

KSWebIZ HL7: It's All about Data Quality



Our Mission: To protect and improve the health and environment of all Kansans.

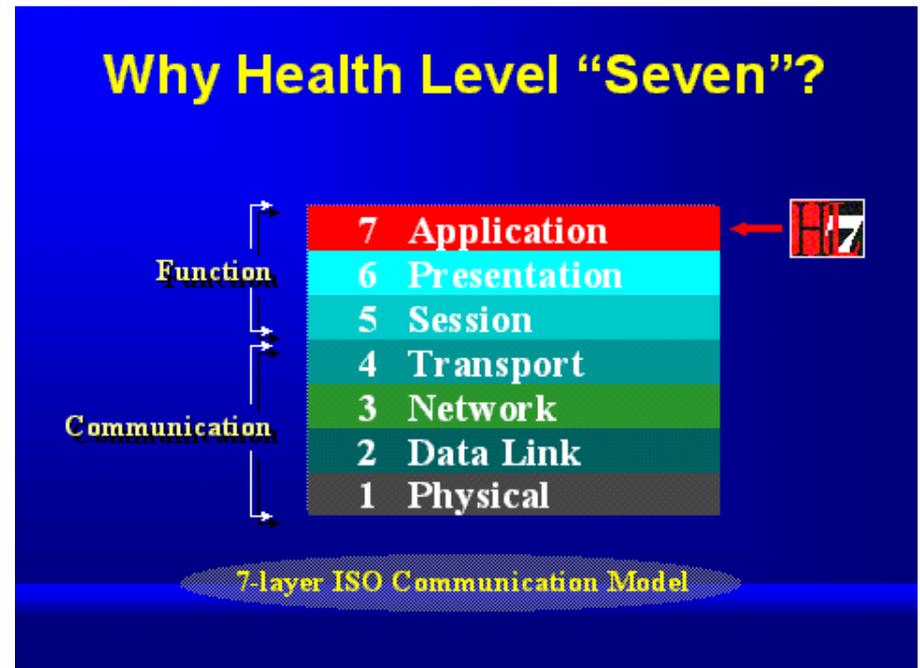
HL7

- We will look at
 - What is HL7?
 - How does it work?
 - Data Quality
 - Where are we now?
 - What's in the future?

What is HL7?

International Common Interpretation of standards

- Provides a framework for the exchange, integration, sharing and retrieval of electronic health information.
- Platform Independent
 - Unix; Mac; Linux
- Language Independent
 - Java; XML; C+; .NET



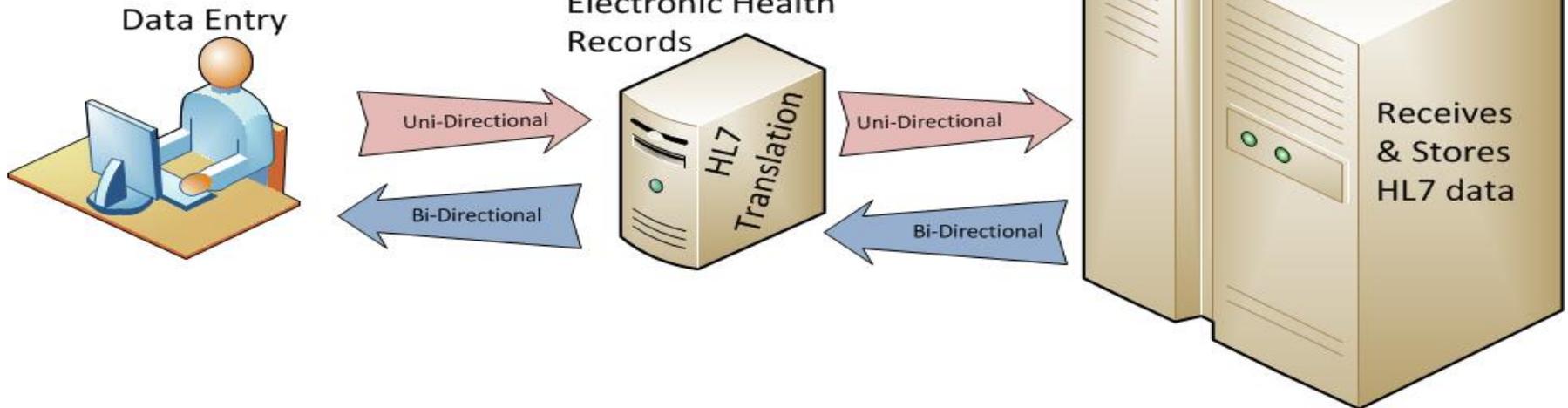
HL7: Defines Each Field

- For Example
 - Patient Identifier Segment (PID)
 - Patient ID Number (PID-3)
 - ID Number (Social Security, Medical Record, etc.)
 - Letters & Numbers (Abc123)
 - Limited to 15 Characters
 - Field is Required

