

Goals for NCVHS Presentation Today

- Inform the subcommittee on the revised approach to Attachments approved by HL7 ballot at our September 2003 meeting
 - similarities and differences vs. prior approach
 - related policy issues
- Solicit the support of the NCVHS with the Secretary DHHS in order to gain experience and maintain momentum on Attachments
- Ask the subcommittee to consider the "dual-level" approach (to be described) in the more general context of the NHII

0 2003 HL7

Topics

• Introduction

- HL7 Clinical Document Architecture
- Using CDA for Attachments
- Timeline

Issues Surrounding Claims Attachments

• "Big" issues

- payers who want no controls on what can be asked
- providers who want no requirement for attachments
- Manageable issues
- predictable content
- providers sending "the entire chart" (some help)
- structured vs. unstructured vs. document image
- coding system for attachment questions
 - versus nothing (i.e., unstructured)
 - versus X12-enumerated codes (i.e., limited and simple)
- syntax

– eHealth Communications Models

'Attachment" vs "Claim Attachment"

- HIPAA Law mandates a claims attachment transaction
- Other administrative transactions need supporting clinical information (e.g., referral)
- There is currently consideration within X12N to use the same basic approach to support the 278 transaction

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• To assist this HL7 changed the name of its Attachments standard to be more general

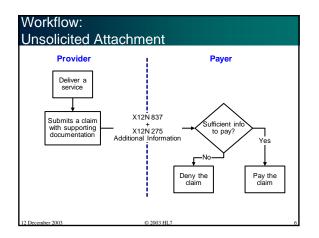
Attachments – Past

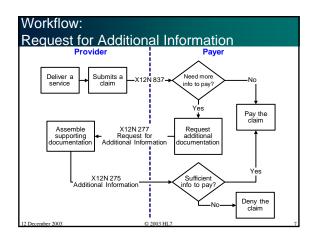
Recommendations from industry outreach

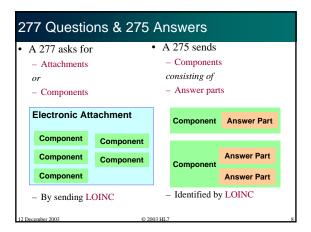
- ✓ Determine most frequently used Attachments
 - ✓ Consider Attachments where HL7 messages already exist / in development
- ✓ Need to "Standardize" the questions payers ask industry consensus required
- ✓ Form "Attachment workgroups" by soliciting help from all sectors of industry (e.g. payers, providers, National Associations)
- ✓Use LOINC codes

(See reference material at the end of this presentation for more history.)

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Original and New Proposal

- · 1997-1999, joint committee: Attachments SIG
 - 275 contains HL7 embedded ORU message
 - similar syntax to X12N -- but different
 - limited support for free text and images
 - initially six attachments
 - no NPRM forthcoming
- 2003, same joint committee
 - 275 contains HL7 Clinical Document Architecture XML document
 - same six attachments, same content
- better support for images and free text

Structured Data: Must We Sell the Future to Gain the Present?

• Present

- Limited ability of providers to provide structured data
- autoadjudication - better medical management

• Future

- Limited ability of payers to use structured data - ROI available by saving
 - more extensive collection of quality data

- increasing levels of

- People, Paper, and - requires structured data
- Web-based communication models

Postage

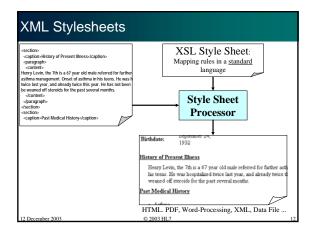
Syntax

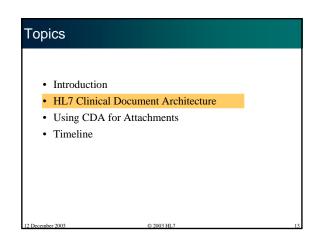
"Legacy" Syntaxes

- HL7 v2 and X12
- Only dealt with through mappers
- Awkward for dealing with text
- Will be used for many years
- Not the best choice for new endeavors

