

Case Study with ClinicalKey: Evidence-Based Medicine

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ORGANIZATION:



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

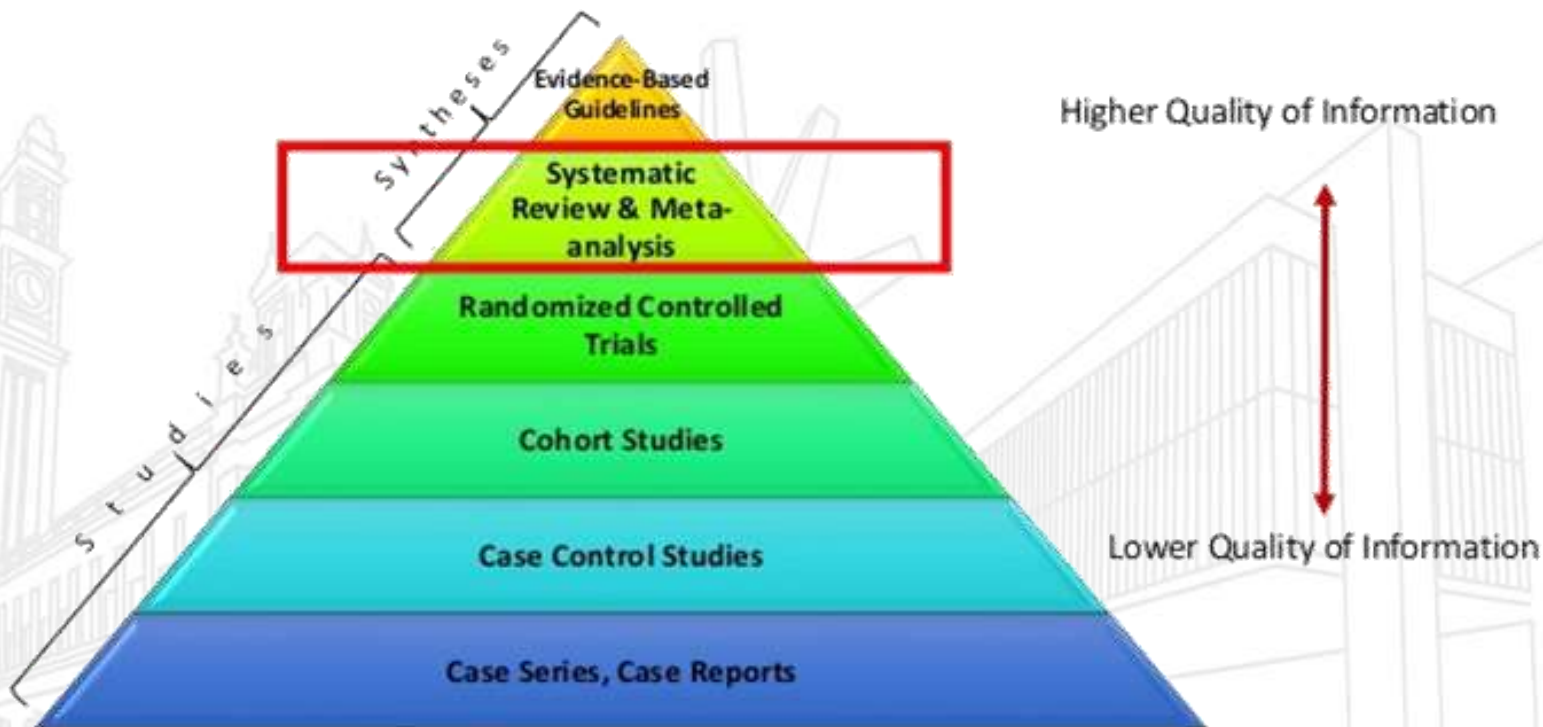
ClinicalKey Case Study: General Topics

- **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

Source Type Filter Data:

MEDLINE Abstracts	951
Full Text Articles	558
Books	487
Guidelines	78
Clinical Trials	76
Images	39
First Consult	19
Drug Monographs	3
Procedures Consult	3
Videos	2

Study Type Filter Data:

Systematic Reviews	58
Meta Analysis	12
Randomized Control Trials	136
Narrative Review	236

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

Barr J, Fraser GL, Puntillo K, et al. Clinical practice guidelines for the management of pain, agitation, and delirium in adult patients in the intensive care unit. Critical care medicine. 2013;41(1):263-306.

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

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Thank you!

