corti.ai

Corti

AI for Emergency Services

from

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EST. 1990

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Introducing Corti

Globally, healthcare systems are suffering from increasing costs while simultaneously continuing to care for patients who expect better access to more advanced healthcare and improved outcomes.

Corti has created a solution to this problem.

Corti provides Fire & EMS departments with the ability to deliver good health to their patients in a faster, more efficient manner.

Corti offers two products, **Explore and Triage**, to guide call-takers through every confusing, problem-laden touchpoint of the emergency call.

Corti's software leverages artificial intelligence during every emergency call and enables all call-takers to consistently improve their performance and assist with detecting critical illnesses, such as cardiac arrest or even new health threats such as COVID-19.

Introducing Corti

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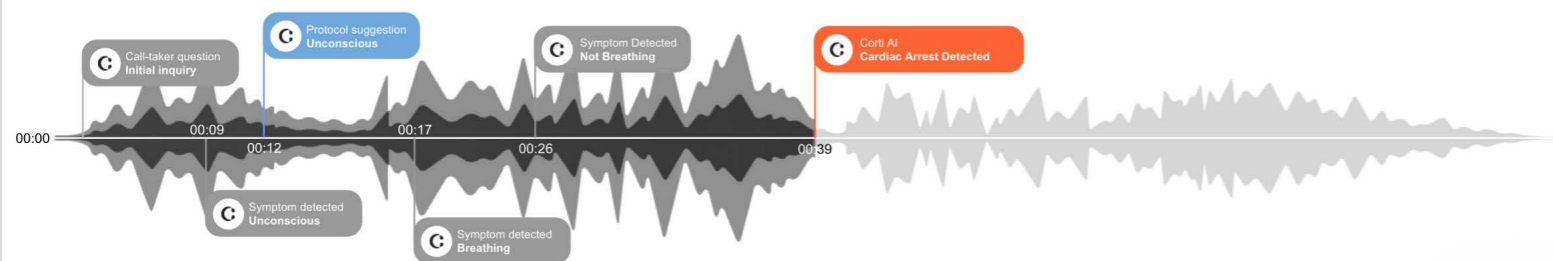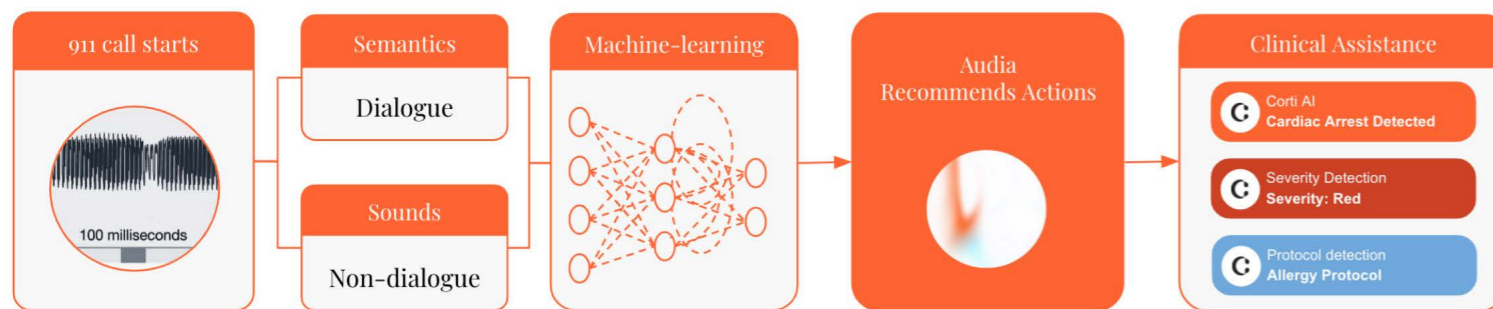800.466.1152

A Data-Driven Approach

To solve some of the most challenges happening in Public Safety, Corti has built its technology based on a fully data-driven approach. We leverage the most recent research in artificial intelligence to analyze every millisecond during a 911 call and constantly evaluate the severity of the call.

We analyze two concrete features of an audio stream:

1. The dialogue between caller and call-taker.

2. The non-dialogue in the form of relevant sounds. An example is agonal breathing, which is often present in cases of Cardiac Arrest or Stroke.

Corti automatically annotates the call with all the key events based on semantics and sounds, transforming a complex 911 call into a highly structured overview which can be analyzed during or after a 911 call.

One example of Corti's machine learning models is the out-of-hospital cardiac arrest detection model. The model has been trained to identify how a Cardiac Arrest sounds like when being described to a call-taker by a bystander and understands key determining markers in the audio. The model has been proved to reduce time-to-detection of a cardiac arrest as well as increase the amount of cardiac arrests detected.

