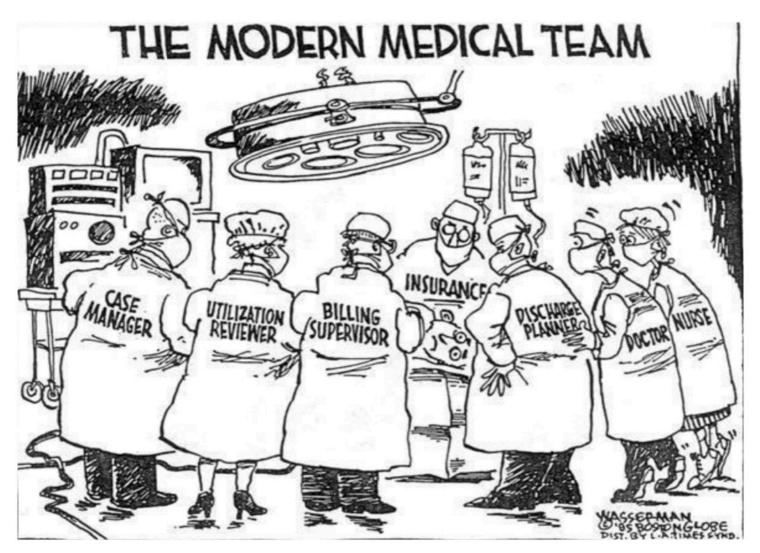
# "Reducing Clinician Burden" Project Overview

Health Level Seven (HL7)
Electronic Health Record Work Group (EHR WG)
3 December 2018

#### Quantifying the EHR Burden

# Surveys Say...

- 3 out of 4 physicians believe that EHRs increase practice costs, outweighing any efficiency savings Deloitte Survey of US Physicians, 2016
- 7 out of 10 physicians think that EHRs reduce their productivity Deloitte
- 4 in 10 primary care physicians (40%) believe there are more challenges with EHRs than benefits Stanford Medicine/Harris Poll, 2018
- 7 out of 10 physicians (71%) agree that EHRs greatly contribute to physician burnout Stanford/Harris
- 6 out of 10 physicians (59%) think EHRs need a complete overhaul Stanford/Harris
- Only 8% say the primary value of their EHR is clinically related Stanford/Harris



## Assessing the Burden

- Focus on <u>clinician burdens including time and data quality burdens</u> associated with:
  - Use/engagement of EHR/HIT systems
  - Capture, exchange and use of health information
- Consider:
  - Regulatory, accreditation, administrative, payor mandates
  - EHR/HIT system design, functionality, usability and implementation
  - Data quality and usability
- Gather details from many reference sources:
  - Trade publications, professional society journals, articles, studies, personal experience
- Goal is not to boil the ocean, rather to understand the extent of the burden.

# Defining Terms (DRAFT)

Reducing (reduce)	<ul> <li>"To bring down, as in extent, amount, or degree; diminish", and "To gain control of [to] conquer", and "To simplify the form of without changing the value", also "To restore to a normal condition or position" – The Free Dictionary</li> <li>"To lower in intensity" – Dictionary.com</li> <li>"To narrow down", also "To bring to a specified state or condition" – Merriam-Webster</li> </ul>
Clinician	<ul> <li>"A health professional whose practice is based on direct observation and treatment of a patient" – Mosby's Medical Dictionary</li> <li>"An expert clinical practitioner and teacher" – Miller-Keane Encyclopedia and Dictionary of Medicine, Nursing, and Allied Health</li> <li>"A health professional, such as a physician, psychologist, or nurse, who is directly involved in patient care" – American Heritage Medical Dictionary</li> </ul>
Burden	<ul> <li>"A source of great worry or stress", and "[Something that] cause[s] difficulty [or] distress", also "To load or overload" – The Free Dictionary</li> <li>"Something that is carried, [as in a] duty [or] responsibility", also "Something oppressive or worrisome" – Merriam-Webster Dictionary</li> </ul>

# Defining Terms (DRAFT)

Anything that hinders patient care, either directly of indirectly [such a			
	1) Undue cost or loss of revenue,		
	2) Undue time,		
	3) Undue effort,		
Clinician	4) Undue complexity of workflow,		
Burden	5) Undue cognitive burden,		
	6) [Uncertain quality/reliability of data/record content,]		
	7) Anything that contributes to burnout, lack of productivity, inefficiency, etc.,		
	8) Anything that gets in the way of a productive clinician-patient relationship.		
	Peter Goldschmidt		

# How physicians use their computers

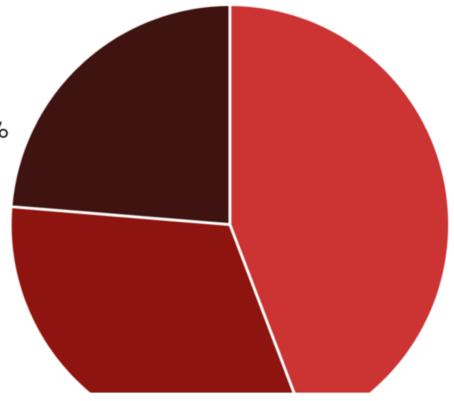
Percent of time spent per day by EHR task category

