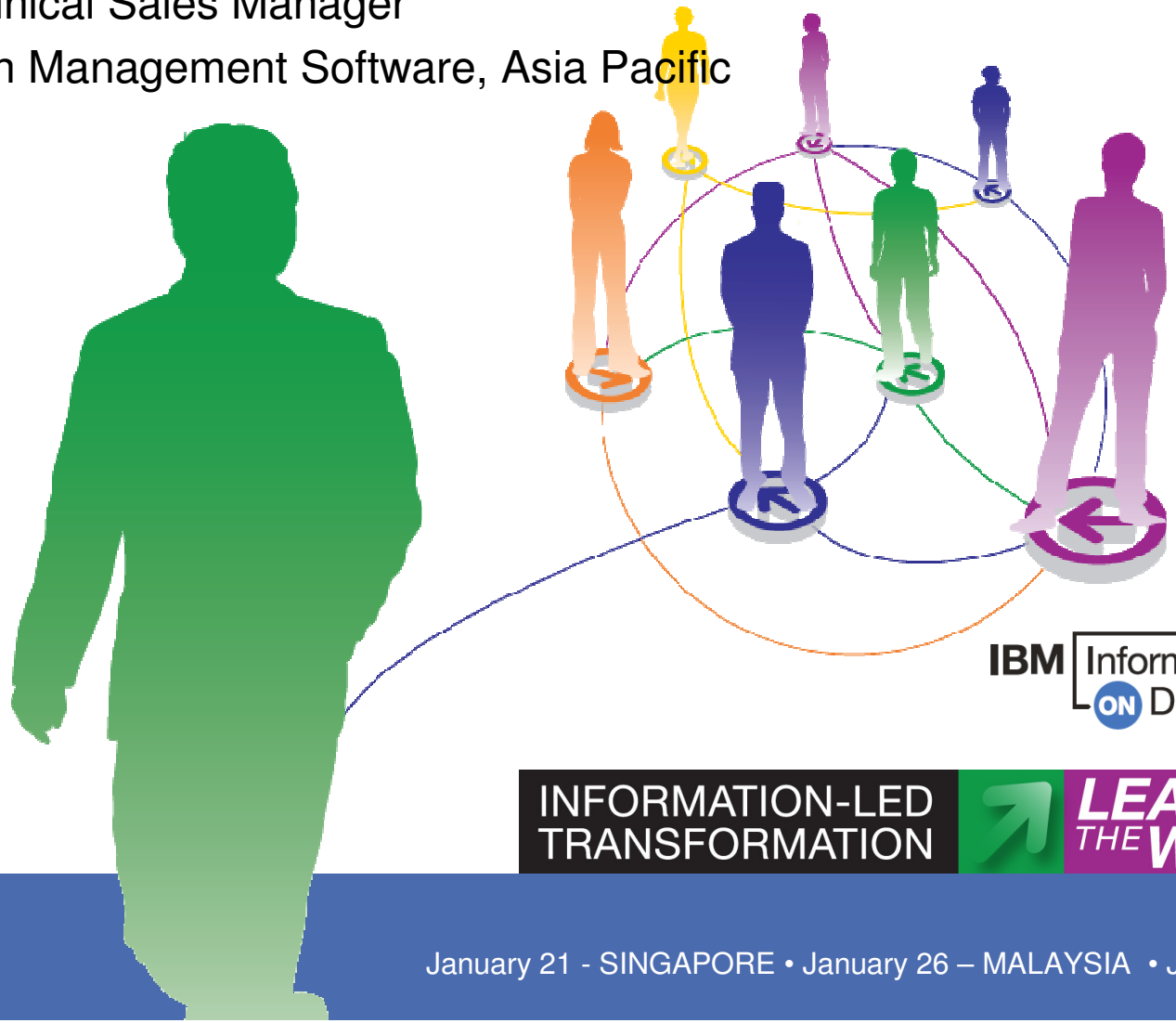
New Intelligence from Content: Content Analytics for BI and Assessment

Presenter: Jason Ho
ECM Technical Sales Manager
Information Management Software, Asia Pacific

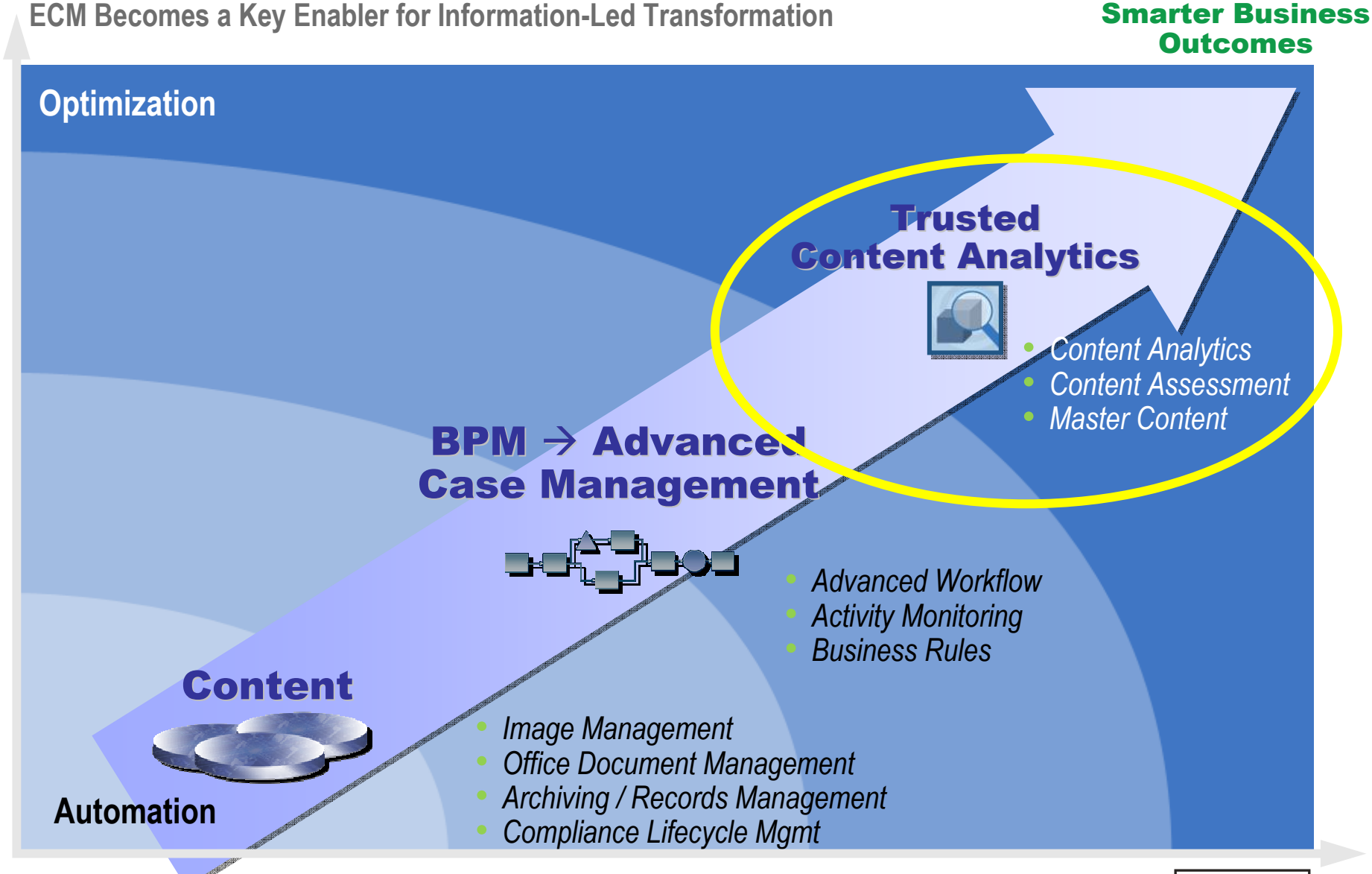


IBM Information ON Demand 2010

INFORMATION-LED TRANSFORMATION LEAD THE WAY

Analytics is Driving the Evolution of ECM

ECM Becomes a Key Enabler for Information-Led Transformation



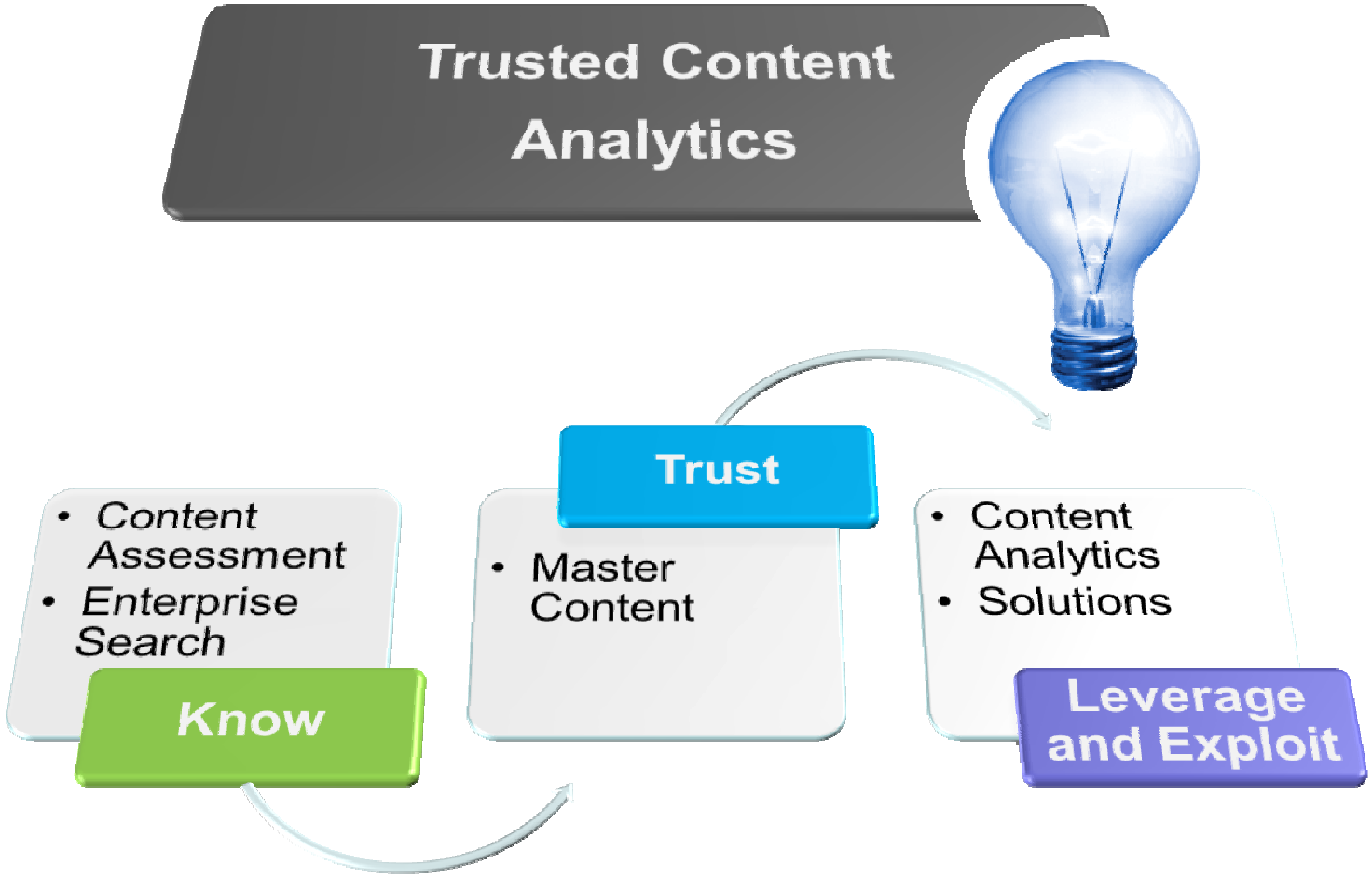
What our customers tell us…

1. Keep too much information and spend too much storing content because there's too much to sift through
2. Can't pinpoint the right content when we need it because its unfindable or hidden away in a departmental silo
3. Can't trust the content we do find about our customers because the lifecycle is uncontrolled
4. Need to deliver better customer service, for less because those with the best service are rising above the rest in highly competitive markets
5. Want to optimize our business by
   - **anticipating our customers' purchasing needs**
   - **reducing fraud**
   - **delivering a more complete view of our customers**
   - **gaining early warning on product quality and customer satisfaction issues**

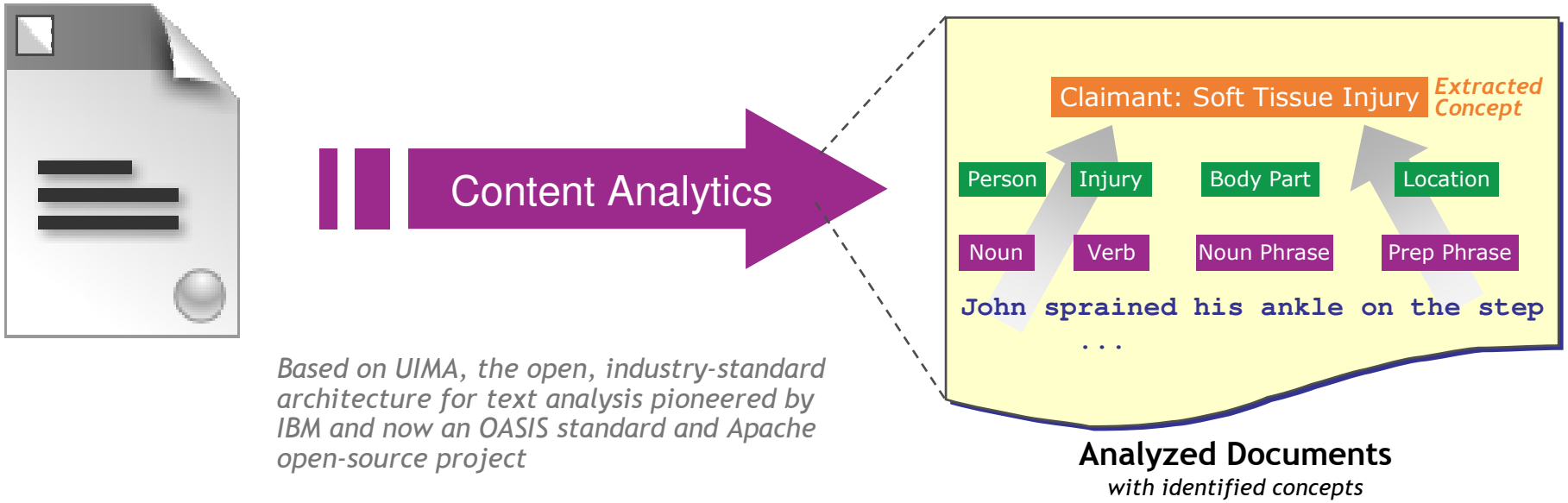
because the answers exist inside our organization, they're just buried underneath too much information

Trusted Content Analytics

Helping organizations achieve smarter business outcomes by better knowing, trusting and leveraging their content



Key Enabling Innovation: Content Analytics



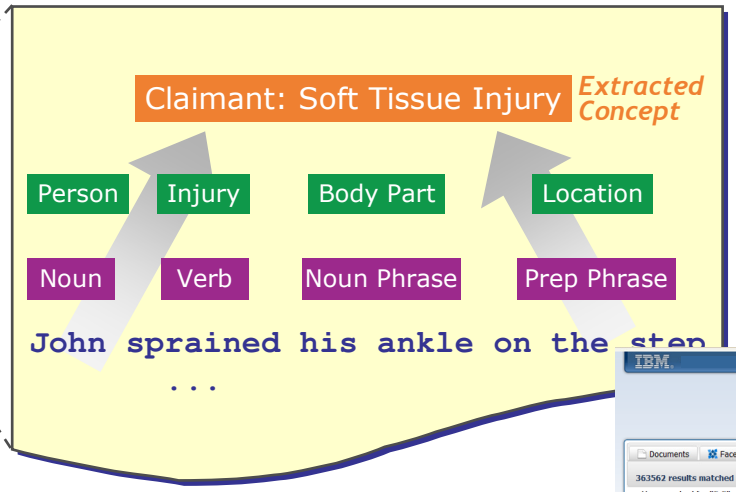
Based on UIMA, the open, industry-standard architecture for text analysis pioneered by IBM and now an OASIS standard and Apache open-source project

- For each document derive
  - New business understanding
  - New visibility from content
- Create structure and understanding from a group of words

Content Analytics enables analysis that was previously impractical

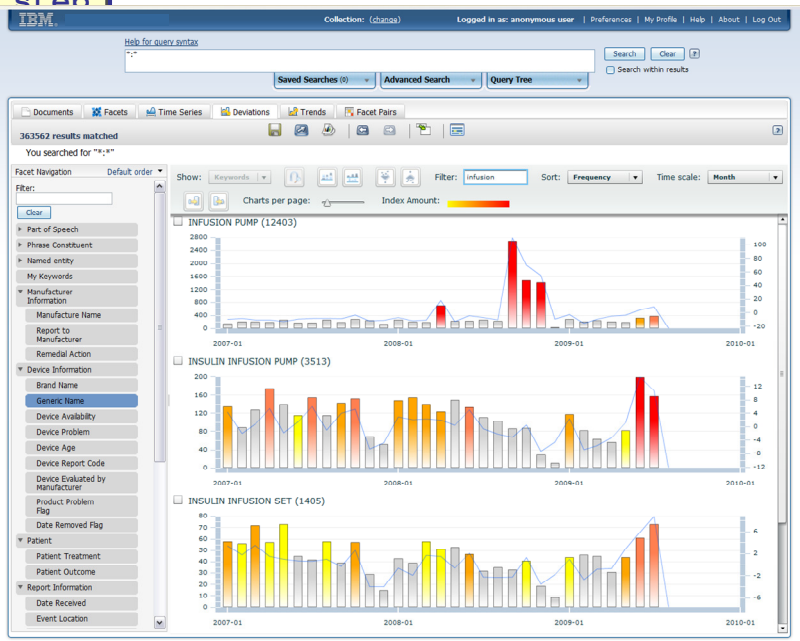
Aggregates conclusions & scales out understanding to large data sets

Source Info
(ECM, File, Web, DBMS, ...)



