

Computerized Adaptive Assessment of Headache Impact

Grant R44NS047763| Period of support: 09/2006– 02/2010

Challenge/Problem:

The objective of this study is to provide an effective solution to the serious dilemma clinicians have to face when choosing a headache impact tool: the trade-off between coverage, precision, and practicality.

Current/Near Term Products:

HEADACHE-CAT offering options for generic (DYNHA SF-36, SF-36v2, SF-12v2, or SF-8 Health Surveys) and headache-specific [(DYNHA Headache Impact Test (HIT)), HIT-6 Short Form] assessment, delivering real-time patient and provider feedback reports.

Approach:

This project produced a combined generic and headache-specific patient-reported outcomes (PRO) assessment, the HEADACHE-CAT, administered via the Internet and desktop PC. Item response theory (IRT) and computerized adaptive testing (CAT) software were used to produce a comprehensive and precise, yet brief, health outcomes measure.

Future Plans:

Future plans post-grant completion involve final product testing and go-to-market activities.

Business Name and Point of Contact:

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Collaboration/Partnering Opportunities:

We are interested in collaborations with early adopters (e.g., health/disease management organizations, academic medical centers, clinic networks, insurers or employers) to further evaluate our product offering.

Keywords: Headache Impact Test (HIT), computerized adaptive test (CAT), health-related quality of life (HRQOL), patient-reported outcomes (PRO)