# **Data integrity** QA auditor's perspective

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"4 13 JUN 2018

# What is the bigest risk to the data integrity?

# Data "flow"











# Are auditors able to verify the data integrity?

# Are QA audits efficient in data integrity verification?



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Medicines & Healthcare products Regulatory Agency (MHRA)

'GXP' Data Integrity Guidance and Definitions

March 2018

MHRA GXP Data Integrity Guidance and Definitions; Revision 1: March 2018 Page 1 of 21 My Slovakia, 13 M.

Consistent

Complete

Accurate

**Trustworthy** 

Reliable

### Consistent

- 1. Logically ordered and/or following the same pattern
- 2. Unchanging; steady
- 3. Being in conformity with a set of rules, guidelines or policies

BRATISLAW, SLOVAKY, 13 ...

Complete

with all the parts

https://dictionary.cambedge.org/dictionary/english/complete 13

Accurate

correct, exact, and without any mistakes:

http://www.dictionary.com/browse/reliable?s=t>

Trustworth

deserving of trust, or able to be trusted

ed

https://dictionary.cambridge.org/dictionary/english/trustworthy

Reliable

able to be trusted; predictable or dependable

endable

https://dictionary.cambridge.org/dictionary/english/complete





### Medicines & Healthcare products Regulatory Agency (MHRA)

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### 6.4. Data Integrity



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**Data Qulity** 

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WSLAWY SLOWAKW, 13 ...



## **Case Study**

Phase 3 – dementia related study

Subject's age > 65 y, all required support

Private outpatient clinic

100% IMP compliance over few months



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## **Case Study**

Terminally ill subjects – at home

Regular nurses' visits at home

At home - notebooks with AE information

No AE data from home in the hospital SD



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## **Case Study**

Police investigation – documents and ePRO confiscated

ePRO of 2 subjects found at Investigator's home

Investigator entered the ePRO data instead of the subjects

Explanation – subjects had problems with ePRO

They called the investigator to inform him about their status





ePRO Subject's logins – all subjects had the same logins

centralize monitoring detected inconsistency of the data

data were mixed (improbable change of the weight)

SATISALA SIC.



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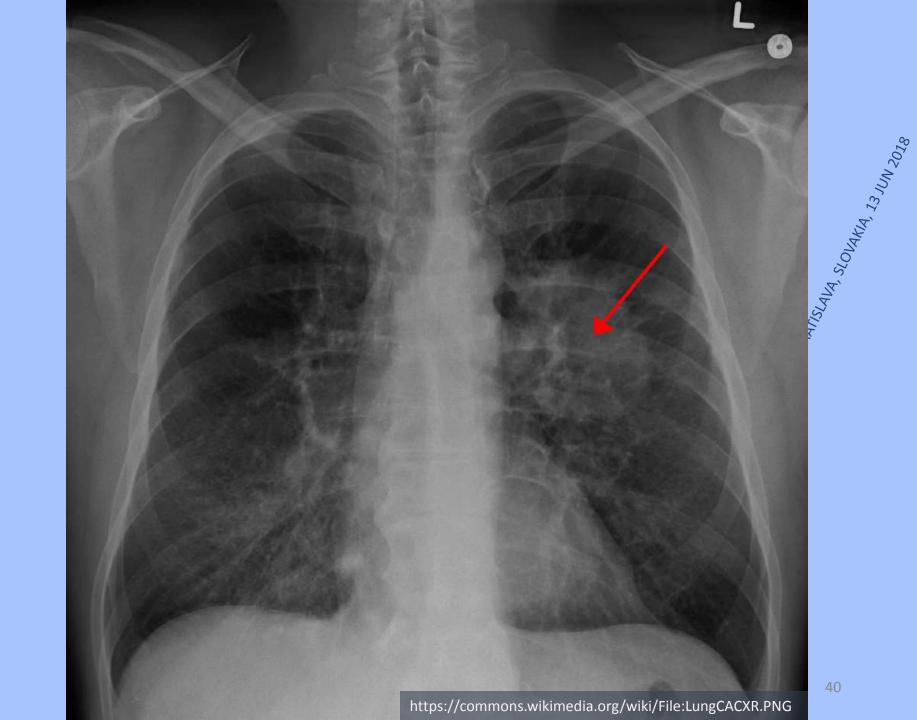