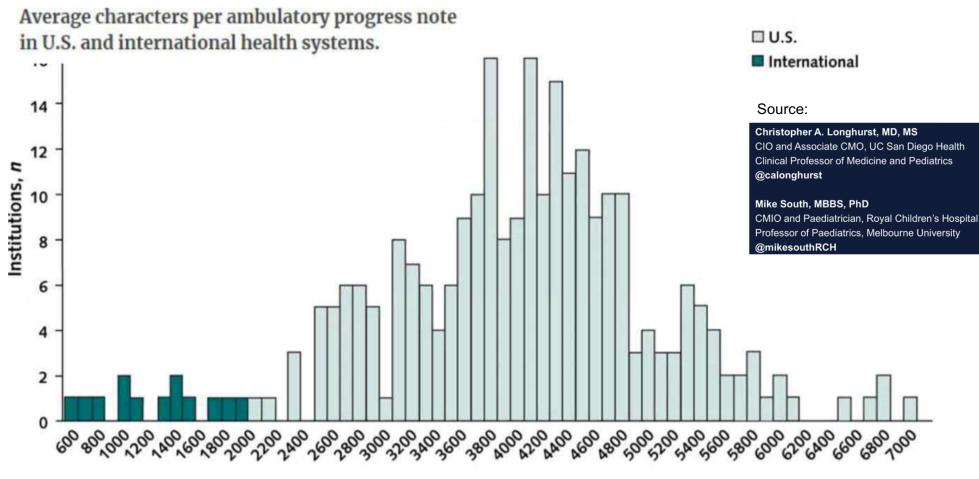
Clerical (documentation, order entry, etc.), 44%

Medical care (chart review, etc.), 32%

Inbox management, 24%

Source: Health Data Management





Average Characters per Ambulatory Note, n

#### Reducing Clinician Burden Project

# Outreach + Expressed Interest

- Standards Developers
  - Joint Initiative Council (JIC), comprising HL7, ISO TC215 (HIT), CEN TC251 (HIT/Europe), DICOM (Diagnostic Imaging), CDISC (Clinical Research), GS1 (IDs/Labeling), SNOMED (Clinical Vocabulary), IHE (Standards Profiling), PCHCA (Personal Connectivity)
- International Healthcare Community
  - Australia, Canada, Finland, Italy, Netherlands, New Zealand, Sweden, United Kingdom
- Government
  - US Centers for Medicare and Medicaid Services (CMS)
     Payers
  - US Office of National Coordinator for HIT (ONC)
  - US National Institutes of Health (NIH)
  - US Veterans Administration (VA)
  - UK National Health Service (NHS)
- Accreditation Bodies
  - Joint Commission

- Professional Societies
  - American College of Physicians (ACP)
  - American College of Surgeons (ACS)
  - American Nurses Association (ANA)
- Providers
  - Adventist Health, Beth Isreal/Deaconess, Cedars-Sinai Medical Center, Duke University, Intermountain Healthcare, Kaiser Permanente, Loma Linda University, Mayo, Sutter Health, University of Arkansas, University of Nebraska, VA
- - UnitedHealth Group
- EHR/HIT System Developers
  - · CentriHealth, Cerner, Epic, TLD Systems
- Consortia
  - Health Record Banking Alliance
  - Health Services Platform Consortia
  - Clinical Information Interoperability Council

#### Reducing Clinician Burden – Breaking It Down

# Topics/Categories (32)

- Administrative tasks
- Data entry requirements
- Scribes, data entry proxies
- Clinical documentation: quality and usability
- Prior authorization, verification, eligibility tasks
- Provider/patient
- Face to Face Interaction
- Communication
- Care coordination, team-based care Support for cost review
- Clinical work flow
- Disease management, care and treatment planš
- Clinical decision support, medical logic, artificial intelligence

- Alerts, reminders, notifications, inbox management
- Information overload
- Transitions of care
- Health information exchange, claimed "interoperability"
- Medical/personal device integration Product transparency
- Orders for equipment and supplies
- Support for payment, claims and reimbursement
- Support for measures: administrative, operations, quality, performance
- Support for public and population health

- Legal aspects and risks
- User training, proficiency
- Common function/information models
- Software development priorities
  - End-User Feedback
- Product modularity
- Lock-in. data liquidity. switching costs
- Financial burden
- Security
- Professional Credentialing
- State of data content quality

# Analysis Worksheet – Tabs

- 1. Burdens
- 2. Time Burdens
- 3. Data Quality Burdens
- 4. Terms: Reducing, Clinician, Burden
- 5. Reference Sources
- 6. Contacts: EHR WG Co-Chairs
- 7. Acknowledgements: Reviewers + Contributors

# Analysis Worksheet – Columns

- B) Clinical Burdens Raw Input
- C) Recommendations Raw Input
- D) Reference Sources
- E) Targeted RCB Recommendation(s) refined from our reference (and other) sources
- F) RCB Proposals and Successful Solutions

