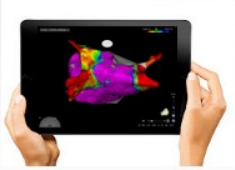
I am excited to introduce you to another first of its kind innovation from Biosense Webster, Inc. called CARTONET™ that will provide easy convenient access to your CARTO™ 3 System case data.

DO MORE WITH YOUR DATA

CARTONET™

Review



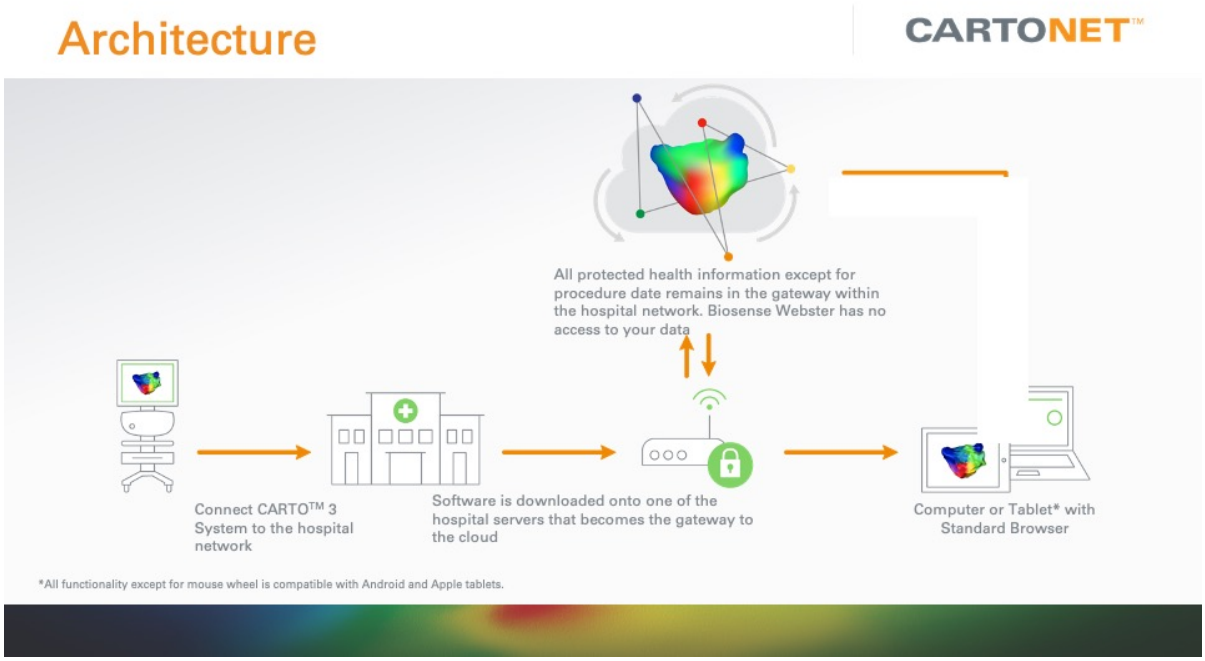
- Queryable cloud-based CARTO™ 3 System case storage.
- Retrospectively review CARTO™ 3 System cases remotely on a laptop or desktop.

Discover

- CARTO™ 3 System case data statistics and analytics presented in a configurable dashboard.
- Easily attach pre-, intra- and post-procedure information to the CARTO™ 3 System case record and analytics.

Share

- Aggregate and share CARTO™ 3 System cases and images.
- Export case statistical and analytical information in standard format.



So we developed CARTONET™.

The way CARTONET™ works is you connect 1 or more CARTO™ 3 System in your hospital or hospital system to the hospital network. Software is downloaded onto one of the hospital servers that becomes the gateway to the cloud. CARTO™ 3 System cases are anonymized and backed up onto the cloud and all the PHI (protected health information) except for procedure date remains in the gateway within the hospital network.

The cloud is a private cloud for your hospital within the secure Microsoft Azure cloud and no one at Biosense Webster, Inc. or Microsoft has access to your data. The cloud represents “smart” storage. Instead of being restricted to Sharpie labels or file names you can search, sort and filter cases using many criteria including date range, procedure type, cases where you used certain CARTO™ 3 System Modules, etc. and while these cases are in storage the cloud is running analytics to build your personal dashboard.

CARTONET™ leverages the teamplay Cloud Platform developed by Siemens Healthineers to support their radiology business. Teamplay is one of the largest data networks in healthcare with over 4,000

connected institutions in 59 countries and it meets industry best practices of security and privacy and supports compliance with HIPAA and GDPR.

