Oral presentation MIE 2011, August 30

Factors known to Influence Acceptance of Clinical Decision Support Systems

E. KILSDONK, L. W. P. PEUTE, S.L.KNIJNENBURG, M. W. M. JASPERS

Department of Medical Informatics, Academic Medical Center – University of Amsterdam, The Netherlands
Introduction

- CDS improves clinical performance and patient outcomes...
- But still a failure rate of over 50%

- Evaluation studies provide insight into acceptance
- Literature Review: Status Quo
- Aim: wider understanding of...
  - issues surrounding CDSS implementation
  - gaps in current research
Methods

1. Included studies
2. Analyzed for description and evaluation of factors
3. Factors found
4. Mapping HOT-fit framework
   - Overview
   - Gaps
Methods

- The HOT-fit framework

Discussion

- **Human (79) – System Use (76)**
  - Physicians expectations and believes

- **Technology (116) – System Quality (48)**
  - Ease of system use
  - System flexibility

- **Technology (116) – Information Quality (51)**
  - Relevance of data and messages
Results

- Overview of status quo
  - 29 articles included
Discussion

- **Gaps**
  - Organizational
    - Leadership
    - Management
    - Strategy
    - Teamwork
    - Communication

- Potential area for further research
- HOT-fit framework