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Corti   The Technology

Corti Explore

Explore is as an analytical assistant to call-takers across public safety. During calls, Explore utilizes information from millions of historical calls and provides call-takers with actionable insights which include the tools to assess health trends or react to situations to increase patient safety.

Some of the benefits of Explore are:

Accelerated Case Review: A centralized case review platform with automatic case annotation. Reduce reviewing time by 90%.

Organization Quality Improvement: Review 100% of your call with an advanced data analytics platform helping ED-Qs and managers use information from every call to analyze trends and implement informed Quality Improvement strategies.

Instant call-taker feedback: An automated call-taker performance score which helps call-takers learn and improve through constructive feedback, ensuring they increase speed and accuracy whilst maintaining their autonomy.

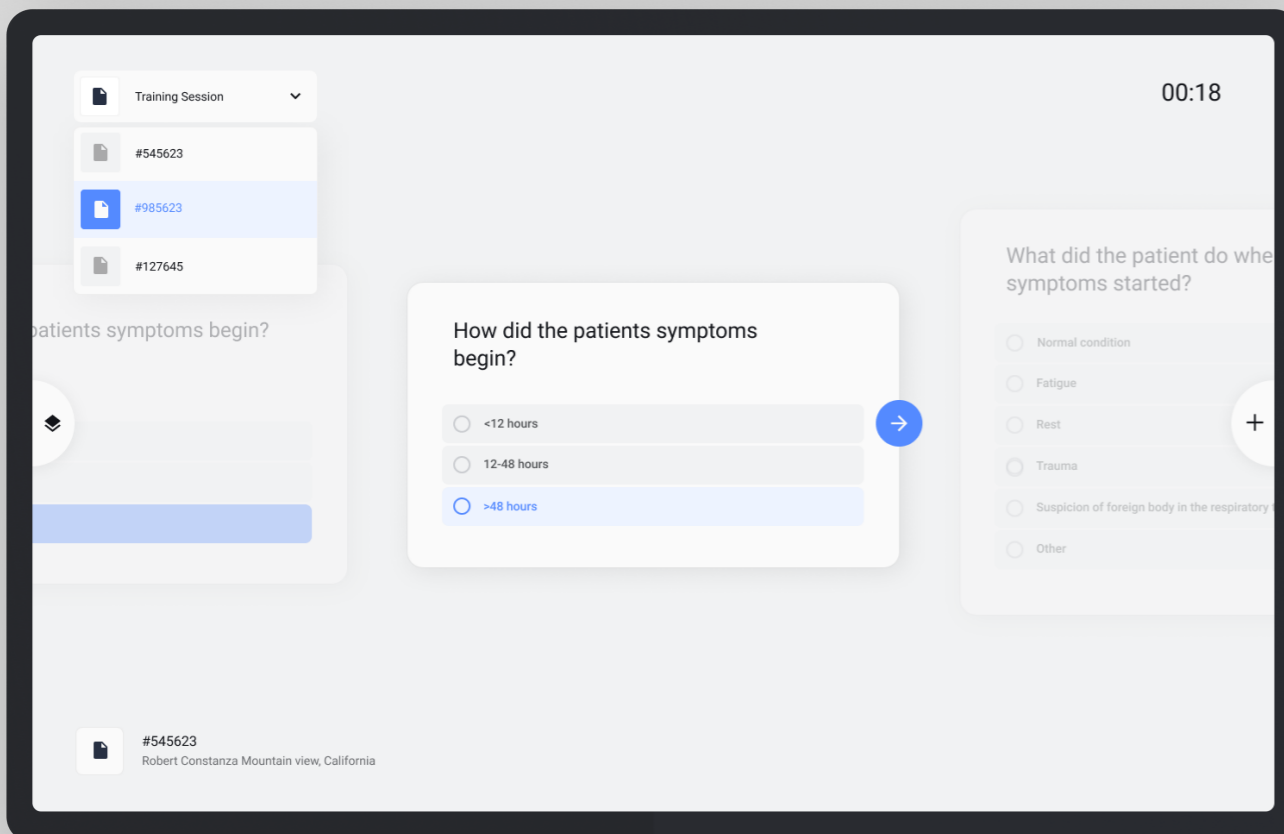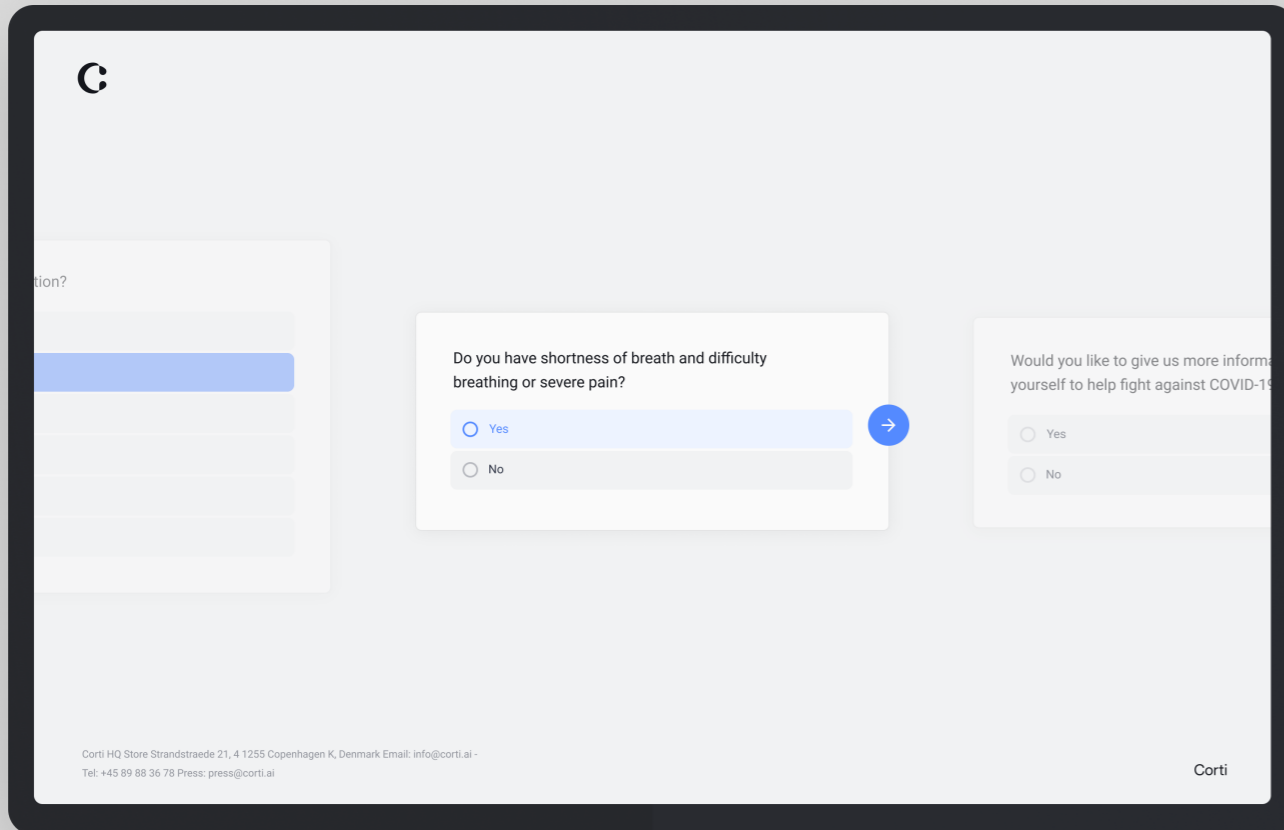**Industry Performance Benchmarking:** A live Corti performance score tracks organizational performance and provides improvement recommendations based on the learnings from global leaders in EMS.