Once your cases are backed up onto CARTONET™ you can log in remotely from a standard browser on a laptop, desktop or tablet and will have a dashboard of your cases, case statistics and the ability to review a full case as if you are on a CARTO™ 3 System Workstation. If you log in within the hospital network you will have access to the full case information including patient name and ID number. If you log in from home the patient name and IDs will be anonymized unless you are on a hospital VPN.

Case review

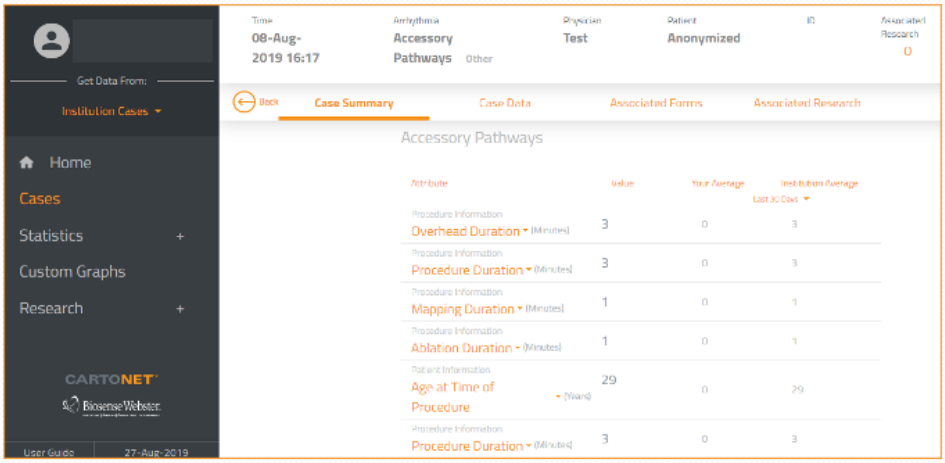
CARTONET™

- Review Cases Remotely
- Via a standard browser on a computer or laptop
- Full CARTO™ 3 System functionality – change the window of interest, reannotate points, etc.

Data Statistics

CARTONET™

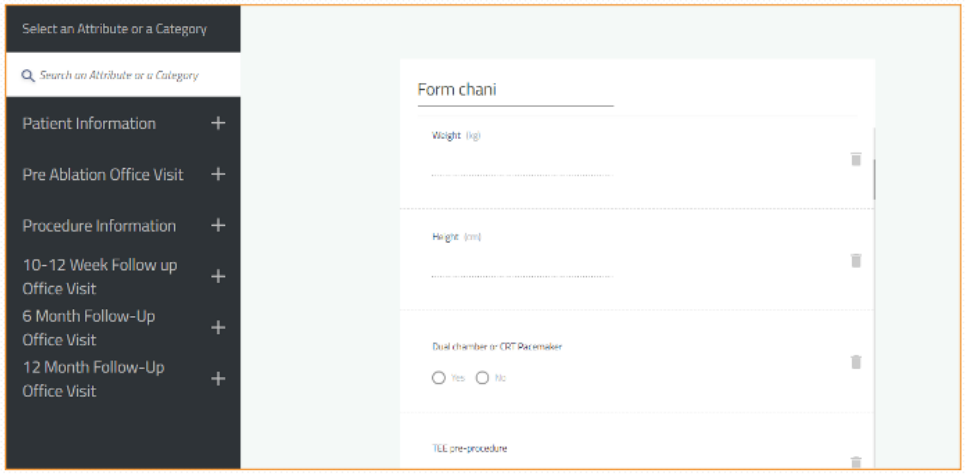
- Overview of the data captured per patient
- Access to the individual physician average and institution average



Additional data

CARTONET™

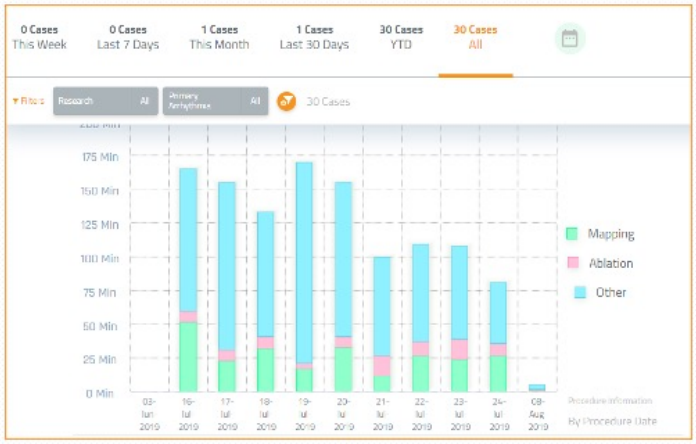
- Any pre-, intra- and post-procedure can be added manually (patient risk factors, follow-up, ...)



