Case Study with ClinicalKey: Evidence-Based Medicine

Giselle Vasconcellos – Marketing Coordinator, Elsevier
The relevance of a medical search engine to reduce healthcare expenses in a private hospital in Rio de Janeiro/Brazil

A CASE STUDY WITH CLINICALKEY: EVIDENCE-BASED MEDICINE
Private hospitals: market overview

- **Total hospitals in Brazil:** 6,692 (70% private) – Source: CNES
- **Main source of revenue:** customers from health insurance companies
- **Hospital glosses:** in 2013, health insurance companies’s refusal to reimburse hospitals expenses caused 3,2% of revenue loss (Source: ANAHP)
- **Evidence-Based Medicine:** an alternative to minimize the conflicts between health insurance companies and private hospitals
ClinicalKey Case Study: General Topics

- **About the hospital surveyed:** Reference in high complexity medicine in Brazil, located in Rio de Janeiro, with 136 beds, and 2 accreditations: Joint Commission International and Canadian Council for Health Services Accreditation

- **Main Goals:**
  - Identify the items most glossed from January to September 2014 through interviews with CMO, controller manager and clinical auditor (Total of 17 items: 6 materials, 7 drugs and 4 surgical procedures)
  - Demonstrate the relevance of ClinicalKey to support healthcare decisions providing evidences to items glossed
  - Estimate the financial value of the reimbursements with the evidences found in ClinicalKey (Based on Brasíndice price guide)
Research Methodology

• Cochrane Methodology: Identifies the evidence level (reliability and accuracy) in each category and establishes the degree of adoption in clinical practice.

Evidence Pyramid – Publication Types
ClinicalKey

- Supports clinical decisions by making easier find and apply the most relevant evidence according Cochrane Methodology
- **Source Type:** Guidelines
- **Study Type:** Systematic Reviews, Meta Analysis, Randomized Controlled Trials
Evidences Search

- **Glossed Item**: Precedex
- **Research term**: Dexmedetomidine
- **Clinical condition**: sedation in intensive care
- **Total Evidences Found**: 422

1 Full Text Guideline – Evidence recommendation Favorable

15 Randomized Controlled Trials – Unfavorable in non invasive ventilation
Achievements

- The total value of the 17 glossed items, during 9 months, was estimated in **R$ 947.684,98 (US$ 363k)**
- ClinicalKey provided relevant evidence **for 15 from a total of 17 glossed items**
- The total value possible to be recovered with the evidences provided by ClinicalKey was estimated in **R$ 865.027,18 (US$ 332k)**

- **Main Result**: ClinicalKey is useful as a clinical decision support system, considering the outcomes in patient health, and also for a better financial management of the glosses applied by the health insurance companies, reducing healthcare expenses
Contact

Giselle Vasconcellos
Marketing Coordinator
Elsevier Clinical Solutions

g.vasconcellos@elsevier.com

Thank you!