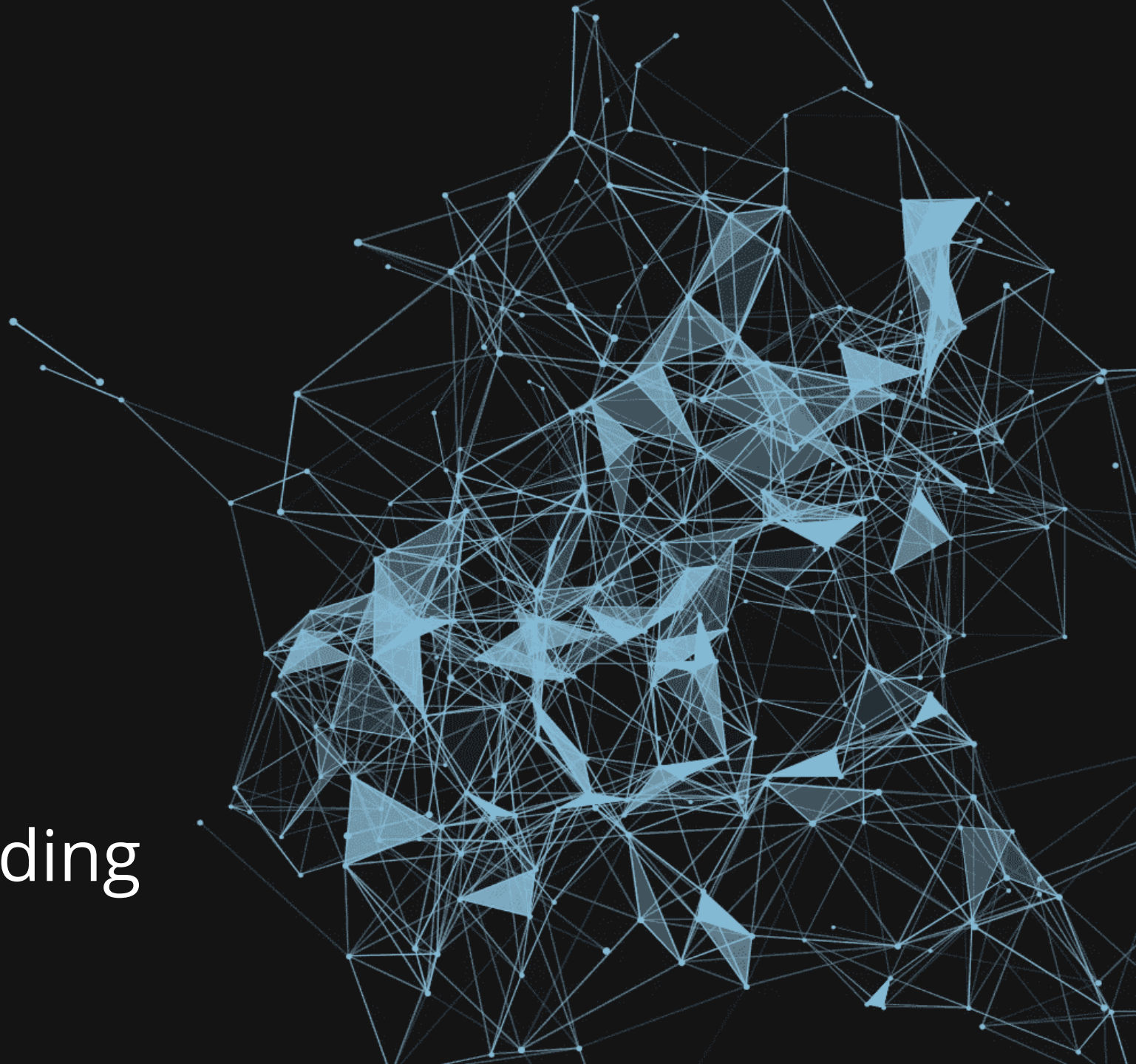**Tachy**Health

Bringing artificial intelligence (AI) to the medical coding practice

TachyHealth at AiEverything, The leading Artificial Intelligence Event in MENA
Dubai World Trade Centre, May 2019

