ACP-COVID

A Trial to Evaluate an Advance Care Planning Video and Communication Skills Training Intervention for Older Adults During an Evolving Pandemic





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HARVARD **MEDICAL SCHOOL**



Dr. Volandes has a financial interest in ACP Decisions, a non-profit organization developing advance care planning video decision support tools. Dr. Volandes' interests were reviewed and are managed by MGH and Mass General Brigham in accordance with their conflict-of-interest policies. No other disclosures to report.

THANK YOU!

- National Institute on Aging
 - Dr. Richard J. Hodes
 - Dr. Marcel Salive
 - Dr. Jeri Miller
 - Dr. Yuchiao Chang
 - Dr. Charlotta Lindvall
 - Northwell Health
 - NIH Common Fund
 - NIH Collaboratory

Story

Study

Future







Promoting Effective & Aligned Communication in the Elderly



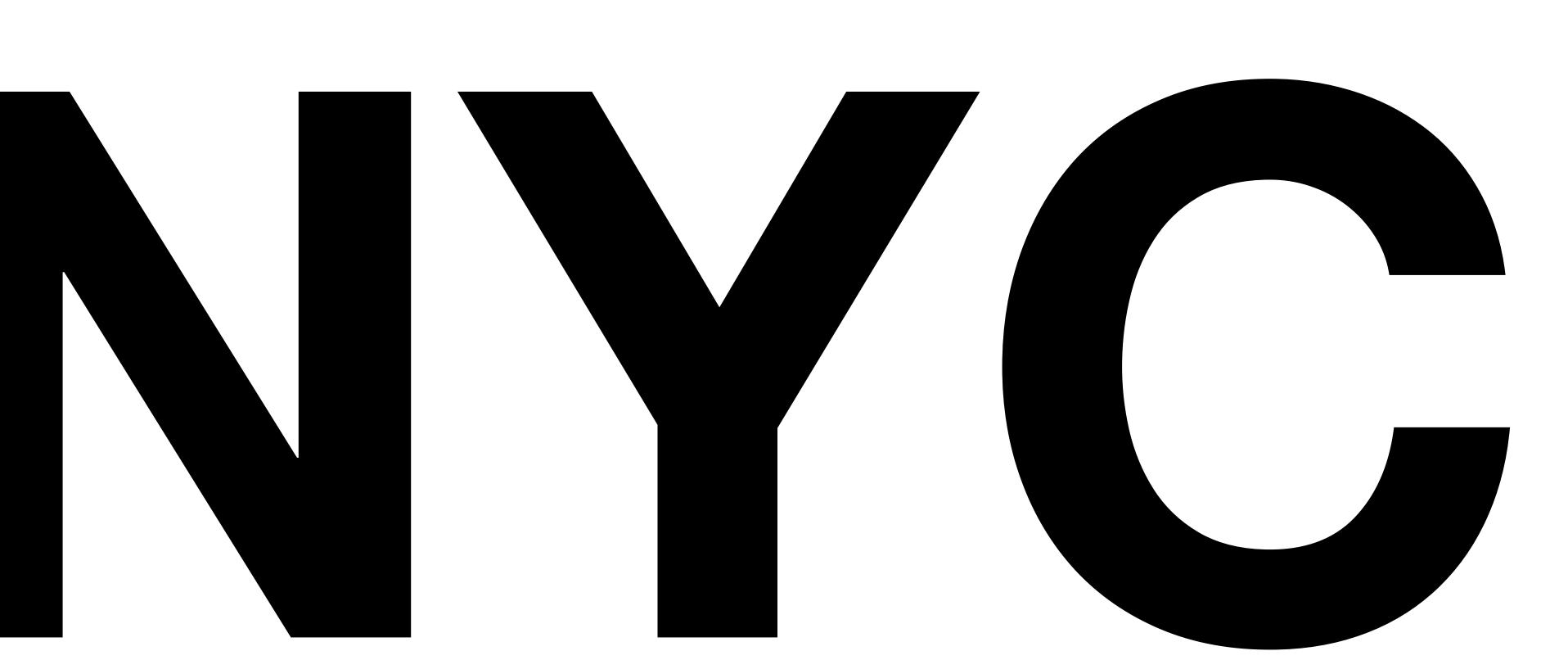
Promoting Effective & Aligned Communication in the Elderly