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Corti Explore

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Corti Triage

Triage is a data-driven diagnostic decision-support application that guides call-takers, in real-time, through a call while supporting their decision making. Call-takers are able to reach a decision, and receive or deliver the right advice, in the fastest way possible.

Triage ensures that vital details from a call are identified by Corti's machine learning algorithms. These can include severity assessments, symptom detections, and critical illness alerts.

Some of the benefits of Triage are:

Integrated AI: Corti's AI can detect critical illnesses live on the call. You will benefit from up to a 40% increase in correct diagnosis rate and reach your 60 second target.

Protocol Suggestion: Triage guides call-takers to the right protocol and increases accuracy of dispatch decisions. You'll start experiences a 25% more accurate protocol selection and a 10% average on time-savings.

Automated PAIs: Call-takers are guided through Post-Dispatch Instructions (PDIs) whilst automating Pre-Arrival Instructions (PAIs) to ensure all key information is recorded and responders can work faster and safely.

CAD Integration: Corti's Triage efficiently integrates with existing CAD technologies, ensuring a fast and seamless set-up.

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Don't trust someone.
Trust the sum of everyone.

Where will you see value?

By implementing Corti into the public safety space, we hope to be part of creating a universal platform for every public safety department, where every emergency medical professional is able to regularly improve themselves while facing greater chances of saving lives.

Already, our customers are seeing increased value from our partnership.

43%
fewer errors when detecting critical illnesses

92%
of the time call-takers stick to the protocol

26%
faster when triaging a patient during an emergency call.

15%
Time savings by optimizing the protocol.

27%
more accurate in assessing criticality

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