Code © in a nutshell

AI powered medical coding system to improve the efficiency, decrease the processing time of any medical data (handwritten included), and increase the accuracy of results

AiCode is the next generation AI assisted medical coding solution that deploys cutting edge technology for effortless workflow

TachyHealth

Coding with Artificial Intelligence

The cognitive engine processes ANY computerized charts / medical records in seconds to the right coding output

Handwritten charts detection

The AI handwriting recognition tool process the non-digitized charts/ records in seconds to the right coding output

Voice dictation as an input

Medical coders can leverage the leading voice assistant to speak to the system to get the right coding output in seconds
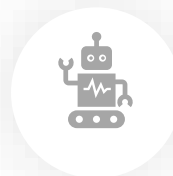
Code searching and finding

Smart searching and assistance is always there to help, and support whenever needed, embedded in AiCode

Easy to use, smart, and integrated solution for all coding requirements (ICD10-CM and AM, CPT, ACHI, DRG)

A solid value proposition that was tested and piloted with coders and subject matter experts

Increase in productivity: support the automation of the medical coding functions by +80% bringing value to the medical coding practice

Accessibility anytime anywhere: AiCode is always available, on mobile, on computers, 24/7. Camera can be accessed from the mobile for seamless work.

Doing more with less: the medical coders perform more coding output with less OPEX, focusing on complex charts and leaving machine for others

Frictionless experience: An easy-to-use and intuitive interface that takes <1 hour to learn. No additional skills required to master AiCode.

Excellence in coding: versatile and updated coding rules and errata. It minimizes the coding variation between covers and standardize the outcome

Growing and improving by time: the deep reinforcement learning model and the continuous R&D means you get better results each day

Unmatched productivity with AiCode versus legacy computer aided coding (CAD), code finders, and coding books

Current productivity with CAD*

70% ROI in 2 years

Productivity with AiCode*

Inpatient charts / records
$$\frac{1 \text{ inpatient chart}}{\textbf{60-110} \text{ minutes}}$$

Outpatient charts / records
$$\frac{1 \text{ outpatient chart}}{\textbf{4-12} \text{ minutes}}$$

Inpatient charts / records
$$\frac{1 \text{ inpatient chart}}{\textbf{10} \text{ minutes}}$$

Outpatient charts / records
$$\frac{1 \text{ outpatient chart}}{\textbf{1} \text{ minutes}}$$