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Eastern Cooperative Oncology Group – ECOG scale

Indication – lung cancer – advanced

All subjects – value of the ECOG – 0

BRATISLAW, SI

#### **ECOG Performance Status**

Developed by the Eastern Cooperative Oncology Group, Robert L. Comis, MD, Group Chair.\*

	GRADE	ECOG PERFORMANCE STATUS
L	0	Fully active, able to carry on all pre-disease performance without restriction
Ī	1	Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, e.g., light house work, office work
	2	Ambulatory and capable of all selfcare but unable to carry out any work activities; up and about more than 50% of waking hours
	3	Capable of only limited selfcare; confined to bed or chair more than 50% of waking hours
	4	Completely disabled; cannot carry on any selfcare; totally confined to bed or chair
	5	Dead

<sup>\*</sup>Oken M, Creech R, Tormey D, et al. Toxicity and response criteria of the Eastern Cooperative Oncology Group. Am J Clin Oncol. 1982;5:649-655.

Eastern Cooperative Oncology Group – ECOG scale

Indication – lung cancer – advanced

All subjects – value of the ECOG – 0

High rate of SAE – deaths

MATISLAVA, SIC.

Doubts if the subjects exist

Check across all the SD available within hospital

SDV – additional, new information

Contradictory information – inconsistent with INC/EXCL

1475/4V4, 5601.



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Cancer study with genetic profile

Central genetic laboratory tests

3 subjects with the same extreme rare mutation

Repeated testing and investigation

All 3 samples contained the same genetic material

2 of 3 randomized

Other sites – very high screen failure rate

Patological testing confirmed different type of the cancer

SPATISLAW, SLOWAKY, 13 M.



Cancer study with genetic profile

Central genetic laboratory tests

According to the SD subject is male

According to the genetic tests subject is female

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eHealth Records - Source Documents

SDV – based on printouts from the eHR

CRA – has no direct access to the eHR

PI refuses access to the eHR to the auditors

Hospital management - hesitant - data privacy regulations

TATISLAW, SLOV.

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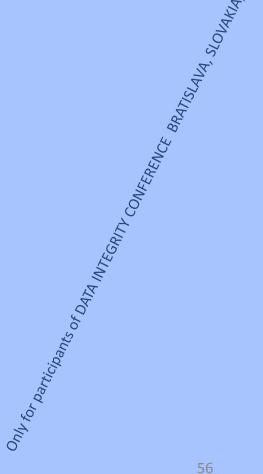
Reliable

Only for participas



## What is the bigest risk to the data integrity?

### Where are most frequently the data integrity issues located?

















# physician



# investigator





**Treatment** 

Medical knowledge

Long professional training

Data

**Protocol & Guidelines** 

articipa,

few hours GCP course





What about quality management systems at the clinical sites?



### Quality

is the compliance with the references

is focused on subject's security and rights

should lead to the integrity of the data





Clinical Pharmacology Unit

Dedicated to bioequivalence and bioavailability studies

QMS based on Standard Operating Procedures

Emergency Procedure – EM bag & trolley – quality checked

One form without assignment to EM bag or EM trolley

SAMTSANA SIC.



#### ICH HARMONISED GUIDELINE

### INTEGRATED ADDENDUM TO ICH E6(R1): GUIDELINE FOR GOOD CLINICAL PRACTICE E6(R2)

Current Step 4 version dated 9 November 2016

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'A human error problem is an organizational problem. Not because it creates problems for organization. It is organizational because a human error problem is created in large part, by the organization in which people work.'



