HL7 EHR Interoperability Work Group EHRS FM Functions – Relationship to Record Lifecycle Events and Audit Triggers

> Gary L. Dickinson 23 April 2014

## Relationship of Actions to EHR Record Entries

EHRS FM R2 requires that Actions are documented by EHR Record Entries but does not prescribe specific relationship of Actions to Entries – one to one or many to one.						
Sample Action Sequence	Example A: One to One	Example B: Many to One				
1. Capture Patient Demographics, Start Ambulatory Encounter	Originate 1 <sup>st</sup> EHR Record Entry					
2. Take Vitals	Originate 2nd…	Originate One Record Entry v for Actions 1-6				
3. Do History & Physical	Originate 3rd					
4. Do Assessment	Originate 4th					
5. Place Orders	Originate 5th					
6. Complete Encounter	Originate 6th					
Patient Encounter Documented in	6 EHR Record Entries (6 "Originate" Lifecycle Events)	1 EHR Record Entry (1 "Originate" Lifecycle Event)				
Later	Amend (one or more) Entries	Amend (one) Entry				

## Evidence of Actions Taken Record Lifecycle Events and Audit Triggers

WHAT	Any Action Taken	may be…	Evidenced as EHR Record Entry	and/ or	Evidenced as Audit Log Entry
ОНМ	By Actor(s): • User • EHR System algorithm				
	By invoking EHRS Function(s) – CP, CPS, AS, POP, RI, TI				
МОН			By invoking <i>Record Lifecycle</i> <i>Event</i> (RI.1.1.x)	$\rightarrow$	By invoking <i>Audit Trigger</i> (TI.2.x)
			By creating/updating <i>EHR Record Entry</i> , capturing Action Details and Metadata		By creating/updating <i>Audit Log Entry</i> , capturing Audit Metadata

## Additional Examples Applicability of Record Lifecycle Events

	Example of Record Lifecycle Event Applicability			
Action Example	Per Record Entry	Per Collection of Record Entries (e.g., single encounter-related)		
Send Patient Summary to Subsequent Provider	<ul> <li>Extract</li> <li>Originate Summary</li> <li>Transmit Summary</li> </ul>	N/A		
Send Health Information to Public Health Agency	<ul> <li>Extract</li> <li>Originate PH Report</li> <li>De-Identify PH Report</li> <li>Transmit PH Report</li> </ul>	N/A		
Archive Encounter	N/A	Archive Record Entries		
Destroy/Delete Encounter (e.g., after legal retention period)	N/A	Destroy/Delete Record Entries		