# Fraud and misconduct in clinical studies



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Fraud and misconduct in clinical studies can be challenging to detect! What tools and techniques could you use on-site and off-site to identify potential fraud and misconduct. What could lead you to suspect fraud/misconduct when monitoring? What steps would you take if you suspected fraud and misconduct at site?

# Introduction

Clinical trials have become an integral part of healthcare, redefining tomorrows standard of care; thus, much weighs on their data and results. Despite heavy regulation (1, 2), data falsification and fabrication continues (3, 4). Monitors must be able to detect the signs of possible fraud and misconduct (F&M).

#### Fraud Vs Misconduct

*Intent to deceive* distinguishes fraud from misconduct; fraud is considered a deliberate deception for personal gain (5), whereas misconduct is unintentional. In both instances, the safety of subjects and the reliability of data is jeopardised.

Fraud can broadly be classified as the (6):

- fabrication (i. e. creation) of
  - data (e. g. patient identities, physical examinations, biological specimens)
  - documents (e. g. ICFs, diaries, scan reports)
- falsifying data (i. e. altering or omitted existing records)

Misconduct is serious or repetitive failure to comply with the study protocol, GCP and regulatory requirements. Examples include inadequate staffing, poor attention to detail, lack of understanding of regulatory requirements and poor management. Although unintentional, it can falsify the data.

# **Tools & Techniques to Identify the Warning Signs**

GCP dictates that sponsors must monitor their clinical trials, as it facilitates data accuracy, integrity and completeness (7). Monitors may face ominous signs, such as significant differences or implausible trends at one site or of all patients under the care of a single investigator would (8, 9), requiring vigilant investigation.

ONGITE		WHAT
		COULD
	HOW?	APPEAR
TECHNIQUE		SUSPICIOUS?
Face-to-Face	- Open ended	- Gathering
Communicat	questions.	information
ion	– Non-verbal	such as '
	communication	timepoints';
	– Consistency with all site staff.	e. g. notified
		that staff
		member is
		on annual
		leave,
		however
		their account
		has been
		used to
		enter data

into the

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# eCRF.

– Are

pharmacy

aware of the

patients and

does drug

dispensed

reflect this?

Analysing &	– Ensure	-
Reviewing	originals/ wet-	Photocopyin
Original	ink are	g with fine
Source	provided for	marks: could
Documents	SDV.	indicate
	- Reviewing	white-out
	screening	usage.
	data: are	-
	patients	Photocopied
	eligible? Do	questionnair
	they exist?	e/ source
	-Patients or	data - where
	investigator	is the wet
	signatures	ink?
	discrepancies.	- Signatures
	- Medical	differs each

notes/ clinic	time a
letters to	patient
check genuine	reconsents?
patient	- Site
attendance	requested to
- Consistencies	add missing
of ink/ pen.	information
- Implausible	to a
trend of visit	document
dates, patient	(e. g.
initials, dates	questionnair
of birth.	e or ICF).
	Notice the
- Recurring or identical lab values or test results (e. g. bloods, ECG).	document
	has been
	amended/
	completed
	but patient
	has not
	attended
	clinic.
	- Same pen/
	ink would
	not be used
	be on all

		source
		documents.
		– Same
		handwriting:
		has one
		member of
		staff
		preformed
		all trial
		related
		tasks?
		– Two
		patients,
		same initials
		and date of
		birth: one
		patient,
		screened
		twice?
Pharmacy	– Match IxRS	– Rare for
Logs	report?	100% drug
	- Dose drug	compliance
	that been	across all
	delivered to	patients.

the site match

what has been

dispensed and/

or returned?

- Is compliance

 $100\%\ across$ 

all patients?

## – A high

## level of

- Is drua	perfection	or
– Is drug	pericetion	U

dispensed in a	similarity
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similar fashion would be

*Pharmacy* (e. g. all tubes suspicious.

- Accountabilit of cream or E. g. no
- y of Stock blister packs two patients
  - pressed in would

exact same dispense a

way). tube of

cream

identically.

