Attachments

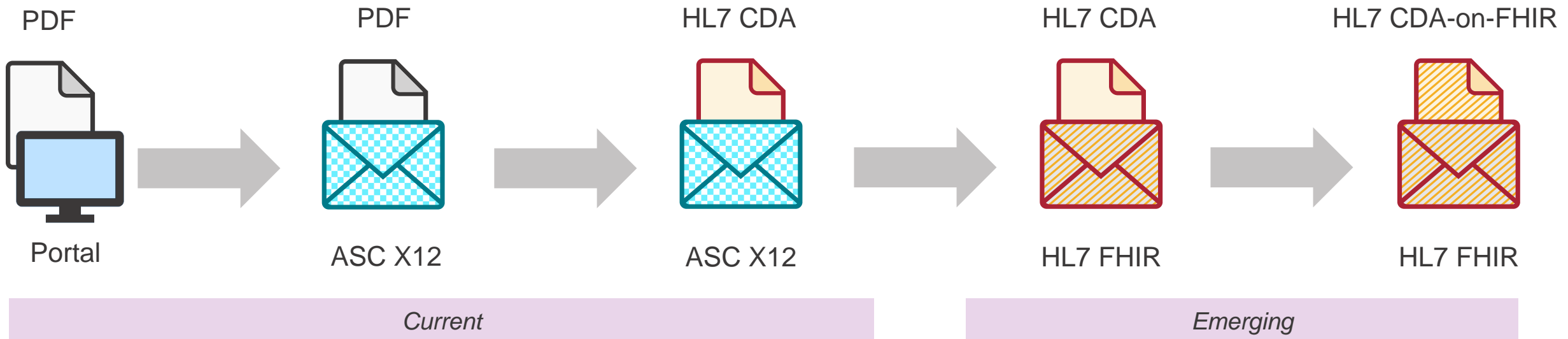
This Overview is based on consensus emerging via NCVHS testimonies, letters to the HHS Secretary, and developments within the SDOs:

- Adopt standards for Attachments Request, Response, Electronic Clinical Document, and Acknowledgments.
- Utilize incremental adoption and implementation approach.
- Ensure alignment with:
  - Electronic Health Record (EHR) Incentive Program
  - Medicare Access CHIP Reauthorization Act of 2015 (MACRA)/Merit-Bases Incentive Payment System (MIPS)

# Overview of Standards

## Big Picture

- Message & attachment
  - Message is considered the envelope
  - Messaging standards: ASC X12, HL7 FHIR® (Fast Healthcare Interoperability Resources)
  - Attachment is the clinical content: PDF, HL7 CDA (Clinical Document Architecture)
- Messaging standards can evolve independently from the attachment standard
- Potential end-state unifies the syntax and semantics under HL7 FHIR





# Relevant X12 Standards

## *Relating to Attachments/Additional Documentation*

- ASC X12 Standards and Technical Reports
  - Base Standards:
    - > ASC X12 277 Health Care Information Status Notification
    - > ASC X12 275 Patient Information
    - > ASC X12 278 Health Care Services Review Information
  - Technical Report Type 3 (TR3):
    - > ASC X12N 277 Health Care Claim Request for Additional Information
    - > ASC X12N 275 Additional Information to Support a Health Care Claim or Encounter
    - > ASC X12N 278 Health Care Services Review – Request for Review and Response
    - > ASC X12N 275 Additional Information to Support a Health Care Services Review

# Anticipated Attachment Standards

## *HL7 Electronic Documents*

- Base Standard: HL7 Clinical Document Architecture (CDA Release 2.0, 2005)
- HL7 CDA Implementation Guides
  - Consolidated CDA (C-CDA)
  - Quality Reporting Document Architecture (QRDA)
  - National Healthcare Safety Network Healthcare Associated Infection Reports
- HL7 Attachment Implementation Guide:
  - Additional rules for using CDA as attachments
  - Constrains set of allowable attachments
    - > Must use common metadata set (US Realm Header)
    - > Includes Consolidated CDA (C-CDA), other clinical documents
    - > Includes any content as C-CDA Unstructured Document
    - > Set can be extended without revision to rules, if using US Realm Header