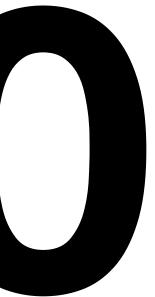










































Communicating with Outpatients for Vital Informed Decisions









We want to be the transmitter to be the production W T T T T T T T T T T T T T T T

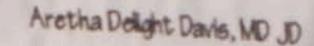






Have The Conversation Talk to your loved ones Talk to your health care team





Coronavirus Disease 2019





Fever

Coughing

Problems Breathing



Respiratory System





Pfizer and Moderna



Cómo funcionan Efectos secundarios Preguntas frecuentes











VitalTalk's MISSION

There is nothing more powerful than a clinician that knows how to listen and respond.

Every patient deserves a clinician who meets their health needs with clear and empathic communication.

It is from this mission that VitalTalk was born.



VitalTalk is a nonprofit founded by three doctors, born out NIH research funding. We are the leading organization providing evidence-based communication trainings with nationally recognized founders.

We have over 650 clinicianfaculty trained across the country.

WHO WE ARE



Our experience ranges from tertiary medical centers to community clinics, training cardiologists, oncologists, hospitalists, and more.

"VitalTalk is the gold standard of clinician communication trainings" JOHNS HOPKINS PROVIDER

Where do we get stuck when discussing goals of care?



Learning a new skill is about observation, practice, and feedback







- Intros
- Learn/See a talking map for goals of care
- Skills practice: 2 Patients
- ACP COVID study discussion





REMAP

For Late Goals of Care Conversations

REFRAME the situation

EXPECT EMOTION respond with empathy

MAP out important values

ALIGN with the patient & family

PLAN treatment to uphold values



Analysis

pragmatic trial

- Two Control Periods:
- Pre-COVID-19 Baseline (Sept 15, 2019-March 14, 2020) • First wave COVID-19 Baseline (March 15, 2020-Sept 14, 2020) Intervention Period (Dec 15, 2020 – June 14, 2021)



Trial Design: Pre-Post, open cohort, non-randomized, controlled

Primary analysis: Compare Intervention and First Wave



Analysis

Statistical Design:

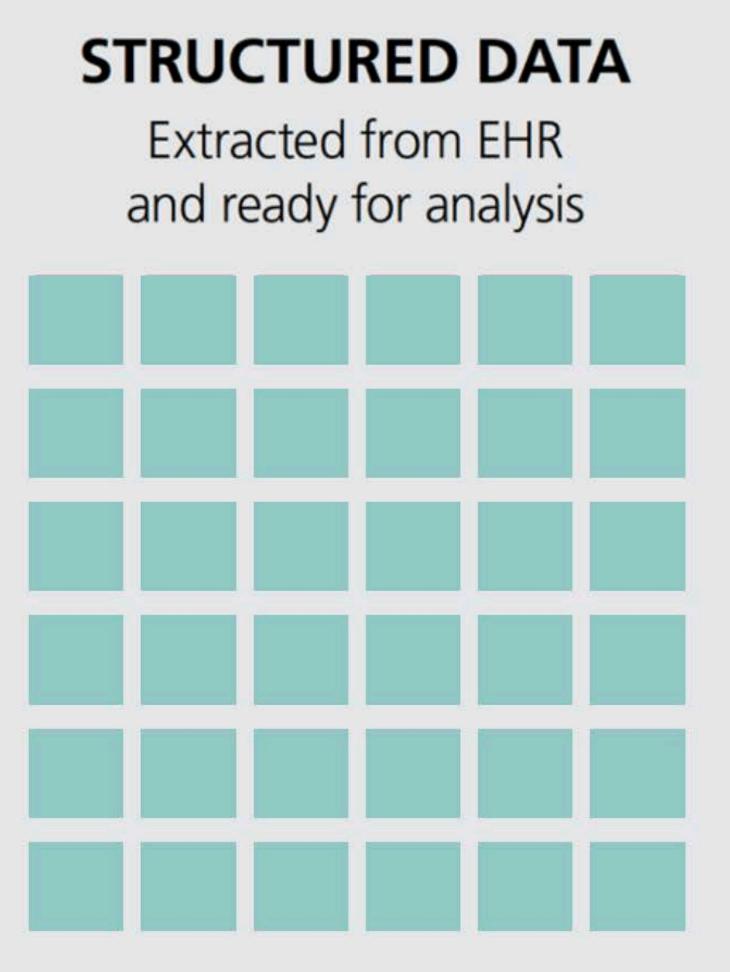
- Intention-to-Treat Analysis
- (combined and separate)