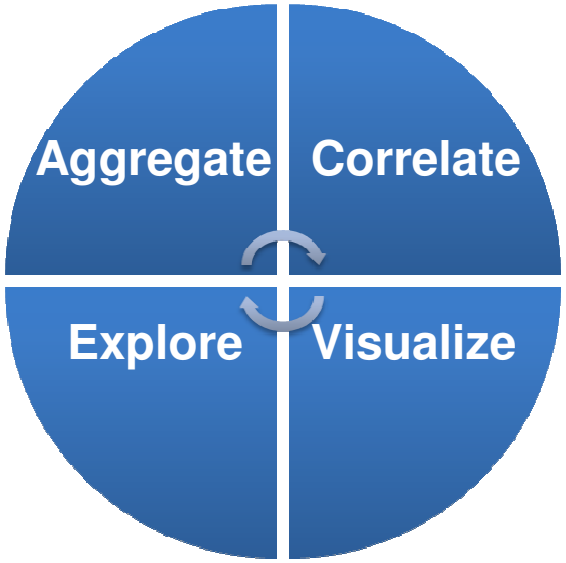
Analyzed Documents
with identified concepts

Automatic Visualization
Concepts and tagged source information are visualized in UI



- **Content analytics scales out document by document content investigation**
- **Aggregate the conclusions**
- **Assess volumes of information not otherwise humanly possible (or cost effective)**

Dynamic Analysis: Basis for Trusted Content Analytics Solutions



Dynamic Analysis sets IBM apart from every ECM vendor

Aggregate … form collections from multiple content sources and types unmatched in industry

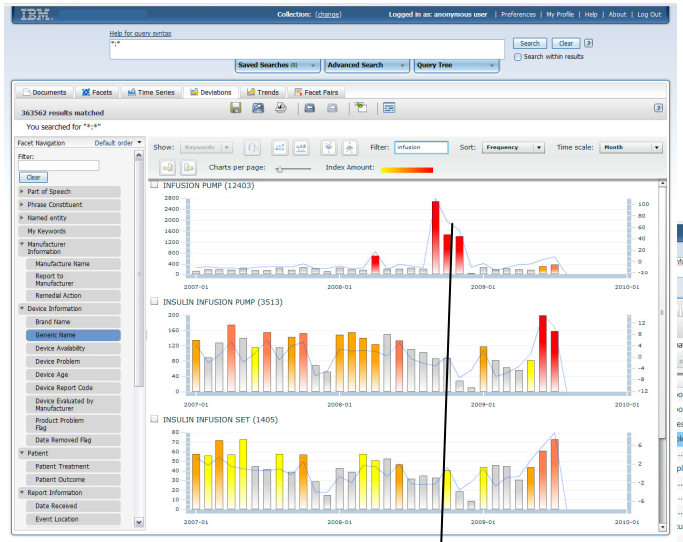
Correlate … deep analysis of content that surfaces trends, relationships patterns, concepts and anomalous associations

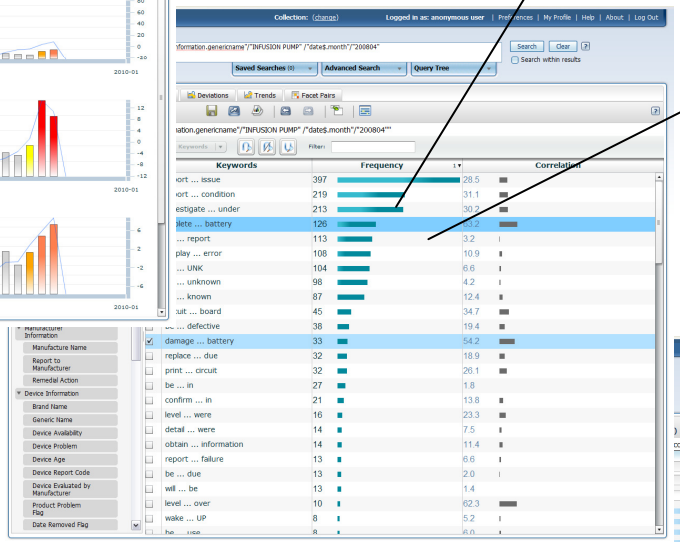
Visualize … easy to use, feature-rich views to quickly dissect large corpa of content and zero-in on answers

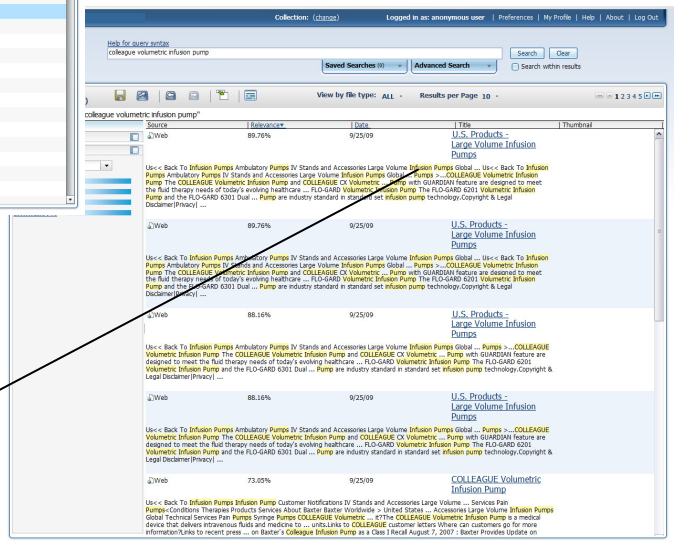
Explore … freely investigate content with faceted navigation and drill down to surface new insight and understanding.

… to enable informed business decisions

Result: Platform and Solutions delivering business value







Separate the valuable content from the unnecessary

Determine what customers will buy

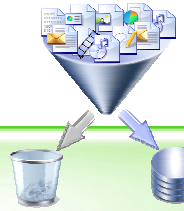
Find early warnings on product quality concerns

Tells you something you may not know

Identify potentially fraudulent insurance claims

Trusted Content Analytics Overview

Know



InfoSphere Content Assessment

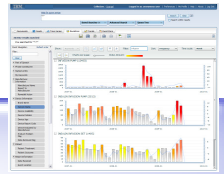
Empower organizations to identify necessary information and decommission the unnecessary

Trust

InfoSphere Master Content

Deliver trusted content to empower better decision making about individual customers

Leverage & Exploit

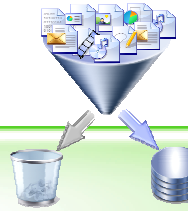


Cognos Content Analytics

Deliver insight by visualizing trends, correlations and anomalies about your overall business from your content

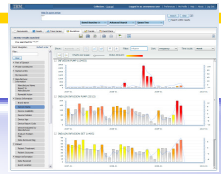
Trusted Content Analytics Overview

Know → **InfoSphere Content Assessment**



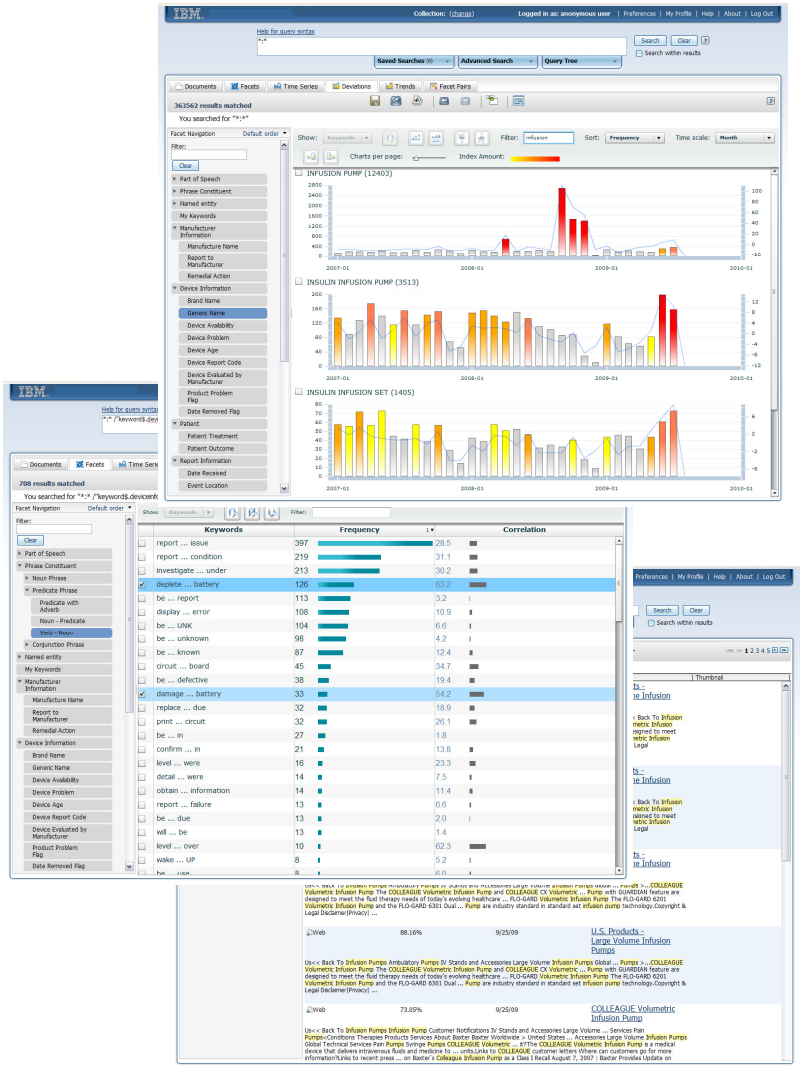
Trust → **InfoSphere Master Content**

Leverage & Exploit → **Cognos Content Analytics**



Introducing: Cognos Content Analytics (CCA 2.1)

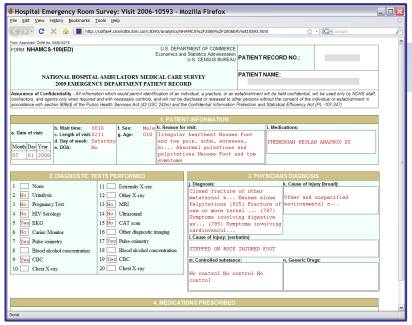
New!



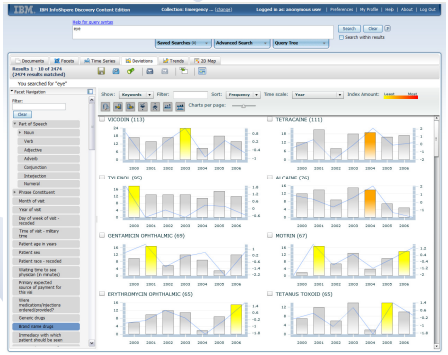
- Analyze and explore structured and unstructured information
- Automatic extraction of meaningful concepts and entities from text
- Open, standard UIMA-based text analysis pipeline
- Integration with Cognos for reporting against unstructured concepts
- Multiple graphical views of the facets (dimensions) of unstructured content
- Automatic highlighting of interesting anomalies and correlations in the data
- Support for analysis of over 30 content sources and over 150 content formats
- Integration with ICM for analysis of document categories, classes, and clusters
- Highly scalable and extensible

Cognos Content Analytics Example

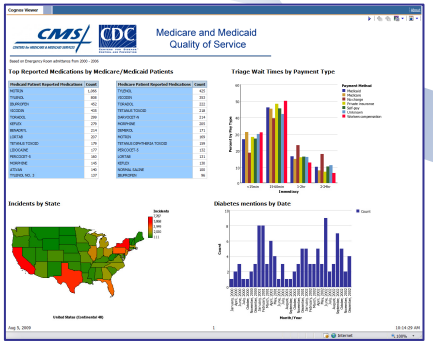
Content-Centric Business Intelligence – Health Insurance Example



Source Content
(ex: medical treatment record)



Interactive Discovery
(ex: trend & outlier analysis)

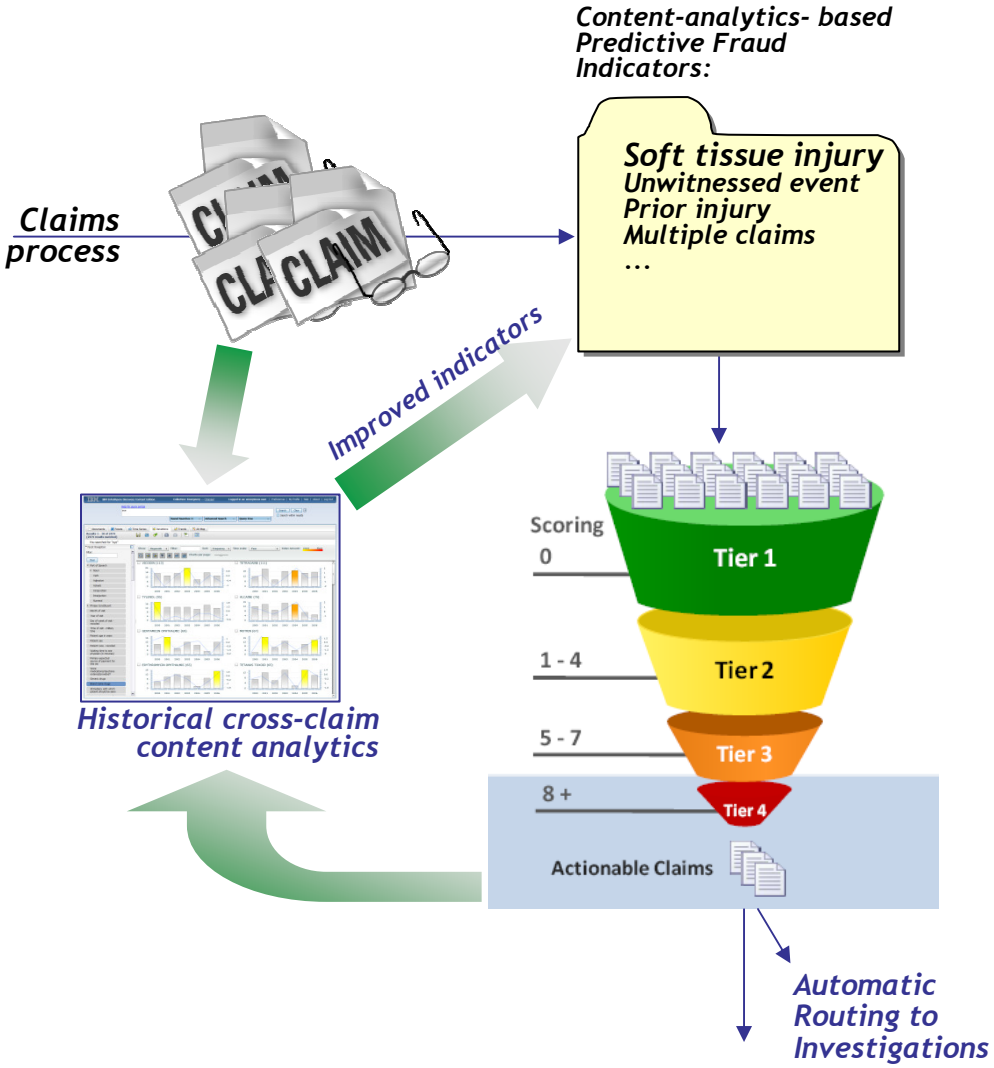


Operational Reporting
(ex: BI dashboard including content metrics)

- Content Analytics over patient care records provides insights for business optimization, such as:
  - Cross-provider comparisons of care effectiveness/efficiency for key conditions enables better provider management
  - Analysis of drug prescribing patterns identifies opportunities for efficiency
  - Verification of patient compliance to home-care protocols helps optimize coverage models for efficiency
- Highlights best-practice pattern for effective performance management with content analytics
  - *Discovery:* exploratory analysis by business analyst to identify issues, opportunities, and content KPIs
  - *Tracking:* key content-derived metrics operationalized in BI reports, scorecards, dashboards, alerts
  - *Action:* organization is measured on operationalized metrics, driving action and closed-loop response

Cognos Content Analytics Example

Content-Centric Business Intelligence – Reducing Claims Fraud



- Content analytics helps optimize claims processing through automated fraud detection
  - Automatic predictive analytics to identify and act on likely fraudulent claims
  - Analysis and reporting of fraudulent claim patterns for closed-loop improvement
- Typical results
  - Optimization of claims admin process
    - Increase automation of fraud handling
    - Expose inconsistencies in fraud examiners' procedure, driving training to improve quality
  - Reduce costs of paying fraudulent claims by 10% or more
  - Improve regulatory compliance via faster fraud detection & investigation

Cognos Content Analytics Example

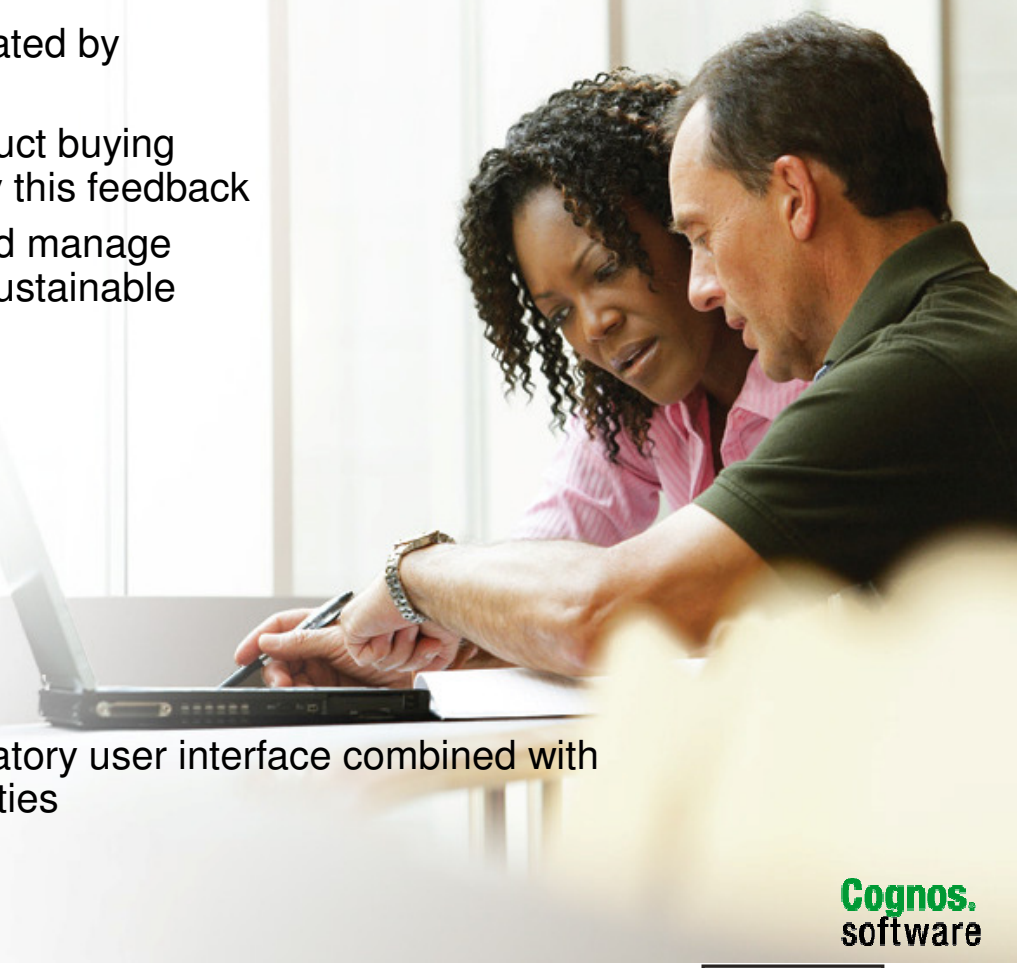
Content-Centric Business Intelligence – Hearing the Voice of the Customer

The Opportunity

- Explosion of consumer feedback generated by social media
- Brand / Corporate Reputation and Product buying decisions are increasingly influenced by this feedback
- Companies that pro-actively monitor and manage this feedback can gain significant and sustainable competitive advantage

Consumer Insights solution:

- Filters news and social media to cull relevant feedback
- Analyzes feedback for mentions of brand, products and key topics and correlates with sentiment
- Provides a unique search based exploratory user interface combined with sophisticated Cognos reporting capabilities



Cognos. software

Content Analytics enables Many Solution Opportunities

Retail Banking Customer Care

- ***Analyzing:*** *Call logs, online media*
- ***For:*** *Buyer Behavior*
- ***Benefits:*** *Improve Customer satisfaction, marketing campaigns, find new revenue opportunities*

Retail Customer Care

- ***Analyzing:*** *Call logs, online media*
- ***For:*** *Brand Reputation Management*
- ***Benefits:*** *Improve customer sat, marketing campaigns*

Crime Analytics

- ***Analyzing:*** *Police records, 911 calls…*
- ***For:*** *Rapid crime solving & crime trend analysis*
- ***Benefits:*** *Safer communities & optimized force deployment*

Healthcare Analytics

- ***Analyzing:*** *Care records*
- ***For:*** *Clinical analysis; treatment protocol optimization*
- ***Benefits:*** *Better management of chronic diseases; optimized drug formularies; improved patient outcomes*

Automotive Quality Insight

- ***Analyzing:*** *Tech notes, call logs, online media*
- ***For:*** *Brand Reputation Management*
- ***Benefits:*** *Reduce warranty costs, improve customer satisfaction, marketing campaigns*

Telco Customer Care

- ***Analyzing:*** *Call center logs and emails*
- ***For:*** *Churn prediction and FAQ generation*
- ***Benefits:*** *Improved customer retention & customer satisfaction*

Insurance Fraud

- ***Analyzing:*** *Insurance claims*
- ***For:*** *Detecting Fraudulent activity & patterns*
- ***Benefits:*** *Reduced losses, faster detection, more efficient claims processes*

...and more!

