MEDINFO23

8 – 12 JULY 2023 | SYDNEY, AUSTRALIA

@twitterhandle

The role of AI in Clinical Documentation

Kathy Wilton

Clinical Manager

3M Australia

AIDH IMIA

What is it

The patient story

Diagnoses, procedures, laboratory, medications, medical decision making, treatment plans, subjective descriptions and objective findings.

The goal

Complete,

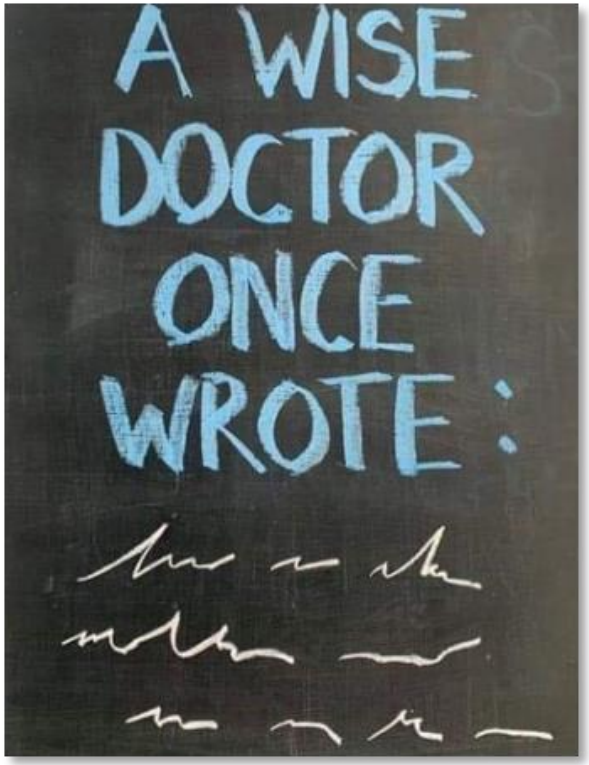
Accurate,

Specific

documentation in the medical record to reflect the patient's true complexity of illness and accurate hospital quality profiles

The uses

- Patient care
- Clinical decision support
- Patient outcomes and quality of care
- Hospital metrics
- Case mix complexity
- Reimbursement
- Third party


A WISE
DOCTOR
ONCE
WROTE:

Training

Artificial Intelligence

NLU, NLP, Machine Learning, Deep Neural Networks

AI Content

Industry Intelligence

Clinical Intelligence, Coding Compliance, Quality Compliance, Regulations, Coding Rules, Machine Learning, Deep Neural Networks

Technology

- Clinical point of care
  - 3M CDI Engage
    - Pneumonia
      - Documentation of pneumonia and antibiotic therapy without documentation of the type of pneumonia.
    - RSV
      - Documentation of RSV without documentation of RSB bronchiolitis or pneumonia

CDI Engage

- Each edit/nudge follows a standard format with unique
  - Requirement
  - Evidence
  - Defining logic
  - Default messages

Technology

- Clinicians
  - Nudges appear in line with the EHR workflow in real time, generated by NLU reasoning over the documentation.
  - This means common documentation gaps are resolved proactively and before the note is saved in the medical record

Technology

- For the CDI teams and Clinical Coders:
    - The NLU can prioritise worklists – these are customizable and can uncover episodes with the most opportunity.
    - There is visibility to the real time nudges provided to the clinician
    - The NLU generates evidence sheets to support documentation queries

Prioritisation of CDI worklists

- CDI Team are able to prioritise episodes with the greatest opportunity to clarify documentation
  - Evidence without documentation
  - Documentation without evidence
  - DRG (Diagnosis related group)
  - Clinical unit
- Autogenerated worklist
  - Prioritised by focus of department

Thank You