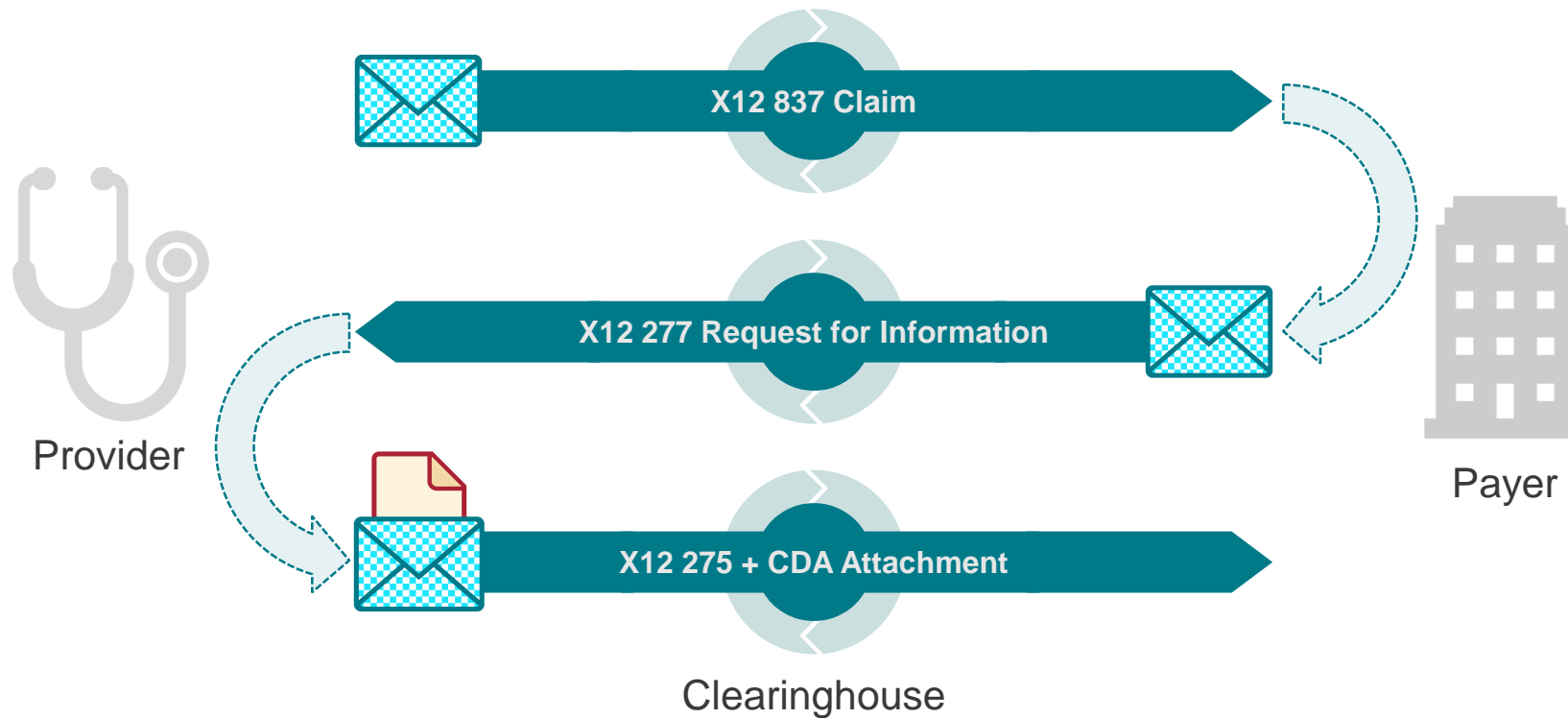
# Key Components and Basic Workflow

- Idealized orchestration: Unsolicited Claims Attachment



# Key Components and Basic Workflow

- Idealized orchestration: Solicited Claims Attachment



# Attachment Standards

## *Unstructured Body – PDF vs. CDA*

### ■ ***Why not just send PDF and rely on the X12 275 envelope for required metadata?***

#### ■ Pro PDF:

- Format standard under ISO
- Scan-to-PDF for paper attachments available off-the-shelf
- Large scale use today
- Ease of use – simple
- No standard semantics for health information

#### ■ Pro CDA:

- Standard under ISO, ANSI
- Scan-to-Unstructured CDA, also available off-the-shelf
- Supplies metadata unavailable in the PDF+275
  - > Globally unique document identifier (ID)
  - > Authentication status and authenticator
  - > Document completion date
  - > Optional: Rich patient, provider demographics, effective time of encounter/service, etc.
- Required for Meaningful Use certification
- Consistent with health exchanges, EHR interoperability, and reporting requirements
- Piloted as an electronic attachment for over ten years
- Evolutionary step to structured and coded CDA which support automated processing

# Attachment Standards

## HL7 CDA

- Header + Body = metadata + clinical report
- Header is simple XML
- Required for all CDA:
  - Document metadata (document id, type code, title, creation date, confidentiality, language)
  - Patient
  - Author
  - Provider organization (custodian)
- Required for all CDA attachments:
  - Legal authenticator
  - Note: Some attachment types may require additional information on participants.
- Body may be unstructured or structured

```
<ClinicalDocument xmlns="urn:hl7-org:v3">
  <id root="c2aa3f41-9b28-4dc8-acd4-aa9090f40c6a"/>
  <code code="34133-9"
        codeSystem="2.16.840.1.113883.6.1"/>
  <title>Patient Chart Summary</title>
  <effectiveTime value="201308151030-0800"/>
  <confidentialityCode code="N"
        codeSystem="2.16.840.1.113883.5.25"/>
  <recordTarget>
    <patientRole>
      <addr use="HP">
        1357 Amber Drive, Beaverton, OR 97867
      </addr>
      <telecom value="tel:+1(555)555-2003"/>
      <patient>
        <name>
          <given>Eve</given>
          <family>Everywoman</family>
        </name>
        ...
      </patient>
    </patientRole>
  </recordTarget>
</ClinicalDocument>
```