HL7 Interoperability: How it Works



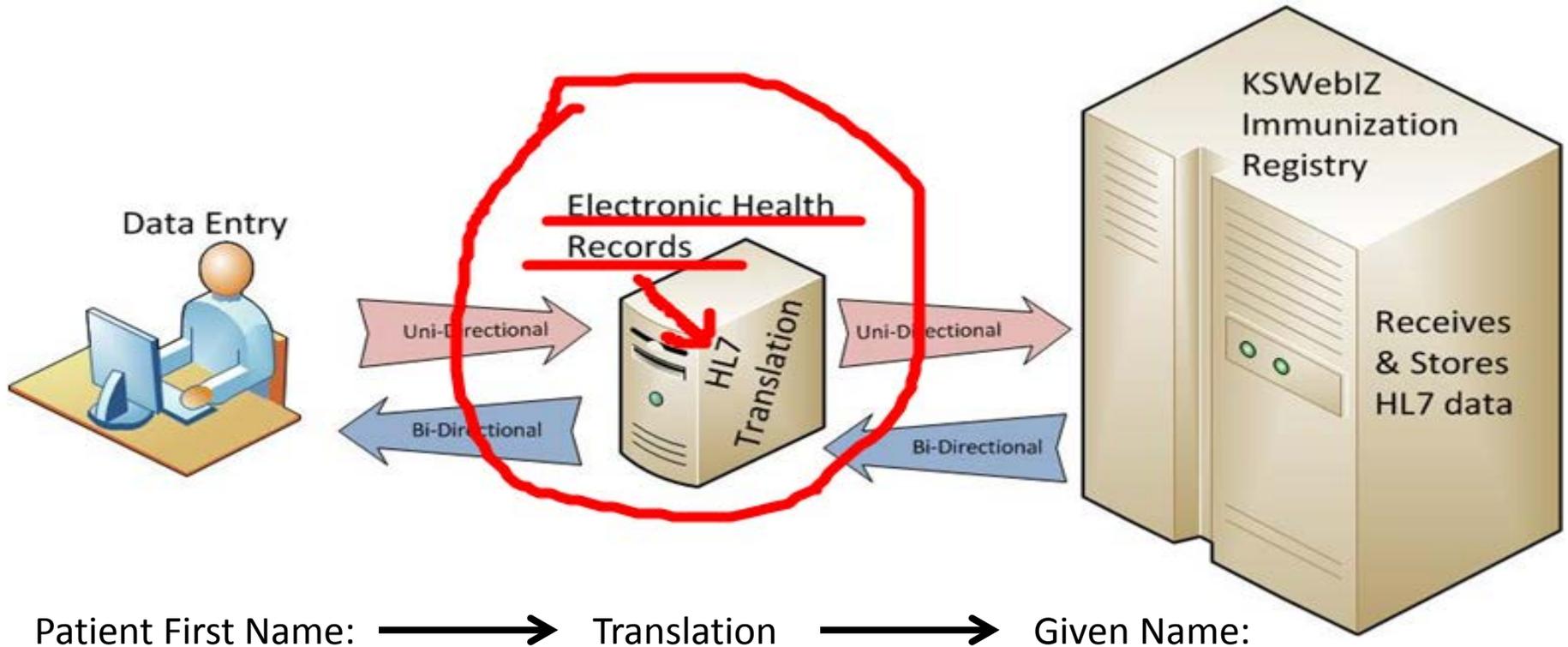
Shot Administered



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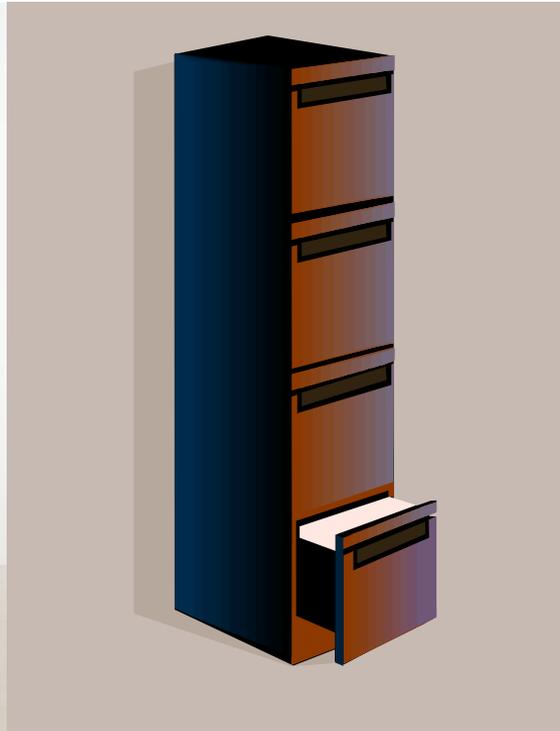
HL7 Interoperability: How it Works



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KSWebIZ HL7 Data Quality

“Without thoughtful placement of documents, the process of filing becomes useless. Filing is all about retrieval.”