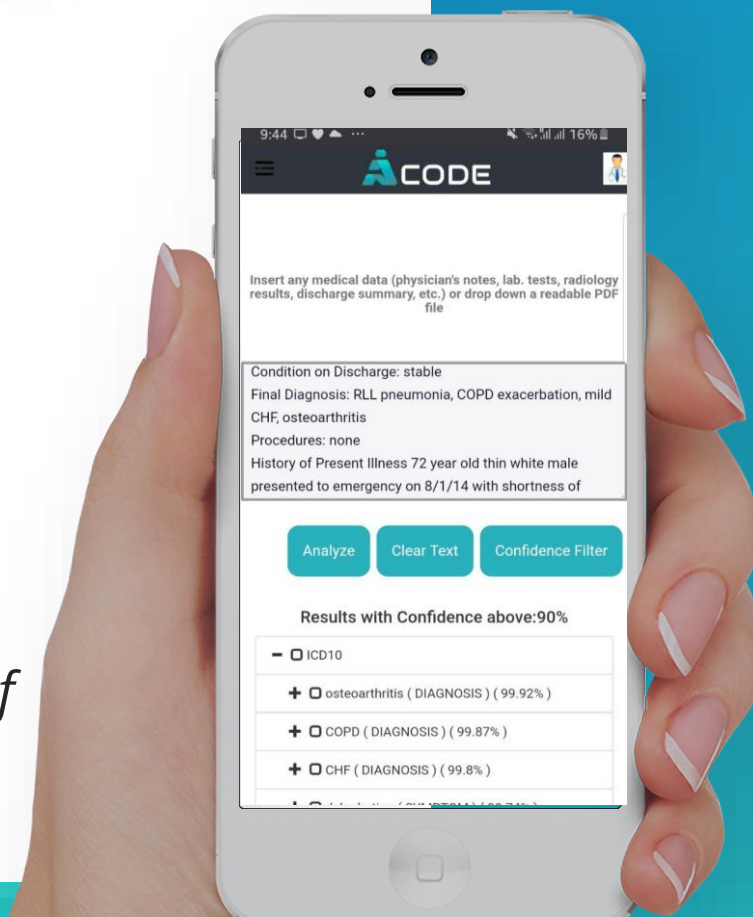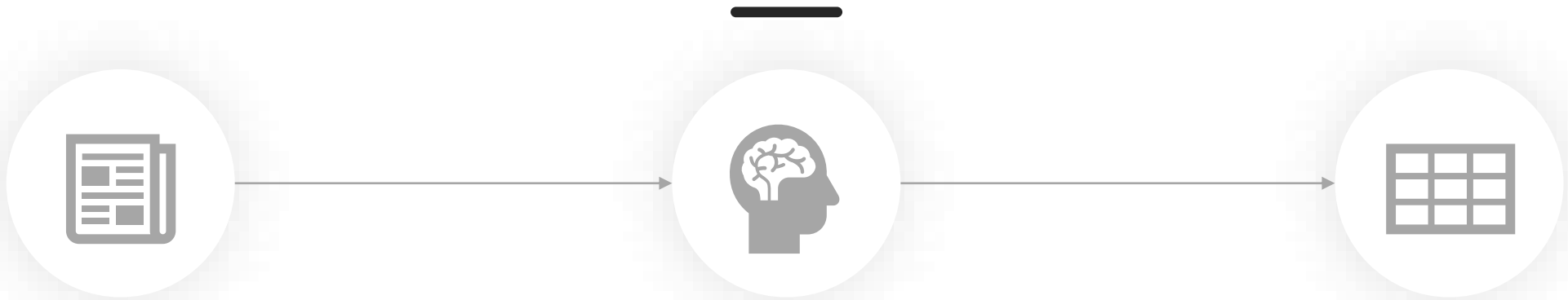**Highly dependent on medical coder's expertise and complexity of charts*

*AI takes 5 seconds, remaining for confirmation, no variation between coders

TachyHealth

9:44 📶 16% 🔋

AiCODE

Insert any medical data (physician's notes, lab. tests, radiology results, discharge summary, etc.) or drop down a readable PDF file

Condition on Discharge: stable
Final Diagnosis: RLL pneumonia, COPD exacerbation, mild CHF, osteoarthritis
Procedures: none
History of Present Illness 72 year old thin white male presented to emergency on 8/1/14 with shortness of

[Analyze] [Clear Text] [Confidence Filter]

Results with Confidence above:90%

– ⬚ ICD10

＋ ⬚ osteoarthritis (DIAGNOSIS) (99.92%)

＋ ⬚ COPD (DIAGNOSIS) (99.87%)

＋ ⬚ CHF (DIAGNOSIS) (99.8%)

We use our cutting-edge Artificial Intelligence algorithm to understand the medical information in any record

Input

Any unstructured records and medical charts; doctor notes, nurses notes, operative notes, discharge summary, lab results, radiology results, etc.

The AI system

Understanding of medical keywords, abbreviations, misspellings, correlations, language, topics, and contextual relations

Output

Structured tabular information about ICD-10 disease coding, procedures coding, tests, medications, and others in any desired table format

TachyHealth is the leading healthcare AI startup of the Middle East. We are on an exponential growth curve

We are proudly supported, accelerated, featured and grown by:

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