Sample Size: 7,800 patients and 150 clinicians



 Generalized estimating equations approach to account for clinic practice clustering and repeated measures over time • **Prespecified subgroup analyses**: change from control to intervention between white and non-white minorities





	MASSACHUSE
	APOINTMENT OF AGE
PRINT YOUR NAME	(1) I,
PRINT THE NAME, HOME ADDRESS AND TELEPHONE NUMBER OF YOUR AGENT	(name, hom as my health care age except to the extent th
	This Health Care Proxy is made by my attendi communicate my own make such determinat regarding the cause at probable duration.
(OPTIONAL) PRINT THE NAME, HOME ADDRESS AND TELEPHONE NUMBER OF YOUR ALTERNATE AGENT	(2) Name of alternate unwilling, or unavailab
	(name, home add
	(3) I direct my agent to wishes and limitations knows. If my wishes a decisions in accord with interest.
© 2005 National Hospice and Palliative Care Organization. 2022 Revised.	

ETTS HEALTH CARE PROXY - PAGE 1 OF 4

ENT

hereby appoint

ne address and telephone number of proxy)

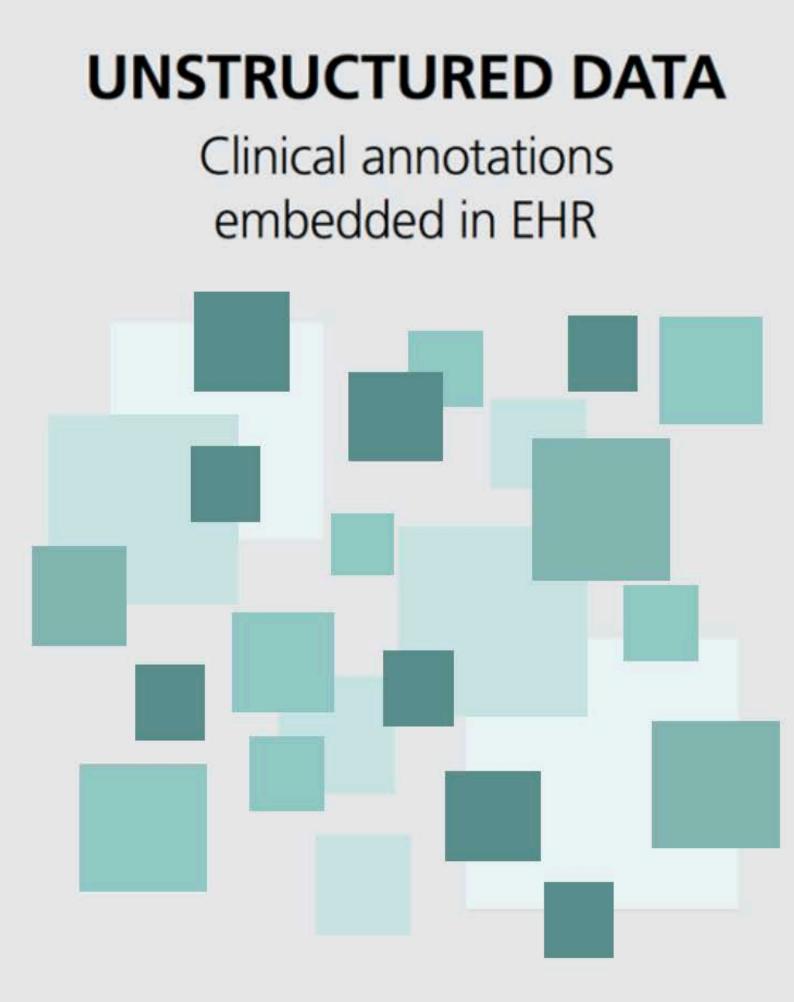
ent to make any and all health care decisions for me, hat I state otherwise below.