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KSWebIZ HL7 Data Quality Is:

More flexible than KSWebIZ Direct Entry.

- **Greater chance of inputting incorrect information!**
- **Fewer warning messages**
- **Little built in responses to incorrect data input.**
- **Wrong information can just go away!**

**WE'RE DOING
SHOTS**
HAPPY HOUR 9am - 5pm



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KSWebIZ HL7 Data Quality

- Problems specific to HL7 Users
 - Don't send the KIR # during a query
 - KIR=Kansas Immunization Registry #
- Send ONLY “*Birth Certificate*” Names
 - Computers don't know that Bob = Robert
- Hyphenate – Yes or No?
 - Birth Certificate should always match!

KSWebIZ HL7 Data Quality

- Creates Errors or Duplicates!
 - Manual process
 - Drives up Cost of Business
 - Makes staff grumpy

- Ask me about De-Dup day!



KSWebIZ HL7 Data Quality

- Key To A Successful Patient Visit
 - Query the patient
 - Update with new or historical vaccine data
 - Query the patient to verify. Print Pink Card!
- If The Query Fails Change the Question and Ask Again.
 - John Smith-Jones
 - John SmithJones
- When in doubt, call the KSWebIZ Help Desk! 877-296-0464

KSWebIZ HL7 Data Quality

- Have you MOGE'd your patients lately?
 - Moved or Gone Elsewhere
- Make your system more efficient by removing dead weight.
- Do it as part of your reminder/recall process.

KSWebIZ HL7 Data Quality

- Lastly!
- The EHR System is only good if it stays up-to-date with the latest definitions.
 - CVX/CPT Codes, Race, Ethnicity Tables.
- Make sure you do your part
 - Stay up-to-date when requested by your EHR.
 - Watch for Errors.

Anatomy of a Query

- Very little information is required.

```
MSH|^~\&||Z9999||KS0000|20130430||QBP^Q11^QBP_Q11|KS100038854000999232|T|2.5.1|||NE|AL|
QPD|Z34^Request Immunization History^CDCPHINVS|||BELL^TINKER^^^^^L|^^^^^^M|20080401|F|
RCP|||5^RD^HL70126|R^real-time^HL70394
```



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Electronic Health Records Company

- Office Practicum (Bi-Directional)
- Athena Health Systems (Bi-Directional)
- EPIC (some are Bi-Directional)
- Cerner (working Uni-Directional)
- HealthFusion (working Bi-Directional)
- AllScripts (working Uni-Directional)

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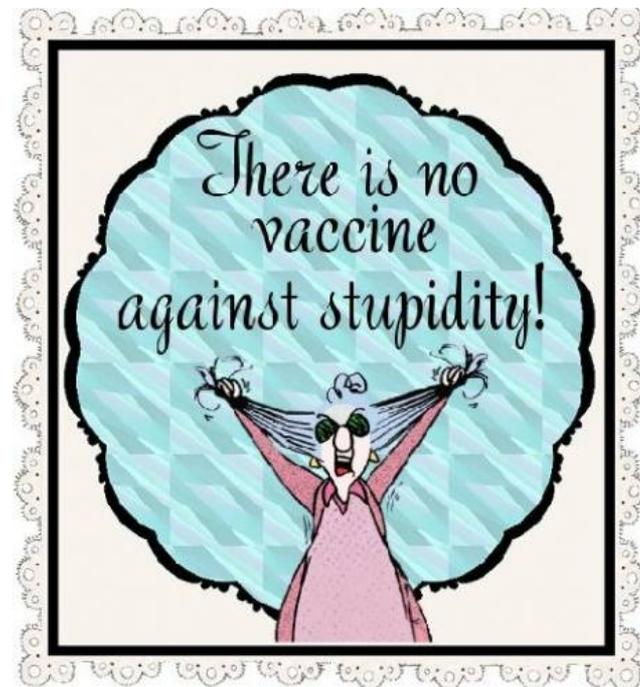


The Near Future

- Meaningful Use, Stage 2
- Demonstrate the ability to send on going messages in HL7 version 2.5.1
 - ... providers must demonstrate meaningful use for a 90-day period; ...
- Hospitals begins October 1, 2013
- Eligible Professionals begins January 1, 2014

Other Electronic Health Records Company

- School Nurse Software – still looking
- eClinicalWorks
- MediTech (4 hospitals)
- SuccessEHS
- KHIN (States HIO)
 - Siemens
 - Meditech
 - Greenway
 - SuccessEHS
 - eMDs
 - NextGen



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Maya Angelou

“I've learned that people will forget what you said, people will forget what you did, but people will never forget how you made them feel.”

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Questions



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