

Soazig Chevalier, Sanofi RBM-PM





DMB Conference - Paris 14th November 2017



Agenda



- RBM: General context
- Centralized Monitoring and Monitoring at Sanofi
 - What?
 - How?
 - Who?
- Conclusion





Why RBM?



TRADITIONAL
APPROACH
On-Site Monitoring

100% SDV performed at regular intervals regardless of site performance

More Patients

More Complex CRF

More Sites

Time consuming

High costs

Data quality not guaranteed

MHRA
EMA
FDA
ICH
TransCelerate

ICH CH harmonisation for better health
E6-R2 GCP Guideline

"Quality Risk Management principles and methodologies in clinical development"

HEALTH AUTHORITIES TRANSITION TO RBM

recommends a quality risk-based approach inclusive of RBM





Why RBM?





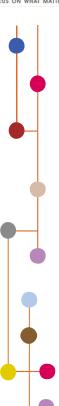


Why RBM?





Agenda



RBM: General context

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Monitoring and Centralized Monitoring



... before RBM implementation :

Study Risk Management Plan (SRMP)

- Critical data/critical processes
- Risks categorization
- Risk assessment

Centralized Monitoring

- Medical review
- Safety review
- Data Review
- Data Surveillance (incl.) statistical tests for Scientific Miscondunct Detection)

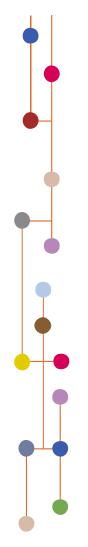


- > Focused and Random Source Data Verification (SDV)
- Source Documentation QC
- Regular Monitoring Visits





RBM – Key Components



3 KEY COMPONENTS TO

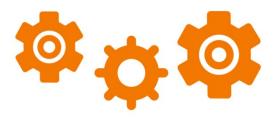
RISK BASED MONITORING

An effective RBM approach boils down to three things:



PROCESS

Clear process to execute steps defined in monitoring & data management plan.



Proactive quality approach

HOW



TOOLS

Effective tools to optimize performance, distill data quickly and bring the focus to key risks and takeaways.







Dedicated tools to identify and anticipate any potential risk or issue

WHAT



PEOPLE

Right mix of people to help plan the right approach.