sy shall take effect in the event that a determination ling physician that I lack the capacity to make or to health care decisions. My attending physician shall tion in writing, and shall include his or her opinion and nature of my incapacity, as well as its extent and

agent if the person I appoint above is unable, ble to act as my health care agent (optional):

dress and telephone number of alternate agent)

to make health care decisions in accord with my s as may be stated below, or as he or she otherwise are unknown, I direct my agent to make health care ith what he or she determines to be my best



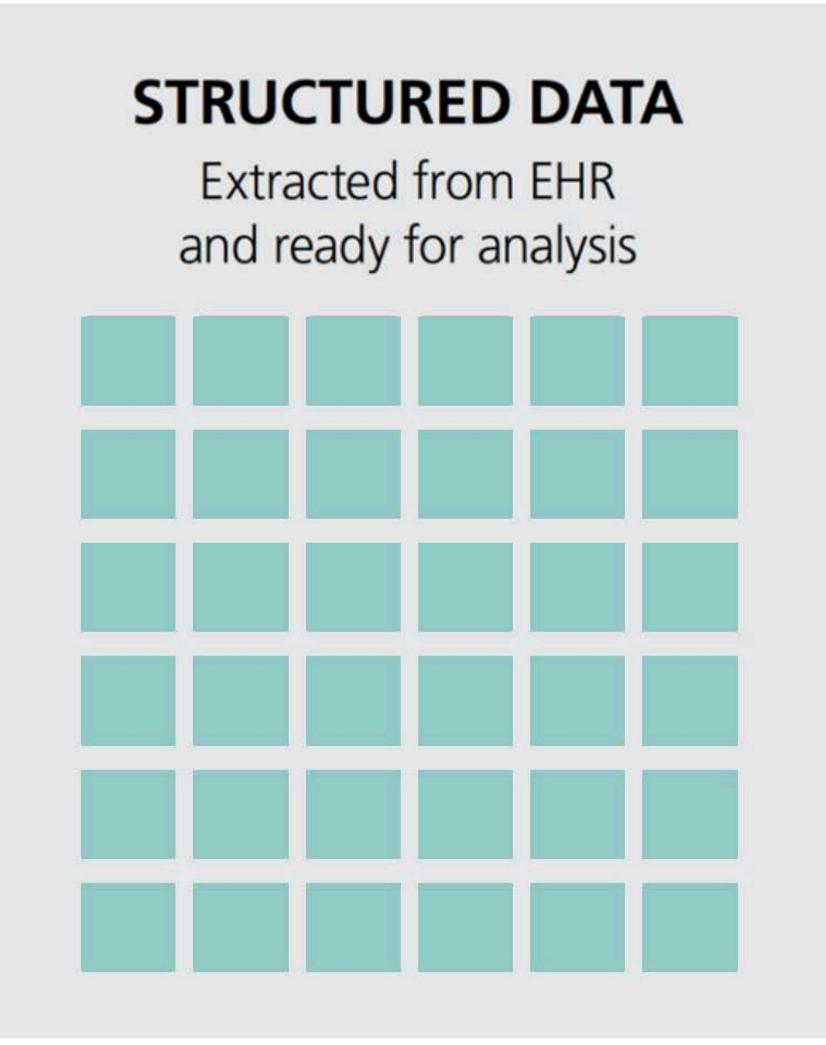
past medical history of a blood dyscrasia requiring weekly transfusions, and on admission found to have pancytopenia. His family (2 daughters and a son) are all in agreement that they would like no heroic measures, no blood transfusions, no resuscitations, and no blood pressure interventions. They would like comfort measures only, however would like their father to remain intubated until they arrive Chief complaint:

UNSTRUCTURED DATA

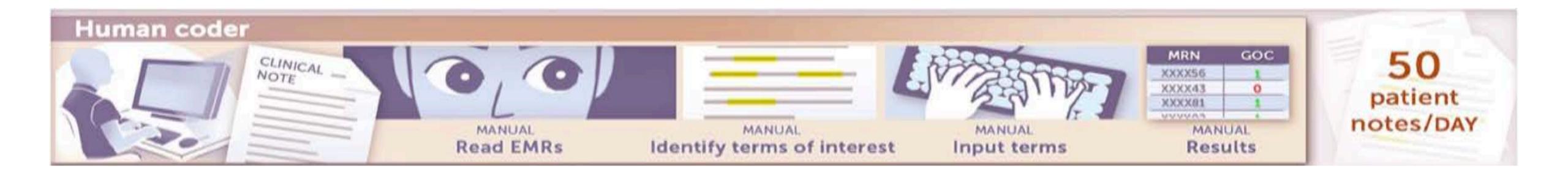
Clinical annotations embedded in EHR

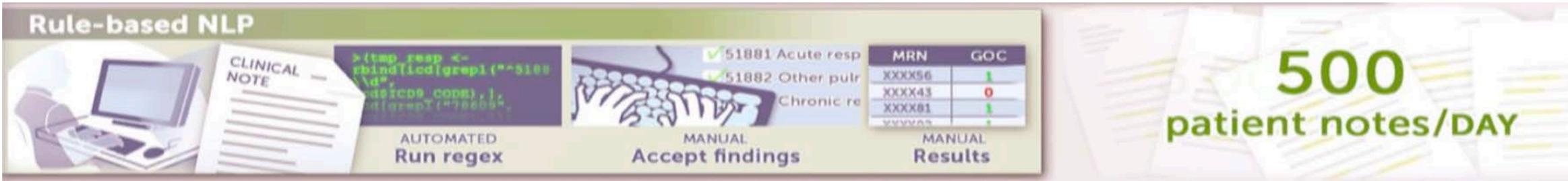


70-80% of patient EHR data is unstructured

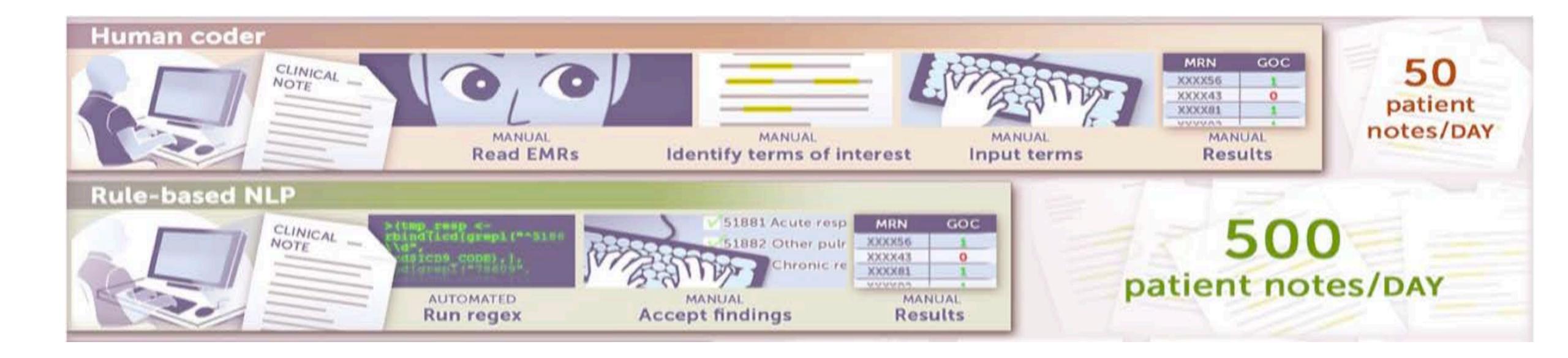


40% of structured data is recorded incorrectly or are duplicative





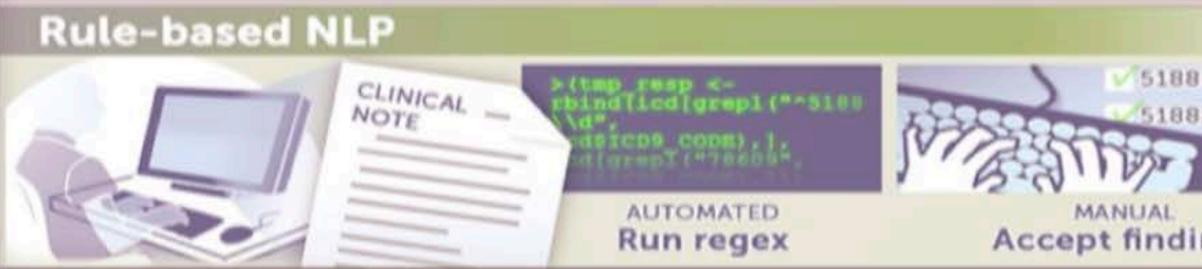




Rule-Based NLP

Natural Language Processing (NLP) refers to a branch of artificial intelligence which allows computers to process and analyze language

Rule-Ba**Rad NG-Basec At sec** ified set of rules (i.e., keywords and phrases) to process and analyze language



1 Acute resp	MRN	GOC	FOO
2 Other pulr	XXXXX56	1	500-
and the second se	XXXX43	0	
Chronic re	XXXX81	1	
	VVVVAA	1	patient notes/DAY
ngs	Results		

Rule-Based NLP in ACP-COVID 1) Identify the outcome of interest and outline it's related domains

Rule-Based NLP in ACP-COVID 1) Identify the outcome of interest and outline it's related domains 2) Create a keyword library and annotations guidelines which represent how the domains are documented

"Durir g goals-of-"Come patient indicated disc ussion witthat walking with a cane and far nily, pt expineteed of a walker is one wish to be homer their goals of care"



Study Demographics

Female (%)

Hispanic or Latino (%)

Non-Hispanic Black (%)

EHR Notes per Study Period

- 185 clinicians trained from 22 Northwell Health sites
 - 9 trainings over 4 months

- 82% of participants were very or somewhat likely to recommend the course
- into practice

• 74% of participants were very likely to put the skills they learned



Describe one or two of the most important take-away lessons for you personally....



"This course allowed me to . . . improve on my shortcomings in conveying information"

"Course instructors were fantastic, very enthusiastic and comprehensive" "Empathy never causes harm"

"Asking permission . . . places more focus on what matters to the patient"



What aspects of the course did you find most impactful...

