UNIVERSITY of ROCHESTER
TELEMETRIC and HOLTER ECG Warehouse
Newsletter
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This electronic Newsletter is a publication with updates about the activities of the Tele ECG Warehouse (THEW) Initiative at the University of Rochester (UR), NY.

Issue: 4: THEW Update – May 2009

- **Annual THEW Meeting sponsored by the FDA,**
- **ECGs with drug-induced TdPs coming into the warehouse,**
- **Alliance between the Telemetric and Holter ECG Warehouse (THEW) a High Performance Computing Consortium (HPC^2),**
- **IBM BlueGene Supercomputer available for the THEW research activities.**
- **THEW enables research project with Academic European Centers,**

On behalf of the THEW team, we would like to thank all speakers and registrants of THEW Meeting. The event was a success with more than 40 registered companies meeting was an opportunity to learn about the recent developments of our initiative interest for the use of Holter and telemetric ECG in drug safety trials. If you would like to this topic, please go to our website to download the presentations from this event: www.tl

Developments from 2009 First Quarter:

More data in the THEW…

The THEW team is glad to announce the signature of the THEW Data Sharing Agreemer of Munich (Germany). In this agreement, Munich University has agreed to shar electrocardiographic data with our initiative. Once this data is loaded in the warehouse have the access to high-resolution 24-hour Holter ECGs recorded in patients with drug-in pointes (TdPs,) as well as recordings from patients with congenital long QT syn experienced TdPs. All TdP events are fully recorded in the Holter files, they include pos enabling the evaluation of ECG markers for the risk stratification of these patients or th triggering signs of TdPs. In addition, this agreement includes a set of short-term ECG from a group of 34 cardiac patients with and without predisposition to drug-induced Td markers could be evaluated to identify patients with an increased risk for TdPs.

Alliance between the Telemetric and Holter ECG Warehouse (THEW) with the Performance Computing Consortium (HPC^2)

The New York State Foundation for Science, Technology and Innovation's (NYSTA program will provide storage resources to the THEW initiative. NYSTAR's HPC^2 Co University at Buffalo will provide the initial storage requirements for THEW as well a lasting partnership. Through this collaboration, University of Buffalo will open a secur the distribution of ECG data to the THEW Members. Dr. Couderc, Director of the TH "This is great news for our initiative. The storage space allocated by the NYSTAR

creation of a secured FTP server will facilitate the distribution of the THEW data. In part high-resolution Holter ECGs from the recent drug safety trial received from Roche includ One will be able to download quickly all this data from this remote server of the THEW. to benefit from the NYSTAR program." Michael Ridley, Director of the NYSTA commented: "Having a world class cyber-infrastructure provided through HPC^2 to rese State allows innovative researchers like Dr. Couderc to focus on their research rather complexities of implementing high performance computing applications. HPC^2 member from the University at Buffalo is a well known expert and leader in deploying HP researchers like Dr. Couderc. Dr. Furlani's expertise and assistance was a critical factor this initiative. This partnership is a resounding success where both programs and Univ well as the added benefit of New York State resources being used to their fullest potential

IBM BlueGene Supercomputer available for the THEW research activities.

We are glad to announce that the THEW initiative received access to unique computer re Blue Gene super computers currently hosted at the University of Rochester Cente Research. This supercomputer has 4096 cores providing a 13.9 TFlops system. It repre tool for the validation of ECG-based technologies because thousand of Holter can be ana of minutes (for regular process). The THEW team is currently evaluating the appropria the use of this resource. We expect this resource to be available for research activities bef year.

THEW enables research activities in Europe…

The Academy of Sciences of Czech Republic and their Institute of Scientific Instrument using data from the THEW for the validation of methods for the modeling of QT/RR c surface electrocardiograms. The research proposal for this project has been reviewed and members of the THEW Research Scientific Committee consisting of world experts in el and individuals from the FDA.