HUMAN RESEARCH INFORMATION SYSTEM (HURIS)

SUMMARY

Researchers at the National Institute on Drug Abuse (NIDA) seek licensing or co-development of a Human Research Information System (HuRIS) software that automates all major functions of a clinical-research entity. The system is designed for commercial healthcare providers, community treatment centers, and clinical research facilities.

REFERENCE NUMBER

E-266-2014

PRODUCT TYPE

- Software

KEYWORDS

- Clinical Information System
- Research Information System
- Medical Decision Support System (DSS)
- Electronic Hospital Records (EHR)
- Physicians Order Entry (POE)
- Pharmacy Information System
- Laboratory Information Management (LIM)
- Biospecimen Tracking System
- Substance abuse
- Drug addiction
- Mental health
- mPAL
- HuRIS

COLLABORATION OPPORTUNITY

This invention is available for licensing.

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DESCRIPTION OF TECHNOLOGY

The available system is the *Human Research Information System (HuRIS)*, an integrated advanced clinical/research informatics series of systems—that is, an intelligent electronic environment for the collection, organization and retrieval of information in clinical/scientific decision support—which enables data and resource sharing in real time among authorized users at our clinics. (Individual systems or subsystems may be licensable.)

Users on both the clinical side (e.g., doctors writing medication orders or nurses recording participants' vital signs) and on the research side (e.g., researchers conducting data analysis or completing reporting requirements) have access to the information on demand. At the core of this informatics infrastructure reside the clinical charts and research records of participants compiled over the entire history of their study participation, and sometimes across multiple studies. The computerized recording of participants' information starts from the time of their initial consent for screening. Data collected by our intake personnel under a screening protocol become part of the participants' clinical research records. This recording continues as participants are admitted to a clinical trial and persists throughout their progress within the prescribed activities until they are discharged. The electronic recording of participants' activities enables the use of this information as a research resource to different groups at different locations, in current and future protocols, as permitted by human subjects' protection regulations.

The HuRIS has a number of intelligent decision systems built-in for real-time or on-demand query as well as HL-7 communications with external laboratories for data exchange, and it seamlessly communicates with our Human Biospecimen Tracking System. User permissions to access various components of the system are centrally controlled and all access is logged.

POTENTIAL COMMERCIAL APPLICATIONS

- Hospital Information Management
- Clinical Research Information Management
- Pharmacy Management System
- Biospecimens Tracking System
- Laboratory Information Management
- Behavioral Modification/Addiction Treatment

COMPETITIVE ADVANTAGES

- Mature solution developed with contributions by numerous physicians, scientists, and treatment professionals at all levels
- Low-cost mechanism
- Proven advantage in prior clinical studies

INVENTOR(S)

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DEVELOPMENT STAGE

- Prototype

PUBLICATIONS

Massoud Vahabzadeh *et al.* Proc. 20th IEEE International Symposium on Computer-Based Medical Systems, June 2007, pages 331-6; Massoud Vahabzadeh *et al.* Drug and Alcohol Review, 28(1):3-11, January 2009.

PATENT STATUS

- **U.S. Filed:** Research Tool: Patent prosecution is not being sought for this invention

THERAPEUTIC AREA

- Central Nervous System, Mental and Behavioral, Pain