

Live, Interactive and Actionable Data Visualisations

Jon Carter

What is **encapsia**?

*New Generation Clinical **Data Suite***

encapsia is Cmed's new clinical data suite, which allows you to collect, query, clean, visualize and analyse clinical data in real time, using one system and a single representation of the data. Capture data using mobile eSource or web EDC, including multimedia data to support remote monitoring and novel study endpoints. Powerful, configurable visualizations give you the tools to identify and analyse issues and trends. Define multiple levels of review, with issue tracking and management built in to the system.

What is **encapsia**?



eSource



Entry



Loader



Review



Conduct



Coding



Insights



Analytics



Tags



Chat



Config



Manager



Archiver

The data in **encapsia**

Clinical Data

- 3 types of data. Sponsor, Site-Only, Private.
- All data stored in one tall thin table.
- Real-time mapped wide tables.
 - By domain
 - By choice
- Adheres to blinding restrictions.
- Access available over REST API.

Meta Data

- Full audit trail available.
- Access to all data about the data. For example, queries, tags, user activities etc
- Enables new types of visualisations, for example identifying fraud from geographic location.
- Access available over REST API

Data Visualizations

*encapsia's data visualization tool is known as **Insights***

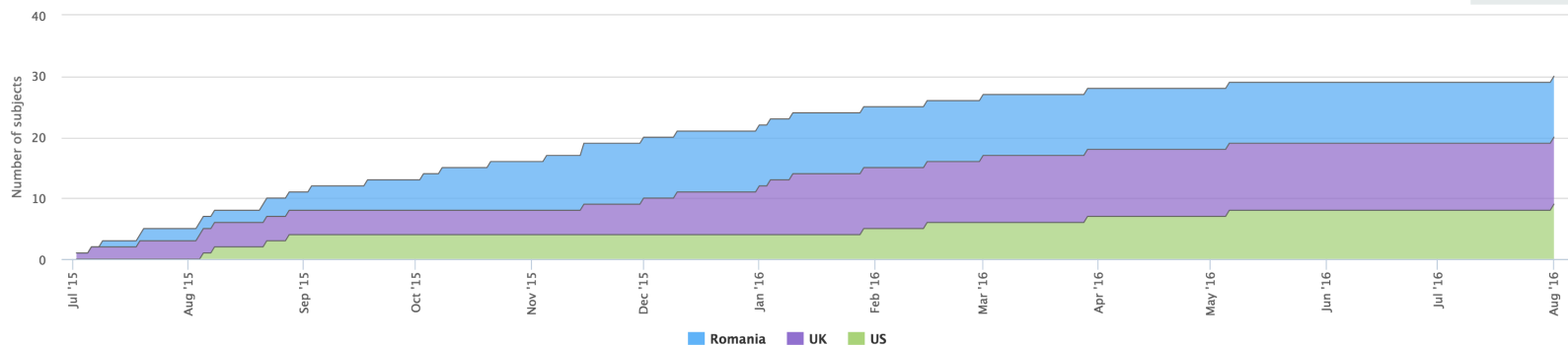
- Real-time reporting.
 - Even more powerful on studies using eSource where data is in the system instantaneously.
- Highly customizable visualizations.
- Actionable visualizations.
 - Drill to data within other web apps.
 - Raise a tag/query directly from an outlier.
- Adheres to user's access levels, including blinding.
- Tools to the data, **NOT** data to the tools.

INSIGHTS

+ Add Insight

Jon Carter
Trial: Encapsia Demo

Enrollment Over Time



Highcharts.com

Sparklines

Results for Sitting systolic blood pressure:

Search:

Subject	Baseline value	Post-baseline values	Post-baseline mean	Change from baseline	Mean change from baseline	Comparison to baseline
0001_01001	97.0		102.00		5.00	
0001_01002	113.0		124.67		11.67	
0001_01003	111.0		106.20		-4.80	
0002_02001	128.0		114.83		-13.17	
0004_04001	116.0		112.00		-4.00	
0004_04002	109.0		104.67		-4.33	

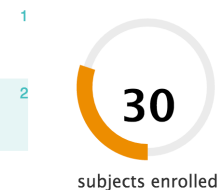
Cmed encapsia | 2016 © Cmed Group Ltd

League Table - Dat...

Dorris Lotus
51 data points entered

You
39 data points entered

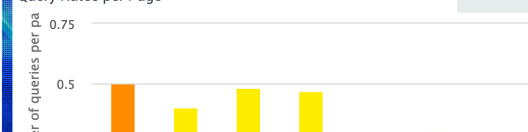
Gauge - Subject Enrollm...