# Attachment Standards

## Unstructured CDA

- XML Header
- Unstructured CDA Body
  - Text: DOC/DOCX, PDF, Text, RTF, HTML
  - Image: GIF, TIF, JPEG, PNG

```
[CDA Header]
+
<component>
  <nonXMLBody>
    <text>
      <reference value="UD_sample.pdf"/>
    </text>
  </nonXMLBody>
</component>
```

- 95% of electronic attachments are unstructured today

The screenshot displays a medical document titled "COMMUNITY HEALTH AND HOSPITALS: DISCHARGE SUMMARY (UD)". At the top, it identifies the patient as Henry Levin and the document type as "Physician Discharge summary". The patient's information includes "Henry Levin", "Patient Identifier 12345 MRN", and "ABOUT" details such as "Date of Bi", "Sex", "Race", and "Ethnicity". The author is listed as "AUTHOR Henry Seve". The main content includes the hospital name "Community Health Hospital", "Discharge Summary", "Patient ID: 12345", "Patient Name: Levin, Henry L.", and "Date of Discharge: 03/26/2009". The "Description" states: "Acute cerebrovascular accident/left basal ganglia and deep white matter of the left parietal lobe, hypertension, urinary tract infection, and hypercholesterolemia." The "DISCHARGE DIAGNOSES" are: "1. Acute cerebrovascular accident/left basal ganglia and deep white matter of the left parietal lobe.", "2. Hypertension.", "3. Urinary tract infection.", and "4. Hypercholesterolemia." The "PROCEDURES" section lists: "1. On 3/26/2009, portable chest, single view. Impression: atherosclerotic change in the aortic knob.", "2. On 3/26/2009, chest, portable, single view. Impression: Mild tortuosity of the thoracic aorta, maybe secondary to hypertension; right lateral costophrenic angle is not evaluated due to positioning of the patient.", "3. On March 27, 2009, swallowing study: Normal swallowing study with minimal penetration with thin liquids.", "4. On March 26, 2009, head CT without contrast: 1) Air-fluid level in the right maxillary sinus suggestive of acute sinusitis; 2) A 1.8-cm oval, low density mass in the dependent portion of the left maxillary sinus is consistent with a retention cyst; 3) Mucoparietal cell thickening in the right maxillary sinus and ethmoid sinuses.", and "5. IV contrast CT scan of the head is unremarkable." The document is viewed in a browser window showing "Page: 1 of 3" and "Automatic Zoom".

# Attachment Standards

## Structured CDA

- Structured = XML
  - May be simple HTML-like markup
  - Variable degree of structure
  - Optional standard or local terminologies

```

<section>
  <code code="48765-2" codeSystem="2.16.840.1.113883.6.1"
  codeSystemName="LOINC"/>
  <title>ALLERGIES AND ADVERSE REACTIONS</title>
  ...
  <observation classCode="OBS" moodCode="EVN">
    ...
    <value code="419199007"
    displayName="Allergy to substance"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"/>
    ..
    <playingEntity classCode="MMAT">
      <code code="70618"
      displayName="Penicillin"
      codeSystem="2.16.840.1.113883.6.88"
      codeSystemName="RxNorm"/>
    </playingEntity>
  </observation>
</section>

```

Patient: Eve Betterhalf Document Type: Summarization of Episode Note

**PATIENT CHART SUMMARY**

**Eve Betterhalf**  
**Patient Identifiers**  
 444222222 United States Social Security Number

BACK TO TOP  
 DEMOGRAPHICS  
 AUTHORING DETAILS  
 CLINICAL SECTIONS

BACK TO TOP  
 DEMOGRAPHICS  
 AUTHORING DETAILS  
**CLINICAL SECTIONS**  
 ADVANCE DIRECTIVES  
 ALLERGIES AND ADVERSE REACTIONS  
 ENCOUNTERS  
 FAMILY HISTORY  
 FUNCTIONAL STATUS  
 IMMUNIZATIONS  
 MEDICAL EQUIPMENT  
 MEDICATIONS  
 INSURANCE PROVIDERS

**ADVANCE DIRECTIVES**

Directive	Description	Verification	Supporting Document(s)
Resuscitation status	Do not resuscitate	Dr. Patricia Primary, Feb 19, 2011	<a href="#">Advance directive</a>

**ALLERGIES AND ADVERSE REACTIONS**

Substance	Reaction
Penicillin	Nausea
Codeine	Wheezing

**ENCOUNTERS**

Encounter	Performer	Location	Date
Checkup Examination	Performer Name	Community Urgent Care Center	September 27, 2012 at 1:00pm