Analytics

CARTONET™

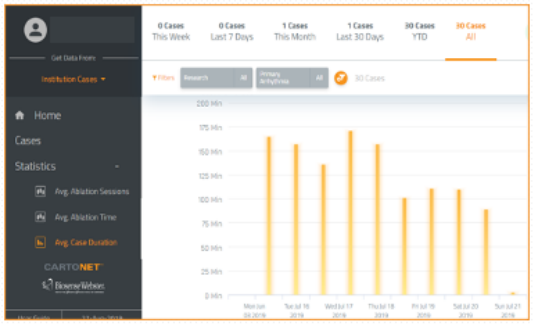
- Monitor progression of the different phases of the procedure
- Can be visualized per arrhythmia and research protocol/workflow/technology adoption

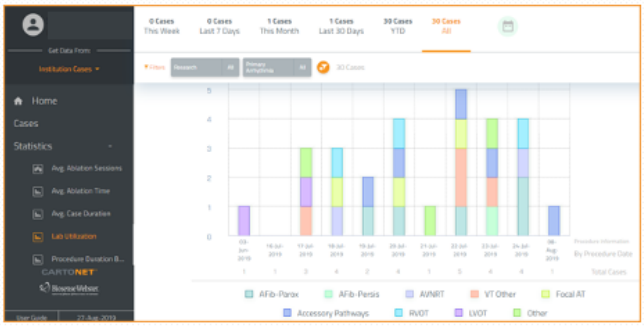


Analytics

CARTONET™

- Different graphs available

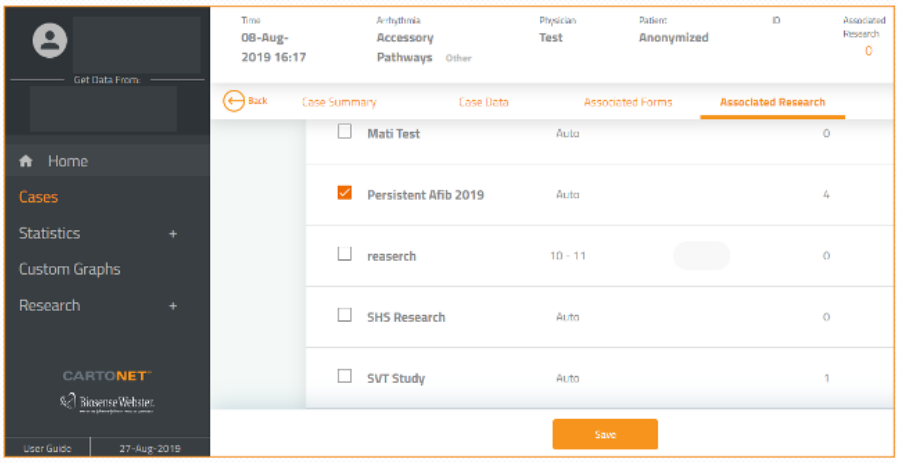




Data Sharing

CARTONET™

- Tag any patient for a specific study/protocol/workflow/technology adoption
- Access data of a multi-center study possible if all centers have CARTONET™



Put Your Data To Work For You

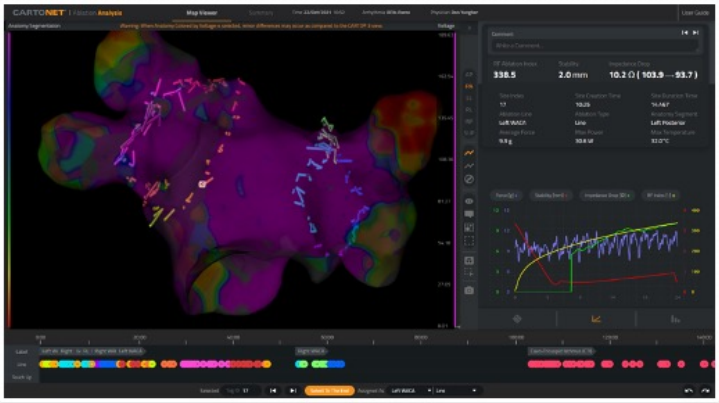
CARTONET™

Artificial Intelligence (AI) Powered Ablation Analysis Module

Ablation tags are anatomically segmented using AI, putting a granular analysis of regional ablation characteristics at your fingertips.

Quantitative data are tabulated by region, providing objective feedback about your ablation.