XML

- Was "the future" in 1998
- Ubiquitous low-cost tooling plus part of most mapping products
- XSL = auto-rendering
- equally at home with structured data and text
- Currently the syntax of choice for new endeavors, especially Web-based endeavors





HL7 Clinical Document Architecture (CDA)

- CDA is an XML document specification set
- Objective: standardization of clinical documents for exchange using XML
- XML markup is application independent
- Markup is metadata added to data (discrete elements, narrative text, images)
- Markup provides information persistence and processability across applications

The CDA Standard Level One

- ANS HL7 CDA R1.0-2000
 - ANSI Certified Standard
 - Published October 2000
- · Description of the CDA framework
 - CDA Header: structured info on patient, encounter, document author, revision status, etc.
 - CDA Body
 - clinical content variable structure

Almost "Free-Form" Data

- XML or non-XML
- Non-XML: Free text or an image
- if XML, consists of structures & entries
 - CDA body structures
 - section, paragraph, list, table, caption
 - structures, including <body>, can have own confidentiality, originator, xml:lang
 - CDA body entries
 - text, link, codes, content, images (multi-media)

Can Include Images scaptions
ccaption_d v="8709-8"/>Skin</caption>
cparagraph>

content-Erythematous rash, palmar surface, left index finger.

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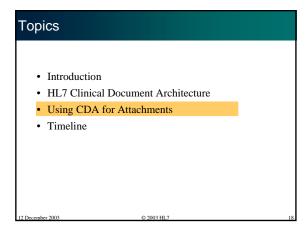
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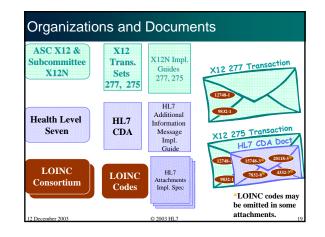
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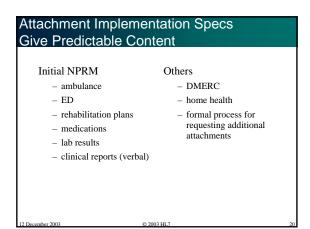
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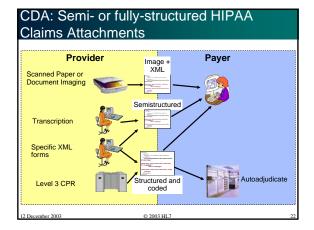


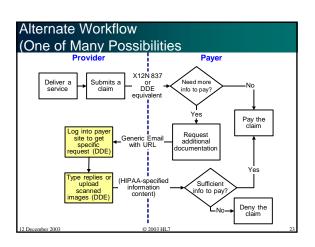
Human-Decision Variant

- Matches the most prevalent workflow: a person reviewing the information to make a decision
- "Low-impact" on health plans (easy to display using common tools)
- "Low-impact" on providers (supports low-cost document preparation and "fax-like" use of existing paper or document images)

Computer-Decision Variant – Permits computer-assisted

- adjudication or autoadjudication – Includes specifications for brooking data down into
- breaking data down into computer-accessible elements
 Includes LOINC codes to identify
- the questions
 Includes answer codes suitable to
- the question
 Processable in "Human-Decision" mode by health plans that have not adopted a computer-decision approach.
- Can be applied selectively, one attachment at a time.





What Happens to Computer-Decision Structure?

- Providers "may" code the details with LOINC codes if they "can", but initially have no incentive to do so
- Payers "can" ignore the LOINC detailed codes -- indeed they will do so automatically if they use the viewing stylesheet
- Payers that choose to auto-adjudicate claims in a process that includes attachments will announce to providers that those that choose to add use structure and detailed LOINC codes will have their claims adjudicated faster
 - no need for a new standard at that time
 - the move to the higher level is incentive-based

Note: this is a policy issue, and somewhat divergent from "classical HIPAA"

Gain Immediate Benefits...

