Clinical Application:
Structural Heart Disease

Millions of Americans suffer from cardiovascular disease.

Its impact is significant, causing more than 600,000 deaths and approximately $200 billion in direct and indirect costs, annually.¹

Minimally invasive interventional procedures are growing rapidly for the treatment of structural heart disease.

Collaborative Imaging from Canon Medical Systems provides a complete, integrated solution that helps medical practitioners address structural heart disease at every stage in the process — from evaluation to treatment.

Collaborative Imaging fuses multiple modalities with innovative clinical applications to deliver patient-centered care, every step of the way.

¹ Source: https://www.cdc.gov/heartdisease/facts.htm
SCAN

The best results come from the best planning. Our suite of Collaborative Imaging tools delivers clarity and confidence when diagnosing and planning interventional cardiac treatments.

Collaborative Imaging offers a wide range of intelligent scanning features:

- The Aquilion ONE / GENESIS Edition and Aquilion Prime SP deliver comprehensive heart imaging. The GENESIS offers Volumetric Scan Mode to acquire anatomical and functional data from a single heartbeat. Plus, the 3-phase Variable Helical Pitch automatically changes from ECG-gated to non-ECG-gated acquisition during a single helical scan.

  Practitioners may scan multiple vascular territories while potentially reducing radiation dose.

- *SURE* VOI with CardioLine+ — available on our suite of MR systems — enables automatic determination and placement for 14 cardiac views for improved, intelligent workflow.

Collaborative Imaging delivers intelligent acquisition thanks to innovative imaging modalities and applications.

ANALYZE

Canon Medical Systems delivers intelligent analytics to help facilities improve clinical, operational and financial outcomes — and deliver optimal patient-centric care.

With analytics powered by Vitrea Intelligence and CodexX, practices can strive to achieve:

- Improved operational outcomes via prescriptive analytics.
- Reduced clinical risks.
- Better dose efficiency and safety with dose management and reporting across the organization — per equipment and operator.
- Enhanced clinical workflows and operations thanks to Patient Cohort Analysis.
- Standardization of acquisition protocols across equipment, models and locations.

Experience enhanced clinical operations, thanks to intelligent analytics with Collaborative Imaging.

DIAGNOSE & TREAT

Collaborative Imaging’s multi-modality suite of offerings and intelligent applications delivers patient access and imaging detail for advanced visualization and confidence.

Our diagnostic and treatment features and applications include:

- Vitrea cardiac CT and Transcatheter Aortic Valve Replacement (TAVR) software planning produce the image detail needed for TAVR planning and follow up, enabling accurate assessments of aortic valves with 3-point aortic valve plane definition and robust valve plane measurements.

- The Alphenix family of angiography systems delivers efficiency for interventional cardiac procedures. Designed with maximum flexibility, minimal exposure and optimal image quality in mind, features like the freely-moving C-arm — deliver unprecedented patient access and ease of use.

  - As a comprehensive MR tool, *Medis*® Suite MR delivers real-time assessment of valve functionality — offering quantitative analysis of arterial vessel and heart valve data, in addition to T1 mapping without contrast.

  - The *Aplio i900* provides real-time, 4D Imaging every step of the way — with easy access to 4D TEE transcatheter procedure guidance. Its advanced quantitative technologies enable fast valve analysis during planning, implantation and post-op evaluation.

SHARE

Our suite of integrated applications securely enables intelligent information sharing so clinicians can:

- Refresh relevant clinical information from disparate sources and deliver it to the point of care with Vitrea Connection.

- Integrate images into the clinical workflows across devices and networks with Vitrea View Enterprise Viewer.

- Manage and reduce risk by addressing system vulnerabilities on all fronts with Canon Medical Systems’ Cybersecurity capabilities.

Because of our partnerships with leading enterprise imaging companies, all data — regardless of vendor or system — is seamlessly integrated, optimized and shared across all networks.

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2441 Michelle Drive, Tustin CA 92780  |  800.421.1968

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