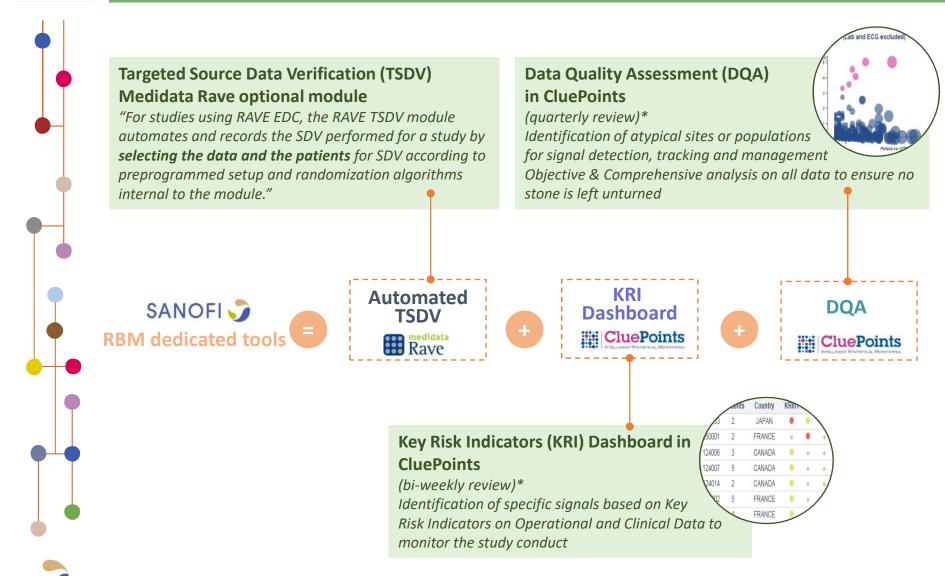
Highly Integrated
Clinical Team Effort

WHO



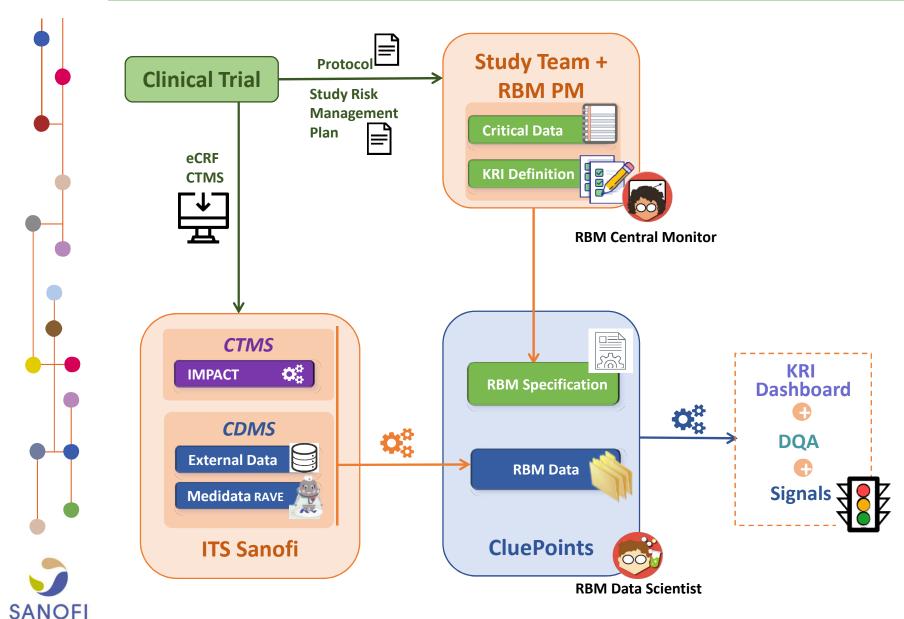


RBM – Dedicated tools





RBM - New processes from Protocol to signals





RBM - New monitoring processes



KRI Dashboard
Every 2 weeks



DQA *Every 2-3 months*



Data Review
Data Surveillance
~ Every 3 months



RBM Central Monitor and Study Team High level review (focus on KRI definition and potential actions from global team)

Review of Signal, identification and followup of required actions

in addition to data review and data surveillance processes

Review of Signal, identification and followup of required actions



Local Team + support of RBM Central Monitor **Every 2 weeks review**

Optimization of monitoring activities (SDV/SDR and monitoring visits)

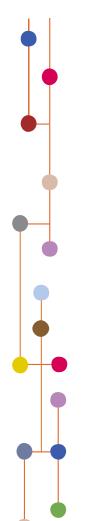
Local Team – except specific actions required by the global team to the CRAs

Specific Corrective actions if required by the global team to the site monitors





RBM - Main Responsibilities









Global study team

Local study team

Site Staff

Global Study Manager, Data Manager, Statistician, Study Medical Manager,

RBM Central monitor

Site Monitor (CRA), Local Study Manager, Regional Study Manager,

RBM Central monitor

Primary investigator, Investigator, Nurse, Pharmacist

- Defines critical data and study priorities
- Evaluates and mitigates risks at global level
- Provides oversight via data analysis
- Identifies trends

- Adjusts type & frequency of site engagements based on RBM inputs
- Focuses interactions with site on areas of need

- Accountable for site quality
- Enters data into eCRF in near real time
- Comprehends RBM methodology to ensure subject safety and data integrity

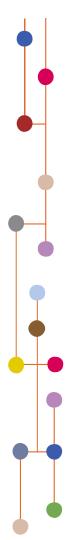


Sponsor

Institution



RBM Data Scientist



RBM DATA SCIENTIST

'DATA MODELLER & SCIENCE'