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Customers: Business Optimization Enabled by Content Analytics

Smarter Insurance

Large Claims Third-Party Administrator

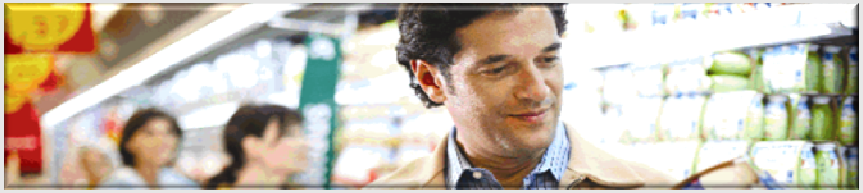
Analytics over insurance claim files helps detect fraud faster, reducing costs for their clients by $millions and optimizing the claims-handling process

Smarter Telecommunications

NTT DoCoMo

Analytics over Voice of Customer data provides insight to drive customer-oriented decision making, boosting loyalty and creating new opportunity

Smarter CPG



Kraft Australia

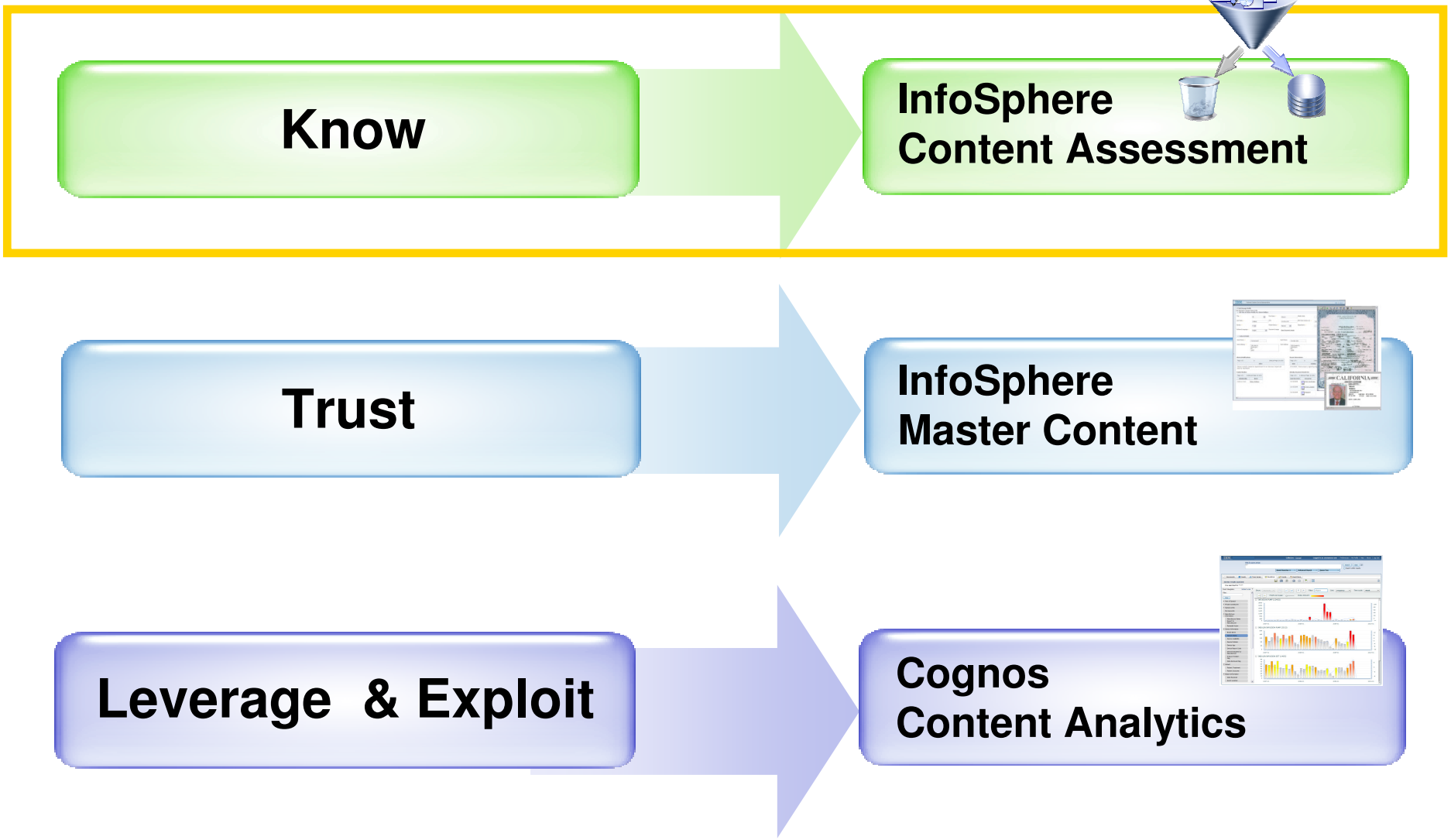
Analytics over online customer postings helps Kraft target and deliver new branding campaigns, increasing sales and customer loyalty.

Smarter Healthcare Plans

Blue Cross Blue Shield of TN

Analytics over an integrated single view of plans, patients and providers enables better negotiations and improves provider satisfaction to over 90%

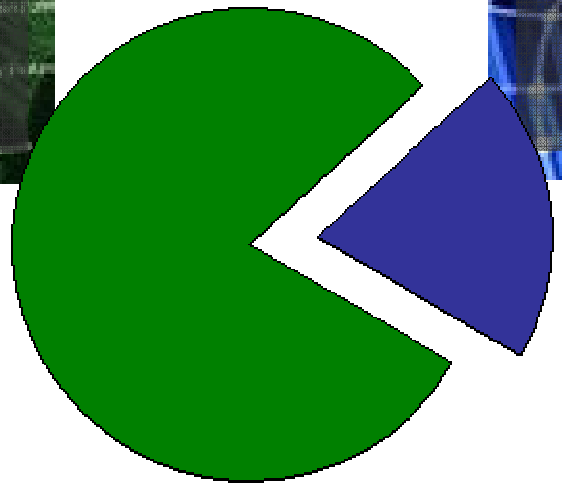
Trusted Content Analytics Overview



Unnecessary Information Eclipses Necessary Information

Unnecessary Information

Over-Retained
Irrelevant
Duplicated

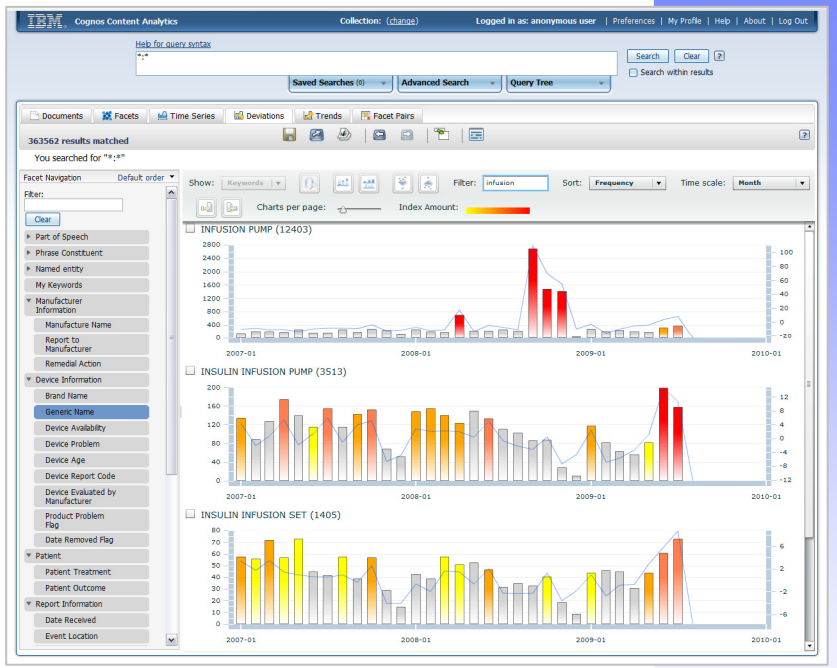


Necessary Information

Valued
High Risk
Compliant

How much of your information is unnecessary?
70%? 80%? 90%?

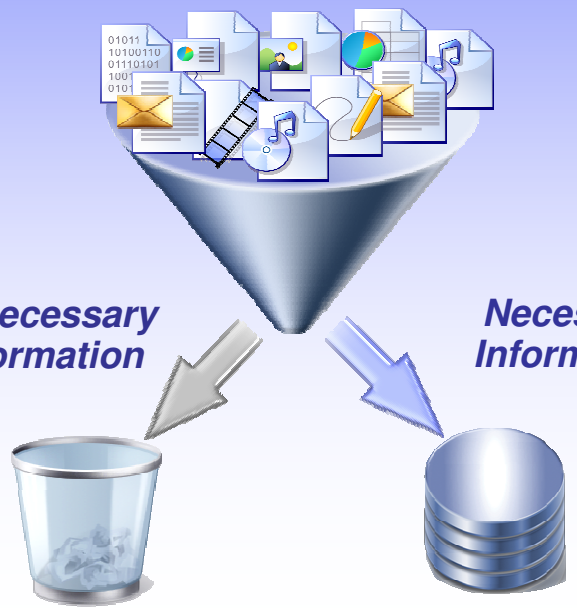
Content Assessment Enables Content Decommissioning



Bloated Production Systems with Inefficient Storage

Content Based Systems Needing Retirement

Content In The Wild



Unnecessary Information

Necessary Information

Content Decommissioning helps gain control by eliminating unneeded content and content systems while preserving valued content

One customer found 1200 copies of the same policy document, including 5 different versions, distributed across enterprise file servers

IBM InfoSphere Content Assessment

Leveraging Content Analytics to:

1

Dynamically Analyze what you have

Aggregate, Correlate, Visualize and Explore your enterprise information in new ways to understand virtually all content types from multiple sources. Make rapid *decisions* about business value, relevance and disposition.

2

Decommission what's unnecessary

Save cost and reduce risk by eliminating obsolete, over-retained, duplicate, and irrelevant content – and the infrastructure that supports it.

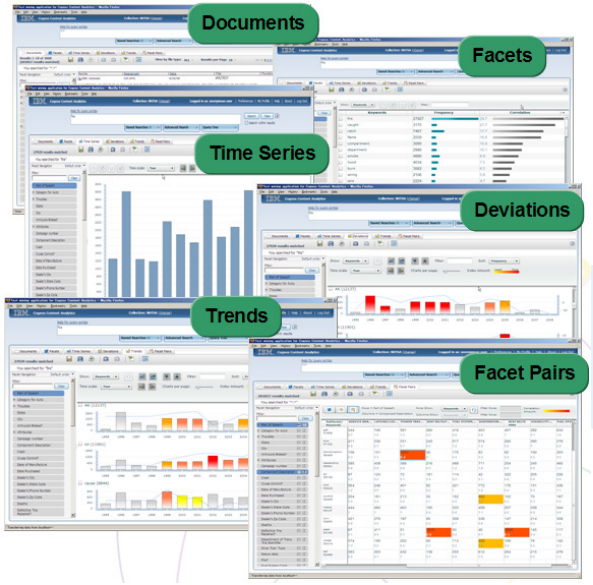
3

Preserve and Exploit the content that matters

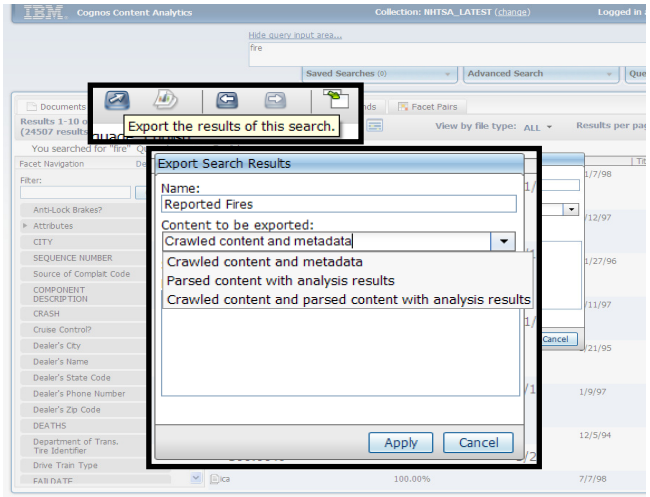
Collect valued content to manage, trust and govern throughout its lifespan in an enterprise-grade ECM platform. Uncover new business value and insight by integrating with solutions for eDiscovery, case management, master data management, business intelligence, predictive analytics and more.

Content Assessment Delivers Content to ECM Platform through Interactive Exploration

Dynamic Analysis leads to . . .



. . . export and collection of valued content for management.

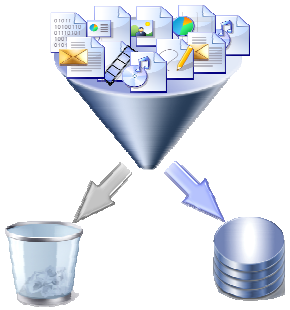


- Solution Bundle of 3 products:
  - Cognos Content Analytics for core dynamic analysis with user interfaces
  - InfoSphere Classification Module for additional content categorization, modular content analytics (works with both CCA and ICC) and taxonomy proposal
  - InfoSphere Content Collector for File Systems for gaining control of content

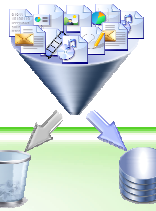
Typical Savings from Content Decommissioning

Content decommissioning, dynamic collection for eDiscovery lead to measurable ROI

Cost Drivers	Savings After Deployment
Production System Tangible Costs – *Email / File / SharePoint Storage* – *Production System Servers* – *Backup*	Storage Management Tangible Savings – *50%-80%* – *40%-60%* – *Cost of backup media and storage*
Production System Productivity Costs – *Production System Administration* – *End-User Administration / Classification*	Storage Management Productivity Savings – *20% to 80%* – *70% to 90%*
eDiscovery Costs – *Data Spoliation (fines, lost or settled cases)* – *Labor costs of providing the information*	eDiscovery Cost Avoidance – *Up to 100%* – *Hours vs. Days*



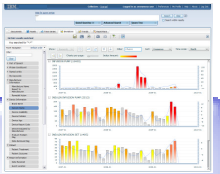
Trusted Content Analytics Overview



Know → **InfoSphere Content Assessment**

Trust → **InfoSphere Master Content**

Leverage & Exploit → **Cognos Content Analytics**



InfoSphere Master Content – Delivering Trusted Content

For Advanced Case Management and other ECM Customer-Centric Applications

ECM

MDM

Master content & data published to MDM

Advanced Case Management & other business applications create and consume trusted content & data

MDM cleanses, validates & stores new data and links. Creates more complete single-view of customer

Single-view of customer published for use by ECM

Trusted content is content that has business value requiring governance. Trusted content has:

- Authority - is up-to-date
- Authenticity - can be linked to its source
- Reliability - provides accurate representation
- Integrity - is complete, unaltered & in context
- Usability - is accessible & presentable

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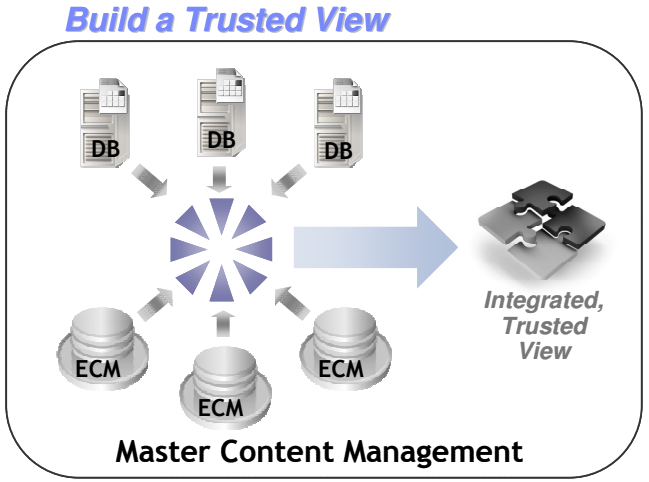
Trust: Master Content for Trusted Views

New!

A common architecture for creating complete, trusted views of key business entities

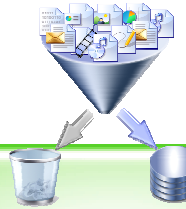
- Master Content Management creates trusted views of business entities, linking ECM content to MDM master records
- ECM provides integrated, trusted content
  - Federation and collection to integrate content into a master catalog
  - Business processes and lifecycle management to maintain content quality
  - Classification and metadata tools to improve content quality
- MDM provides an information hub and business entity definition
  - Connections to sources of information about key business entities
  - Tools and processes to define master entities, reconcile information, & create master entity records
  - Services to deliver master information to consuming applications
- InfoSphere Master Content links IBM ECM and MDM to create complete single views of entities
  - Identifies, establishes and maintains links between enterprise content and its appropriate master record
  - Leverage enterprise content to create trusted linkages between content and MDM records
  - Augment and enhance your master records to create fuller, single views



Trusted Content Analytics Summary

Deliver new insight from content assets by:

- *Knowing* your content by dynamically analyzing it to make rapid decisions about it, to cut costs and optimize storage

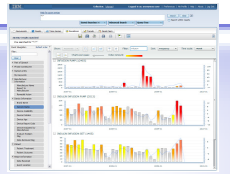


InfoSphere Content Assessment

- *Trust* content to create more complete, in-depth single version of the truth as encapsulated in organizations' master data for customers/citizens

InfoSphere Master Content

- *Leveraging and exploiting* content to spot issues and important trends that may fall outside of the normal business reporting channels and deliver new insights to business users across the organization.



Cognos Content Analytics

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Demo: Content Analytics Saving Lives

Detecting medical device failures 8 months earlier than manual approaches

U.S. Department of Health and Human Services

MedWatch

The FDA Safety Information and Adverse Event Reporting Program

General Instructions

For VOLUNTARY reporting of adverse events, product problems and use errors

Page 1 of 2

Form Approved: OMB No. 0910-0291
See OMB statement on reverse.

FDA USE ONLY

Triage unit #

Sequence #

A. PATIENT INFORMATION

1. Patient Identifier	2. Age	3. Sex	4. Weight
(In confidence)	(In confidence)	Female / Male	Lb / or / Kg

B. ADVERSE EVENT, PRODUCT PROBLEM OR ERROR

1. Date of Event	2. Date of this Report
2006-03-15	2006-03-15

3. Describe Event, Problem, or Product Use Error

THE FACILITY REPRESENTATIVE REPORTED A BAD BATTERIES DURING BIOMED TESTING ON SITE. THE HOSPITAL REPRESENTATIVE DID NOT HAVE INFORMATON REGARDING WHETHER THERE HAVE BEEN ANY REPORTS OF ANY PATIENT INJURY OR MEDICAL INTERVENTION. NO ADDITIONAL INFORMATION IS AVAILABLE.

E. SUSPECT MEDICAL DEVICE

1. Brand Name

COLLEAGUE 3CX VOLUMETRIC INFUSION PUMP

2. Common Device Name

INFUSION PUMP

3. Manufacturer Name

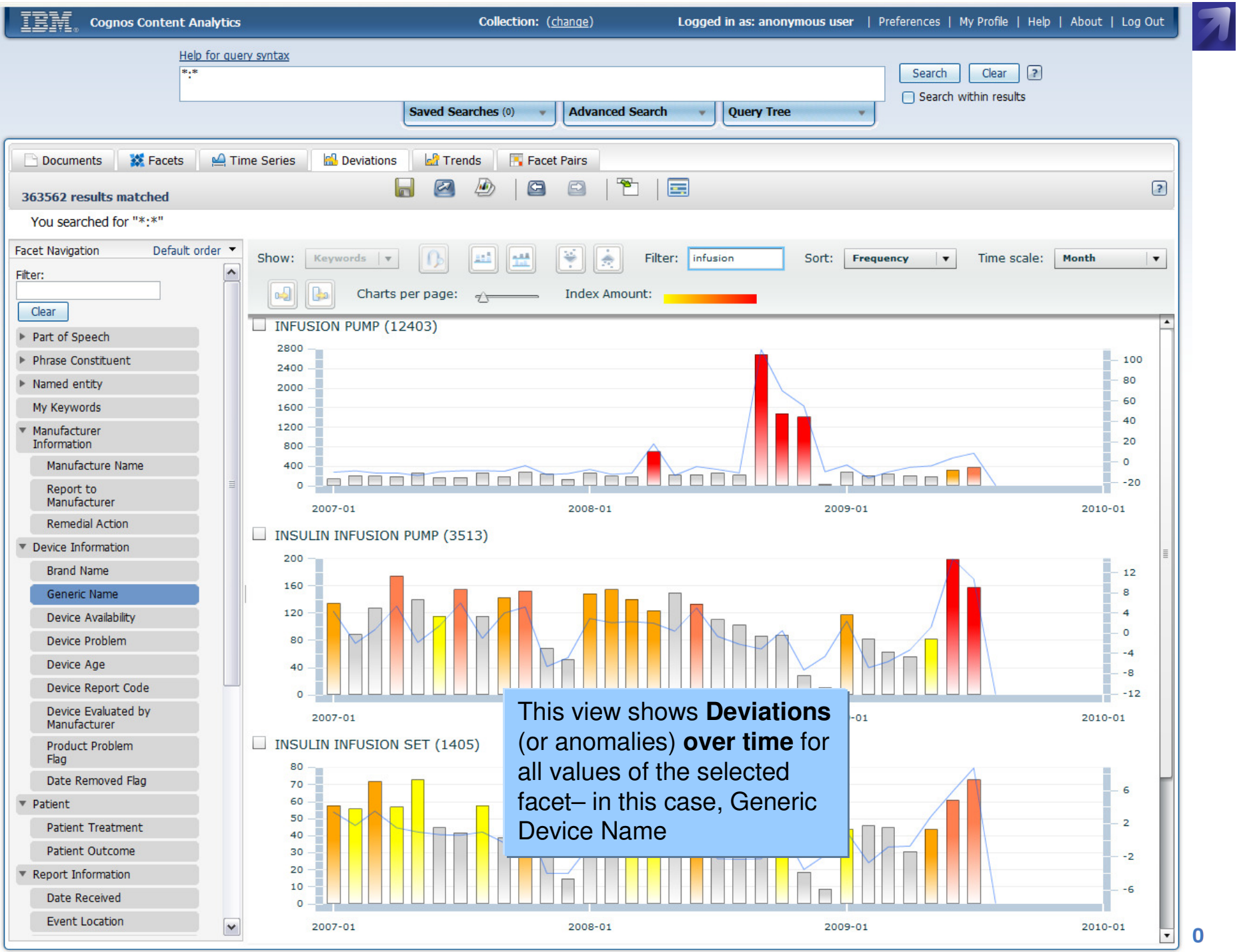
BAXTER HEALTHCARE PTE. LTD.