# Attachments Guidance

## for Standard Electronic Attachments

- HL7 CDA Attachment Implementation Guide:
  - Exchange of C-CDA Based Documents, Release 1 (Universal Realm)
  - Standard for Trial Use
  - **Targeted** for release in April, 2017
- The Attachment Guide Documents:
  - Approach to standard electronic attachments
  - Background on CDA and key concepts
    - > Structured/unstructured documents
    - > ISO Object Identifiers (OIDs)
    - > Base64 Encoding for Unstructured CDA
    - > Document Succession (tracking versions)
  - Classifying electronic documents using LOINC
  - Business requirements and orchestration
  - Rules (conformance requirements)

| CDAE2\_AIG\_CCDA\_EXCHANGE\_R1\_D1\_2017MARCH



### **HL7 CDA® R2 Attachment Implementation Guide:**

#### **Exchange of C-CDA Based Documents, Release 1** **Release 1 (Universal Realm)**

**Standard for Trial Use**  
March 2017

Publication of this standard for trial use and comment has been approved by Health Level Seven International (HL7). This standard is not an accredited American National Standard. The comment period for trial use of this standard shall end 24 months from the date of publication. Suggestions for revision should be submitted at <http://www.hl7.org/dstucomments/index.cfm>.

Following this 24 month evaluation period, this standard, revised as necessary, will be submitted to a normative ballot in preparation for approval by ANSI as an American National Standard. Implementations of this trial use standard shall be viable throughout the normative ballot process and for up to six months after publication of the relevant normative standard.

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# HL7 CDA for Attachments

## Guidance for Standard Electronic Attachments

- Consolidated CDA (C-CDA)
  - > Care Plan
  - > Consultation Note
  - > Continuity of Care Document (CCD)
  - > Diagnostic Imaging Reports (DIR)
  - > Discharge Summary
  - > History and Physical (H&P)
  - > Operative Note
  - > Procedure Note
  - > Progress Note
  - > Referral Note
  - > Transfer Summary
  - > Unstructured Document
  - > Patient Generated Document (US Realm Header)
- Oncology Treatment Plan and Summary
  - > Designed for adjuvant care
  - > Breast cancer, colon cancer, and survivorship care plan
- EMS Patient Care Report
- Complete Documentation for Payers (CDP1)
- Periodontal Report (pre-publication)
- Any future guides that uses the CDA US Realm Header

|CDAE2\_AIG\_CCDA\_EXCHANGE\_R1\_D1\_2017MARCH



### HL7 CDA® R2 Attachment Implementation Guide:

#### Exchange of C-CDA Based Documents, Release 1 Release 1 (Universal Realm)

Standard for Trial Use  
March 2017

Publication of this standard for trial use and comment has been approved by Health Level Seven International (HL7). This standard is not an accredited American National Standard. The comment period for trial use of this standard shall end 24 months from the date of publication. Suggestions for revision should be submitted at <http://www.hl7.org/stu/comments/index.htm>.

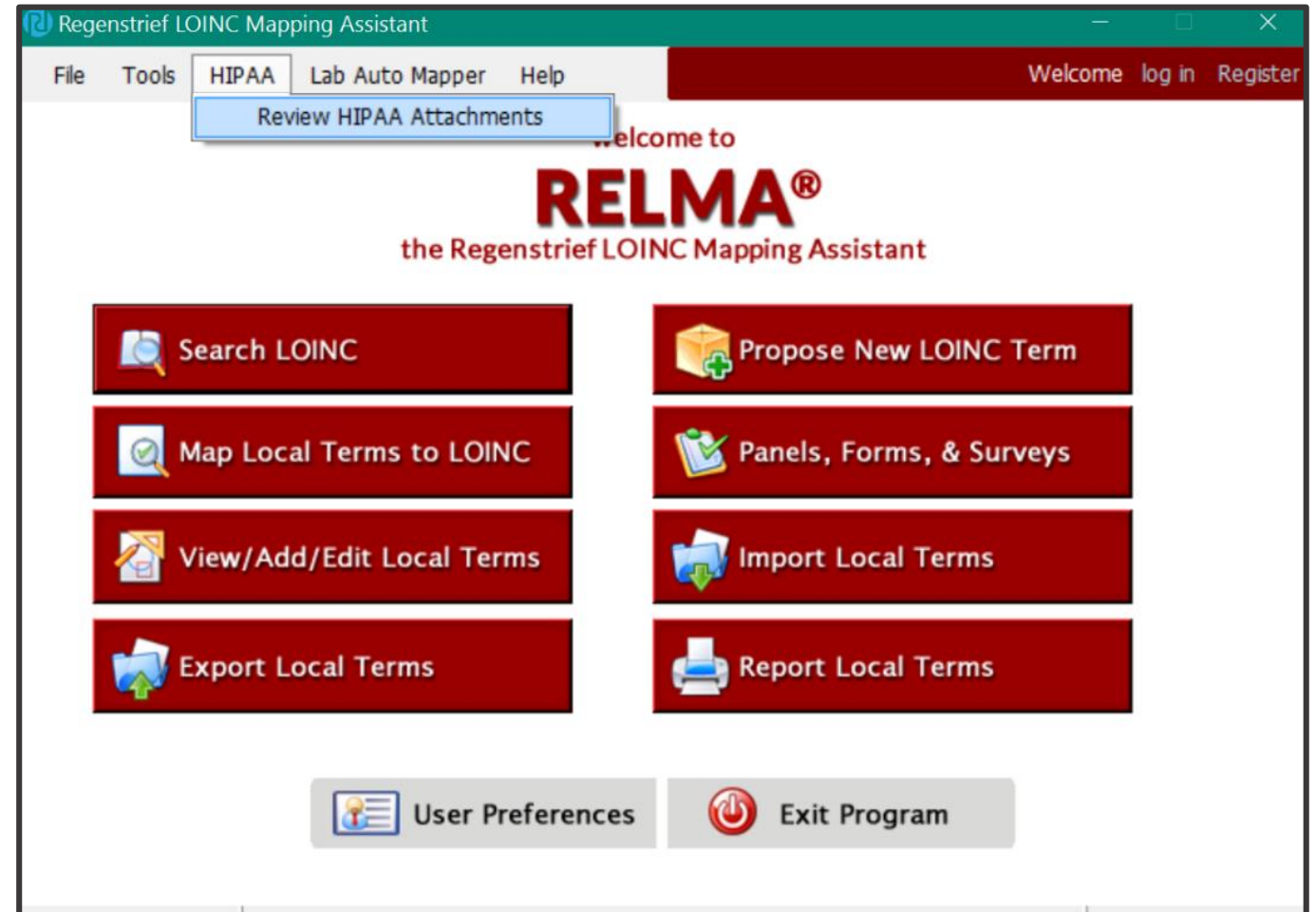
Following this 24 month evaluation period, this standard, revised as necessary, will be submitted to a normative ballot in preparation for approval by ANSI as an American National Standard. Implementations of this trial use standard shall be viable throughout the normative ballot process and for up to six months after publication of the relevant normative standard.

