

# USE CASE

## Intraoperative Conduction System Mapping and TE Stimulation with EP-TRACER

Boston Children's Hospital

Dr. Elizabeth DeWitt

EP-TRACER 70 ProCart



*In daily use: EP-TRACER ProCart in the Boston Children's Hospital*

Dr. Elizabeth DeWitt utilizes the EP-TRACER system daily to support safe pediatric open-heart surgical modification procedures. These open-heart procedures run the risk of a patient's conduction system being damaged causing heart block and subsequent permanent pacemaker implantation. Intraoperative conduction system mapping is performed to help identify and avoid the patient's conduction system.

With limited space in the OR, a streamlined, compact, upright recording system is needed to allow for conduction system location identification. Despite its reduced footprint, the EP-TRACER delivers full performance ensuring optimal functionality.

The open-heart surgical procedure requires cardiopulmonary bypass to remove all blood from the heart and artificially induced fibrillation to stop the heart from beating. A high-density mapping catheter is used in conjunction with the EP-TRACER to display intracardiac electrograms and identify His-bundle electrograms to help localize, avoid, and ultimately prevent conduction system injury.

In addition to the intraoperative conduction system mapping, Dr. DeWitt also utilizes the EP-TRACER ProCart for non-invasive transesophageal EP



*Jocelyn Davee, Dr. Ted O'Leary, Dr. Elizabeth DeWitt, Dr. John Triedman, Jaime Thomas*

studies or to treat medication-refractory atrial tachyarrhythmias. The EP-TRACER's modern design once again shines in this scenario for two primary reasons. First, its mobility and compact footprint allows for easy transportation throughout the hospital. Second, the embedded stimulator software is intuitive and easy to use allowing for an efficient executed EP study.

Presently, there is no alternative in the market that possesses the versatility to deliver such functionality in both intraoperative conducting

mapping and scenarios and non-invasive transesophageal stimulation as effectively as the EP-TRACER.



**“***The EP-TRACER is a compact and efficient integrated EP stimulator and recording system for use in both intraoperative mapping work in complex congenital heart surgery, as well as for bedside EP studies. It is a fantastic addition to pediatric and congenital EP practice and allows us to provide the best care for our patients.***”**

Dr. Elizabeth DeWitt



EP-TRACER ProCart

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