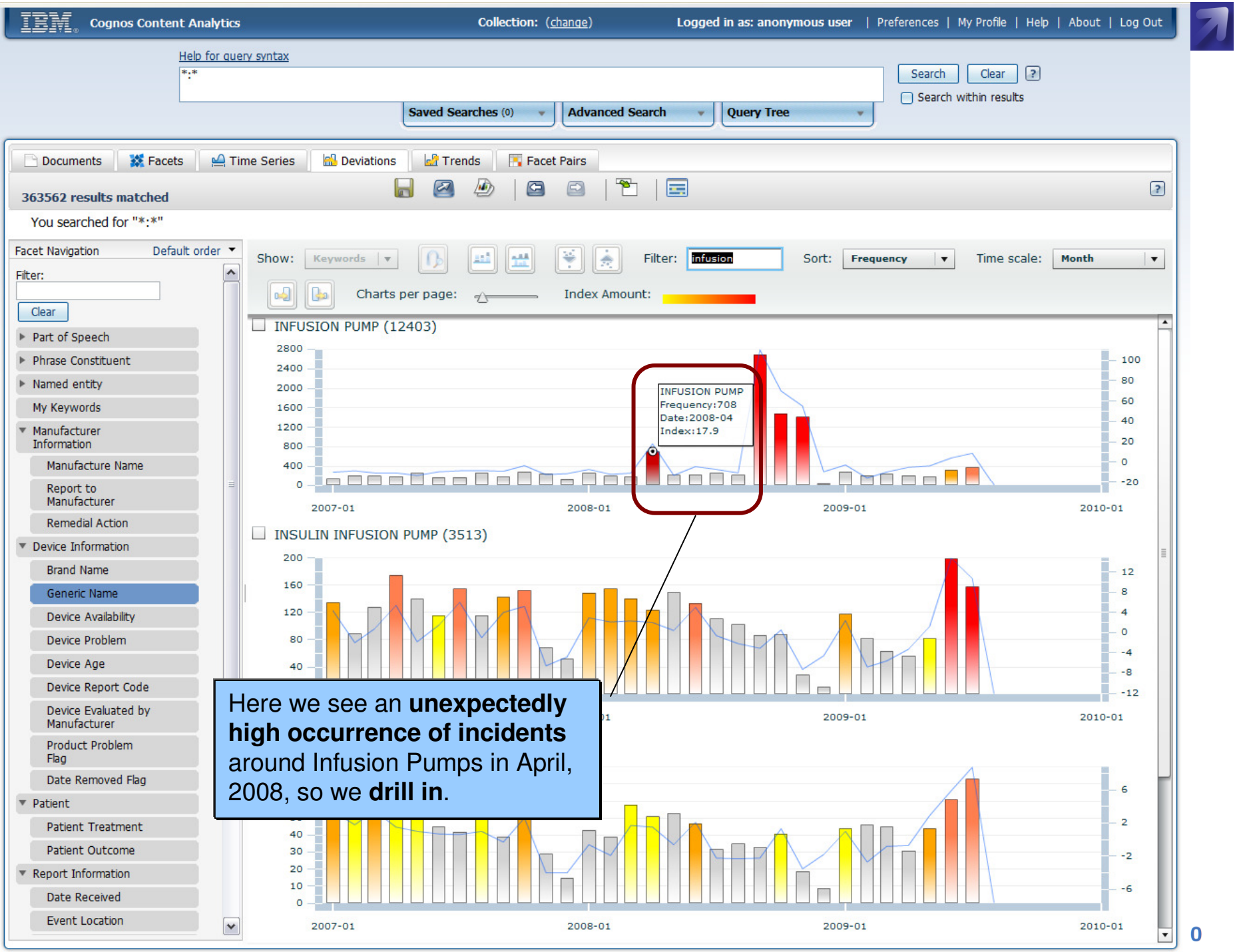
4. Device Problem

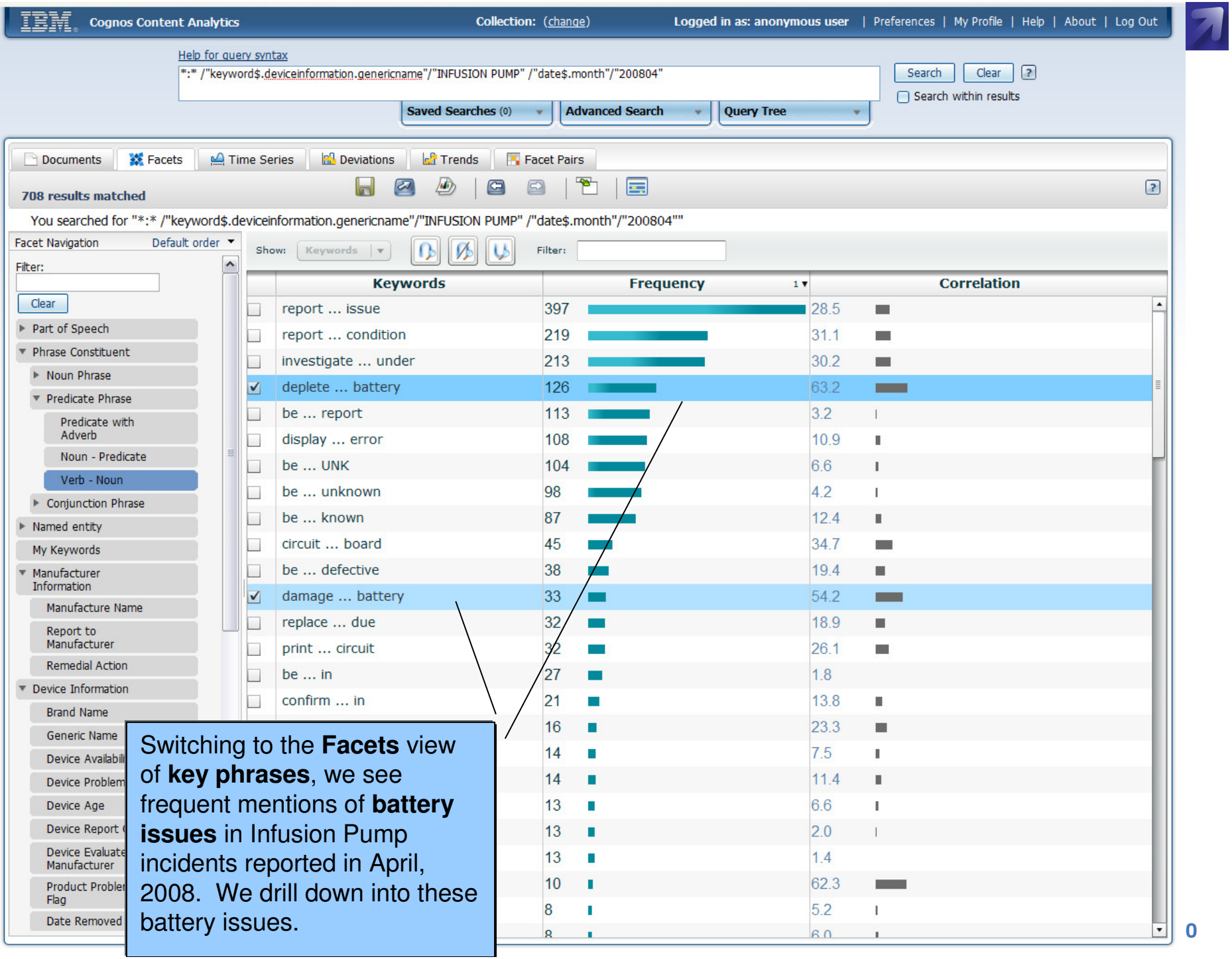
5. Manufacturer Evaluation

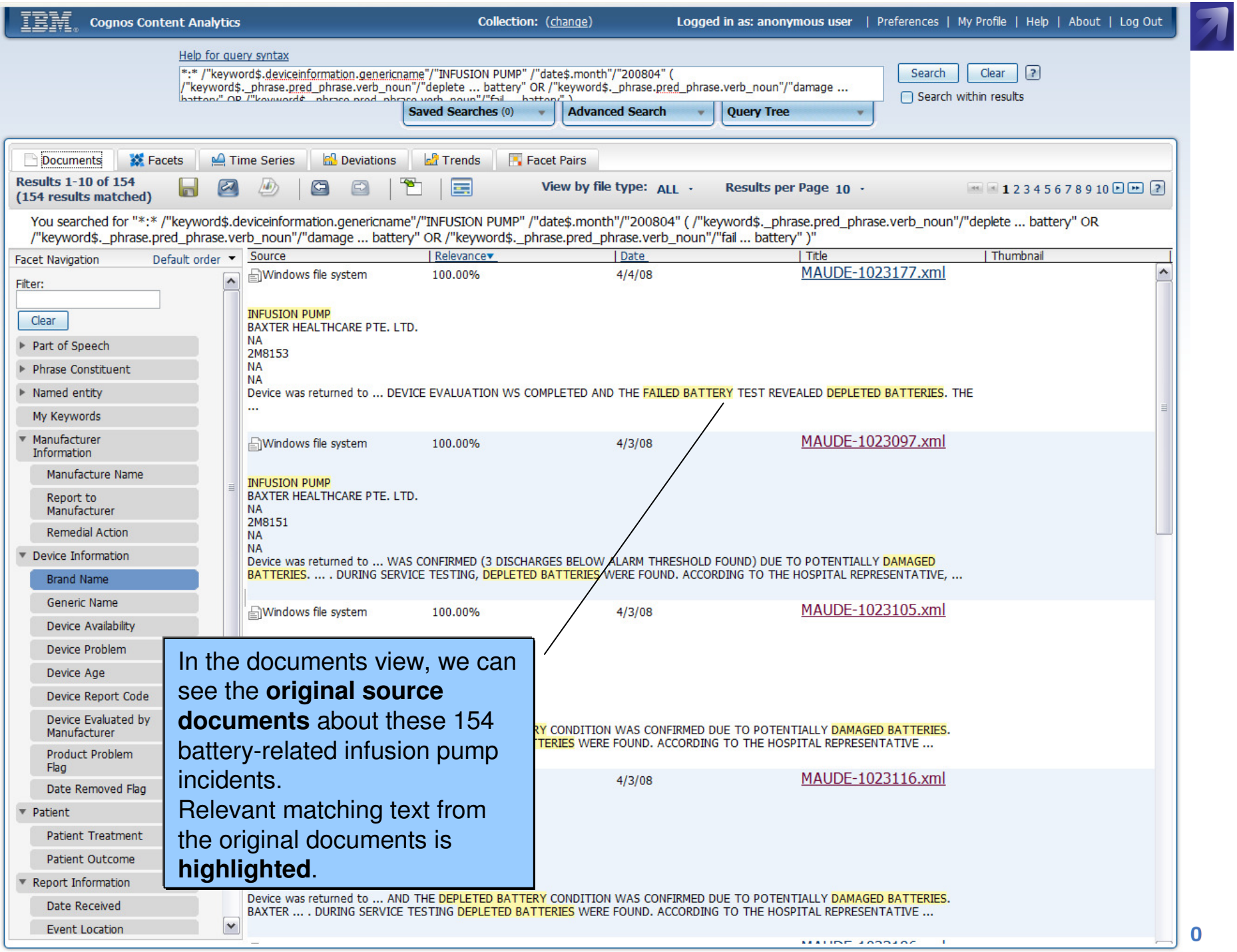
EVALUATION SUMMARY: THE REPORTED CONDITION OF DEPLETED BATTERIES WAS CONFIRMED. THE BATTERIES WERE REPLACED DUE TO POTENTIAL DAMAGE. REVIEW OF THE COMPLAINT HISTORY REVEALS SIMILAR REPORTS HAVE BEEN RECEIVED FOR THIS PRODUCT FOR THE REPORTED ISSUE. THIS ISSUE IS BEING INVESTIGATED UNDER CAPA. EVALUATION WAS CONDUCTED ON SITE

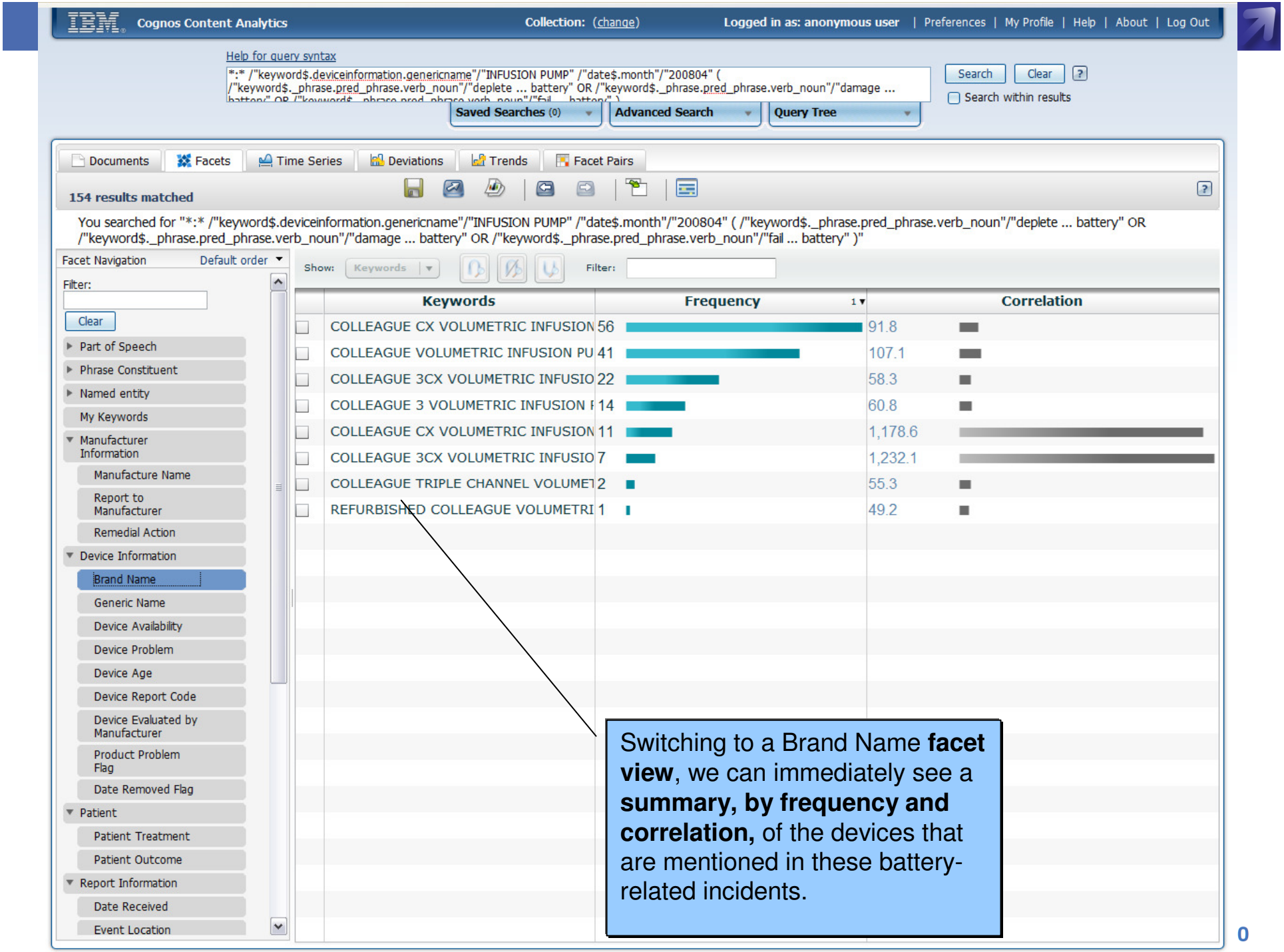
FDA MedWatch incident reports are one source of data for **medical device manufacturers** to understand problems being reported by consumers about their products. It contains both **structured and unstructured** information.
A manufacturer could **also analyze internal content**, such as warranty claims or support incidents


IBM Cognos Content Analytics
Collection: (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
:
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
Facet Pairs
363562 results matched
You searched for "*:*"
Facet Navigation
Default order
Filter:
Clear
Part of Speech
Phrase Constituent
Named entity
My Keywords
Manufacturer Information
Manufacture Name
Report to Manufacturer
Remedial Action
Device Information
Brand Name
Generic Name
Device Availability
Device Problem
Device Age
Device Report Code
Device Evaluated by Manufacturer
Product Problem Flag
Date Removed Flag
Patient
Patient Treatment
Patient Outcome
Report Information
Date Received
Event Location
Show:
Keywords
Filter:
infusion
Sort:
Frequency
Time scale:
Month
Charts per page:
Index Amount:
INFUSION PUMP (12403)
INSULIN INFUSION PUMP (3513)
INSULIN INFUSION SET (1405)
2007-01
2008-01
2009-01
2010-01
This view shows Deviations (or anomalies) over time for all values of the selected facet– in this case, Generic Device Name


IBM Cognos Content Analytics
Collection: (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
:
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
Facet Pairs
363562 results matched
You searched for "*:*"
Facet Navigation
Default order
Filter:
Clear
Part of Speech
Phrase Constituent
Named entity
My Keywords
Manufacturer Information
Manufacture Name
Report to Manufacturer
Remedial Action
Device Information
Brand Name
Generic Name
Device Availability
Device Problem
Device Age
Device Report Code
Device Evaluated by Manufacturer
Product Problem Flag
Date Removed Flag
Patient
Patient Treatment
Patient Outcome
Report Information
Date Received
Event Location
Show:
Keywords
Filter:
infusion
Sort:
Frequency
Time scale:
Month
Charts per page:
Index Amount:
INFUSION PUMP (12403)
INFUSION PUMP
Frequency:708
Date:2008-04
Index:17.9
2007-01
2008-01
2009-01
2010-01
INSULIN INFUSION PUMP (3513)
Here we see an unexpectedly high occurrence of incidents around Infusion Pumps in April, 2008, so we drill in.


IBM Cognos Content Analytics
Collection: (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
: /"keyword$.deviceinformation.genericname"/"INFUSION PUMP" /"date$.month"/"200804"
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
Facet Pairs
708 results matched
You searched for "*:* /"keyword$.deviceinformation.genericname"/"INFUSION PUMP" /"date$.month"/"200804""
Facet Navigation
Default order
Filter:
Clear
Part of Speech
Phrase Constituent
Noun Phrase
Predicate Phrase
Predicate with Adverb
Noun - Predicate
Verb - Noun
Conjunction Phrase
Named entity
My Keywords
Manufacturer Information
Manufacture Name
Report to Manufacturer
Remedial Action
Device Information
Brand Name
Generic Name
Device Availabili
Device Problem
Device Age
Device Report
Device Evaluate Manufacturer
Product Proble Flag
Date Removed
Show: Keywords
Filter:
Keywords
Frequency
Correlation
report ... issue 397 28.5
report ... condition 219 31.1
investigate ... under 213 30.2
deplete ... battery 126 63.2
be ... report 113 3.2
display ... error 108 10.9
be ... UNK 104 6.6
be ... unknown 98 4.2
be ... known 87 12.4
circuit ... board 45 34.7
be ... defective 38 19.4
damage ... battery 33 54.2
replace ... due 32 18.9
print ... circuit 32 26.1
be ... in 27 1.8
confirm ... in 21 13.8
16 23.3
14 7.5
14 11.4
13 6.6
13 2.0
13 1.4
10 62.3
8 5.2
Switching to the Facets view of key phrases, we see frequent mentions of battery issues in Infusion Pump incidents reported in April, 2008. We drill down into these battery issues.