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# HL7 CDA for Attachments: LOINC Codes

## Guidance for Standard Electronic Attachments

- HL7 CDA requires LOINC Document type code
  - Classifies electronic documents
  - Indicates expected content
- HL7 Attachment Implementation Guide defines allowable LOINC Document type code
  - Rules for requests
  - Rules for submissions (unsolicited, solicited)
- Three methods to access allowable document type codes:
  - RELMA
  - [search.loinc.org](http://search.loinc.org)
  - Download full LOINC database
  - See [www.LOINC.org](http://www.LOINC.org)



# HL7 CDA for Attachments

## Guidance for Standard Electronic Attachments

- Documents with implementation guide
  - CCD: one document type code (34133-9)
  - Consultation Note: one **primary** code (11488-4) and many **specialized** codes (85237-6, 68619-6, etc.)
  - Requests should use primary code; response should use closest match.

Regenstrief LOINC Mapping Assistant (RELMA) - HIPAA Attachments

Documents with implementation guide | Documents without implementation guide | Valid attachment requests | Request Modifier Codes

Document (Attachment) Type Codes

Consolidated CDA (C-CDA) R2.1

Attachment Name	LOINC
<b>Continuity of Care Document</b>	
Summary of episode note	34133-9
<b>Care plan</b>	
<b>Consultation note</b>	
Consult note	11488-4
Acupuncture Consult note	85237-6
Adolescent medicine Hospital Consult note	68619-6
Allergy and immunology Consult note	77429-9
Allergy and immunology Hospital Consult note	68633-7

CDA Recommended Sections and Entries

Row	R/O	Section Name	LOINC
1	R	Evaluation + Plan note	51847-2
2	R	Evaluation note	51848-0
3	R	Plan of care note	18776-5
4	R	History of Past illness Narrative	11348-0
5	R	Physical findings Narrative	29545-1
6	R	Reason for visit Narrative	29299-5
7	O	Advance directives	42348-3
8	O	Allergies and adverse reactions Document	48765-2
9	O	Chief complaint+Reason for visit Narrative	46239-0
10	O	Chief complaint Narrative - Reported	10154-3

# Challenges in Adopting Attachment Standards

- For the industry as a whole
  - Uncertainty around regulation
  - Limits to consensus
    - > Message (X12, FHIR, other)
    - > Attachments (CDP-1; PDF)
  - Concern over impact on workflow when introduced for prior authorization
  - Inclusion/exclusion of audit use case
  - Adapting to new workflow
  - Competing priorities
  - SDO timelines, capacity to adapt to change
- Regulators
  - Balancing flexibility with stability
  - Low barrier to entry with room to grow
- Providers
  - Requires comprehensive, indexed electronic record
  - Administrative and clinical system integration
- Payers
  - X12: New transactions
  - CDA: New syntax, data types, code systems
- Clearinghouses
  - New translations
  - CDA: New syntax, data types, code systems
- Vendors
  - Indexing by document type code
  - Validating against the standards
  - X12 / HL7 translations

# Opportunities in Adopting Attachment Standards

- One method across the industry
- Systematic index to full record
- Cost savings:
  - Reduced time to payment
  - Could reduce number of claim denials
  - More protection of protected health information (PHI) – less likely to be lost, misplaced, misdirect, or unanswered
  - Reduce administrative waste and cost across stakeholders:
    - > No need for physical storage (secure rooms, file cabinets, boxes)
    - > Eliminate cost of materials (paper, envelopes, postage)
    - > Reduce use of scanner / Fax machines
    - > Reduce man hours to locate and submit the information requested
    - > Reduce man hours for mail room handling
    - > Reduce man hours monitoring claims status
    - > Reduce need for staff trained in the manual process which may vary per payer
- Savings distributed across all stakeholders

