Docket #: S13-390

Collaborative Health Outcomes Information Registry (CHOIR) Software Sourcecode

Chronic pain affects millions worldwide, demanding a comprehensive and personalized approach. Born out of the collaborative efforts of Stanford's Division of Pain Management and the Center for Clinical Informatics with support from the National Institutes of Health and the Redlich Pain Endowment, Professor Sean Mackey and his colleagues at Stanford have developed the Collaborative Health Outcomes Information Registry (CHOIR). This open-source software empowers healthcare providers with real-time data, enabling them to tailor treatments to individual needs, optimize patient care, and enhance overall outcomes.

CHOIR uses multiple data streams from thousands of patients to evaluate nervous, immune, and inflammatory system changes, genetics, physical function loss, and emotional well-being. The system adapts questionnaires based on the patient's responses, skips irrelevant questions, and creates graphs highlighting the patient's progress in different categories. This approach has proven to help assess the patient's progress and recovery. The system has been used since 2012 in the Stanford Pain Management Center and has transformed how medicine is practiced at Stanford.

Applications

- Chronic Pain Management
- Post-Surgical Care
- Oncology Supportive Care
- Neurological Disorders
- Rehabilitation Programs
- Palliative Care

Advantages

- Personalized Treatment Plans
- Improved Patient Engagement
- Data-Driven Decision Making
- Enhanced Quality of Care
- Real-Time Monitoring

Innovators

- Sean Mackey
- Institutional Work

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