10th PT/EQA Workshop - Windsor 2023

Report from WG 3
Collusion or falsification of results in PT/EQA
Why does it happen and how can it be prevented?

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Questions to be answered

1. Extent of the problem
   1. Do you have personal experience of collusion or falsification of results in PT/EQA?
   2. Do you perceive a trend in time regarding collusion/falsification (about the same/more/less frequent)? What can explain this trend?
   3. Are you aware whether collusion/falsification is more frequently driven by operators or at management level?
   4. Is there a difference in collusion/falsification occurrence depending on the purpose of the PT/EQA?

2. Reasons driving the problem
   Based on your experience:
   1. What are the main reasons behind collusion/falsification?
   2. Does the likelihood of collusion/falsification depend on the economic pressure (e.g. risk of losing a licence to carry out certain types of work) on participants in the PT/EQA?

3. Identifying the problem
   1. As a PT/EQA provider, how can you identify collusion/falsification?
   2. As an accreditation body, how do you review collusion/falsification of results in PT/EQA during an assessment of a laboratory?
   3. To what extent should the PT/EQA provider investigate or sanction suspected collusion/falsification?

4. Preventing the problem
   1. As a PT/EQA provider, what practices can you put in place to prevent collusion/falsification?
   2. As an accreditation body, what elements do you consider in evaluating the PT/EQA provider strategies to prevent collusion/falsification amongst participants?
   3. Should it be the duty of PT/EQA provider’s duty to prevent it, as stated in ISO/IEC 17043?
Where do you come from?

• Participants
  – PT provider – most participants
  – Accreditation body - 3
  – Private laboratory - 1
  – Academia - 3
  – Governmental institution - 7
  – PT Software -1
  – Testkit Manufacturer - 2
1. Extent of the Problem

a) Do you have personal experience of collusion or falsification of results in PT/EQA?

- yes
  - discussions followed between participants
  - suspicious data identified; falsified assessment
  - internal discussions in a lab that communication with other participants is common practice
  - customer of test kit manufacturer asked for participation in the same scheme
  - virtual samples posted on social media, to ask for comments
  - Intracompany PT scheme – the lab managers talk to each other
  - similar remarks from two different participants – high probability that they spoke to each other

- Difficult to prove
1. Extent of the Problem

b) Do you perceive a trend in time regarding collusion/falsification (about the same/more/less frequent)? What can explain this trend?

• we don’t really know if it happens more frequent

• communication between labs is easier now
• Less and bigger companies buying other labs

• maybe the risk for collusion is higher, if there is a chance to lose accreditation or if there are other serious consequences - more participants could take the risk to be caught

• the consequences of identified collusion should be much more serious than for failing in the PT
1. Extent of the Problem

c) Are you aware whether collusion/falsification is more frequently driven by operators or at management level?

- fear to fail comes from the management
- might be the operator, but difficult to identify
- management in principle should be trained to a code of business conduct, so they should be aware that this is not correct
1. Extent of the Problem

d) Is there a difference in collusion/falsification occurrence depending on the purpose of the PT/EQA?

definitely yes
2. Reasons driving the problem

Based on your experience

a) What are the main reasons behind collusion/falsification?

- pressure to pass, risks of suspension, consequences not performing well
- too less consequences if you are getting caught
- wrong understanding – failing could be a chance for improvement; failing might be the wrong word?
- if there is a bonus system for payment of lab managers when they pass a PT this would be contraproducive
- PT should just one tool amongst others
2. Reasons driving the problem

Based on your experience

b) Does the likelihood of collusion/falsification depend on the economic pressure (e.g. risk of losing a licence to carry out certain types of work) on participants in the PT/EQA?

YES YES YES
3. Identifying the problem

a) As a PT/EQA provider, how can you identify collusion/falsification?

• if they do it properly you don’t have a chance
• you can find evidence, but you cannot prove it
• it is usually not the task of the PT provider to prove that
3. Identifying the problem

b) As an accreditation body, how do you review collusion/falsification of results in PT/EQA during an assessment of a laboratory?

- it if difficult unless there is already evidence
3. Identifying the problem

c) To what extent should the PT/EQA provider investigate or sanction suspected collusion/falsification?

- exclusion from the PT assessment
- reporting to accreditation body is difficult without breaching confidentiality; do I need this to be signed by the lab beforehand
- with low numbers of participants you may need every participant
4. Preventing the problem

a) As a PT/EQA provider, what practices can you put in place to prevent collusion/falsification?

• nice overview in Matthews presentation
  – e.g encrypting samples to prevent collusion (works only for big schemes)
• it should be noted in the PT registration/contract that collusion is not acceptable
• Participants should understand that it is a tool to improve
4. Preventing the problem

b) As an accreditation body, what elements do you consider in evaluating the PT/EQA provider strategies to prevent collusion/falsification amongst participants?

- looking just what elements are in place
- decision left to the assessor - no guidance known

- collusion is only the problem for the PT provider if the assigned value is affected
- mainly it should be the problem of the AB to identify collusion
4. Preventing the problem

c) Should it be the PT/EQA provider’s duty to prevent it, as stated in ISO/IEC 17043?

- There has to be “something” at the PT provider - a plan to restrict collusion
- “the PT provider should not make it to easy”
- The PT provider is not be the only one responsible

- The PT provider could assist in corrective actions to reduce the fear to fail