

# Enabling Faster Care Coordination for Vascular Care Teams





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## eBook

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# Introduction

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***Viz.ai is revolutionizing the way care teams communicate and access patient imaging, enabling faster patient entry into the care pathway.***

For clinical care teams dealing with potentially urgent conditions such as pulmonary embolism (PE) and acute aortic injury, time is of the essence.

Unfortunately, limited access to information (especially lack of access to patient imaging) combined with inefficient communication channels often creates extra work for providers and delays time to treatment.

Viz.ai is a revolutionary applied artificial intelligence company that develops software designed for and by clinicians that promises to reduce time to

treatment and improve access to life-saving therapies.

The Viz Intelligent Care Coordination platform identifies PE and aortic patients earlier, connects multidisciplinary care teams instantly, and coordinates complex care pathways. The Viz Platform for stroke has been clinically proven to synchronize stroke care, decrease time to treatment and greatly improve patient outcomes and now this same technology is being applied to vascular specialties.<sup>1</sup>

In this ebook, we discuss how Viz.ai accomplishes this by addressing three of the key pain points that create inefficiencies for PE and aortic care teams.



# Solving Pain Point #1: Accelerated Access to Patient Imaging

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Traditionally, limited access to patient imaging has created many challenges for PE and aortic care teams. Image review is limited to desktop monitors and designated workstations and is often inaccessible away from the hospital. This is especially inconvenient when a specialist is made aware of a potentially urgent condition while away from the hospital.

For instance, if the surgeon is alerted for a consult during off hours (such as in the middle of the night), this could require logging in to a computer, and in some cases, commuting to the hospital in order to view the imaging in person and make a treatment decision.

In cases with a high level of potential urgency, the surgeon may elect to call in the entire care team before he or she has had the chance to view the imaging and make a definitive diagnosis. If it turns out to be a false alarm, an entire care team has been activated needlessly. These false activations are costly, and they cause significant strain to the system and to the care team members involved.

## Viz.ai: Thousands of AI-Enhanced Images in Your Pocket

Viz.ai addresses this problem by providing the first mobile platform that gives providers access to high-res, dynamic imaging on smartphones and tablets. With Viz.ai, physicians can view and manipulate imaging from the most popular modalities, including CTA.

This capability helps to reduce unnecessary travel, enables faster care team activation and reduces time to treatment for patients.<sup>2</sup>

The Viz.ai platform further improves efficiency with AI-enabled alerts that automatically notify the right care team members when an issue is detected. Additionally, imaging is automatically uploaded to the Viz cloud, where it is accessible to all members of the care team at any time through the mobile app.

Security is our most important focus at Viz.ai. The cloud-native app requires authentication for users, provides customizable settings for de-identification, and will never save any images to the mobile phone or tablet. These are only accessible through the secure cloud.

"The addition of AI powered workflows should decrease the time from diagnosis to treatment and help to coordinate care for patients suffering from life-threatening PE and aortic disease, as it has in the treatment of ischemic stroke. It will help to facilitate faster and easier treatment decisions across health systems, and this should improve outcomes for patients," said Dr. Richard Saxon, Interventional Radiologist Tri-City Medical Center.





## Solving Pain Point #2: Faster Coordination for Multidisciplinary Teams

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**IN MANY URGENT CARE SITUATIONS, THE LIMITING FACTOR IN PROVIDING EFFECTIVE CARE IS NOT THE TREATMENT ITSELF BUT THE AMOUNT OF TIME SPENT ACTIVATING CARE TEAMS AND COORDINATING PATIENT CARE.**

Viz AI-enhanced alerts support triage of patients suffering from stroke, PE or aortic disease, enabling faster clinical decision making and care for patients suffering from these life-threatening conditions. This will empower multidisciplinary care teams to easily and quickly communicate to coordinate patient care once they receive an AI-enhanced alert, paired with dynamic imaging and detailed patient information on their mobile device or desktop.

Viz.ai provides a centralized, HIPAA-compliant communication platform that enables efficient coordination of multidisciplinary teams. The built-in Viz communication platform allows team members to message each other individually, message the entire team, and view all previous messages in an intuitive thread format. Pictures and videos can also be shared.

This communication system not only enables faster mobilization of the care team, but also helps to prevent miscommunication and/or non-communication of vital information, thereby eliminating the need for multiple phone calls to different team members who may be stationed in different locations.



# **Solving Pain Point #3: Share Patient Information Securely Across Hospitals**

When a patient is transferred between hospitals, the intaking hospital often lacks access to imaging that has previously been performed on the patient. This is true even when the patient is being transferred between hospitals in the same network. This can lead to costly repeated imaging studies due to the inability to view the scan from the initial hospital.

With Viz.ai, providers have access to all patient imaging minutes after the scan has been completed. Viz.ai automatically loads scans to the app based on the image modality and protocol. This ensures that no additional work for care teams after the scan has been completed and sent.

Additionally, the Viz.ai communication platform gives the intaking hospital access to patient notes and relevant previous communication regarding the patient's condition.

# Viz.ai Puts the Intelligent Care Coordination in Your Hands

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Viz.ai combines AI-powered PE & aortic dissection detection with high-res, dynamic mobile image viewing and a HIPAA compliant full-team communication platform to help providers coordinate care teams more efficiently than ever before.

## Benefits include:

- Quicker entry into the care pathway for patients
- More efficient sharing of patient information
- Reduction in false activation for care teams

**Visit our website today** for more information about how Viz.ai is revolutionizing care team coordination.

<sup>1</sup> Morey, J. R., Fiano, E., Yaeger, K. A., Zhang, X., & Fifi, J. T. (2020). Impact of Viz LVO on time-to-treatment and clinical outcomes in large vessel occlusion stroke patients presenting to Primary Stroke Centers. doi:10.1101/2020.07.02.20143834

<sup>2</sup> Hassan AE, Ringheanu VM, Rabah RR, Preston L, Tekle WG, Qureshi AI. Early experience utilizing artificial intelligence shows significant reduction in transfer times and length of stay in a hub and spoke model. Interv Neuroradiol. 2020;26(5):615-622.

## About Viz.ai

Viz.ai is the leader in AI-driven intelligent care coordination. Viz.ai's mission is to fundamentally improve how healthcare is delivered in the world, through intelligent software that promises to reduce time to treatment, improve access to care, and increase the speed of diffusion of medical innovation. Viz.ai's clinically validated platform leverages advanced deep learning to communicate time-sensitive information to specialists who can more quickly and easily make treatment decisions for the patient.

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