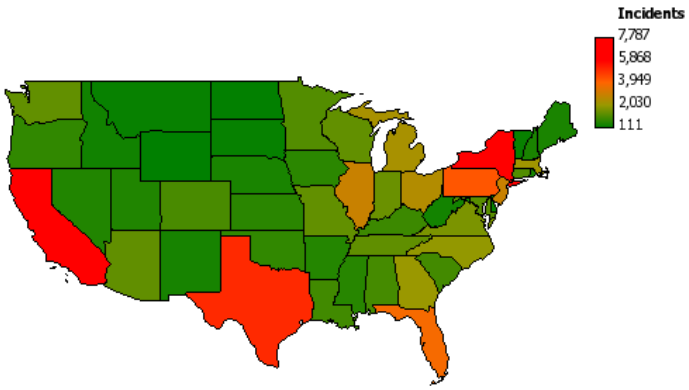

IBM Cognos Content Analytics
Collection: (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
: /"keyword$.deviceinformation.genericname"/"INFUSION PUMP" /"date$.month"/"200804" (/"keyword$._phrase.pred_phrase.verb_noun"/"deplete ... battery" OR /"keyword$._phrase.pred_phrase.verb_noun"/"damage ...
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
Facet Pairs
Results 1-10 of 154
(154 results matched)
View by file type: ALL
Results per Page 10
1 2 3 4 5 6 7 8 9 10
You searched for "*:* /"keyword$.deviceinformation.genericname"/"INFUSION PUMP" /"date$.month"/"200804" (/"keyword$._phrase.pred_phrase.verb_noun"/"deplete ... battery" OR /"keyword$._phrase.pred_phrase.verb_noun"/"damage ... battery" OR /"keyword$._phrase.pred_phrase.verb_noun"/"fail ... battery")"
Facet Navigation
Default order
Filter:
Clear
Part of Speech
Phrase Constituent
Named entity
My Keywords
Manufacturer Information
Manufacture Name
Report to Manufacturer
Remedial Action
Device Information
Brand Name
Generic Name
Device Availability
Device Problem
Device Age
Device Report Code
Device Evaluated by Manufacturer
Product Problem Flag
Date Removed Flag
Patient
Patient Treatment
Patient Outcome
Report Information
Date Received
Event Location
Source
Relevance
Date
Title
Thumbnail
Windows file system
100.00%
4/4/08
MAUDE-1023177.xml
INFUSION PUMP
BAXTER HEALTHCARE PTE. LTD.
NA
2M8153
NA
NA
Device was returned to ... DEVICE EVALUATION WS COMPLETED AND THE FAILED BATTERY TEST REVEALED DEPLETED BATTERIES. THE ...
Windows file system
100.00%
4/3/08
MAUDE-1023097.xml
INFUSION PUMP
BAXTER HEALTHCARE PTE. LTD.
NA
2M8151
NA
NA
Device was returned to ... WAS CONFIRMED (3 DISCHARGES BELOW ALARM THRESHOLD FOUND) DUE TO POTENTIALLY DAMAGED BATTERIES. ... . DURING SERVICE TESTING, DEPLETED BATTERIES WERE FOUND. ACCORDING TO THE HOSPITAL REPRESENTATIVE, ...
Windows file system
100.00%
4/3/08
MAUDE-1023105.xml
RY CONDITION WAS CONFIRMED DUE TO POTENTIALLY DAMAGED BATTERIES.
TTERIES WERE FOUND. ACCORDING TO THE HOSPITAL REPRESENTATIVE ...
4/3/08
MAUDE-1023116.xml
Device was returned to ... AND THE DEPLETED BATTERY CONDITION WAS CONFIRMED DUE TO POTENTIALLY DAMAGED BATTERIES.
BAXTER ... . DURING SERVICE TESTING DEPLETED BATTERIES WERE FOUND. ACCORDING TO THE HOSPITAL REPRESENTATIVE ...
In the documents view, we can see the original source documents about these 154 battery-related infusion pump incidents.
Relevant matching text from the original documents is highlighted.


IBM Cognos Content Analytics
Collection: (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
: /"keyword$.deviceinformation.genericname"/"INFUSION PUMP" /"date$.month"/"200804" (/"keyword$._phrase.pred_phrase.verb_noun"/"deplete ... battery" OR /"keyword$._phrase.pred_phrase.verb_noun"/"damage ...
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
Facet Pairs
154 results matched
You searched for "*:* /"keyword$.deviceinformation.genericname"/"INFUSION PUMP" /"date$.month"/"200804" (/"keyword$._phrase.pred_phrase.verb_noun"/"deplete ... battery" OR /"keyword$._phrase.pred_phrase.verb_noun"/"damage ... battery" OR /"keyword$._phrase.pred_phrase.verb_noun"/"fail ... battery")"
Facet Navigation
Default order
Filter:
Clear
Part of Speech
Phrase Constituent
Named entity
My Keywords
Manufacturer Information
Manufacture Name
Report to Manufacturer
Remedial Action
Device Information
Brand Name
Generic Name
Device Availability
Device Problem
Device Age
Device Report Code
Device Evaluated by Manufacturer
Product Problem Flag
Date Removed Flag
Patient
Patient Treatment
Patient Outcome
Report Information
Date Received
Event Location
Show:
Keywords
Filter:
Keywords
Frequency
Correlation
COLLEAGUE CX VOLUMETRIC INFUSION 56 91.8
COLLEAGUE VOLUMETRIC INFUSION PU 41 107.1
COLLEAGUE 3CX VOLUMETRIC INFUSIO 22 58.3
COLLEAGUE 3 VOLUMETRIC INFUSION F 14 60.8
COLLEAGUE CX VOLUMETRIC INFUSION 11 1,178.6
COLLEAGUE 3CX VOLUMETRIC INFUSIO 7 1,232.1
COLLEAGUE TRIPLE CHANNEL VOLUMET 2 55.3
REFURBISHED COLLEAGUE VOLUMETRI 1 49.2
Switching to a Brand Name facet view, we can immediately see a summary, by frequency and correlation, of the devices that are mentioned in these battery-related incidents.

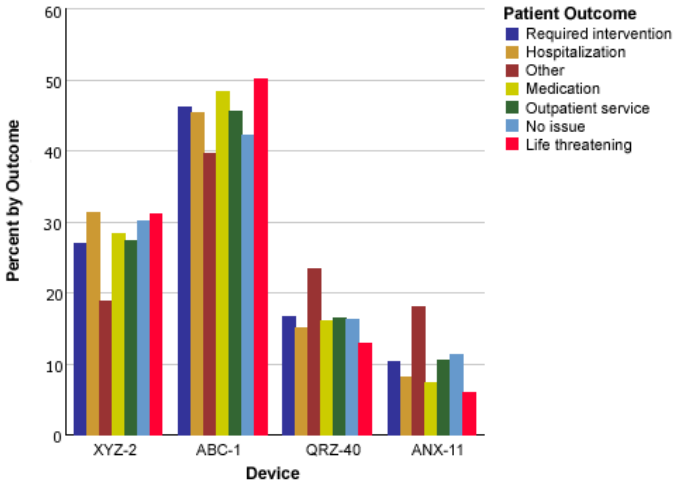
U.S. Food and Drug Administration
MedWatch

Quality Early Insight

Incidents by State



Patient Outcomes by Device



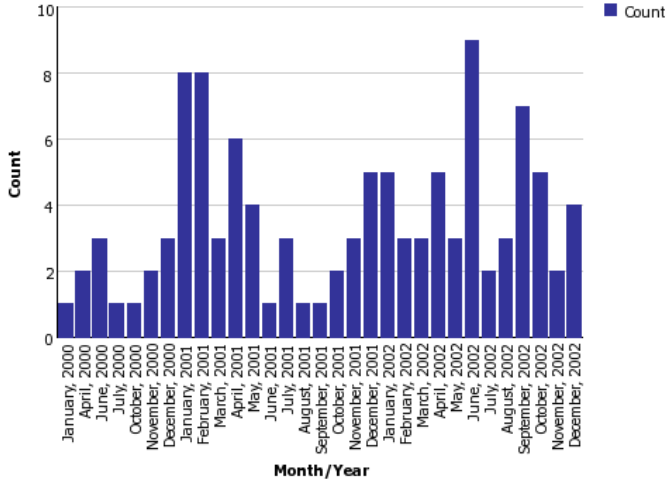
Top correlated medications reported by device

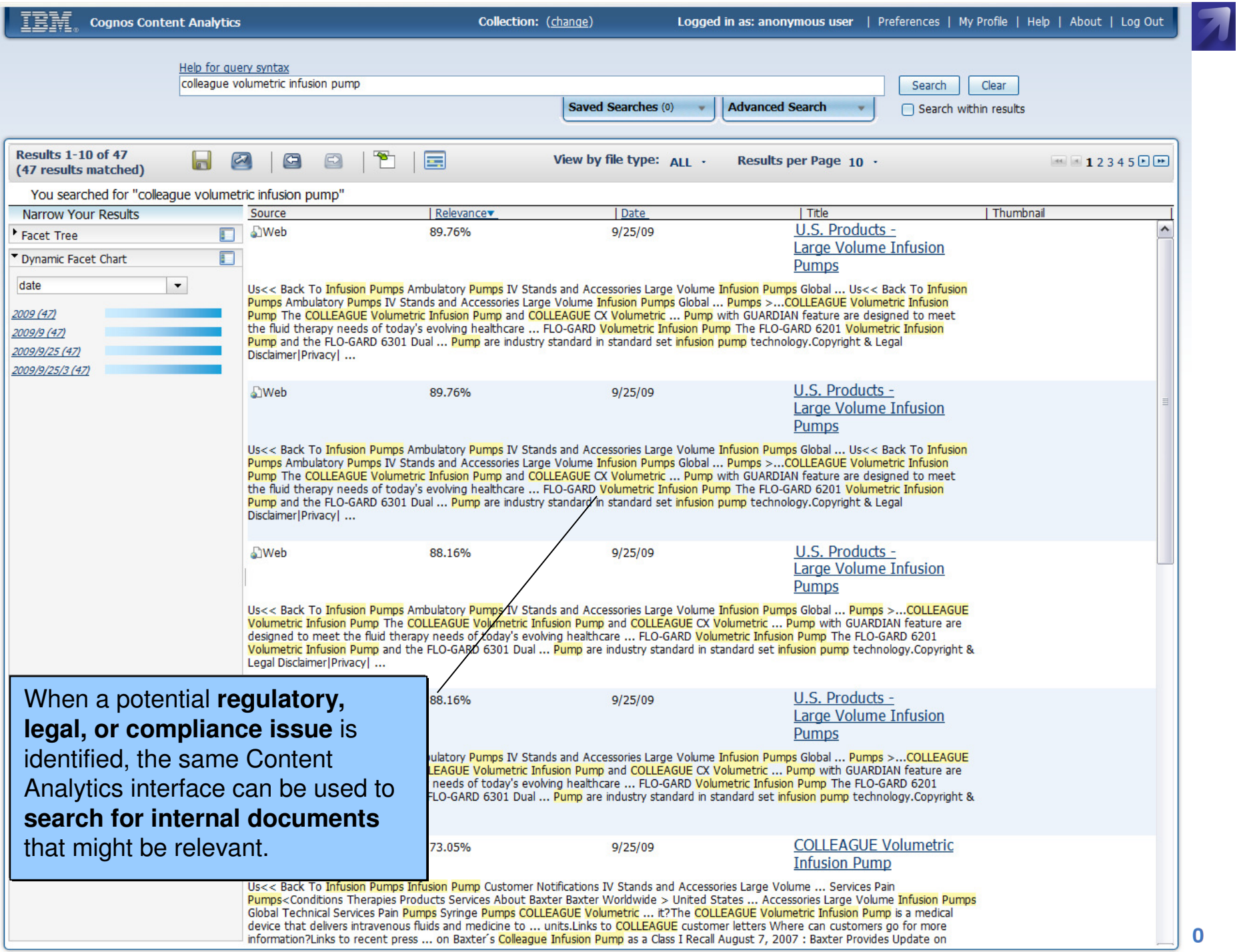
Top medications for XYZ-2	Count
MOTRIN	1,066
TYLENOL	808
IBUPROFEN	452

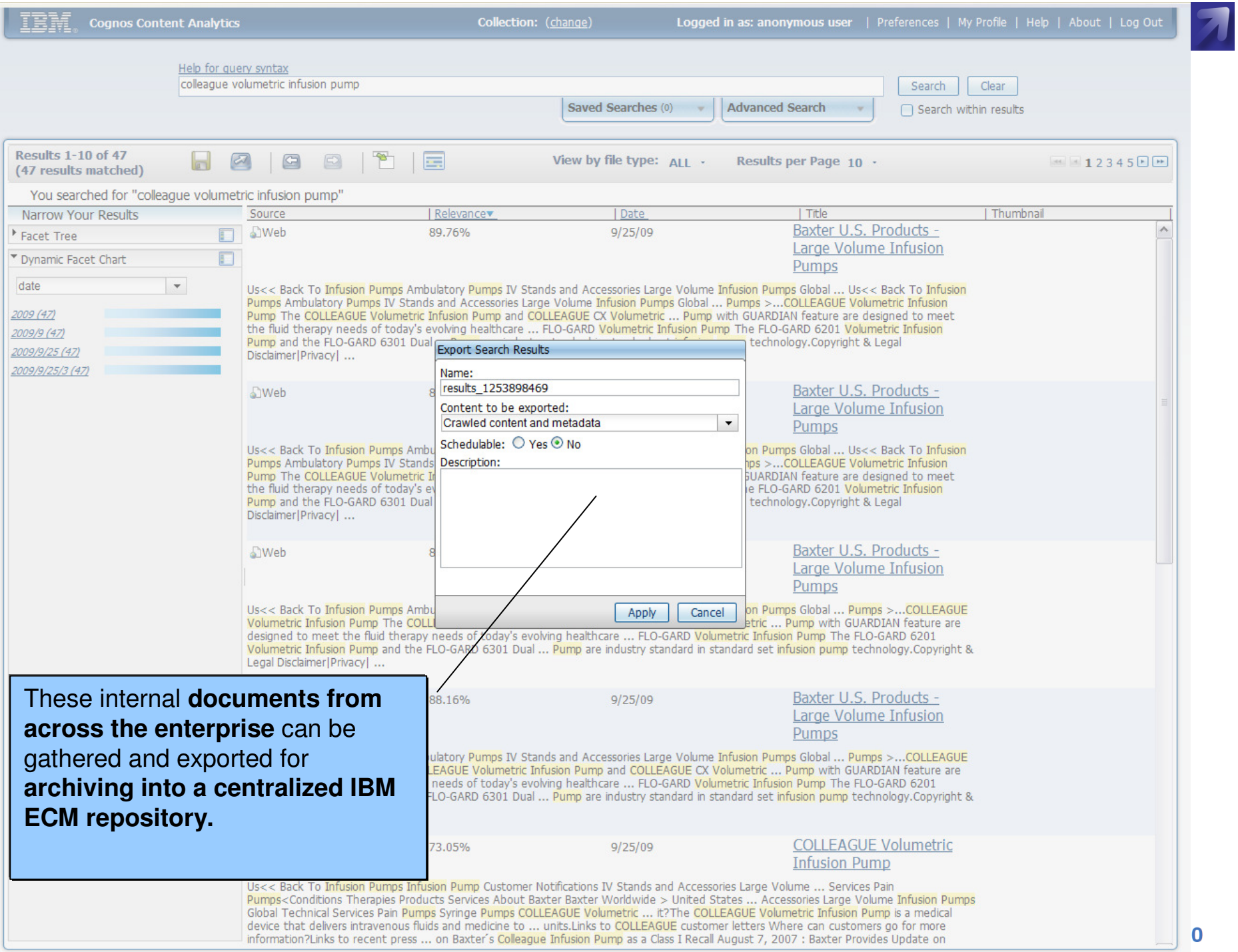
Top medications for ABC-1	Count
TYLENOL	425
VICODIN	353
TORADOL	222
	218
	214
	205
	171
	169
TOXOID	159
	132
	131
	130
	100
	96

Through **Cognos Content Analytics OLAP/Star Schema export** ability, Cognos BI **reports and dashboards** can be created to **monitor and track** these issues over time.

Battery mentions by Date




IBM Cognos Content Analytics
Collection: (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
colleague volumetric infusion pump
Search
Clear
Saved Searches (0)
Advanced Search
Search within results
Results 1-10 of 47
(47 results matched)
View by file type: ALL
Results per Page 10
1 2 3 4 5
You searched for "colleague volumetric infusion pump"
Narrow Your Results
Facet Tree
Dynamic Facet Chart
date
2009 (47)
2009/9 (47)
2009/9/25 (47)
2009/9/25/3 (47)
Source
Relevance
Date
Title
Thumbnail
Web
89.76%
9/25/09
U.S. Products - Large Volume Infusion Pumps
Us<< Back To Infusion Pumps Ambulatory Pumps IV Stands and Accessories Large Volume Infusion Pumps Global ... Us<< Back To Infusion Pumps Ambulatory Pumps IV Stands and Accessories Large Volume Infusion Pumps Global ... Pumps >...COLLEAGUE Volumetric Infusion Pump The COLLEAGUE Volumetric Infusion Pump and COLLEAGUE CX Volumetric ... Pump with GUARDIAN feature are designed to meet the fluid therapy needs of today's evolving healthcare ... FLO-GARD Volumetric Infusion Pump The FLO-GARD 6201 Volumetric Infusion Pump and the FLO-GARD 6301 Dual ... Pump are industry standard in standard set infusion pump technology.Copyright & Legal Disclaimer|Privacy| ...
Web
89.76%
9/25/09
U.S. Products - Large Volume Infusion Pumps
Us<< Back To Infusion Pumps Ambulatory Pumps IV Stands and Accessories Large Volume Infusion Pumps Global ... Us<< Back To Infusion Pumps Ambulatory Pumps IV Stands and Accessories Large Volume Infusion Pumps Global ... Pumps >...COLLEAGUE Volumetric Infusion Pump The COLLEAGUE Volumetric Infusion Pump and COLLEAGUE CX Volumetric ... Pump with GUARDIAN feature are designed to meet the fluid therapy needs of today's evolving healthcare ... FLO-GARD Volumetric Infusion Pump The FLO-GARD 6201 Volumetric Infusion Pump and the FLO-GARD 6301 Dual ... Pump are industry standard in standard set infusion pump technology.Copyright & Legal Disclaimer|Privacy| ...
Web
88.16%
9/25/09
U.S. Products - Large Volume Infusion Pumps
Us<< Back To Infusion Pumps Ambulatory Pumps IV Stands and Accessories Large Volume Infusion Pumps Global ... Pumps >...COLLEAGUE Volumetric Infusion Pump The COLLEAGUE Volumetric Infusion Pump and COLLEAGUE CX Volumetric ... Pump with GUARDIAN feature are designed to meet the fluid therapy needs of today's evolving healthcare ... FLO-GARD Volumetric Infusion Pump The FLO-GARD 6201 Volumetric Infusion Pump and the FLO-GARD 6301 Dual ... Pump are industry standard in standard set infusion pump technology.Copyright & Legal Disclaimer|Privacy| ...
88.16%
9/25/09
U.S. Products - Large Volume Infusion Pumps
ulatory Pumps IV Stands and Accessories Large Volume Infusion Pumps Global ... Pumps >...COLLEAGUE LEAGUE Volumetric Infusion Pump and COLLEAGUE CX Volumetric ... Pump with GUARDIAN feature are needs of today's evolving healthcare ... FLO-GARD Volumetric Infusion Pump The FLO-GARD 6201 FLO-GARD 6301 Dual ... Pump are industry standard in standard set infusion pump technology.Copyright &
73.05%
9/25/09
COLLEAGUE Volumetric Infusion Pump
Us<< Back To Infusion Pumps Infusion Pump Customer Notifications IV Stands and Accessories Large Volume ... Services Pain Pumps<Conditions Therapies Products Services About Baxter Baxter Worldwide > United States ... Accessories Large Volume Infusion Pumps Global Technical Services Pain Pumps Syringe Pumps COLLEAGUE Volumetric ... it?The COLLEAGUE Volumetric Infusion Pump is a medical device that delivers intravenous fluids and medicine to ... units.Links to COLLEAGUE customer letters Where can customers go for more information?Links to recent press ... on Baxter´s Colleague Infusion Pump as a Class I Recall August 7, 2007 : Baxter Provides Update on
When a potential regulatory, legal, or compliance issue is identified, the same Content Analytics interface can be used to search for internal documents that might be relevant.