Role

Set-up the KRI & DQA and the Central Statistical Monitoring solution, run data analysis in order to identify atypical sites and improve data quality

Mindset

Logical and enthusiastic stats genius, appetite for data analysis Lab and ECG excluded

Mission

Program RBM solution and review of DQA for signal detection

Tool box

CluePoints (KRI & DQA)

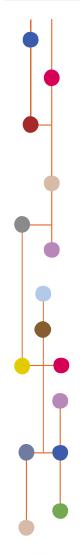
Skills and Talents

- ✓ Statistical methodology
- ✓ Data mining
- ✓ Communication & visualization
- ✓ SAS, SQL





RBM Central Monitor



SANOFI

RBM CENTRAL MONITOR

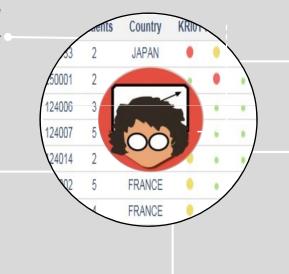
'DATA DETECTIVE'

Role

Analyze and interpret clinical and operational data; identify specific signals based on Key Risk Indicators

Mindset

Intuitive and data lover, curious data wizard



Tool box

CluePoints (KRI & DQA)

Skills and Talents

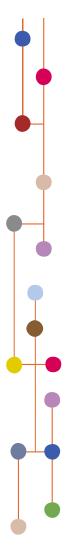
- ✓ Database systems
- ✓ Leadership and project management
- ✓ Interpersonal Communication

Mission

Create Site specific Signals and manage Global Signals – Provide interpretation, guidance and support



RBM Site Monitor



Role

Mitigate signals, determine the root cause of alerts, identify & implement appropriate action plan, follow-up & communicate the corrective actions

Mindset

Problem solver, devoted in improving the quality of his data base, closely supporting sites

RBM SITE MONITOR

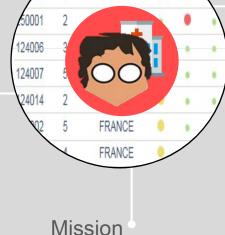
'PROBLEM SOLVER'

Tools

CluePoints (KRI), CTMS, CDMS

Skills and Talents

- ✓ Scientific, Clinical, & Regulatory knowledge
- ✓ Critical Thinking & Decision Making
- ✓ Technical Skills-Systems/Data/Analytic
- ✓ Interpersonal Communication skills

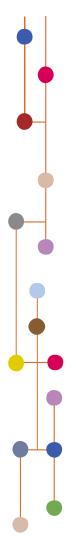


Adapt his monitoring activities based on signals detected





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RBM Integrated Approach



3 KEY COMPONENTS TO

RISK BASED

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Clear process to execute steps defined in monitoring & data management plan.



Proactive quality approach



TOOLS

Effective tools to optimize performance, distill data quickly and bring the focus to key risks and takeaways.









PEOPLE

Right mix of people to help plan the right approach.



Dedicated tools to identify and anticipate any potential risk or issue

Highly Integrated Clinical Team Effort



New processes at global and local levels: based on the critical data/processes and study risk level with risk management by both local and global teams

- KRI Dashboard
- DQA
- TSDV module in Rave

A new team in China with 2 new roles:

- RBM Data Scientist
- RBM central **Monitor**





Monitoring and Centralized Monitoring



New components:

Study Risk Management Plan (SRMP)

- Critical data/critical processes
- Risks categorization
- Risk assessment

Centralized Monitoring

- Medical review
- Safety review
- Data Review
- Data Surveillance
- > DQA



- Targeted Source Data Verification (tSDV)
- Source Data Review (SDR)
- > KRI dashboard
- Low Monitoring Visit frequency



Risk based Study Activities