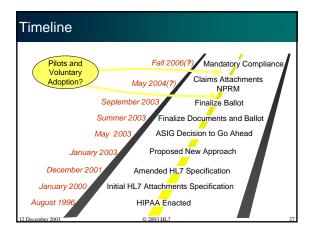
- Providers
 - Predictable content
 Maximum opportunity for immediate participation
 - ROI available by saving People, Paper, and Postage

Payers

- limit early implementation costs to basic Qs and As
 less early use of LOINC
- codes (could limit it to attachment IDs if they preferred)
- initial investment more justified by higher provider participation

But Don't Sell Out the Future Providers Health Plans

- Health plan incentives for structured data provides financial benefit for acquiring a computer-based patient record
- Timing for conversion is a business decision rather than an enforced decision
- Health Plans
- After the basic ROI is obtained, advance to the use of structured data without another regulatory cycle
- Selectively approach the use of structured data as business opportunities arise, rather than being forced to by a regulation



Summary

- Inform the subcommittee on the revised approach to Attachments approved by HL7 ballot at our September 2003 meeting
- similarities and differences to prior approach
- related policy issues
- Solicit the support of the NCVHS with the Secretary DHHS
 letter to Secretary
 - support demo projects through Federal and commercial health plans
 don't backslide on May 2004 NPRM date
- Ask the subcommittee to consider the "dual-level" approach in the context of the NHII

Supporting Information

The following slides contain background information for this presentation.

For More Information

- www.hl7.org
 - click on "special interest groups" then "attachments"
- from home page
 - click on "list servers"
 - click on "asig@lists.hl7.org" to join
 - consider joining other list servers for specialized topics
- www.wpc-edi.com/hipaa
 - download old 277, 275 and HL7 v2.4 proposal

History of HL7

- Founded 1987
- Membership: near 2000
- Goal: Exchange of clinical and clinicaladministrative information
- US ANSI Accreditation 1995
- 18 Affiliate chapters in 30 + Countries
- US Market penetration:
 - Hospitals > 90%
 - Other care delivery organizations: no competing standard

IPAA EDI Transactions			
Providers		Payers	Plan Sponsors, Employers
Eligibility Verification	270 271	 Enrollment 	820 Enrollment
Pre-treatment Authorization and Referrals	278* 837	Precertification → and Adjudication	
Service Billing/	(+ <u>275/HL7)</u> (<u>277</u>)	 Claim Acceptance 	Not shown:
Submission	(<u>275/HL7)</u> 276	 Adjudication 	NCPDP Retail Pharmacy
Claim Status Inquiries	277	Coordination of Benefits	— 837
Accounts Receivable	835	Accounts Payable	* Needs additional info but attachments not in HIPAA law.
ecember 2003		© 2003 HL7	-

Attachments – Past

- WEDI Attachment Workgroup Report, 1994
- Recommendations:
 - \checkmark Standardize attachment data elements
 - ✓ Coordinate affected entities to develop guidelines ✓ Work with Medicaid to standardize/eliminate attachments ✓ Develop 274/275 as primary vehicle
 - ✓ Create standard way to link data across transaction sets

Attachments – Past

NUCC:National Uniform Claim Committee (NUCC) Survey, 1996

 \checkmark Survey to Blues & Medicare contractors asking what attachments are utilized?

✓COB, SNF, Therapies, DME, Surgery

 $\checkmark 54$ responses - no follow-up conducted as NUCC $\,$ need to focus on 1500 dataset

HCFA Surveys to Medicare Carriers and Intermediaries, 1996 / 1997 ✓Results led to funding 275 POC

Attachments – Past

- Proof of Concept (POC) Team
 - $\checkmark 5$ Medicare contractors funded by HCFA to develop Electronic Request for Information
 - ✓ 1997 began considering options for Claims Attachments as response to request - April 1997 approached HL7
 - ✓ August 1997 POC Team joined HL7 and helped to form ASIG
 - ✓ASIG solicited industry input before moving forward

LOINC and RELMA

- Universal Identifiers for Lab and other Clinical Observations
- Maintained by Regenstrief Institute & LOINC Committee
- For FREE Code Set and User Guide go to: <u>www.regenstrief.org/loinc</u>
- Relma Utility Program helps to navigate LOINC database FREE at <u>www.loinc.org/relma</u>

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• Used to Identify Question in the 277 and the Answer in the 275