OFF-SITE

TOOL OR

TECHNIQUE

Fraud and misconduct in clinical studies – Paper Example

		– Rapid
		recruitment/
		few
	– Reviews data	withdrawals
	holistically to	– Few/ no
	assess	SAEs or
	patterns and	concomitant
	trends in	medications
RMB	patient	compared to
Software	populations or	other sites.
	techniques	
	against other	- Few AES
	trial sites to	reported vs
	identify	patients
	outliers.	enrolled.
		- Late
		reporting of
		SAEs.
· ··· - ··		
Audit Trails	– Exist for	-
	eCRFs, ePROs,	Timepoints:
	etc. Can track	data entered
	when data was	on a
	entered, if it	weekend,
	was modified	national

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and by whom. holiday or

			when key
			staff are
			known to be
			away.
			- ePRO/
			diary
			completed
			within 1 day.
RAVE/ eCRF	- Ren	note	- Patients
	comp	liance	visit, or
	check	ks of data:	assessment
	•	Visit	is on a
		schedule	weekend,
		S	national
	•	Assessm	holiday or
		ent dates	when key
			staff are
			known to be
			away.
			- Prefect
			protocol and
			patient
			adherence to

visit

schedule.
– Matching
dates across
patients for
visits/ too
many visits
on a single
day.
- Recurring
or identical
lab values or
test results
(e. g. bloods,
ECG).

*Monitoring* – Open ended above.

Calls questions.

- Review
- findings from
- audit trails,
- eCRF and RBM
- software
- Review
- missing date,

	screened
	patient, ICFs
	With
	VVILII
	Pharmacy:
	- Review
	dispensing logs
	and cross
	match with
	IxRS report.
	- Do these
	match data in
	eCRF?
	- Statisticians
	can detect '
Statistical	strange' data

Methods patterns and

outliers (10,

11).

# **Managing Suspected Fraud & Misconduct**

Suspected F&M can be difficult to manage; without adequate evidence it could lead to a breakdown of the relationship with that site. Therefore, in the first instance the monitor should attempt to obtain any missing data and documents to confirm that the CRF data is supported by original source; often a reasonable explanation exists. This may involve repeated requests, but they should not accept denial to source documents.

The current climate of risk-based monitoring has seen a reduction in 100% SDV (12, 13); so, checking the legitimacy of source documents bears increased importance when F&M is suspected. Therefore, any missing information (e. g. ICFs) and sudden corrective actions should be questioned. Inconsistencies in signatures, dates, ink or photocopies may be subtle but should all be investigated to rule out F&M.

If no reasonable explanation can be sort the monitor could consider 100% SDV for a suspect site or patient. Alternatively, a ' for cause' audit could be conducted, as per the sponsors SOP. The findings could be used to compile a written case report.

If appropriate to escalate, the study manager should be notified, without alerting the site or persons suspected, who would then escalate to the QA team in line with applicable local policies. A detailed explanation of the monitors findings and supporting evidence would be required (i. e. the case report). This would facilitate further investigation, prior to approaching the site or investigator.

Although not a legal requirement, the MHRA (14) and EMA (15) encourages the reporting of all confirmed instances of clinical trial F&M as serious breaches.

## Conclusion

F&M is uncommon and can be difficult to detect (3, 4, 16). Monitors must be proactive in differentiating transcription errors from deceit and poor management. A high level of perfection and precision at any site would raise suspicion and warrant further investigation; but the context must also be considered. Having the tools and techniques is key to enable monitors to act as whistle-blowers and ensure the impact of F&M on patients and data integrity is prevented, or at least minimised, while equally maintaining site relations.

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## 17. Abbreviations

ADRAdverse drug reaction

AEAdverse event

CIConfidence interval

CRFCase report form

ECGElectrocardiogram

F&MFraud and misconduct

GCPGood Clinical Practice

ICFInformed consent form

QAQuality assurance

PROPatient reported outcomes

RBMRisk based monitoring

RCTRandomised controlled trial

SAESerious adverse event

## SDVSource data verification

## SOPStandard operating procedure