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LUX-Dx II+™
ICM System

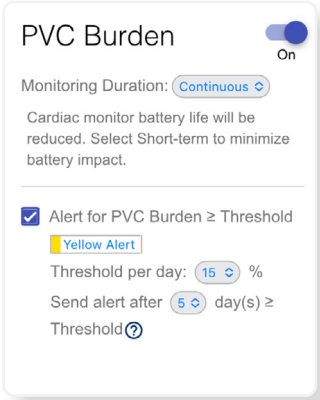
PVC Burden Algorithm:

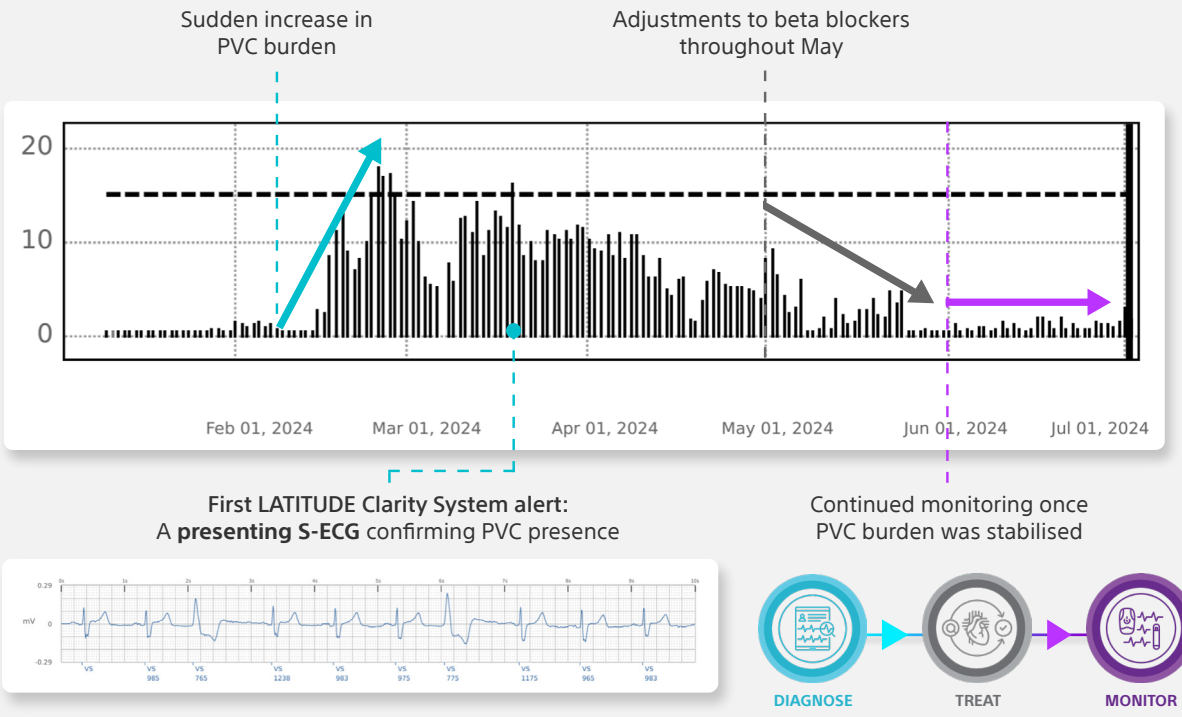
Overview

The PVC Burden dual-stage algorithm monitors R-R variability and changes in R-wave amplitude, and uses an adaptive morphology assessment to detect singlet, couplet, and triplet PVC sequences. This novel algorithm provides a daily burden percentage, advanced programming, and a unique actionable PVC burden alert.*

Flexible Programming and Actionable Alerts: A real-world patient example**

A patient was inserted with the LUX-Dx II+ insertable cardiac monitor (ICM) for palpitations and had a known history of PVCs. The PVC Burden algorithm was programmed to on and set to continuous monitoring duration. A yellow alert was programmed to be sent to the clinic through the LATITUDE Clarity™ Data Management System if the patient's PVC burden threshold was ≥ 15% for five days.





Advanced programming capabilities

To learn more about the dual-stage PVC Burden algorithm and its programmability, scan the QR code to view the PVC Burden Algorithm Programming Guide.

Diagnose, treat, monitor when identifying patients with a PVC burden ≥ 10%.[1†]

With advanced programming and an actionable alert, care teams have the flexibility to tailor their care plans to each patient. The LUX-Dx II+™ PVC Burden algorithm demonstrated a 100% PPV and 84% sensitivity for identifying patients with PVC burdens ≥ 10%[1†] so you can feel confident in the data you see. Diagnose, treat, and monitor with confidence.

The LUX-Dx II+ ICM PVC Burden algorithm demonstrated strong performance when identifying patients with a PVC burden ≥ 10%.[1†]

100% PPV

84% sensitivity

*As of 4.1.2025: Reveal LINQ™ Clinician Manual, LINQ II™ Clinician Manual, BIOMONITOR III™ Technical Manual, BIOMONITOR IIIm™ Technical Manual, BIOMONITOR IV™ Technical Manual, Merlin Patient Care System for SJM Confirm™ ICM, Confirm Rx™ ICM and Jot Dx™ ICM Help Manual, and Merlin Patient Care System Assert-IQ™ ICM Help Manual.

**Results from case studies are not necessarily predictive of results in other cases. Results in other cases may vary.

†In silico testing of algorithm performance on 12-lead Holter data.

1. Siejko KZ, Kupfer M, Rajan A, Herrmann K, Nair D. Premature ventricular contraction detection and estimation of daily burden by an insertable cardiac monitor. Heart Rhythm O2. 2025;6:528–536. doi: https://doi.org/10.1016/j.hroo.2025.01.004.

LUX-Dx II™ and LUX-Dx II+™ Insertable Cardiac Monitor Systems Indications, Safety and Warnings

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