About Caption Health

Caption Health was founded in 2013 on a simple but powerful concept: what if we could use technology to emulate the expertise of highly trained medical experts and put that ability into the hands of every care provider? Our vision is to move specialty diagnostics and decision-making to the point of care for every patient exam. To accomplish this, we are developing AI software that empowers healthcare providers with new capabilities to acquire and interpret ultrasound exams. Caption Health was formerly known as Bay Labs.

Core Capabilities

Our AI technology portfolio includes three capabilities drawn from the expertise of sonographers and doctors.

Expert guidance
Performing ultrasound is a complex skill which typically requires years of training to master. Our unique investigational software is designed to use AI to provide real-time guidance, with the goal of enabling healthcare providers to capture diagnostic-quality images.

Intelligent interpretation
Interpreting ultrasound images can be complex and time consuming, and is a skill honed by physicians over many years of practice. Our proprietary AI interpretation software provides essential calculations to aid in clinical decision making.

Automated quality assessment
High variability in ultrasound acquisition can be a barrier to accurate diagnosis. Our algorithms automatically select the best clips from a study and quantify their image quality, enabling improved confidence in image acquisition and interpretation.

We have started with applying our technology to echo, ultrasound of the heart, but that is just the start. Our unique methodology allows us to develop and deliver transformational AI across multiple organs.

Capture expert skills
Our proprietary protocols enable us to efficiently collect algorithm training data from expert clinicians and healthcare institutions.
**Develop AI algorithms**
Our team includes experts in applying deep neural networks to capture expert skills, enabling fast iteration for algorithm development.

**Deliver impactful products**
Our deep understanding of clinicians allows us to frame our AI algorithms with intuitive user interfaces that fit into clinical workflow.

**Product Portfolio**

The Caption Health product portfolio consists of two products: Caption AI and CardioCare. Caption Health is using AI to empower clinicians with new capabilities.

1. **Caption AI**
   A transformational new ultrasound system that is designed to enable healthcare providers to perform ultrasound exams quickly and accurately. By providing clinicians with real-time guidance, automated interpretation, and quality assessment capabilities, Caption AI transforms patient care by enabling broader use of ultrasound at the point-of-care.

Incorporating Caption AI into clinical practice:

**Empowers frontline clinicians:** Caption AI makes a difficult exam simpler and more available by enabling the acquisition of diagnostic quality images and aiding in the interpretation of those images, thereby unlocking the power of ultrasound in the hands of more frontline clinicians caring for patients.

**Standardizes quality of exams:** Caption AI automatically assesses the quality of ultrasound exams by providing clinicians real-time feedback and data with the goal of increasing the number of clinicians who can confidently and competently perform ultrasound at the point of care.

**Enables institutions to realize the proven benefits of ultrasound:** Caption AI is designed to make available expertise and skill with the goal of allowing institutions to realize the proven clinical, economic, and operational benefits of ultrasound use to inform clinical decision making in a variety of settings.

2. **CardioCare powered by Caption**
   Sold by Edwards Lifesciences, CardioCare is a comprehensive quality management system for patients with structural heart disease. Quality assessment and interpretation capabilities from Caption Health will be added to the CardioCare offering to enable standardization of echo lab quality and to identify discrepancies in disease detection.
The Caption AI and CardioCare product suite have the potential to transform how care can be delivered in healthcare systems.

**Awards and Achievements**

- In 2018, Business Insider Intelligence report included Caption Health (formerly Bay Labs) as one of the top five startups disrupting healthcare in the artificial intelligence space
- Recognized by Analytics Insights Magazine as one of “The 10 Most Innovative Deep Learning Solutions Providers 2018”
- Caption Health (formerly Bay Labs) was recognized as one of the most promising AI startups in the Social Impact category at NVIDIA’s Inception competition in 2017
- Recipient of a National Science Foundation (NSF) Small Business Innovation Research (SBIR) grant to support the development of ultrasound guidance

**Management Team**

- [Andrew Page](#), CEO
- [Charles Cadieu](#), Co-founder and President
- [Kilian Koepsell](#), Co-founder and CTO
- [Dr. Randolph Martin](#), Chief Medical Officer
- [Matthew Self](#), Head of Engineering
- [Shara Senior](#), Head of Product
- [Yngvil Thomas](#), Head of Clinical Development
- [Christopher Larsen](#), Head of Sales
- [Glenn Davis](#), Strategic Business Management
- [Sam Surette](#), RA & QA Manager
- [Michael Cannon](#), Advisor
- [David Adams](#), Advisor

**Investors**

Caption Health is funded by Khosla Ventures, Data Collective, and other leading venture capital firms.

*Financing to Date: $20M*
Board of Directors

● Charles Cadieu, PhD, Caption Health
● Kilian Koepsell, PhD, Caption Health
● Andy Page, Caption Health
● Armen Vidian, Data Collective
● Bruce Armstrong, Khosla Ventures
● Rich Lunsford, Edwards Lifesciences

Academic Advisors:

● Dr. James DiCarlo, Department Head and Peter de Florez Professor of Neuroscience, Brain and Cognitive Sciences, Massachusetts Institute of Technology
● Dr. Bruno Olshausen, Director of the Redwood Center for Theoretical Neuroscience, Professor in the Helen Wills Neuroscience Institute and the School of Optometry, UC Berkeley
● Dr. Yann Lecun, Director of AI Research, Facebook, and Founding Director of the NYU Center for Data Science

Clinical Partners:

Our partners include:

● Northwestern Medicine
● Allina Health
● Minneapolis Heart Institute
● Edwards Lifesciences
● New York Presbyterian Hospital

Contact:

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