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## Virtual Dialogue



**Robert Bowman**  
CAQH CORE Associate Director

**Liora Alschuler**  
Lantana CEO

**Jessica Porras**  
CAQH CORE Senior Manager  
**MODERATOR**

**Rick Geimer**  
Lantana CTO



# Emerging Standards and Connectivity Methods

- How we define payload vs. messaging standards
  - Payload standards represent the clinical content of an attachment (the actual clinical report)
  - Messaging standards contain the attachment, as well as metadata for associating the attachment with a claim, etc.
- HL7 FHIR RESTful services is emerging as an alternative to X12 messaging for payload transport
- HL7 CDA-on-FHIR documents as the attachment payload

# What is FHIR?

## The Acronym

- **F**ast
- **H**ealthcare
- **I**nteroperability
- **R**esources
- Pronounced “**FIRE**”

## The FHIR Manifesto

- Focus on **implementers**
- Keep **common scenarios** simple
- Leverage **existing technologies**
- Provide **human readability**
- Make content **freely available**
- Demonstrate best practice **governance**

# Areas of Application

## *Advantages & Cautions: HL7 FHIR*

- Immediate areas of application:
  - Between providers and clearinghouses (clearinghouse continues to use X12 as payer interface; provider has single, consistent interface to clearinghouse)
  - Internal to provider integrating clinical and administrative systems
- Advantages:
  - Lightweight to implement
  - Flexible
  - Unified syntax, semantics across API (application program interface), persistent documents
  - Consider for areas where no current integration
- Cautions:
  - Not yet a normative standard, although core components reasonably stable
  - Not yet recognized by regulation, either under Meaningful Use or reimbursement
  - Unlikely to replace legacy (aka “existing systems that work”)

# High Level Approach to Transitional Strategies

## ■ X12 messaging to FHIR APIs:

- Currently exploring FHIR RESTful APIs as alternative to X12. for payload transport
- HIPAA calls out X12, but alternatives can be explored between business partners.
- 277 RFI: CommunicationRequest resource with LOINC request code
- 275: Communication resource with attachment as payload
- Other supporting resources: Claim, Patient, Practitioner, Organization
- Goal: Clean mapping between X12 and FHIR so that conversion is possible.
  - > Example use case: Provider with no X12 infrastructure sends attachment via FHIR APIs to clearinghouse, which converts the data to X12 and forwards to payer.

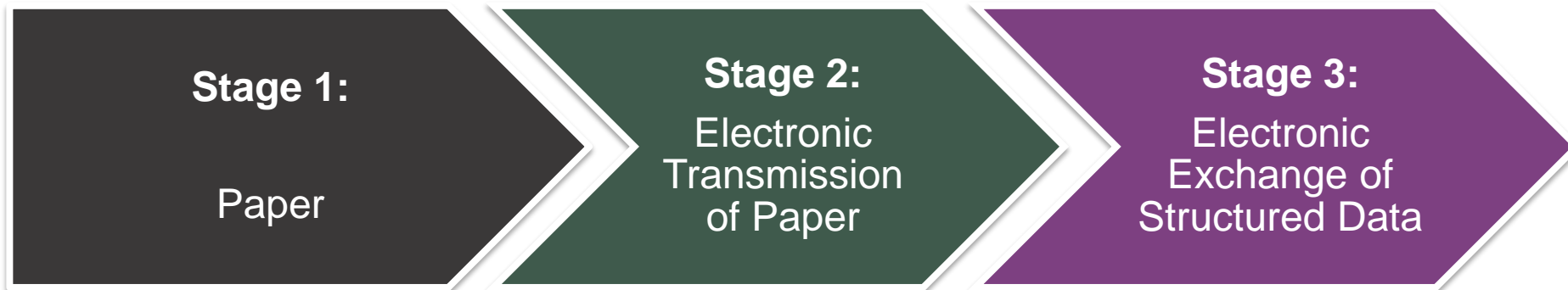
## ■ C-CDA to C-CDA on FHIR:

- C-CDA on FHIR is new, not yet published (expected Q2 2017).
- Now: Convert from C-CDA to FHIR.
- Near future: Create native FHIR documents where no CDA infrastructure exists (and convert back to CDA to comply with current regulations).
- Less near future: Query EHRs for discrete data via FHIR APIs (sandboxes currently available, but just for testing).

# CAQH CORE Activities on Attachments

## *Attachments Migration Path will be Key*

- Ultimate goal is to reduce the paper burden and automate functions with structured data, while:
  - Accommodating the ability to more automatically review narrative documents, and
  - Ensuring a smooth transition.
- Key considerations include:
  - What are the business drivers for adoption?
  - Where to begin?
  - How quickly to move?
  - How to accommodate innovation?



