

HL7 EHR Work Group - Reducing Clinician Burden Project
How Might We Ensure End-to-End Fidelity as We Collect, Share and Use Clinical Documentation?
 Draft 30 December 2020

	Flow	Instance	
			Lifecycle Event - Clinical Content and Context
Collect	▼	1	Lifecycle Event - Documentation is Originated By Clinician Clinical content and context <u>as rendered to/viewed by</u> the authoring clinician What the Author sees 👁️ 👁️
	▼	2	Lifecycle Event - Documentation is Retained by Source System Clinical content and context <u>as stored</u> in source EHR/HIT system database
Share	▼	3	Lifecycle Event - Documentation Content is Transformed - Exchange Pre-Processing Clinical content and context <u>as transformed</u> into exchange artifact (message, document, resource) format
			Lifecycle Event - Documentation Content is Transmitted Clinical content and context <u>as transmitted</u> by EHR/HIT system system
	▼		Exchange
	▼	4	Lifecycle Event - Documentation Content is Received Clinical content and context <u>as received</u> by receiving EHR/HIT system
			Lifecycle Event - Documentation Content is Transformed - Exchange Post-Processing Clinical content and context <u>as transformed</u> from exchange artifact (message, document, resource) format
	▼	5	Lifecycle Event - Documentation is Retained by Receiving System Clinical content and context <u>as stored</u> in receiving EHR/HIT database
Use	❖	6	Lifecycle Event - Documentation is Accessed/Viewed by Receiving Clinician or End User Clinical content and context <u>as rendered to/viewed by</u> end user clinician What the End User sees 👁️ 👁️

Imagine...

- The child's game of "telephone" where a simple phrase is whispered in the ear of the first child and then repeatedly whispered one to the next down the line. After a few "whispers" the phrase often becomes convoluted or nonsensical.
- What happens when clinical content/context follows a typical information flow (per the exchange example on the left), algorithmically instantiated in up to six instances (separate representations) from the point of origination (source) to the point of use (consumption).

How might it be possible to ensure that what the author sees/intends (at the point of origination) is the same as what the receiving end user sees?