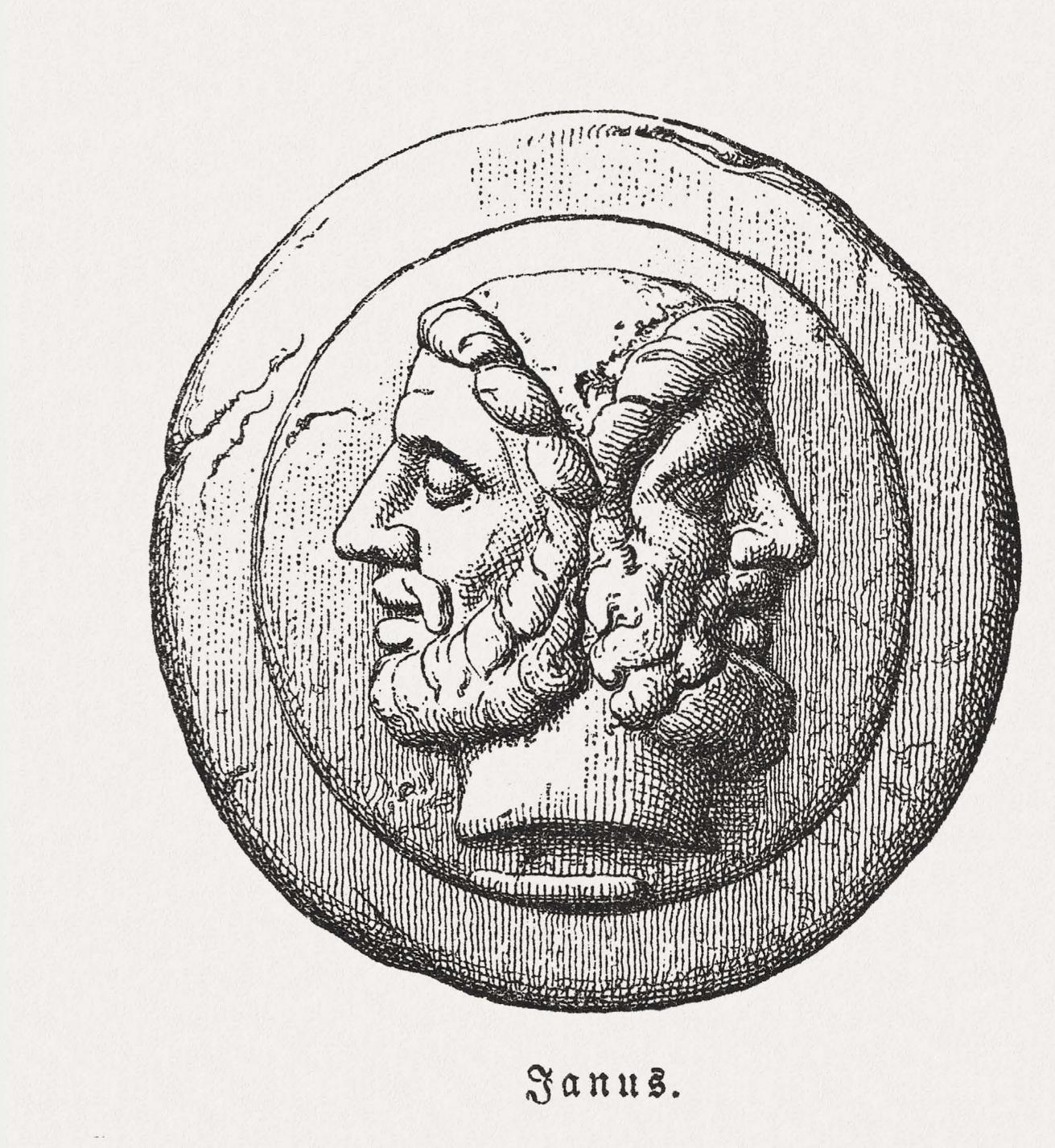


"Real simulated patients, empowered by proposed steps to take"

"Participating in and observing my peers work through challenging conversations"

"Telling my patients honestly that despite them being healthy, they were at high risk of dying if they acquired COVID-19"









Communicating with Outpatients for Vital Informed Decisions

"It's all about implementation, implementation, implementation."

FUTURE

Vince Mor and Susan Mitchell

PRO/FN

PRagmatic Trial of Video Education in Nursing Homes



Communicating with Outpatients for Vital Informed Decisions

iPad

2320



iPad texts emails

5302

FUTURE

video cards







PRD/FN

PRagmatic Trial of Video Education in Nursing Homes



Communicating with Outpatients for Vital Informed Decisions

Staff training



~50%



FUTURE

VITAL talk

Dedicated ACP Staff?

85%





PRagmatic Trial of Video Education in Nursing Homes



Communicating with Outpatients for Vital Informed Decisions

Medium Diversity

-Black

FUTURE

High Diversity -Hispanic

Over-sample -Black -Hispanic -Rural -SGM



PRDVFN

PRagmatic Trial of Video Education in Nursing Homes



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Randomized

FUTURE

Pre-Post

Randomized





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