Elsevier Merged Medical Taxonomy (EMMMeT) - from Smart Content to Smart Collection

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The Challenge for Elsevier Clinical Solutions

Multiple products, each delivering relevant content, but not integrated

- MD Consult
- Journals Consult (Med/Surg HS)
- Procedures Consult
- First Consult
- Clinics of N. America (Med/Surg)
- Expert Consult eBooks
- E-Clips Consult
- Imaging Consult
- Clinical Pharmacology
- Local HS Med/Surg Content

The full breadth of Elsevier medical & surgical content in one product powered by superior clinical search?
Creating *Smart Content* for the Clinical Setting

- Vast amounts of content made easily discoverable
- Specialty-specific navigation
- Dynamic clinical summary creation
- Meaningful related content recommendations

**Elsevier Merged Medical Taxonomy (EMMeT)**

- 250K+ Core Clinical Concepts
- 1M+ Synonyms
- 1M+ Hierarchical Relationships
- 1M+ Ontological Relationships

**Content Sources**
- Clinical Trials
- Journals
- Clinical Summaries
- Guidelines
- Books
- Procedural Videos
- Drug Info
- Patient Ed
- Elsevier
- UMLS
- EMMeT
- Custom
- Patient Ed
- Drug Info
- Procedural Videos
- Clinical Summaries
- Guidelines
- Clinical Trials
- Books
- UMLS
- EMMeT
- Custom
- Elsevier

**Concept Mapping**
EMMeT: Search in ClinicalKey

Medical Name
Malignant Neoplasm of the Breast

Consumer Friendly Name
Breast Cancer

Synonyms
Malignant Tumor of Breast
Malignant Breast Neoplasm
Breast Ca

Codes
ICD9 – 174.9
MeSH – D001943
SNOMED-CT – 190121004

Semantic Type/Group
Neoplastic Process/Disease

Parent Terms
• Breast Disorders
• Cancer of the Thorax
• Mammary Neoplasms
• More….

Children Terms
• Breast Sarcoma
• Familial Breast Cancer
• Malignant lymphoma of the Breast
• Malignant Neoplasm of the breast outer quadrant
• More….

Symptoms
Breast Lump, Nipple Retraction, …..

Diagnostic Procedures
Mammography, Breast Biopsy, …..

Treatment Procedures
Chemotherapy, Mastectomy, ….

Medications
Tamoxifen, Doxorubicin, …..

Risk Factors
Family History, Genetics, Predisposition, ….

Prevention
Screening, Preemptive Mastectomy, ….

Complications
Metastatic Cancer, ….
EMMeT: Search in ClinicalKey

Speed to Answer: Smart Content = taxonomy-powered content
EMMeT: Improved search for Journal Branded Solutions

Fertility and Sterility

Articles & Issues ▼ Collections ▼ For Authors ▼ Journal Info ▼ Subscribe ▼ ASRM ▼ More Periodicals ▼

in vitro

Fertilization in Vitro (Fertilization in Vitro)

in vitro immunologic test to detect, identify, characterise and/or quantify an antigen (Antigen assay)
culturing, in vitro vertebrate, primary (Primary Cell Culture)
culturing, in vitro organ (Organ Culture Techniques)
IVF - In vitro fertilisation with intracytoplasmic sperm injection (ICSI) (In vitro fertilization with intracytoplasmic sperm injection)
Infertility : In Vitro Fertilization (infertility fertilization in vitro)
In Vivo and in Vitro Testing (In Vivo and in Vitro Testing)
IVF - In vitro fertilisation with pre-implantation genetic diagnosis (In vitro fertilization with preimplantation genetic diagnosis)

Speed to Answer:
Smart Content = taxonomy-powered content
EMMeT: *Smart Collection* content management tool for Journal Branded Solutions

- Creation of automated or curated topic collections
EMMeT for Search & Discovery: JBS workflow

1. Manually curated taxonomy
2. 1 terabyte data in standardized format
3. Rules engine
4. Cloud-based automated indexing
5. Product specific ‘boosting’ rules
6. Topical collections creation and maintenance

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Content Acquisition

EMMeT
Semantic Network

Smart Content Application

1. Concept Map Content (Identify Concepts in Content and Tag)
2. Normalize Content
3. QPE (Query Parsing Engine)
4. Index Generation (Concepts, Chapters, Articles, Images, Video, Browsing)
5. Concept Index
6. Full-Text Index

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Content Indexing Pipeline

Front End Search

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