

What is Clinical Data Science?

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SCDM Live
annual conference

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SCDM Publication
Thought Leadership

SCDM 2022
Annual Conference
San Antonio, Texas
September 11-14, 2022



Our CDS Journey

Why?

What?

How?

Birth of Clinical Data Science
SCDM New Vision



Evolution Drivers
(June-2019)



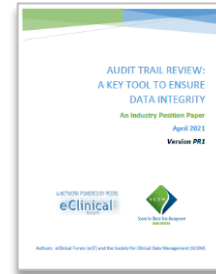
Technology Enablers
(March-2020)



DCT Topic Brief
(April 2020)



Role Evolution
(August-2020)



Audit Trail Review
(April 2021)

The 5Vs of Clinical Data

The evolution of Clinical Data Review

The Automation of CDM Driven Activities

Risk-Based CDM

The CDM Role Evolution

5 Topic Briefs
(April to Aug 2022)



How to create a CDS Organization
(Sep 2022)

CDS Certification Program

Action

GCDS Chapters

2019 **Reflection**

2020

2021

2022

Position 2023

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CDS Portal
(April 2020)

<https://scdm.org/clinical-data-science>

How to create a CDS Organization

SCDM Session of Interest Change Management from CDM to CDS


Tuesday 2:00 to 3:15

The Evolution of Clinical Data Management into Clinical Data Science

An SCDM Position Paper on *how to create a Clinical Data Science Organization*

"Your path toward Clinical Data Science"

12 SEP 2022



Society for Clinical Data Management
DATA DRIVEN

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Our Vision
"Leading innovative clinical data science to advance global health research and development"

Our Mission
"Connect and inspire professionals managing global health data with global education, certification and advocacy"

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What is Clinical Data Science?

Not to be confused with the general discipline of Data Science

Is an evolution of Clinical Data Management





What is Clinical Data Science?

Clinical Data Management is responsible for the life cycle of clinical data from collection to their delivery for statistical analysis in support of regulatory activities. Clinical Data Management is primarily focusing on dataflows and **data integrity** (i.e., data is managed the right way).

Clinical Data Science broadens this focus by adding the data risk, data meaning and value dimensions for achieving **data quality** (i.e., data is credible and reliable).

Clinical Data Science also expands the scope of Clinical Data Management beyond the study construct by requiring the ability to generate knowledge and insights from clinical data to support other clinical research activities which requires different expertise, approaches, and technologies.



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What is Clinical Data Science?

Strategic discipline enabling the execution of **complex protocol designs in a patient centric, data driven and risk-based framework** ensuring subject protection as well as “**the reliability and credibility of trial results**”.



2022 CDS Topic Briefs?



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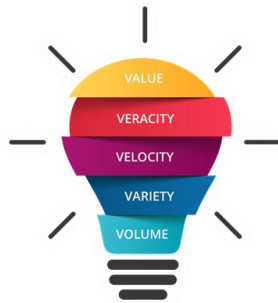
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The 5Vs of Clinical Data

March



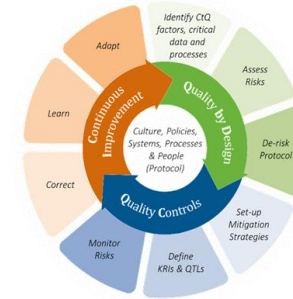
The evolution of Clinical Data Review

April



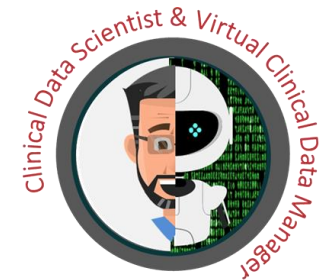
The Automation of CDM Driven Activities

June



Risk-Based CDM

July



The CDM Role Evolution

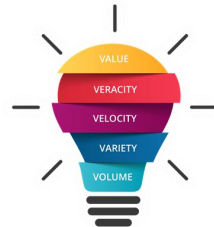
August

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https://scdm.org/clinical-data-science/#registration_topicbriefs



Internal use



The 5Vs of Clinical Data



The Automation of CDM Driven Activities

Q & A



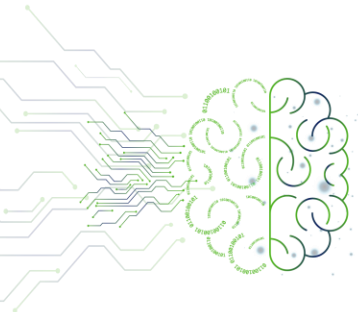
The evolution of Clinical Data Review



Risk-Based CDM



The CDM Role Evolution



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