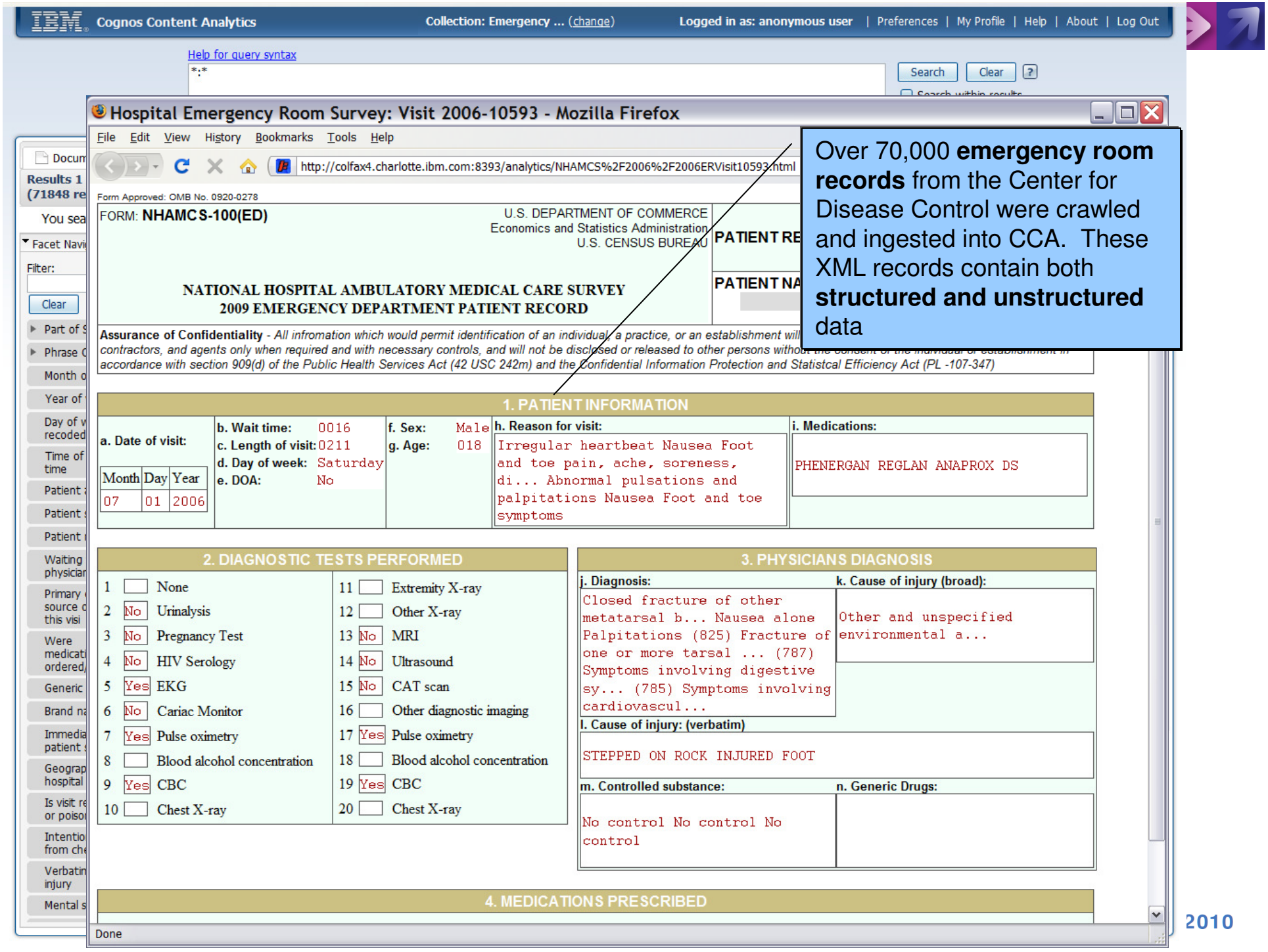


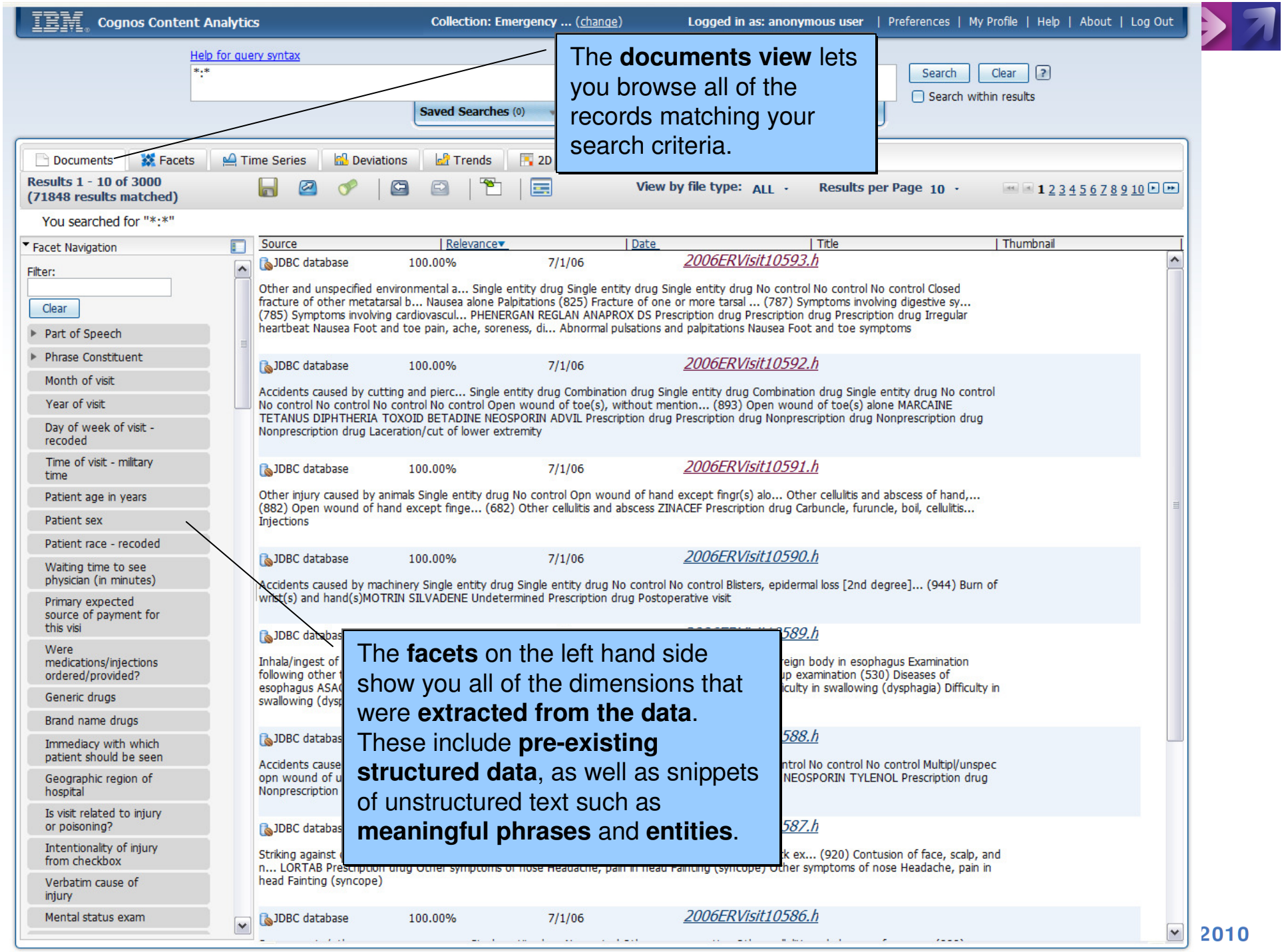
These internal **documents from across the enterprise** can be gathered and exported for **archiving into a centralized IBM ECM repository.**

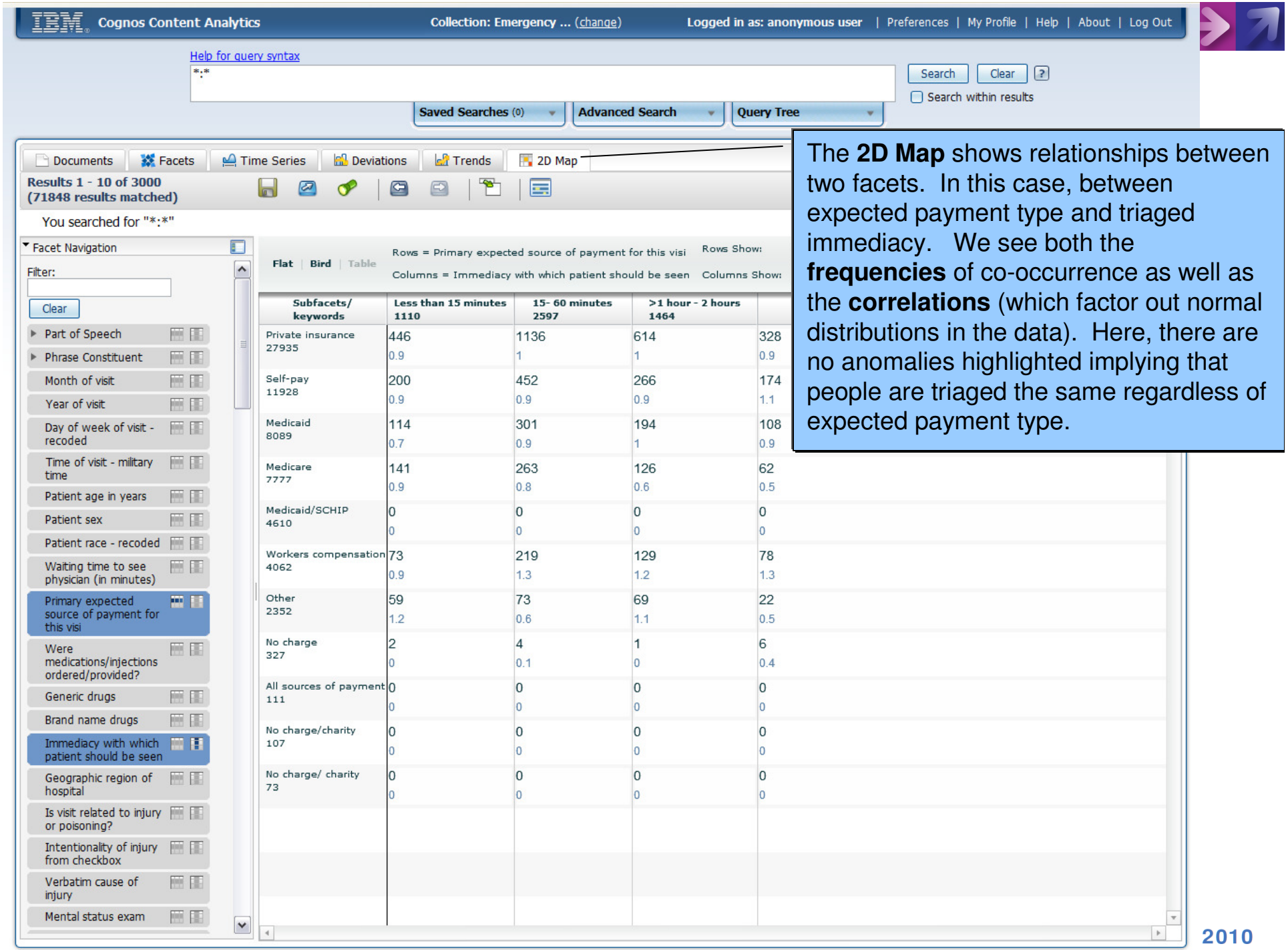
Demo: Content Analytics Exposing New Insight

Discovering Unexpected Correlations in
ER medical records data

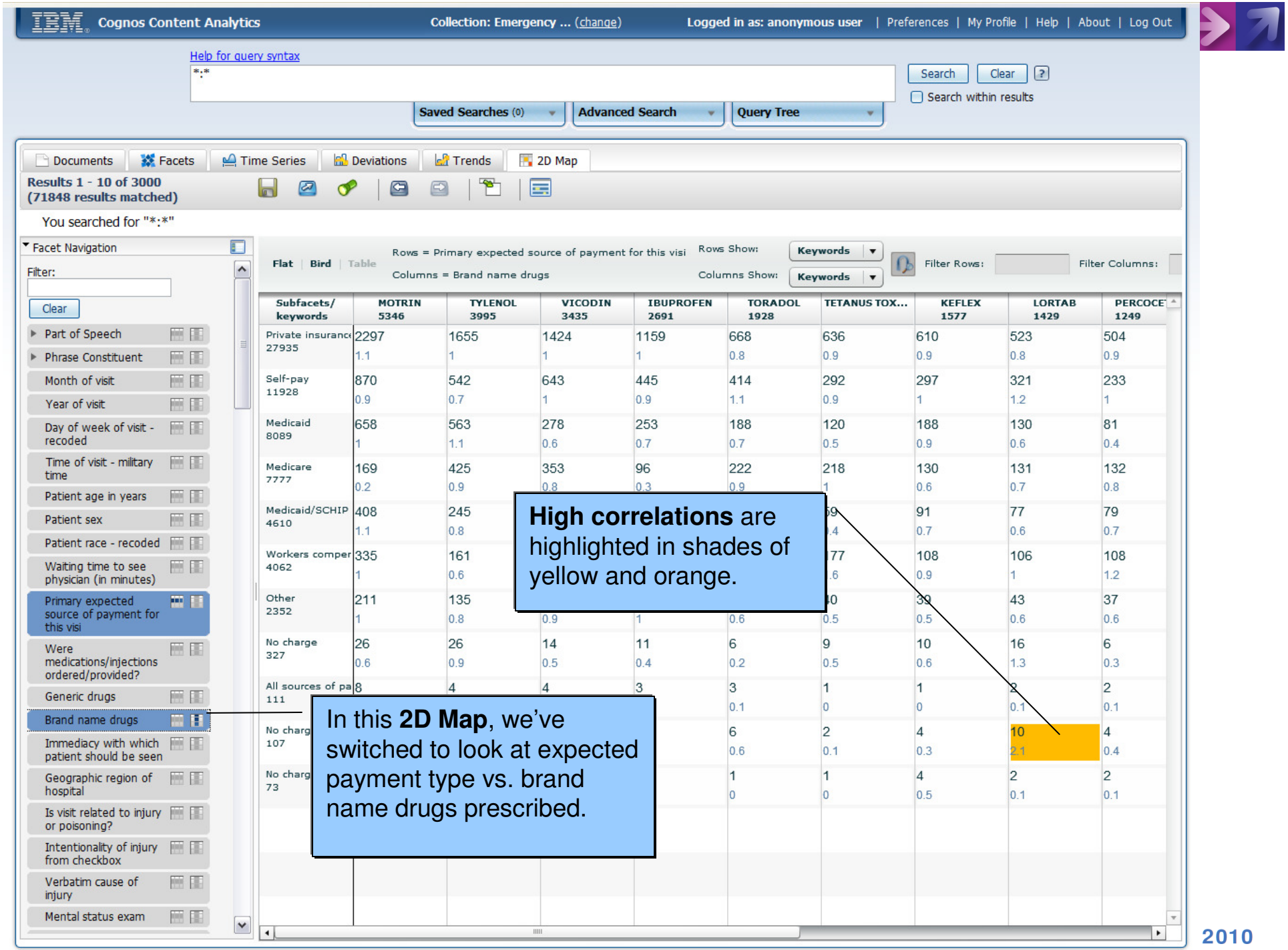
Skip

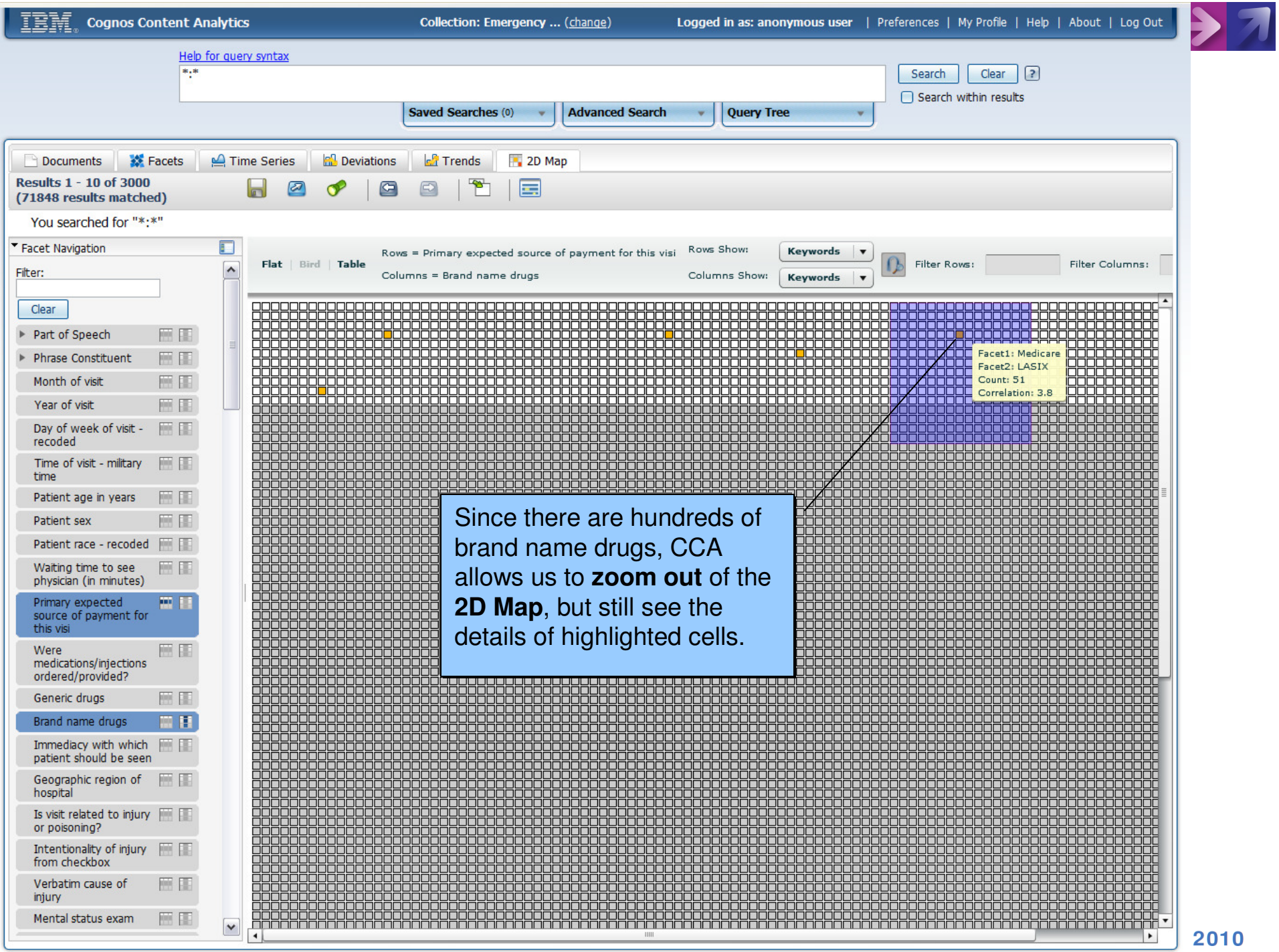

IBM Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
Search
Clear
Hospital Emergency Room Survey: Visit 2006-10593 - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://colfax4.charlotte.ibm.com:8393/analytics/NHAMCS%2F2006%2F2006ERVisit10593.html
Form Approved: OMB No. 0920-0278
FORM: NHAMCS-100(ED)
U.S. DEPARTMENT OF COMMERCE
Economics and Statistics Administration
U.S. CENSUS BUREAU
NATIONAL HOSPITAL AMBULATORY MEDICAL CARE SURVEY
2009 EMERGENCY DEPARTMENT PATIENT RECORD
Assurance of Confidentiality - All infromation which would permit identification of an individual, a practice, or an establishment will
contractors, and agents only when required and with necessary controls, and will not be disclosed or released to other persons without
accordance with section 909(d) of the Public Health Services Act (42 USC 242m) and the Confidential Information Protection and Statistcal Efficiency Act (PL -107-347)
1. PATIENT INFORMATION
a. Date of visit:
Month Day Year
07 01 2006
b. Wait time: 0016
c. Length of visit: 0211
d. Day of week: Saturday
e. DOA: No
f. Sex: Male
g. Age: 018
h. Reason for visit:
Irregular heartbeat Nausea Foot and toe pain, ache, soreness, di... Abnormal pulsations and palpitations Nausea Foot and toe symptoms
i. Medications:
PHENERGAN REGLAN ANAPROX DS
2. DIAGNOSTIC TESTS PERFORMED
1 None
2 No Urinalysis
3 No Pregnancy Test
4 No HIV Serology
5 Yes EKG
6 No Cariac Monitor
7 Yes Pulse oximetry
8 Blood alcohol concentration
9 Yes CBC
10 Chest X-ray
11 Extremity X-ray
12 Other X-ray
13 No MRI
14 No Ultrasound
15 No CAT scan
16 Other diagnostic imaging
17 Yes Pulse oximetry
18 Blood alcohol concentration
19 Yes CBC
20 Chest X-ray
3. PHYSICIANS DIAGNOSIS
j. Diagnosis:
Closed fracture of other metatarsal b... Nausea alone Palpitations (825) Fracture of one or more tarsal ... (787) Symptoms involving digestive sy... (785) Symptoms involving cardiovascul...
k. Cause of injury (broad):
Other and unspecified environmental a...
l. Cause of injury: (verbatim)
STEPPED ON ROCK INJURED FOOT
m. Controlled substance:
No control No control No control
n. Generic Drugs:
4. MEDICATIONS PRESCRIBED
Done
Over 70,000 emergency room records from the Center for Disease Control were crawled and ingested into CCA. These XML records contain both structured and unstructured data
2010