# CAQH CORE Activities on Attachments

## Next Steps



Continue CAQH CORE education sessions to ensure that the industry is keeping abreast of the latest developments



Request organizations supply data on attachments usage that exists, or that organizations would be willing to help collect for a limited time.



Wrap up knowledge from research, dialogue series, other analyses, and report out to industry.



There are complex relationships between attachments and other transactions, such as claims, prior authorization, and electronic remittance advice. These must be included in environmental scan analysis and carefully considered.

# Audience Poll #3

**What would you like to see in future webinars related to this topic (Select all that apply.)**

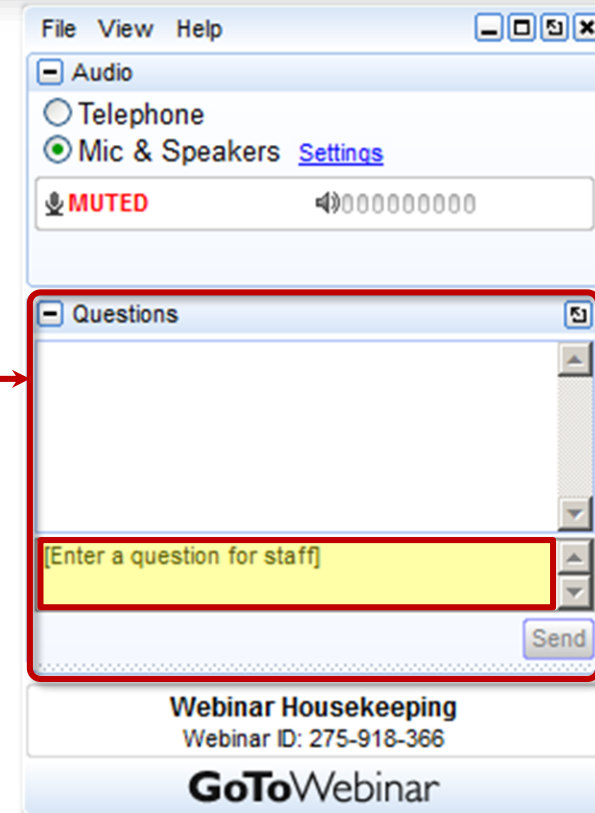
1. Case studies on successful claim attachment implementations
2. Technical details on standards such as the HL7 CDA, HL7 FHIR or X12
3. Drill-down on content versus transport standards
4. Work flow examples of where electronic attachments are essential
5. Please submit other topics in post webinar survey.

# Audience Q&A

**Please submit your questions**

Enter your question into the “Questions” pane in the lower right hand corner of your screen.

**You can also submit questions at any time to [CORE@caqh.org](mailto:CORE@caqh.org)**



**Reminder - Download a copy of today's presentation slides at [caqh.org/core/events](http://caqh.org/core/events)**

- Navigate to the Resources section for today's event to find a PDF version of today's presentation slides
- Also, a copy of the slides and the webinar recording will be emailed to all attendees and registrants in the next 1-2 business days

**Resources**

- [Presentation Slides](#)



# Upcoming CAQH CORE Education Sessions

**Voluntary CORE Certification National Webinar with Texas Medicaid**  
**THURSDAY, MARCH 30<sup>TH</sup>, 2017 – 2 PM ET**

**Use and Adoption of Attachments in Healthcare Administration – Part II**  
**WEDNESDAY, APRIL 19<sup>TH</sup>, 2017 – 2 PM ET**

**CAQH CORE Town Hall National Webinar**  
**WEDNESDAY, JUNE 14<sup>TH</sup>, 2017 – 2 PM ET**

To register for these, and all CORE events, please go to [www.caqh.org/core/events](http://www.caqh.org/core/events)

# E-Learning Resources from CAQH CORE



[www.caqh.org/core/elearning-resources](http://www.caqh.org/core/elearning-resources)

The screenshot shows a purple navigation menu on the left with the following items: Overview, Governance, Operating Rules, CORE Certification, Industry Topics and Comment Letters, Education and Implementation Resource Center (expanded), e-Learning Resources (highlighted by a mouse cursor), Events, and Impact (ROI). The main content area is titled 'e-Learning Resources' and contains the text: 'Welcome to the new CAQH CORE e-Learning Resources page. CORE Education and Outreach is working to create new online learning resources including e-learning modules, information widgets and dashboards, and short informational videos.'

Understand the four components needed to complete voluntary CORE Certification.

The screenshot shows a page titled 'The Four Components of Voluntary CORE Certification'. It features a list of four steps in purple boxes: 1. Pre-certification Planning & Systems Evaluation, 2. Sign & Submit CORE Pledge, 3. CORE Certification Testing, and 4. Apply for CORE Certification Seal. The page includes social media icons for LinkedIn, CAQH CORE Homepage, Twitter, and Provide Feedback, along with a 'Why CORE Certify?' circular graphic.

Learn about the new CORE Certification Application Portal.

