



Publications and Clinical Trials

- 2017** • Improved AF Rhythm Discrimination Using QRS Morphology¹
- 2018** • A Novel Algorithm Reduces False Positives For Pause Detection In Implantable Cardiac Monitors²
• A Novel Algorithm To Improve Atrial Fibrillation Detection In Implantable Cardiac Monitors³
• Can Machine Learning Be Used To Optimise A Tachycardia Detection Algorithm In An Implantable Cardiac Monitor?⁴
- 2019** • A Novel Algorithm Improves Detection Of Arrhythmias with Regular RR Intervals In Implantable Cardiac Monitors⁵
• Artificial Neural Network Algorithm Improves Atrial Fibrillation Detection⁶
• Improved AF Rhythm Discrimination With An Implantable Cardiac Monitor Using QRS Morphology⁷
• Performance Of A New Implantable Cardiac Monitor Pause Detection Algorithm In The Presence Of Low-amplitude R-waves⁸
- 2020** • Clinical Performance Of A Novel Remote Programming System For Insertable Cardiac Monitors; Results Of The CARMEL Study⁹
- 2021** • A Novel Adaptive Insertable Cardiac Monitor Algorithm Improves The Detection Of Atrial Fibrillation and Atrial Tachycardia In Silico¹⁰
• Consistent Visibility Of P-waves Observed In Patients Implanted With LUX-Dx Insertable Cardiac Monitor (ICM)¹¹
• Improved Detection Of Atrial Arrhythmias With Regular R-R Intervals In Patients With The LUX-Dx Insertable Cardiac Monitor¹²
• Novel PVC Burden Algorithm For Insertable Cardiac Monitors Detects All PVC Sequence Types¹³

LAUNCH – LUX-Dx™ ICM System

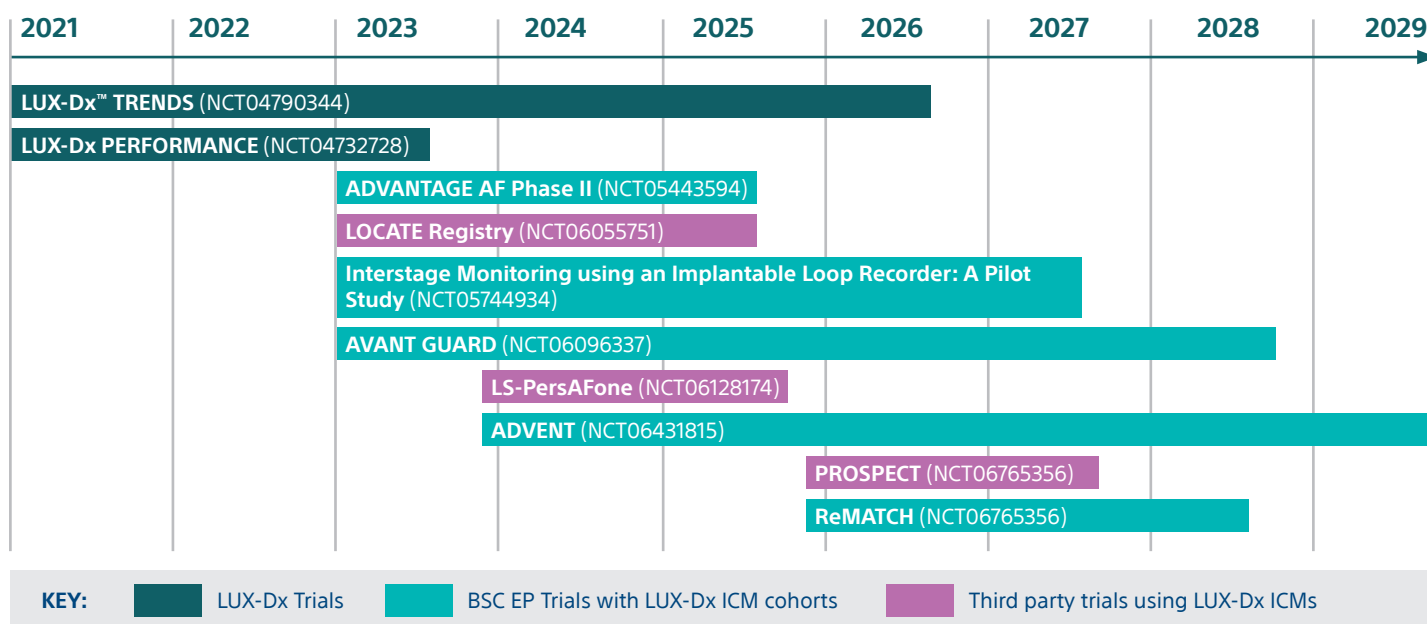
- 2022** • Improving Clinic Workflow And Diagnosis For The LUX-Dx Implantable Cardiac Monitor¹⁴
• Novel Algorithm For Improved AF Detection In Insertable Cardiac Monitors¹⁵
• Real-world Characterisation And Use Of Insertable Cardiac Monitor Remote Programming¹⁶
- 2023** • Does Optimised Daytime/Nighttime Programming Reduce Insertable Cardiac Monitor Event Burden?¹⁷
• Enhanced Pause Algorithm For Insertable Cardiac Monitor Reduces Clinical Review Burden¹⁸
• Evaluation Of The Insertable Cardiac Monitor Placement And Safety In The LUX-Dx PERFORM Study¹⁹
• Interim Evaluation Of Insertable Cardiac Monitor Signal Quality In The LUX-Dx PERFORM Study²⁰

LAUNCH – LUX-Dx II™ /II+™ ICM System

- 2024** • Preliminary Results From The LUX-Dx PERFORM Study²¹
• Independent Abstract! Accuracy of Implantable Loop Recorders: A Multi-Centre, multi-Device Comparison of False Positive Alert Burden in Remote Transmissions²²
• Implantation Of A Novel Insertable Cardiac Monitor: Preliminary Multicenter Experience In Europe²³
• Independent Abstract! Monitoring of Remotely Reprogrammable Implantable Loop Recorders With Algorithms to Reduce False-positive Alerts²⁴
• Preliminary Implantation Experience In Europe With A Novel Insertable Cardiac Monitor²⁵
• Independent Abstract! Reduction in Implantable Loop Recorder Alert Burden: A Targeted Approach to Slash Transmission Volume Using Patient Specific Programming Beyond Vendor Reason For Monitoring Nominals²⁶
- 2025** • Artificial Intelligence Versus Electrophysiologists Adjudication Of Atrial Arrhythmias: A Validation Study²⁷
• Detection Of New Atrial Fibrillation In Patients With Heart Failure By An Insertable Cardiac Monitor: Preliminary Analysis Of The LUX-Dx TRENDS Study²⁸
• Initial Real-world Usage of a Novel PVC Burden Feature with Programmable Alerts in an Insertable Cardiac Monitor²⁹
• Physician Disagreement When Adjudicating Atrial Fibrillation Episodes Detected By Insertable Cardiac Monitor³⁰
• Premature Ventricular Contraction Detection And Estimation Of Daily Burden By An Insertable Monitor³¹
• Real-world Use Of Insertable Cardiac Monitor Remote Programming³²

*References to "LUX-Dx ICMs" Includes LUX-Dx™, LUX-Dx II™ and LUX-Dx II+™ ICM Systems

US Clinical Trials



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