IBM Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
:
Search
Clear
Search within results
Saved Searches (0)
Documents
Facets
Time Series
Deviations
Trends
2D
Results 1 - 10 of 3000
(71848 results matched)
View by file type: ALL
Results per Page 10
1 2 3 4 5 6 7 8 9 10
You searched for "*:*"
Facet Navigation
Filter:
Clear
Part of Speech
Phrase Constituent
Month of visit
Year of visit
Day of week of visit - recoded
Time of visit - military time
Patient age in years
Patient sex
Patient race - recoded
Waiting time to see physician (in minutes)
Primary expected source of payment for this visi
Were medications/injections ordered/provided?
Generic drugs
Brand name drugs
Immediacy with which patient should be seen
Geographic region of hospital
Is visit related to injury or poisoning?
Intentionality of injury from checkbox
Verbatim cause of injury
Mental status exam
Source
Relevance
Date
Title
Thumbnail
JDBC database 100.00% 7/1/06 2006ERVisit10593.h
Other and unspecified environmental a... Single entity drug Single entity drug Single entity drug No control No control No control Closed fracture of other metatarsal b... Nausea alone Palpitations (825) Fracture of one or more tarsal ... (787) Symptoms involving digestive sy... (785) Symptoms involving cardiovascul... PHENERGAN REGLAN ANAPROX DS Prescription drug Prescription drug Irregular heartbeat Nausea Foot and toe pain, ache, soreness, di... Abnormal pulsations and palpitations Nausea Foot and toe symptoms
JDBC database 100.00% 7/1/06 2006ERVisit10592.h
Accidents caused by cutting and pierc... Single entity drug Combination drug Single entity drug Combination drug Single entity drug No control No control No control No control Open wound of toe(s), without mention... (893) Open wound of toe(s) alone MARCAINE TETANUS DIPHTHERIA TOXOID BETADINE NEOSPORIN ADVIL Prescription drug Prescription drug Nonprescription drug Nonprescription drug Nonprescription drug Laceration/cut of lower extremity
JDBC database 100.00% 7/1/06 2006ERVisit10591.h
Other injury caused by animals Single entity drug No control Opn wound of hand except fingr(s) alo... Other cellulitis and abscess of hand,... (882) Open wound of hand except finge... (682) Other cellulitis and abscess ZINACEF Prescription drug Carbuncle, furuncle, boil, cellulitis... Injections
JDBC database 100.00% 7/1/06 2006ERVisit10590.h
Accidents caused by machinery Single entity drug Single entity drug No control No control Blisters, epidermal loss [2nd degree]... (944) Burn of wrist(s) and hand(s)MOTRIN SILVADENE Undetermined Prescription drug Postoperative visit
JDBC database 100.00% 7/1/06 2006ERVisit10586.h
The documents view lets you browse all of the records matching your search criteria.
The facets on the left hand side show you all of the dimensions that were extracted from the data. These include pre-existing structured data, as well as snippets of unstructured text such as meaningful phrases and entities.



The **2D Map** shows relationships between two facets. In this case, between expected payment type and triaged immediacy. We see both the **frequencies** of co-occurrence as well as the **correlations** (which factor out normal distributions in the data). Here, there are no anomalies highlighted implying that people are triaged the same regardless of expected payment type.


Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
:
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
2D Map
Results 1 - 10 of 3000
(71848 results matched)
You searched for "*:*"
Facet Navigation
Filter:
Clear
Part of Speech
Phrase Constituent
Month of visit
Year of visit
Day of week of visit - recoded
Time of visit - military time
Patient age in years
Patient sex
Patient race - recoded
Waiting time to see physician (in minutes)
Primary expected source of payment for this visi
Were medications/injections ordered/provided?
Generic drugs
Brand name drugs
Immediacy with which patient should be seen
Geographic region of hospital
Is visit related to injury or poisoning?
Intentionality of injury from checkbox
Verbatim cause of injury
Mental status exam
Flat | Bird | Table
Rows = Primary expected source of payment for this visi
Columns = Brand name drugs
Rows Show: Keywords
Columns Show: Keywords
Filter Rows:
Filter Columns:
Subfacets/ keywords
MOTRIN 5346
TYLENOL 3995
VICODIN 3435
IBUPROFEN 2691
TORADOL 1928
TETANUS TOX...
KEFLEX 1577
LORTAB 1429
PERCOCE 1249
Private insuranc 27935
2297 1.1
1655 1
1424 1
1159 1
668 0.8
636 0.9
610 0.9
523 0.8
504 0.9
Self-pay 11928
870 0.9
542 0.7
643 1
445 0.9
414 1.1
292 0.9
297 1
321 1.2
233 1
Medicaid 8089
658 1
563 1.1
278 0.6
253 0.7
188 0.7
120 0.5
188 0.9
130 0.6
81 0.4
Medicare 7777
169 0.2
425 0.9
353 0.8
96 0.3
222 0.9
218 1
130 0.6
131 0.7
132 0.8
Medicaid/SCHIP 4610
408 1.1
245 0.8
91 0.7
77 0.6
79 0.7
Workers comper 4062
335 1
161 0.6
108 0.9
106 1
108 1.2
Other 2352
211 1
135 0.8
0.9
1
0.6
0.5
39 0.5
43 0.6
37 0.6
No charge 327
26 0.6
26 0.9
14 0.5
11 0.4
6 0.2
9 0.5
10 0.6
16 1.3
6 0.3
All sources of pa 111
8
4
4
3
3 0.1
1 0
1 0
2 0.1
2 0.1
No charg 107
6 0.6
2 0.1
4 0.3
10 2.1
4 0.4
No charg 73
1 0
1 0
4 0.5
2 0.1
2 0.1
High correlations are highlighted in shades of yellow and orange.
In this 2D Map, we've switched to look at expected payment type vs. brand name drugs prescribed.


IBM Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
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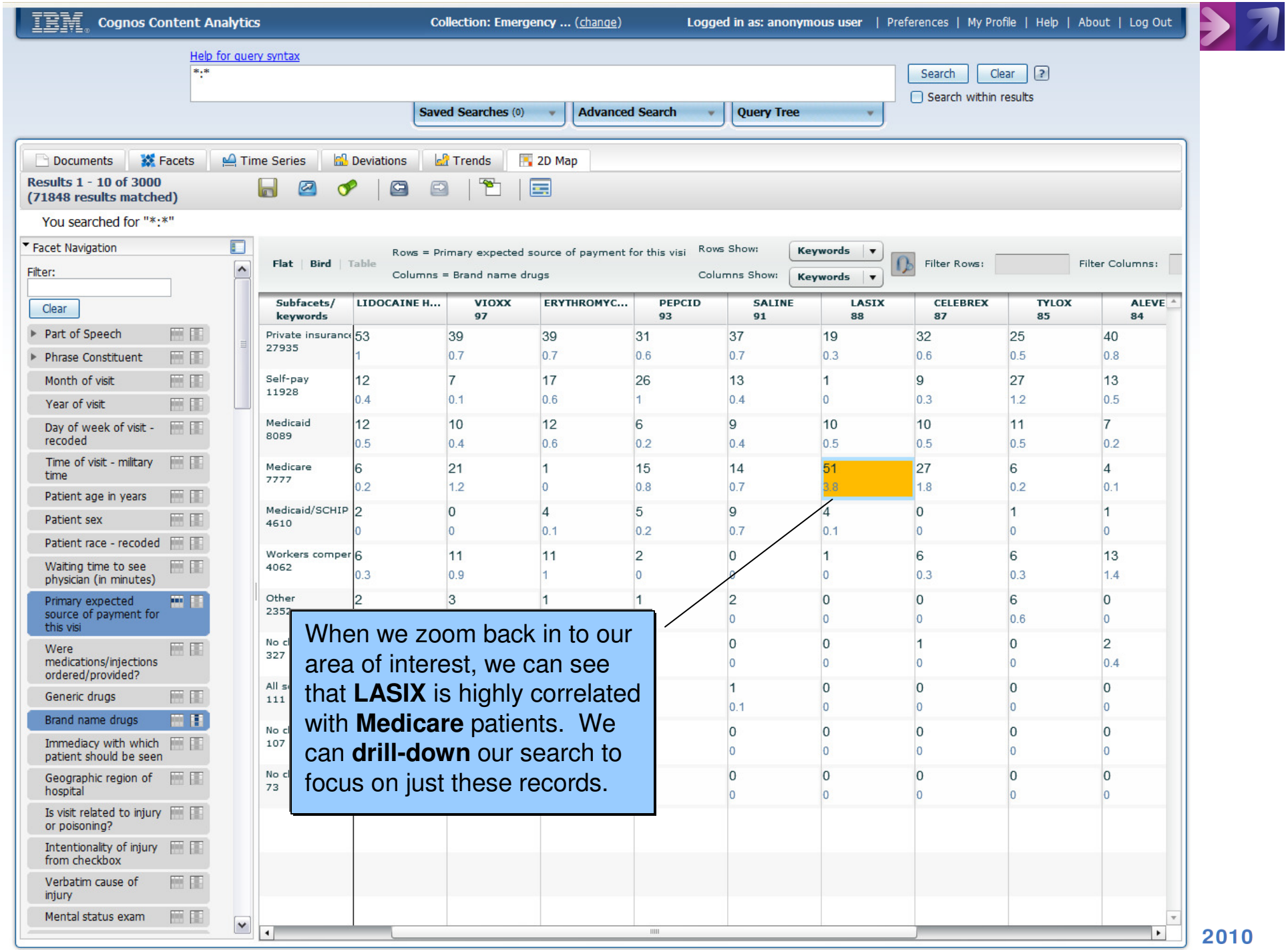
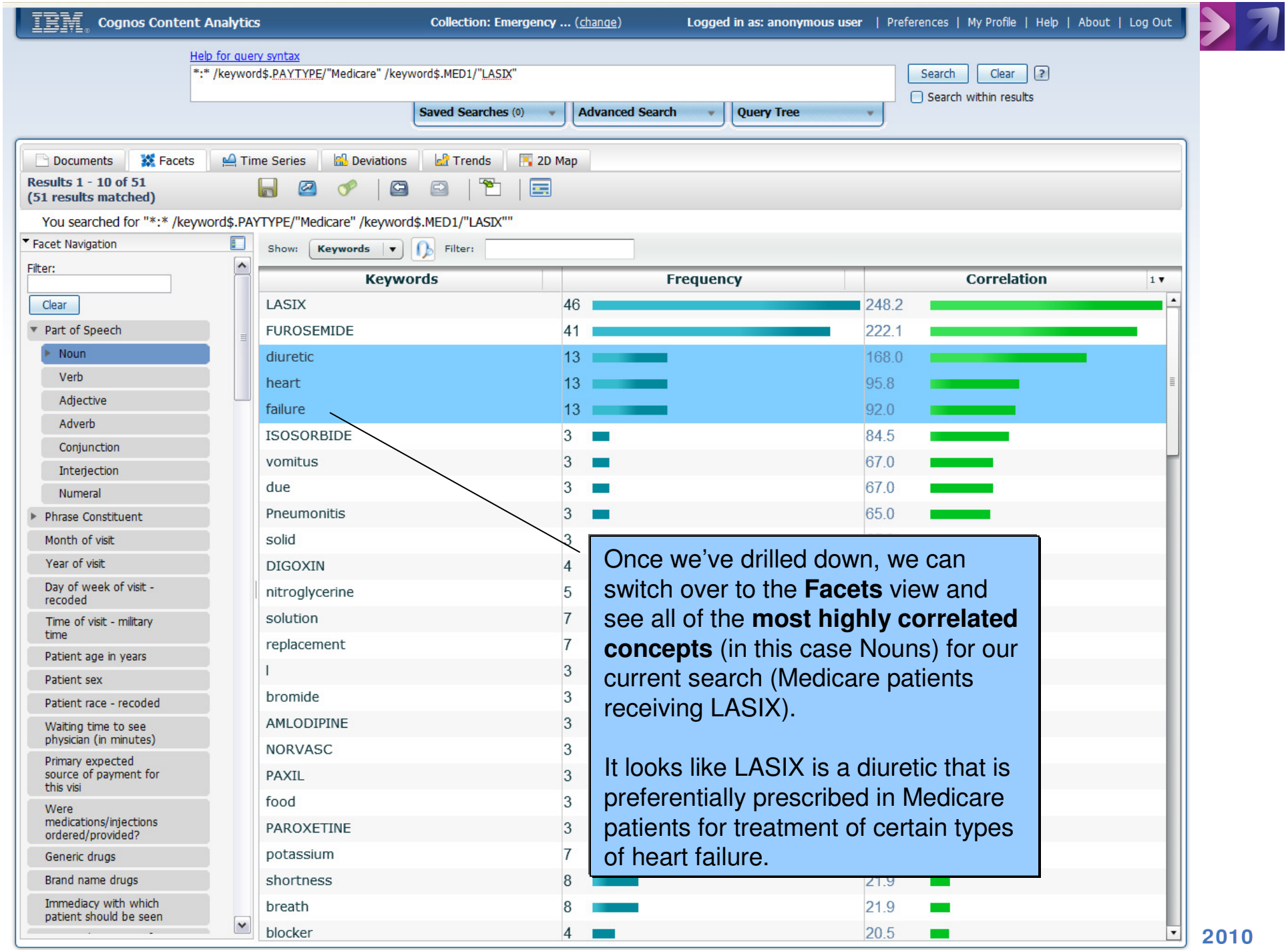
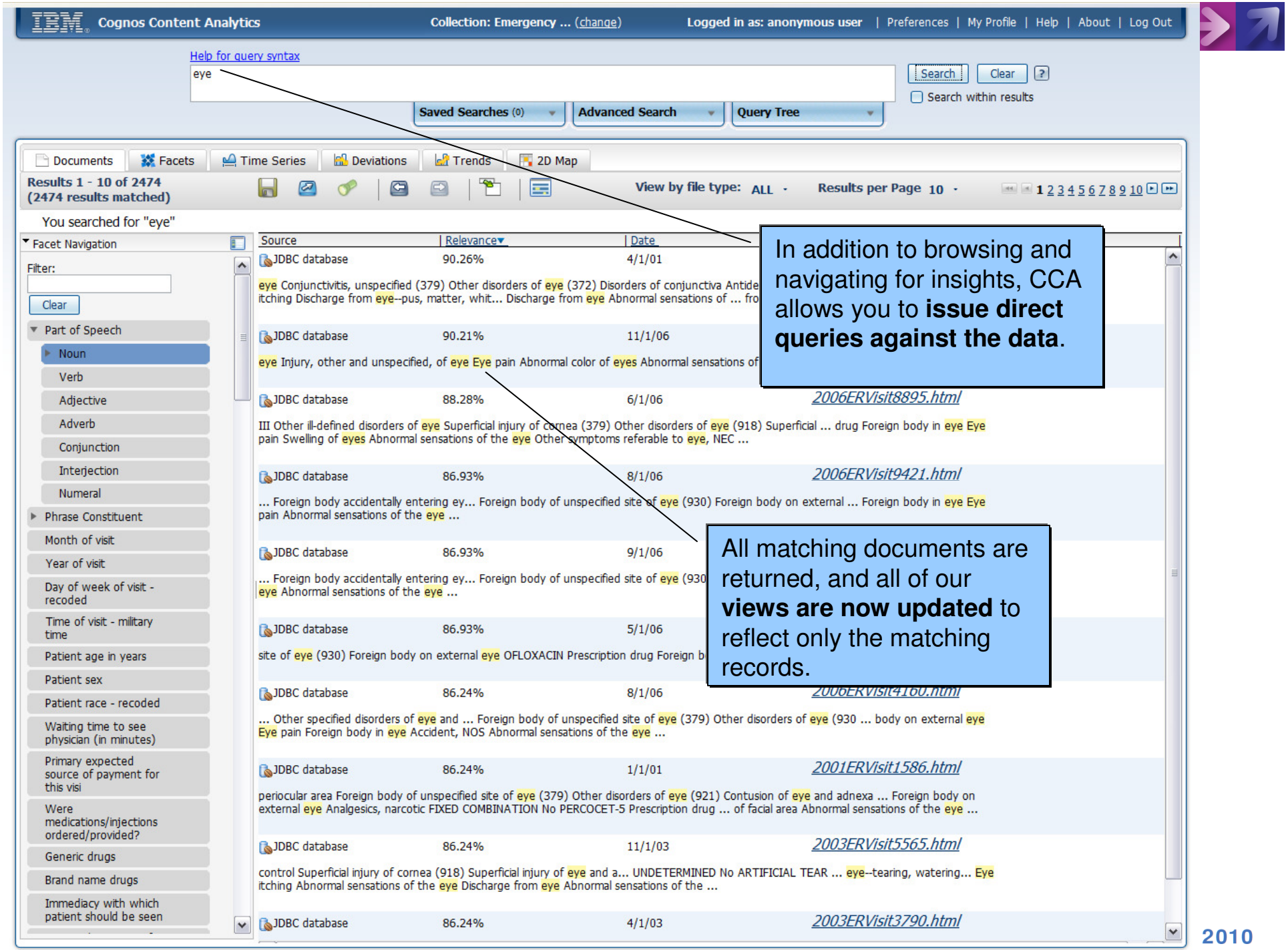
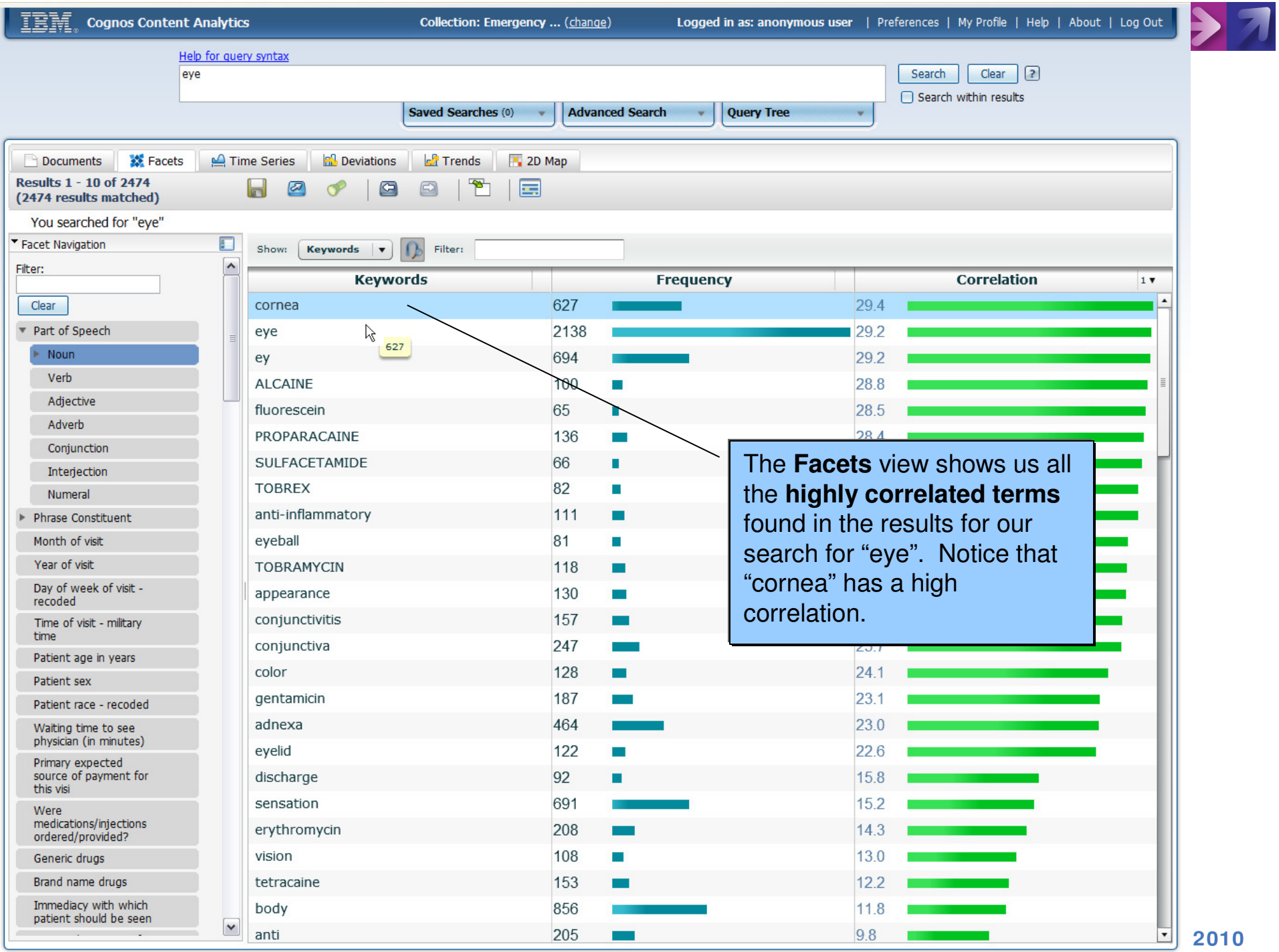
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
2D Map
Results 1 - 10 of 3000
(71848 results matched)
You searched for "*:*"
Facet Navigation
Filter:
Clear
Part of Speech
Phrase Constituent
Month of visit
Year of visit
Day of week of visit - recoded
Time of visit - military time
Patient age in years
Patient sex
Patient race - recoded
Waiting time to see physician (in minutes)
Primary expected source of payment for this visi
Were medications/injections ordered/provided?
Generic drugs
Brand name drugs
Immediacy with which patient should be seen
Geographic region of hospital
Is visit related to injury or poisoning?
Intentionality of injury from checkbox
Verbatim cause of injury
Mental status exam
Flat | Bird | Table
Rows = Primary expected source of payment for this visi
Columns = Brand name drugs
Rows Show:
Keywords
Columns Show:
Keywords
Filter Rows:
Filter Columns:
Facet1: Medicare
Facet2: LASIX
Count: 51
Correlation: 3.8
Since there are hundreds of brand name drugs, CCA allows us to zoom out of the 2D Map, but still see the details of highlighted cells.

