

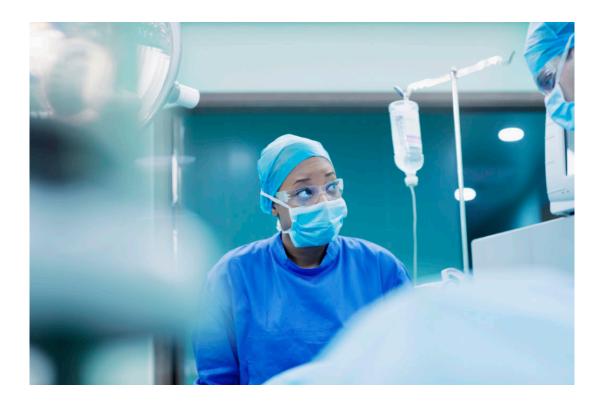


Healthcare AI, Documentation capture

Leveraging AI to improve patient safety in the emergency department

Nuance Guest Blogger

April 8, 2021



Just three diagnostic errors account for nearly 75% of all serious harm to patients. Misdiagnosed cancers, vascular events, and infections accounted for this and \$1.8 billion in malpractice payouts.

This blog was contributed by guest blogger Daniel J. Sullivan, MD, JD, FACEP from The Sullivan Group.

A 2020 study by Newman-Toker, et al. identified that 15 diseases account for about half of all serious misdiagnosis-related harms. The research focused on the "Big Three" categories of vascular events, infections, and cancers and found that 10% of patients with a "Big Three" disease are misdiagnosed.

A likely explanation for this result is that practitioners encounter these conditions infrequently, are not familiar with the variable presentations, and are prone to cognitive errors in the diagnostic process.

These diseases require a consistent, thorough evaluation that focuses on the history and exam's diagnostic features that should prompt the practitioner to include the condition in the differential diagnosis. The authors of this study concluded succinctly that their findings allow us to "target diagnostic improvement initiatives to diseases with the highest error and harm rates."

Additional studies outline the failure to diagnose profile demonstrates omission of elements in history

taking, physical exams, and medical decision-making.

Reducing Diagnostic Error

Leveraging 30 years of data into the root causes of the failure to diagnose, Nuance partnered with The Sullivan Group to develop ED Guidance for Dragon Medical Advisor, an Al-based decision support tool. ED Guidance for Dragon Medical Advisor specifically targets the most common diagnosis-related errors.

ED Guidance for Dragon Medical Advisor drives clinical alignment around elements in the history, physical exam, and medical decision-making that improve diagnostic certainty. Additionally, the algorithms help identify possible high-risk conditions and passively notifies the practitioner of a "Risk Identified." Importantly, ED Guidance for Dragon Medical Advisor also fits comfortably within the practitioner workflow. This real-time clinical feedback helps physicians avoid medical errors before they become an adverse event or malpractice claim.

For the last 30 years, I have taught risk and safety to 4,000 medical directors and tens of thousands of emergency practitioners. While I enjoy lecturing, unfortunately, it does not lead to a sustained change in clinical practice that keeps patients and providers safe. Utilizing AI allows us to bring these risk and safety elements to the bedside. Since wrong or delayed diagnoses cause more wrong serious harm to patients than any other type of medical error, leveraging AI is the most promising way to reduce diagnostic error.



Staff Pictures- The Sullivan Group, Oakbrook Terrace October 26, 2005 © Michael Hudson, All Rights Reserved

Dr. Dani el J. Sulli van is reve red by man y as а lumi nary with in the heal thca re risk man age men t and pati ent safe tv indu strie s. Ove r the past 25 year s, he has deliv ered hun dre ds of

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y. Dr. Sulli van' S pass ion and visio n for pati ent safe ty has garn ered him the resp ect of his peer S whil е earn ing ACE P's Coli n C. Rorr ie Jr. Awa rd for Exce llenc e in Heal th Poli су and ACE P's Out stan ding Spe aker of the Year Awa rd. Give n the rece nt era of heal thca re IT, Dr.

Sulli van has dire cted а signi fica nt amo unt of his atte ntio n tow ards rede signi ng EMR appl icati ons to imp rove pati ent safe ty and clini cal wor kflo w. His lect ures on heu risti cs, hum an fact ors engi neer ing, and EMR med ical liabil ity hav е bee n instr ume ntal in sha ping the disc ussi

on bet wee n clini cian s and IT adm inist ratio n for man y heal thca re orga niza tion S acro SS the cou ntry. Lear n mor е abo ut Dr. Sulli van and the Sulli van Gro up here

Tags: ED guidance, Dragon Medical Advisor, Patient safety, Customer success story

More Information

Real time guidance to improve patient safety in the emergency department

ED Guidance for Dragon Medical Advisor, with emergency department content from The Sullivan Group, adds real-time clinical documentation advice to one of the earliest and most critical points in care while alleviating the administrative burden on clinicians.

Learn more