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9th EBF YSS

Reconciliation: the unsuspected challenge for clinical trials

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Role of a Biosample Operations Specialist





Role of a Biosample Operations Specialist





Reconciliation – Ideally



"Sample reconciliation is a process which compares the sampling information of blood or tissue samples entered into the eCRF against the physical sample identification data from the sample Vendor/analytical lab to ensure that both databases match; it is following the sample from site collection to laboratory receipt"

Reconciliation – Ideally



"Sample reconciliation is a process which compares the sampling information of blood or tissue samples entered into the eCRF against the physical sample identification data from the sample Vendor/analytical lab to ensure that both databases match; it is following the sample from site collection to laboratory receipt"



Reconciliation – What could go wrong?





- The clinical site collect the sample and send them for analysis The results are transfer to the sponsor and analysed Analysis and interpretation 4
- As long as the «issue» or query is open, the samples impacted remain in storage and cannot be shipped for analysis in the corresponding lab
- It can take **up to 2 months** to resolve -> study milestones!

Reconciliation – How is it done?





Reconciliation – How is it done?





Reconciliation – How to mitigate the queries



• At study set up:

- o Make sure the collection of the sample is clear, understandable and correct
- o Engage with the clinical sites and train them
- o Question the feasibility of the sampling and gather any concerns

Once the study started:

- o Partner with the study management team and the central lab!
- o Provide proactively support and guidance to them
- Engage with the clinical sites 1:1 and help them to address:
 - Questions
 - Miscommunications
- o Request guidance form the science team
 - Sample prioritization?
 - Timelines to resolve the queries

Reconciliation – some real life examples





- Cytokines were also targeted
- Histology focus as well

Reconciliation – some real life examples





Count of Obs (query ID)	Column Labels 🔽	·															
	■ 2021		■2022										■ 2023				Grand Total
	■ Qtr2	■ Qtr4	∎Qtr1	■ Qtr2			■ Qtr3			■ Qtr4			■ Qtr1			■Qtr2	
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Missing eCRF data		9			40	9	47	7	20	4	21	11	13	78	210	171	640
Missing sample		1	7	7	11	3	1		4	11	9	2	58	106	60	46	326
Collection date/time inconsistent				5	1		1		5	2	3	22	23	17	44	38	161
Erroneous Patient No.									1					1	40	14	56
Unexpected condition															1	35	36
Erroneous Sample											1			3	28	3	35
Missing tissue eCRF data					1		1							5	21		28
Missing tissue sample	2										4	1	1	8	1		17
Consent Issue			2												2		4
Time window			1				1				1						3
Grand Total	2	10	10	12	53	12	51	7	30	17	39	36	95	218	407	307	1306

Serum ADA Whole Blood A721 Flow Tissue Sampling PD PBMCs Residual Blood cell Pellet Bone Marrow Flow BMA MRDBLOOD SMEAR PD PBMCs 1 ctDNA BMA PLASMA 1 BMA BMMCs PELLET BMA BMMCs CELLS 3 PD PBMCs 2 SM CD138+ ENRICHED CELLS
 BMA BMMCs CELLS 2 BMA BMMCs CELLS 1 PD PBMCs 3
Serum TCZ PK
RBR (RNA 2)
RBR (RNA) 1 Serum IL-6 PD markers 1

Next steps to improve the query resolution



A lot of frustration in the way the queries are managed currently:

- o Excel based:
 - heavy complex files
 - challenging to deal with
- o Tracking of the queries is not on point
- Query shared with the teams in a redundant way:
 - the same query can be flagged several times
 - the query can be reported through reports, CRA, eCRF and central lab systems

On top of working on streamlining the protocol, train the sites and improve communication ...

... new approach needed ...

Next steps to improve the query resolution



... we are getting rid of excel and using case management system instead where the queries will be handled and all interactions will have an audit trail = improve the communication and oversight between the most important actors and improve the query resolution timelines

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Doing now what patients need next