Gauge - Randomised vs...



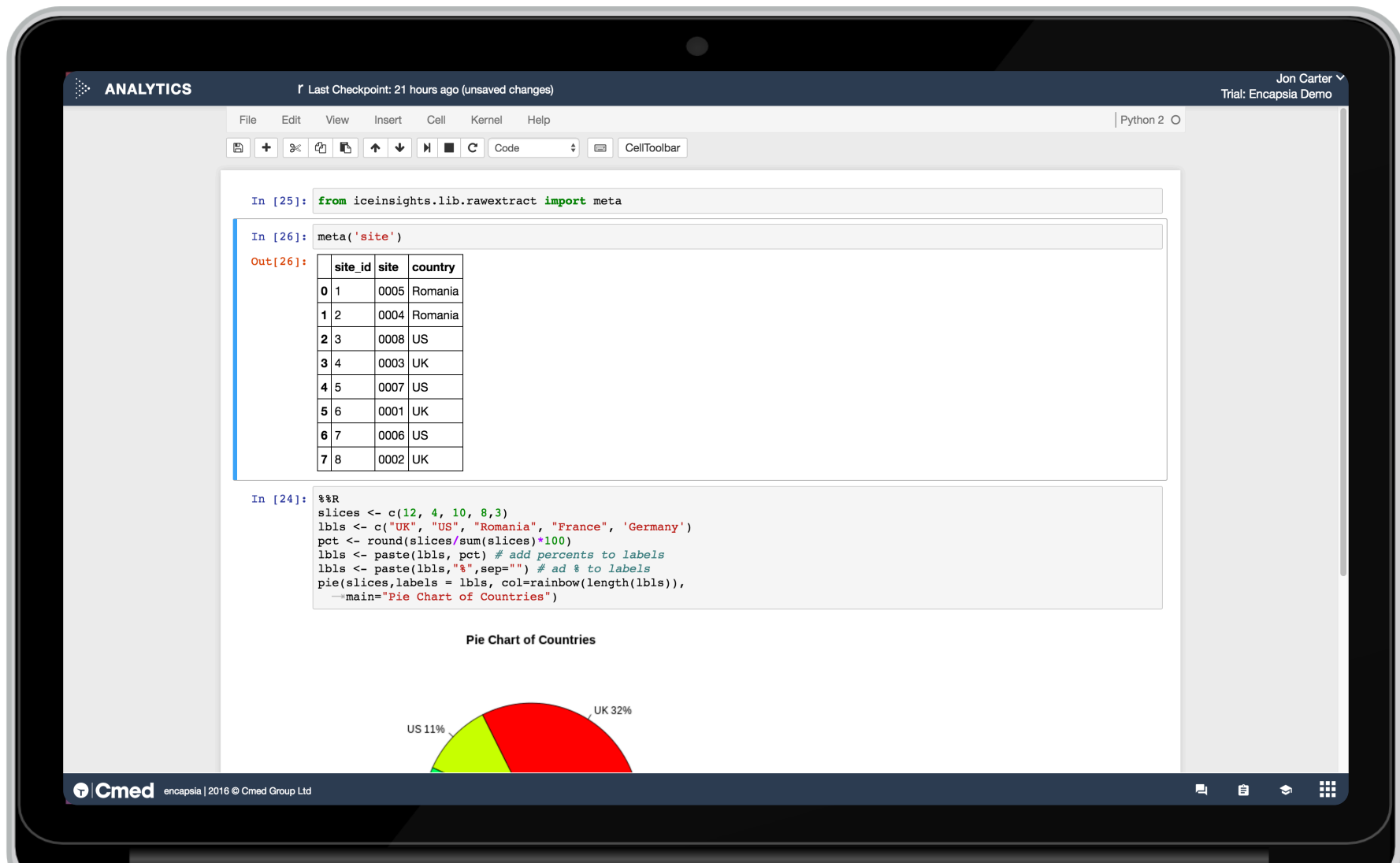
Query Rates per Page



Data **Analytics**

encapsia uses *Jupyter Notebooks* for its data science environment

- Create and share documents containing live code.
- Execute code to see the results.
- Start on one computer, finish on another.
- Use of over 40 languages, including R and Python.
- Create and deploy Insights.
- Interrogate live data.
- Enforces data restrictions based upon a user's role to ensure blinding is maintained.



The *Demonstration*

A short tour through data visualisations
and analytics with encapsia.



inspiring **progress**

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