The screenshot shows the 'Voluntary CORE Certification Application Portal' interface. It features a search bar at the top and four main navigation buttons: 'How to use this Tutorial', 'Application Portal Quick Overview', 'Application Portal Registration', and 'Application Portal'. Social media icons for LinkedIn, Twitter, and Provide Feedback are also visible.

Explore an interactive map to see which Medicaid entities around the country have achieved CORE Certification.

The screenshot shows an interactive map titled 'Voluntary CORE Certification Medicaid Agencies and Managed Medicaid Plans'. The map displays the United States with states highlighted in purple, indicating they have at least one entity certified. A legend on the left shows 'STATE GOVERNMENT MEDICAID AGENCY' and 'MANAGED MEDICAID'. A 'Click the states to learn more.' button is present. The map includes a 'Download the Report Here' link and the CAQH CORE logo.

# Thank you for joining us!



@CAQH

Website: [www.CAQH.org/CORE](http://www.CAQH.org/CORE)

Email: [CORE@CAQH.org](mailto:CORE@CAQH.org)

## The CAQH CORE Mission

Drive the creation and adoption of healthcare operating rules that support standards, accelerate interoperability, and align administrative and clinical activities among providers, payers and consumers.

# Acronyms

- ACA Affordable Care Act of 2010
- ANSI American National Standards Institute
- API application program interface
- ASC Accredited Standards Committee
- CAQH Council for Affordable Quality Healthcare, Inc.
- C-CDA Consolidated CDA
- CDA Clinical Data Architecture
- CDP-1 Clinical Documents for Payers, Set 1
- CHIP Children's Health Insurance Program
- CMN Certificate of Medical Necessity
- CORE Committee on Operating Rules for Information Exchange
- EHR electronic health record
- FHIR Fast Healthcare Interoperability Resources
- GIF Graphics Interchange Format (image file type)
- HIP High Impact Pilots
- HIPAA Health Insurance Portability and Accountability Act of 1996
- HIT health information technology
- HL7 Health Level Seven International
- MRM Medical records management
- HTML Hypertext Markup Language
- ID identifier
- ISO International Organization for Standardization
- JPEG Joint Photographic Experts Group (image file type)
- LOINC Logical Observation Identifiers Names and Codes
- MACRA Medicare Access CHIP Reauthorization Act of 2015
- MIPS Merit-Bases Incentive Payment System
- MU Meaningful Use
- NCVHS National Committee on Vital and Health Statistics
- NHSN National Healthcare Safety Network

# Acronyms

- NPRM Notice of Proposed Rule Making
- ONC Office of the National Coordinator for Health Information Technology
- OTPS Oncology Treatment Plan and Summary
- PDF Portable Document Format
- PNG Portable Network Graphics (image file type)
- QRDA Quality Reporting Document Architecture
- RELMA Regenstrief LOINC Mapping Assistant
- RESTful representational state transfer
- RTF Rich Text Format
- SDO Standards development organization
- TIF Tagged Image File Format (image file types)
- TR3 Technical Report Type 3
- XML Extensible Markup Language

# Example

## *Unsolicited, Unstructured Submission of Surgical Note*

- Provider sends attachment of a surgical note directly to the health plan.
  - Pre-conditions:
    - > No clearinghouse; using existing X12 structure
    - > Surgery performed; surgical note dictated and converted to PDF; stored in medical records management system via HL7 V2 MRM message
    - > Claim prepared in practice management system (837)
  - 1. Pull Surgical Note according to patient name, date, document type code (may be manual or automated query)
  - 2. Create CDA: Base64 encode PDF, create CDA Header using information from MRM system (V2 message) plus unique ID
  - 3. Create ASC X12N 275 Additional Information to Support a Health Care Claim or Encounter:
    - > Required data
    - > Optional data
  - 4. Send 837 + 275
  - 5. Actions of the health plan:
    - > Parse 275 to match attachment with claim
    - > Extract CDA from BIN segment and decode Base64 content
    - > Insert CDA into system that manages claims documents
    - > Augment work queue for review of claim
    - > Display CDA for review:
      - Directly if text or pdf or HTML
      - With stylesheet if XML

# Example

## *Solicited; Using Clearinghouse*

- Provider sends attachment of a surgical note to the health plan via a clearinghouse.
  - Pre-conditions:
    - > Surgery performed; surgical note dictated and converted to PDF; stored in medical records management system
    - > Claim prepared in practice management system (837)
  - 1. Payer requests more information:
    - > Sends 277 RFI to clearinghouse
    - > Requests Surgical note (LOINC doc type code =11504-8)
  - 2. Clearinghouse queries provider for surgical note:
    - > Query format: undefined (proprietary, FHIR, other)
    - > Assume identification of claim, type of document (LOINC optional)
  - 3. Provider administrative system pulls note – manual or automatic; at most basic, could be paper to fax back to clearinghouse
  - 4. Clearinghouse assembles Unstructured CDA:
    - > Information on claim
    - > Requestor LOINC code (and response LOINC code if different)
    - > Base64 encodes note
  - 5. Create 275: same process and requirements as unsolicited, plus electronic stable binding the request to the response
  - 6. Sends 275
  - 7. Processed by payer as unsolicited