Progress can be tracked over time to evaluate the impact of new technologies and techniques on procedure workflow and patient outcomes



Parameters

- Anatomical Segmentation
- Average Contact Force
- Catheter Stability
- Site Ablation Duration
- Impedance Drop
- Max Power
- Max Temperature
- Lesion Creation Time
- Interlesion Time Intervals
- Average VISITAG SURPOINT™ Tag Index (AF cases)
- FTI

Put Your Data To Work For You

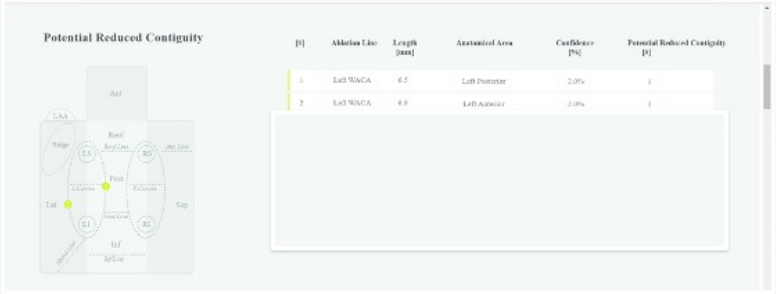
CARTONET™

Ablation Analysis Report

An additional machine learning algorithm is used retrospectively to calculate the potential for reduced lesion contiguity.

The algorithm was trained using hundreds of annotated CARTO™ 3 System cases that required touch-up.

This report provides objective procedure information to help EPs and fellows learn from their previous ablations.

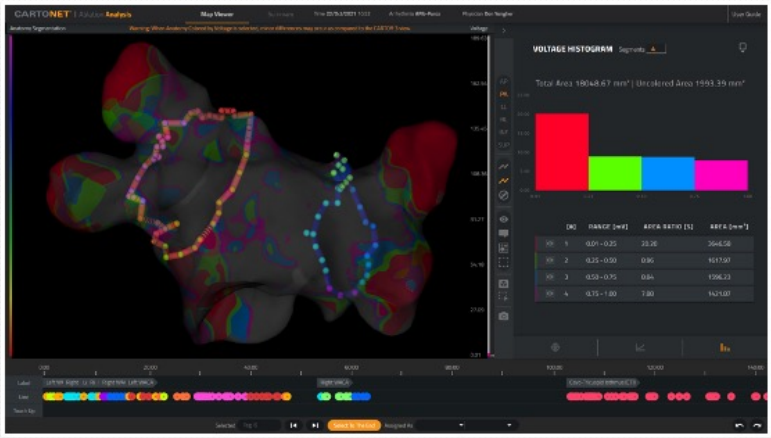


Put Your Data To Work For You

CARTONET™

Voltage Histogram

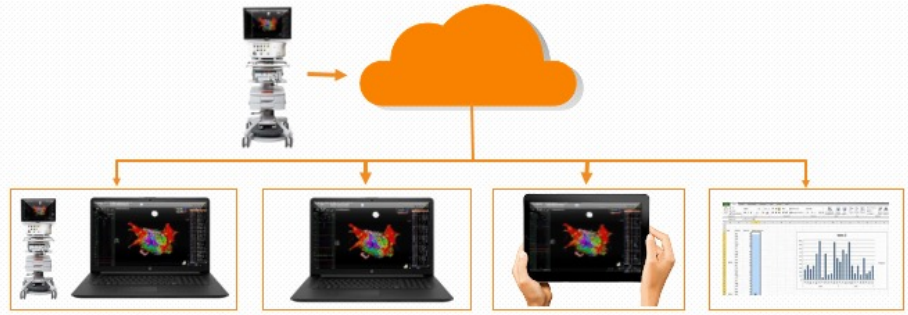
Quantitative analysis of low voltage areas



Share

CARTONET™

- Retrieve cases from any CARTO™ 3 System Workstation (≥version 6.x) in the hospital
- Send cases to another hospital for review
- Get an additional opinion by a peer physician before case redo



Non-anonymized cases can be shared for clinical (redo procedure) and research purposes

Anonymized cases can be shared between institutions/researchers

Image files can be shared with HCPs and patients

Case statistics can be exported in a standard format (excel)

Data Sharing

CARTONET™

- Integrate easily the CARTONET™ data into your patient database system through HL7 FHIR (most standardized electronic health records)

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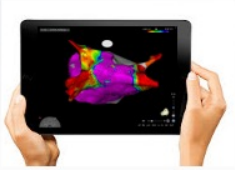

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For more details on privacy & security

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