# **Targeted Recommendations**

WHAT – Burden Targeted	WHO – Might Best Address Burden		
<ul> <li>Health Informatics Standards</li> <li>HL7 EHR System Functional Model/ Profiles</li> <li>Messages (HL7 v.2x), Documents (HL7 CCDA), Resources (HL7 FHIR)</li> <li>Implementation Guides</li> </ul>	Standards Developers/Profilers:  • DICOM, HL7, IHE, ISO TC215, NCPDP, ASC X12N Standards Coordinating Bodies  • Joint Initiative Council	ed <u>Clinicians</u>	
Regulation, Policies	Government, Accreditation Agencies	age	
Claims, Payment Policies	Public and Private Payers	ngag	
System/Software Design	EHR/HIT System Developers/Vendors	ш	
System/Software Implementation	System Implementers	With	
Advisories	Professional Societies, Consultants		

# Project Plan

#### Now

- Continue environmental scan to compile burden topics
- Engage small teams to address burden topics/categories
- Refine, develop targeted recommendations to reduce burdens
- Identify:
  - What is the burden targeted?
  - Are there existing recommendations for targeted burdens?
  - Who might best address burden?
  - Burdens already tackled: with proposals and/or successful solutions

#### Then

Publish and work to implement recommendations

# Teams Engaged

- Clinical documentation, quality and usability
  - Lead: Dr. Lisa Masson (<u>Lisa.Masson@cshs.org</u>)
- Clinical decision support, medical logic, artificial intelligence + Alerts, reminders, notifications, inbox management + Information overload
  - Lead: Dr. James McClay (jmcclay@unmc.edu)
- Clinical workflow
  - Lead: Dr. David Schlossman (<u>dschloss39@gmail.com</u>)
- System lock-in, data liquidity, switching costs
  - Lead: Dr. Michael Brody (<u>mbrody@tldsystems.com</u>)
- State of data content quality
  - Leads: Dr. Reed Gelzer (<u>r.gelzer@snet.net</u>), Gary Dickinson (<u>gary.dickinson@ehr-standards.com</u>)

# Teams Engaged

- Anticipated: More teams to form (focused on RCB topics)
- To participate: Contact team lead
- Process is open, transparent and inclusive All are welcome!

### Additional Tasks for Volunteers

- Review ONC DRAFT "Strategy on Reducing Regulatory and Administrative Burden Relating to the Use of Health IT and EHRs"
  - Develop HL7 Comment Recommendations
- Review Recent US CMS Initiatives and Impact on RCB
  - CMS Patients over Paperwork Initiative:
    - Link 1 Link 2
  - CMS Meaningful Measures:
    - Link

3 December 2018

- CMS Evaluation and Management Guidelines:
  - <u>Link 1</u> <u>Link 2</u>
- Refine Our RCB Terms

### To Be Considered

- What are the risks if burden is not reduced?
  - e.g., clinician burnout, clinicians choosing other roles/assignments
- If clinician burdens are reduced...
  - Are burdens increased elsewhere (e.g., to other members of the healthcare team)?
  - Are benefits to other aspects of the health/healthcare business model also reduced?
  - What is the trade-off: Safety? Cost? Time? Efficiency? Effectiveness?

### Schedule

- Bimonthly teleconferences, Monday at 3PM ET (US)
  - 1st and 3rd Mondays each month (19 November, 3 and 17 December, 7 January)
  - Register at GoToWebinar:
     <u>https://attendee.gotowebinar.com/register/1978986084296101377</u>
     (After registering, you will receive a confirmation email containing information about joining the webinar.)
- Small teams meet independently: TBA
- Next face-to-face
  - HL7 Meeting in San Antonio
  - Thursday, 17 January 2019

### Contacts

- Comments on the DRAFT analysis worksheet are welcome (including additional reference sources) and should be addressed to the HL7 EHR WG Co-Chairs:
  - Gary Dickinson FHL7, Lead: <u>gary.dickinson@ehr-standards.com</u> CentriHealth/UnitedHealth Group
  - Michael Brody DPM: <a href="mbrody@tldsystems.com">mbrody@tldsystems.com</a>
     TLD Systems
  - Stephen Hufnagel PhD: <u>stephen.hufnagel.hl7@gmail.com</u> Apprio Inc
  - Mark Janczewzki MD: <u>mark.janczewski@gmail.com</u>
     Medical Networks LLC
  - John Ritter FHL7: <u>JohnRitter1@verizon.net</u>
  - Pele Yu MD: <u>Pele.Yu@archildrens.org</u> Arkansas Children's Hospital

### Reference Points

- Latest Project Documents
  - Project overview
  - DRAFT Analysis worksheet
  - Links to reference sources http://wiki.hl7.org/index.php?title=EHR\_Interoperability\_WG#.22Reducing\_Clinician\_Burden.22\_Project
- Comments may also be directed to:
  - US Centers for Medicare/Medicaid Services (CMS) reducingproviderburden@cms.hhs.gov