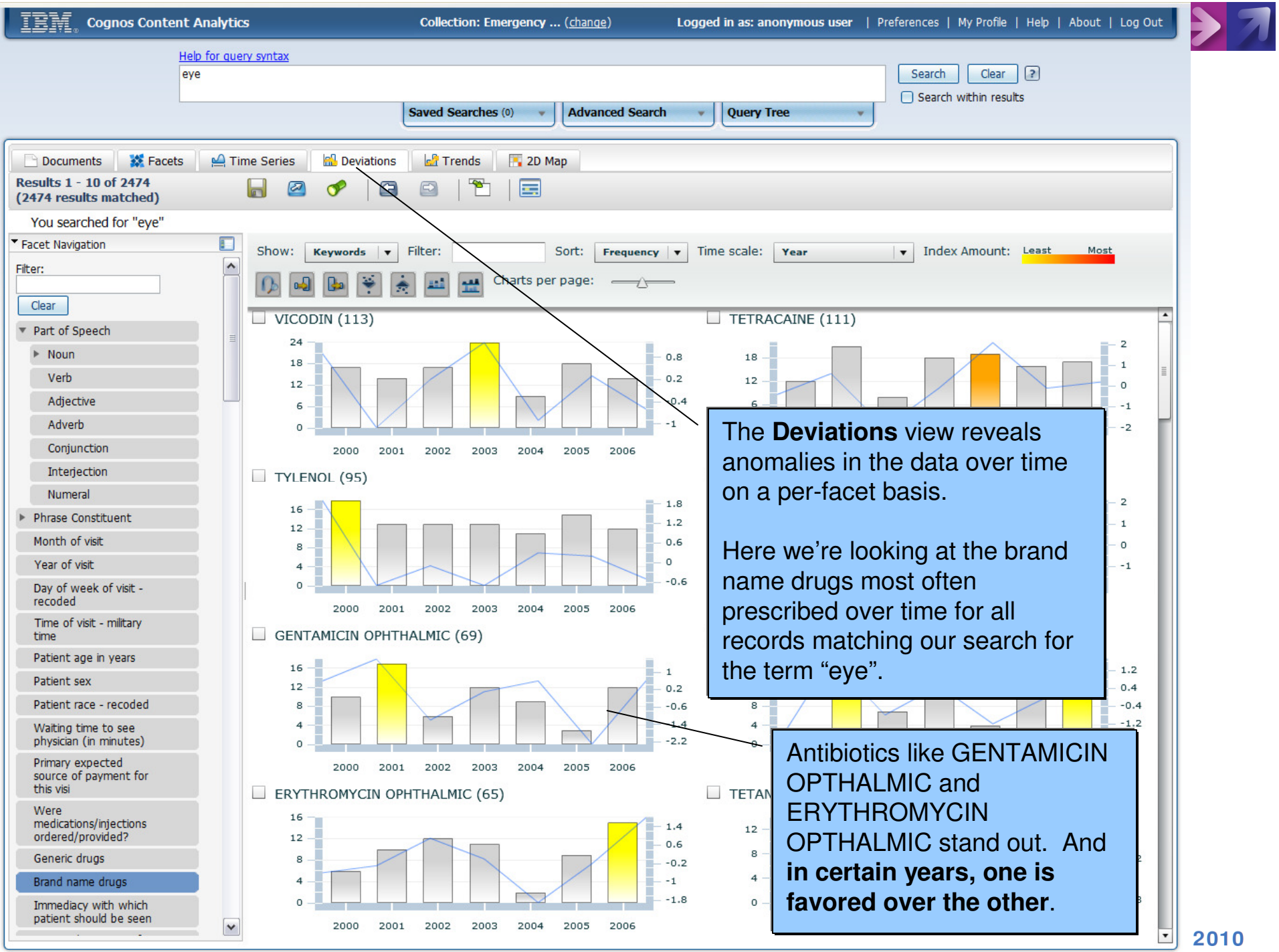

Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
:
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
2D Map
Results 1 - 10 of 3000
(71848 results matched)
You searched for "*:*"
Facet Navigation
Filter:
Clear
Part of Speech
Phrase Constituent
Month of visit
Year of visit
Day of week of visit - recoded
Time of visit - military time
Patient age in years
Patient sex
Patient race - recoded
Waiting time to see physician (in minutes)
Primary expected source of payment for this visi
Were medications/injections ordered/provided?
Generic drugs
Brand name drugs
Immediacy with which patient should be seen
Geographic region of hospital
Is visit related to injury or poisoning?
Intentionality of injury from checkbox
Verbatim cause of injury
Mental status exam
Flat | Bird | Table
Rows = Primary expected source of payment for this visi
Columns = Brand name drugs
Rows Show: Keywords
Columns Show: Keywords
Filter Rows:
Filter Columns:
Subfacets/ keywords
LIDOCAINE H... 97
VIOXX 93
ERYTHROMYC... 91
PEPCID 88
SALINE 87
LASIX 85
CELEBREX 84
TYLOX
ALEVE
Private insuranc 27935
Self-pay 11928
Medicaid 8089
Medicare 7777
Medicaid/SCHIP 4610
Workers comper 4062
Other 2352
No c 327
All s 111
No c 107
No c 73
When we zoom back in to our area of interest, we can see that LASIX is highly correlated with Medicare patients. We can drill-down our search to focus on just these records.

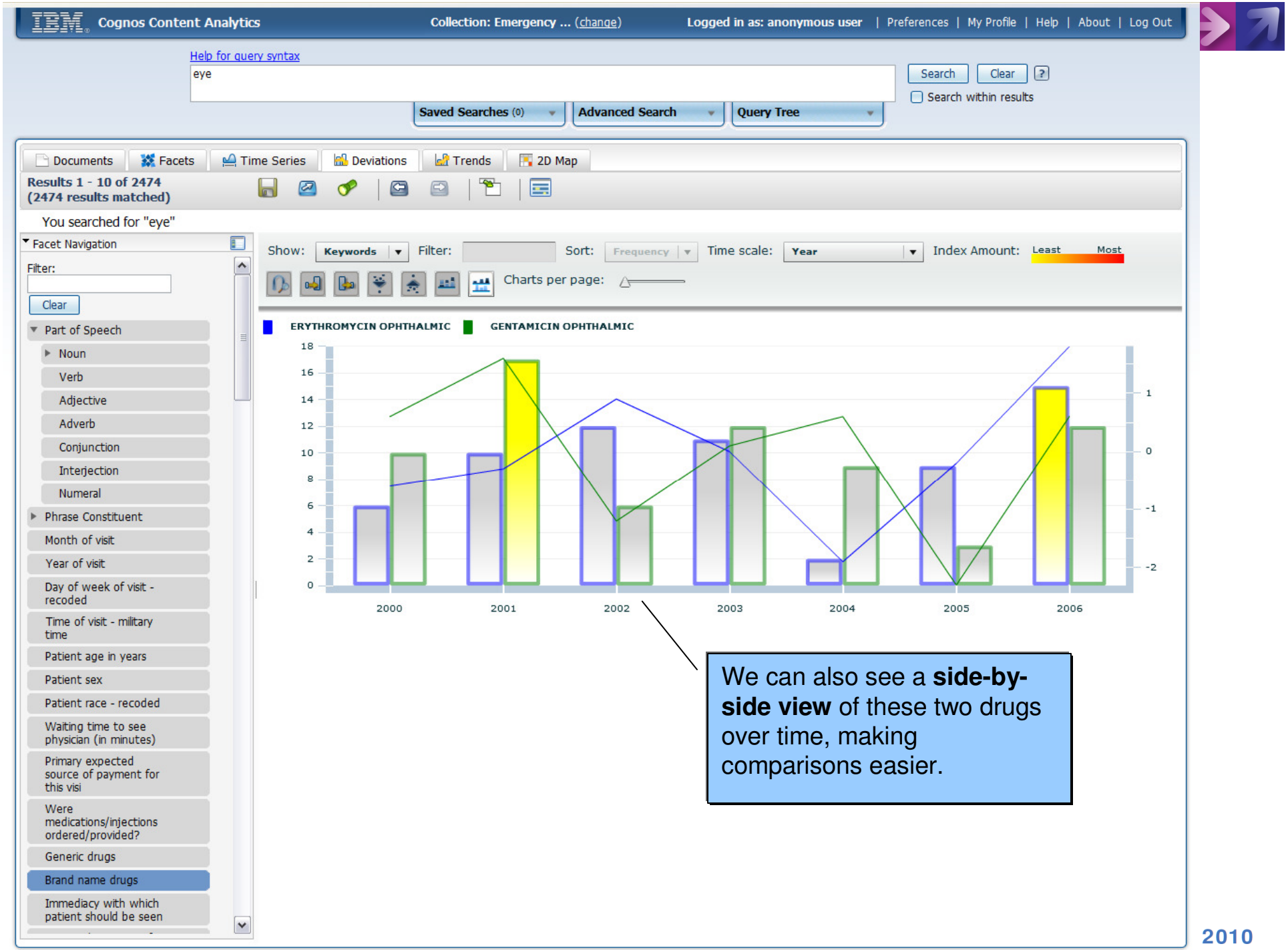
2010


IBM Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
: /keyword$.PAYTYPE/"Medicare" /keyword$.MED1/"LASIX"
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
2D Map
Results 1 - 10 of 51
(51 results matched)
You searched for "*:* /keyword$.PAYTYPE/"Medicare" /keyword$.MED1/"LASIX""
Facet Navigation
Filter:
Clear
Part of Speech
Noun
Verb
Adjective
Adverb
Conjunction
Interjection
Numeral
Phrase Constituent
Month of visit
Year of visit
Day of week of visit - recoded
Time of visit - military time
Patient age in years
Patient sex
Patient race - recoded
Waiting time to see physician (in minutes)
Primary expected source of payment for this visi
Were medications/injections ordered/provided?
Generic drugs
Brand name drugs
Immediacy with which patient should be seen
Show: Keywords
Filter:
Keywords
Frequency
Correlation
LASIX 46 248.2
FUROSEMIDE 41 222.1
diuretic 13 168.0
heart 13 95.8
failure 13 92.0
ISOSORBIDE 3 84.5
vomitus 3 67.0
due 3 67.0
Pneumonitis 3 65.0
solid 3
DIGOXIN 4
nitroglycerine 5
solution 7
replacement 7
l 3
bromide 3
AMLODIPINE 3
NORVASC 3
PAXIL 3
food 3
PAROXETINE 3
potassium 7
shortness 8 21.9
breath 8 21.9
blocker 4 20.5
Once we've drilled down, we can switch over to the Facets view and see all of the most highly correlated concepts (in this case Nouns) for our current search (Medicare patients receiving LASIX).
It looks like LASIX is a diuretic that is preferentially prescribed in Medicare patients for treatment of certain types of heart failure.


Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
eye
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
2D Map
Results 1 - 10 of 2474
(2474 results matched)
View by file type: ALL
Results per Page 10
1 2 3 4 5 6 7 8 9 10
You searched for "eye"
Facet Navigation
Filter:
Clear
Part of Speech
Noun
Verb
Adjective
Adverb
Conjunction
Interjection
Numeral
Phrase Constituent
Month of visit
Year of visit
Day of week of visit - recoded
Time of visit - military time
Patient age in years
Patient sex
Patient race - recoded
Waiting time to see physician (in minutes)
Primary expected source of payment for this visi
Were medications/injections ordered/provided?
Generic drugs
Brand name drugs
Immediacy with which patient should be seen
Source
Relevance
Date
JDBC database 90.26% 4/1/01
eye Conjunctivitis, unspecified (379) Other disorders of eye (372) Disorders of conjunctiva Antide
itching Discharge from eye--pus, matter, whit... Discharge from eye Abnormal sensations of ... fro
JDBC database 90.21% 11/1/06
eye Injury, other and unspecified, of eye Eye pain Abnormal color of eyes Abnormal sensations of
JDBC database 88.28% 6/1/06 2006ERVisit8895.html
III Other ill-defined disorders of eye Superficial injury of cornea (379) Other disorders of eye (918) Superficial ... drug Foreign body in eye Eye
pain Swelling of eyes Abnormal sensations of the eye Other symptoms referable to eye, NEC ...
JDBC database 86.93% 8/1/06 2006ERVisit9421.html
... Foreign body accidentally entering ey... Foreign body of unspecified site of eye (930) Foreign body on external ... Foreign body in eye Eye
pain Abnormal sensations of the eye ...
JDBC database 86.93% 9/1/06
... Foreign body accidentally entering ey... Foreign body of unspecified site of eye (930
eye Abnormal sensations of the eye ...
JDBC database 86.93% 5/1/06
site of eye (930) Foreign body on external eye OFLOXACIN Prescription drug Foreign b
JDBC database 86.24% 8/1/06 2006ERVisit4160.html
... Other specified disorders of eye and ... Foreign body of unspecified site of eye (379) Other disorders of eye (930 ... body on external eye
Eye pain Foreign body in eye Accident, NOS Abnormal sensations of the eye ...
JDBC database 86.24% 1/1/01 2001ERVisit1586.html
periocular area Foreign body of unspecified site of eye (379) Other disorders of eye (921) Contusion of eye and adnexa ... Foreign body on
external eye Analgesics, narcotic FIXED COMBINATION No PERCOCET-5 Prescription drug ... of facial area Abnormal sensations of the eye ...
JDBC database 86.24% 11/1/03 2003ERVisit5565.html
control Superficial injury of cornea (918) Superficial injury of eye and a... UNDETERMINED No ARTIFICIAL TEAR ... eye--tearing, watering... Eye
itching Abnormal sensations of the eye Discharge from eye Abnormal sensations of the ...
JDBC database 86.24% 4/1/03 2003ERVisit3790.html
In addition to browsing and navigating for insights, CCA allows you to issue direct queries against the data.
All matching documents are returned, and all of our views are now updated to reflect only the matching records.


IBM Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
eye
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
2D Map
Results 1 - 10 of 2474
(2474 results matched)
You searched for "eye"
Facet Navigation
Filter:
Clear
Part of Speech
Noun
Verb
Adjective
Adverb
Conjunction
Interjection
Numeral
Phrase Constituent
Month of visit
Year of visit
Day of week of visit - recoded
Time of visit - military time
Patient age in years
Patient sex
Patient race - recoded
Waiting time to see physician (in minutes)
Primary expected source of payment for this visi
Were medications/injections ordered/provided?
Generic drugs
Brand name drugs
Immediacy with which patient should be seen
Show: Keywords
Filter:
Keywords
Frequency
Correlation
cornea 627 29.4
eye 2138 29.2
ey 694 29.2
ALCAINE 100 28.8
fluorescein 65 28.5
PROPARACAINE 136
SULFACETAMIDE 66
TOBREX 82
anti-inflammatory 111
eyeball 81
TOBRAMYCIN 118
appearance 130
conjunctivitis 157
conjunctiva 247
color 128 24.1
gentamicin 187 23.1
adnexa 464 23.0
eyelid 122 22.6
discharge 92 15.8
sensation 691 15.2
erythromycin 208 14.3
vision 108 13.0
tetracaine 153 12.2
body 856 11.8
anti 205 9.8
627
The Facets view shows us all the highly correlated terms found in the results for our search for “eye”. Notice that “cornea” has a high correlation.


IBM Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
eye
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
2D Map
Results 1 - 10 of 2474
(2474 results matched)
You searched for "eye"
Facet Navigation
Filter:
Clear
Part of Speech
Noun
Verb
Adjective
Adverb
Conjunction
Interjection
Numeral
Phrase Constituent
Month of visit
Year of visit
Day of week of visit - recoded
Time of visit - military time
Patient age in years
Patient sex
Patient race - recoded
Waiting time to see physician (in minutes)
Primary expected source of payment for this visi
Were medications/injections ordered/provided?
Generic drugs
Brand name drugs
Immediacy with which patient should be seen
Show: Keywords
Filter:
Sort: Frequency
Time scale: Year
Index Amount: Least Most
Charts per page:
VICODIN (113)
TETRACAINE (111)
TYLENOL (95)
GENTAMICIN OPHTHALMIC (69)
ERYTHROMYCIN OPHTHALMIC (65)
2000 2001 2002 2003 2004 2005 2006
The Deviations view reveals anomalies in the data over time on a per-facet basis.
Here we're looking at the brand name drugs most often prescribed over time for all records matching our search for the term "eye".
Antibiotics like GENTAMICIN OPTHALMIC and ERYTHROMYCIN OPTHALMIC stand out. And in certain years, one is favored over the other.


IBM Cognos Content Analytics
Collection: Emergency ... (change)
Logged in as: anonymous user | Preferences | My Profile | Help | About | Log Out
Help for query syntax
eye
Search
Clear
Search within results
Saved Searches (0)
Advanced Search
Query Tree
Documents
Facets
Time Series
Deviations
Trends
2D Map
Results 1 - 10 of 2474
(2474 results matched)
You searched for "eye"
Facet Navigation
Filter:
Clear
Part of Speech
Noun
Verb
Adjective
Adverb
Conjunction
Interjection
Numeral
Phrase Constituent
Month of visit
Year of visit
Day of week of visit - recoded
Time of visit - military time
Patient age in years
Patient sex
Patient race - recoded
Waiting time to see physician (in minutes)
Primary expected source of payment for this visi
Were medications/injections ordered/provided?
Generic drugs
Brand name drugs
Immediacy with which patient should be seen
Show: Keywords
Filter:
Sort: Frequency
Time scale: Year
Index Amount: Least Most
Charts per page:
ERYTHROMYCIN OPHTHALMIC
GENTAMICIN OPHTHALMIC
18
16
14
12
10
8
6
4
2
0
1
0
-1
-2
2000
2001
2002
2003
2004
2005
2006
We can also see a side-by-side view of these two drugs over time, making comparisons easier.